

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

**FORM 10-K**

Annual report pursuant to Section 13 or 15(d) of  
the Securities Exchange Act of 1934

For the fiscal year  
ended

December 31, 2024

Commission file

number 1-5805

**JPMorgan Chase & Co.**

(Exact name of registrant as specified in its charter)

Delaware

13-2624428

(State or other jurisdiction

of

incorporation or  
organization)

(I.R.S. employer  
identification no.)

383 Madison Avenue,

New York, New York

10179

(Address of principal  
executive offices)

(Zip Code)

Registrant's telephone number, including area code: (212) 270-6000

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol(s)</u>	<u>Name of each exchange on which registered</u>
Common stock	JPM	The New York Stock Exchange
Depository Shares, each representing a one-four hundredth interest in a share of 5.75% Non-Cumulative Preferred Stock, Series DD	JPM PR D	The New York Stock Exchange
Depository Shares, each representing a one-four hundredth interest in a share of 6.00% Non-Cumulative Preferred Stock, Series EE	JPM PR C	The New York Stock Exchange
Depository Shares, each representing a one-four hundredth interest in a share of 4.75% Non-Cumulative Preferred Stock, Series GG	JPM PR J	The New York Stock Exchange
Depository Shares, each representing a one-four hundredth interest in a share of 4.55% Non-Cumulative Preferred Stock, Series JJ	JPM PR K	The New York Stock Exchange
Depository Shares, each representing a one-four hundredth interest in a share of 4.625% Non-Cumulative Preferred Stock, Series LL	JPM PR L	The New York Stock Exchange
Depository Shares, each representing a one-four hundredth interest in a share of 4.20% Non-Cumulative Preferred Stock, Series MM	JPM PR M	The New York Stock Exchange
Guarantee of Callable Fixed Rate Notes due June 10, 2032 of JPMorgan Chase Financial Company LLC	JPM/32	The New York Stock Exchange
Guarantee of Alerian MLP Index ETNs due January 28, 2044 of JPMorgan Chase Financial Company LLC	AMJB	NYSE Arca, Inc.

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	Accelerated filer	Non-accelerated filer	Smaller reporting company	Emerging growth company
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If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. Yes No

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.—

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1 (b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes    No

The aggregate market value of JPMorgan Chase & Co. common stock held by non-affiliates as of June 30, 2024:

\$573,443,601,053

Number of shares of common stock outstanding as of January 31, 2025: 2,796,106,099

Documents incorporated by reference: Portions of the registrant's Proxy Statement for the annual meeting of stockholders to be held on May 20, 2025, are incorporated by reference in this Form 10-K in response to Items 10, 11, 12, 13 and 14 of Part III.

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## **Part I**

### **Item 1. Business.**

## Overview

JPMorgan Chase & Co. ("JPMorganChase" or the "Firm", NYSE: JPM), a financial holding company incorporated under Delaware law in 1968, is a leading financial services firm based in the United States of America ("U.S."), with operations worldwide. JPMorganChase had \$4.0 trillion in assets and \$344.8 billion in stockholders' equity as of December 31, 2024. The Firm is a leader in investment banking, financial services for consumers and small businesses, commercial banking, financial transaction processing and asset management. Under the J.P. Morgan and Chase brands, the Firm serves millions of customers, predominantly in the U.S., and many of the world's most prominent corporate, institutional and government clients globally.

JPMorganChase's principal bank subsidiary is JPMorgan Chase Bank, National Association ("JPMorgan Chase Bank, N.A."), a national banking association with U.S. branches in 48 states and Washington, D.C. JPMorganChase's principal non-bank subsidiary is J.P. Morgan Securities LLC ("J.P. Morgan Securities"), a U.S. broker-dealer. The bank and non-bank subsidiaries of JPMorganChase operate nationally as well as through overseas branches and subsidiaries, representative offices and subsidiary foreign banks. The Firm's principal operating subsidiaries outside the U.S. are J.P. Morgan Securities plc and J.P. Morgan SE ("JPMSE"), which are subsidiaries of JPMorgan Chase Bank, N.A. and are based in the United Kingdom ("U.K.") and Germany, respectively.

The Firm's website is [www.jpmorganchase.com](http://www.jpmorganchase.com). JPMorganChase makes available on its website, free of charge, annual reports on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934, as soon as reasonably practicable after it electronically files or furnishes such material to the U.S. Securities and Exchange Commission

## Business segments & Corporate

Effective in the second quarter of 2024, JPMorganChase reorganized its reportable business segments by combining the former Corporate & Investment Bank and Commercial Banking business segments to form one reportable segment, the Commercial & Investment Bank. As a result of the reorganization, the Firm has three reportable business segments – Consumer & Community Banking ("CCB"), Commercial & Investment Bank ("CIB") and Asset & Wealth Management ("AWM") – with the remaining activities in Corporate. The Firm's consumer business segment is CCB, and the Firm's wholesale business segments are CIB and AWM.

A description of the Firm's reportable business segments and the products and services that they provide to their respective client bases, as well as a description of Corporate activities, is provided in the Management's discussion and analysis of financial condition and results of operations section of this Form 10-K ("Management's discussion and analysis" or "MD&A") under the heading "Business Segment & Corporate Results," which begins on page 52, and in Note 32.

## Competition

JPMorganChase and its subsidiaries and affiliates operate in highly competitive environments. Competitors include other banks, brokerage firms, investment banking companies, merchant banks, hedge funds, commodity trading companies, private equity firms, insurance companies, mutual fund companies, investment managers, credit card companies, mortgage banking companies, trust companies, securities processing companies, automobile financing companies, leasing companies, e-commerce and other internet-based companies, financial technology companies, and other companies engaged in providing similar and new products and services. The Firm's businesses generally compete on the basis of the quality and variety of the Firm's products and services, transaction execution, innovation,





**Part I**

### **Supervision and regulation**

The Firm is subject to extensive and comprehensive regulation under U.S. federal and state laws, as well as the applicable laws of the jurisdictions outside the U.S. in which the Firm does business.

### **Financial holding company:**

*Consolidated supervision.* JPMorgan Chase & Co. is a bank holding company ("BHC") and a financial holding company ("FHC") under U.S. federal law, and is subject to comprehensive consolidated supervision, regulation and examination by the Board of Governors of the Federal Reserve System (the "Federal Reserve"). The Federal Reserve acts as the supervisor of the consolidated operations of BHCs. Certain of JPMorganChase's subsidiaries are also regulated directly by additional authorities based on the activities or licenses of those subsidiaries.

JPMorganChase's national bank subsidiary, JPMorgan Chase Bank, N.A., is supervised and regulated by the Office of the Comptroller of the Currency ("OCC") and, with respect to certain matters, by the Federal Deposit Insurance Corporation (the "FDIC").

JPMorganChase's U.S. broker-dealers are supervised and regulated by the Securities and Exchange Commission ("SEC") and the Financial Industry Regulatory Authority ("FINRA"). Subsidiaries of the Firm that engage in certain futures-related and swaps-related activities are supervised and regulated by the Commodity Futures Trading Commission ("CFTC"). J.P. Morgan Securities plc holds a banking license in the U.K. and is regulated by the U.K. Prudential Regulation Authority (the "PRA") and the U.K. Financial Conduct Authority ("FCA").

JPMSE is a Germany-based credit institution jointly regulated by the European Central Bank ("ECB"), the German Financial Supervisory Authority and the German Central Bank, as well as the local regulators in each of the countries in which it operates. The Firm's other non-U.S. subsidiaries are regulated by the

depository institution controlled by an FHC fails to maintain a satisfactory rating under the Community Reinvestment Act, the Federal Reserve must prohibit the FHC and its subsidiaries from engaging in any new activities other than those permissible for BHCs, or acquiring a company engaged in such activities.

*Capital and liquidity requirements.* The Federal Reserve establishes capital, liquidity and leverage requirements for JPMorganChase that are generally consistent with the international Basel III capital and liquidity framework and evaluates the Firm's compliance with those requirements. The OCC establishes similar requirements for JPMorgan Chase Bank, N.A. Certain of the Firm's non-U.S. subsidiaries and branches are also subject to local capital and liquidity requirements.

Banking supervisors globally continue to refine and enhance the Basel III capital framework for financial institutions. In July 2023, U.S. banking regulators released a proposal to amend the U.S. risk-based capital framework to incorporate certain elements of the revised international Basel III capital framework. The proposal would significantly revise risk-based capital requirements for banks with assets of \$100 billion or more, including the Firm and other U.S. global systemically important banks ("GSIBs"). Finalization of the proposal, including the required implementation date, is uncertain. The Firm continues to monitor developments and potential impacts.

In the EU and U.K., regulators have finalized the rules implementing their Basel III frameworks. The new rules became effective in the EU beginning January 1, 2025, with market risk aspects delayed until January 1, 2026. In January 2025, the PRA announced that it intends to delay the implementation of the new rules in the U.K. to January 1, 2027. There are certain transitional arrangements applicable in both the EU and U.K. until 2032 and 2030, respectively.





SCB requirement will become effective on October 1, 2025. The OCC requires JPMorgan Chase Bank, N.A. to perform separate, similar stress tests annually. The Firm publishes each year the results of the annual stress tests for the Firm and JPMorgan Chase Bank, N.A. under the supervisory "severely adverse" scenarios provided by the Federal Reserve and the OCC. In December 2024, the Federal Reserve indicated in a press release that it intends to seek public comment on changes to its stress testing framework. Additionally, there is a pending legal challenge to the manner in which stress testing is administered. Refer to Litigation and regulatory challenges on pages 6-7 for further information.

Refer to Capital Risk Management on pages 97-107 and Liquidity Risk Management on pages 108-115 for more information.

*Enhanced prudential standards.* As part of its mandate to identify and monitor risks to the financial stability of the U.S. posed by large banking organizations, the Financial Stability Oversight Council ("FSOC") recommends prudential standards and reporting requirements to the Federal Reserve for systemically important financial institutions ("SIFIs"), such as JPMorganChase. The Federal Reserve has adopted several rules to implement those heightened prudential standards, including rules relating to risk management and corporate governance of subject BHCs. JPMorganChase is required under these rules to comply with enhanced liquidity and overall risk management standards, including oversight by the board of directors of risk management activities.

*Holding company as a source of strength.* JPMorgan Chase & Co. is required to serve as a source of financial strength for its depository institution subsidiaries and to commit resources to support those subsidiaries, including when directed to do so by the Federal Reserve.

*Regulation of acquisitions.* Acquisitions by BHCs and their banks

broader range of activities (including acquisitions) than BHCs, the Federal Reserve has the authority to limit an FHC's ability to conduct otherwise permissible acquisitions if the FHC or any of its depository institution subsidiaries ceases to meet applicable eligibility requirements.

*Ongoing obligations.* The Firm is subject to a five-year cooperation obligation under an order issued by the CFTC on September 29, 2020, relating to precious metals and U.S. Treasuries markets investigations. The Firm also remains subject to consent orders entered into in March 2024 with the OCC and the Board of Governors of the Federal Reserve System, and a resolution entered into in May 2024 with the CFTC, which relate to the Firm's processes to inventory trading venues and confirm the completeness of certain data fed to trade surveillance platforms.

#### **Subsidiary banks:**

The activities of JPMorgan Chase Bank, N.A., the Firm's principal subsidiary bank, are limited to those specifically authorized under the National Bank Act and related interpretations of the OCC. The OCC has authority to bring an enforcement action against JPMorgan Chase Bank, N.A. for unsafe or unsound banking practices, which could include limiting JPMorgan Chase Bank, N.A.'s ability to conduct otherwise permissible activities, or imposing corrective capital or managerial requirements on the bank.

*FDIC deposit insurance.* The FDIC deposit insurance fund provides insurance coverage for certain deposits and is funded through assessments on banks, including JPMorgan Chase Bank, N.A. The FDIC is required to maintain a minimum reserve ratio, which measures the balance of reserves in the deposit insurance fund against an estimate of FDIC-insured deposits, of 1.35%. The reserve ratio is currently below the statutory minimum and, in October 2022, the FDIC adopted a final rule to raise bank assessments and accelerate the time by which the



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capital adequacy standards. The Federal Reserve is also authorized to take appropriate action against the parent BHC, such as JPMorgan Chase & Co., based on the undercapitalized status of any bank subsidiary. In certain instances, the BHC would be required to guarantee the performance of the capital restoration plan for its undercapitalized subsidiary.

*Heightened Supervisory Standards.* In the U.S., the OCC has established guidelines setting forth heightened standards for large banks, including minimum standards for the design and implementation of a risk governance framework for banks. Under these standards, a bank's risk governance framework must ensure that the bank's risk profile is easily distinguished and separate from that of its parent BHC for risk management purposes. The bank's board or risk committee is responsible for approving the bank's risk governance framework, providing active oversight of the bank's risk-taking activities, and holding management accountable for adhering to the risk governance framework.

The Firm's banking entities in the EU and the U.K. are subject to supervisory expectations published by the ECB and the PRA, respectively, addressing bank strategy, governance and risk management in the areas of climate change, operational resilience, reliance on IT systems and third-party services, and resilience from macro-financial and geopolitical shocks.

*Restrictions on transactions with affiliates.* JPMorgan Chase Bank, N.A. and its subsidiaries are subject to restrictions imposed by federal law on extensions of credit to, investments in stock or securities of, and derivatives, securities lending and certain other transactions with, JPMorgan Chase & Co. and certain other affiliates. These restrictions prevent JPMorgan Chase & Co. and other affiliates from borrowing from JPMorgan Chase Bank, N.A. and its subsidiaries unless the loans are secured in specified amounts and comply with certain other requirements.

U.S. deposit liabilities (including the FDIC and deposits in non-U.S. branches that are dually payable in the U.S. and in a non-U.S. branch) have priority over the claims of other unsecured creditors of the institution, including depositors in non-U.S. branches and public noteholders.

*Consumer supervision and regulation.* JPMorganChase and JPMorgan Chase Bank, N.A. are subject to supervision and regulation in the U.S. by the Consumer Financial Protection Bureau ("CFPB") with respect to federal consumer protection laws, including laws relating to fair lending and the prohibition of unfair, deceptive or abusive acts or practices in connection with the offer, sale or provision of consumer financial products and services. The CFPB also has jurisdiction over small business lending activities with respect to fair lending and the Equal Credit Opportunity Act. As part of its regulatory oversight, the CFPB has authority to take enforcement actions against firms that offer certain products and services to consumers using practices that are deemed to be unfair, deceptive or abusive. In March 2024, the CFPB released a final rule which significantly reduces the late payment fees that large credit card issuers, including the Firm, are permitted to charge to customers (the "CFPB Late Fee Rule"). The final rule is currently stayed pending resolution of an industry-led challenge in federal court. Refer to Litigation and regulatory challenges on pages 6-7 for further information.

In addition, in October 2024, the CFPB issued a final rule that requires data providers, including banks, to make certain consumer data available to consumers and authorized third parties in electronic form beginning in April 2026 (the "CFPB Data Sharing Rule"). Refer to Litigation and regulatory challenges on pages 6-7 for further information.

Separately, in December 2024, the CFPB announced a final rule that would significantly restrict overdraft fees for certain insured





statutes which are enforced by the Attorney General or empowered agency of each state.

In the U.K., the Firm operates a retail bank through J.P. Morgan Europe Limited ("JPME") and provides retail investment management services through Nutmeg Saving and Investment Limited ("Nutmeg"). JPME is regulated by the PRA, and both JPME and Nutmeg are regulated by the FCA with respect to their conduct of financial services in the U.K., including obligations relating to the fair treatment of customers. JPME is also regulated by the U.K. Payment Systems Regulator with respect to its operation and use of payment systems. In addition, the retail businesses of JPME and Nutmeg are subject to U.K. consumer-protection legislation.

#### **Securities and broker-dealer regulation:**

The Firm conducts securities underwriting, dealing and brokerage activities in the U.S. through J.P. Morgan Securities LLC and other non-bank broker-dealer subsidiaries, all of which are subject to regulations of the SEC, FINRA and the New York Stock Exchange, among others. The Firm conducts similar securities activities outside the U.S. subject to local regulatory requirements. In the U.K., those activities are primarily conducted by J.P. Morgan Securities plc and in the EU, those activities are primarily conducted by JPMSE. Broker-dealers are subject to laws and regulations covering all aspects of the securities business, including sales and trading practices, securities offerings, publication of research reports, use of customer funds, the financing of client purchases, capital structure, record-keeping and retention, and the conduct of their directors, officers and employees. Refer to Broker-dealer regulatory capital on page 107 for information concerning the capital of J.P. Morgan Securities LLC, J.P. Morgan Securities plc and JPMSE. In addition, the Firm's sales and trading activities, which are conducted through both bank and non-bank subsidiaries, are subject to

The Firm's asset and wealth management businesses continue to be subject to ongoing rule-making and implementation of new regulations and other guidance, including by the SEC and certain U.S. states with respect to enhanced standards of conduct and conflicts of interest. In April 2024, the Department of Labor ("DOL") finalized a new "fiduciary" rule that would significantly expand the scope for defining who can be deemed investment advice fiduciaries for purposes of retirement plans and individual retirement accounts ("IRAs") under the Employee Retirement Income Security Act of 1974, as amended (the "Fiduciary Rule"). Among the most significant impacts of the rule and related amendments to prohibited transaction exemptions would be the impact on the fee and compensation practices at financial institutions that offer investment recommendations to retirement clients, including in the context of rollovers from an employer plan to an IRA. The effective date of the Fiduciary Rule has been stayed by two federal courts. Refer to Litigation and regulatory challenges on pages 6-7 for further information.

#### **Derivatives regulation:**

The Firm is subject to comprehensive regulation of its derivatives businesses. In the U.S., JPMorgan Chase Bank, N.A., J.P. Morgan Securities LLC and J.P. Morgan Securities plc are registered with the CFTC as "swap dealers". In addition, JPMorgan Chase Bank, N.A. and J.P. Morgan Securities LLC are registered with the SEC as "security-based swap dealers". As a result, these entities are subject to a comprehensive regulatory framework applicable to their swap or security-based swap activities, including capital requirements, rules requiring the collateralization of uncleared swaps and security-based swaps, rules regarding segregation of counterparty collateral, business conduct and documentation standards, rules requiring the central clearing of standardized over-the-counter ("OTC") derivatives, requirements that



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matters. These laws, rules and regulations are constantly evolving, subject to interpretation, remain a focus of regulators globally, may be enforced by private parties or government bodies, and continue to have a significant impact on all of the Firm's businesses and operations.

For example, the Digital Operational Resilience Act (DORA) mandates that the Firm's financial services subsidiaries operating in the EU comply with requirements relating to information and communications technology ("ICT") risk management, reporting, security control testing and ICT third party risks beginning in January 2025. In addition, the EU Artificial Intelligence Act regulates the development and deployment of artificial intelligence systems within the EU, with phased-in requirements that began in February 2025.

#### **The Bank Secrecy Act and Economic Sanctions:**

The Bank Secrecy Act ("BSA") requires all financial institutions, including banks and securities broker-dealers, to establish a risk-based system of internal controls reasonably designed to prevent money laundering and the financing of terrorism. The BSA includes a variety of record-keeping and reporting requirements, as well as due diligence/know-your-customer documentation requirements. The Firm is also subject to the regulations and economic sanctions programs administered and enforced by the U.S. Treasury's Office of Foreign Assets Control ("OFAC") and EU and U.K. authorities which target entities or individuals that are, or are located in countries that are, involved in activities including terrorism, hostilities, embezzlement or human rights violations. The Firm is also subject to economic sanctions laws, rules and regulations in other jurisdictions in which it operates, including those that conflict with or prohibit a firm such as JPMorganChase from complying with certain laws, rules and regulations to which it is otherwise subject.

#### **Anti-Corruption:**

practices are also subject to regulation and oversight by regulators in other jurisdictions, notably the Fifth Capital Requirements Directive ("CRD V"), as implemented in the EU and as largely adopted in the U.K, which includes compensation-related provisions. The European Banking Authority has instituted guidelines on compensation policies including under CRD V which in certain countries (such as Germany) are implemented or supplemented by local regulations or guidelines. The U.K. regulators have also instituted regulations and guidelines on compensation policies, which diverge in certain areas from EU rules. The Firm expects that the implementation of regulatory guidelines regarding compensation in the U.S. and other countries will continue to evolve, and may affect the manner in which the Firm structures its compensation programs and practices.

#### **Sustainability:**

Policymakers in the U.K. and the EU have continued to implement and enhance sustainability-related initiatives and disclosure requirements. The Corporate Sustainability Reporting Directive ("CSRD") will replace and significantly expand the scope and content of certain EU ESG reporting requirements, with phased-in requirements expected to start with fiscal year 2024. The implementation of CSRD into local law has been delayed in a number of member states, including in Germany, and the Firm continues to monitor developments and potential impacts. In addition, in July 2024, the EU enacted the Corporate Sustainability Due Diligence Directive ("CSDDD"), which provides for phased-in requirements starting in 2027. The CSDDD sets mandatory due diligence obligations for companies to address actual and potential human rights violations and environmental adverse impacts stemming from their own operations and business relationships, including the activities of certain companies with which they have established business relationships and sub-





- **CFPB Late Fee Rule:** This rule has been stayed pending resolution of an action challenging the rule filed against the CFPB in the United States District Court for the Northern District of Texas in March 2024 by trade organizations including the American Bankers Association and the Consumer Bankers Association.
- **CFPB Data Sharing Rule:** The BPI, the Kentucky Bankers Association and other organizations filed an action against the CFPB in the United States District Court for the Eastern District of Kentucky in October 2024 challenging key aspects of this rule.
- **CFPB Overdraft Rule:** An action filed by trade organizations led by the Mississippi Bankers Association against the CFPB in the United States District Court for the Southern District of Mississippi in December 2024 seeks a preliminary injunction to stay the October 1, 2025 effective date of this rule. The CFPB has consented in part to stay the effective date of the rule by 90 days and to temporarily stay the litigation. The preliminary injunction and the stay of litigation are pending court approval.
- **Fiduciary Rule:** Trade organizations including the Federation of Americans for Consumer Choice and the American Council of Life Insurers filed actions against the DOL seeking to enjoin this rule, and in July 2024, the effective date of the rule was stayed by two United States District Courts.

## Part I

### Human capital

JPMorganChase believes that its long-term growth and success depend on its ability to attract, develop and retain talented employees and foster an inclusive work environment. The information provided below relates to JPMorganChase's full-time and part-time employees and does not include the Firm's contractors.

#### Global workforce

As of December 31, 2024, JPMorganChase had 317,233 employees globally, an increase of 7,307 employees from the prior year. The increase was primarily attributable to growth in the number of front office and technology employees. JPMorganChase's employees are located in 66 countries, with 59% of the Firm's employees located in the U.S. The following table presents the distribution of the Firm's global workforce by region and by line of business ("LOB") and Corporate as of December 31, 2024:

Employee Breakdown by Region		Employee Breakdown by LOB and Corporate	
Region	Employees	LOB	Employees
North America	187,179	CCB	144,989
Asia-Pacific	93,941	CIB	93,231
Europe/Middle East/ Africa	30,729	AWM	29,403
Latin America/ Caribbean	5,384	Corporate	49,610
<b>Total Firm</b>	<b>317,233</b>	<b>Total Firm</b>	<b>317,233</b>

#### Workforce composition

The following table presents information based on voluntary self-identifications by the Firm's employees, including members of the Firm's Operating Committee and other senior level employees, as well as members of the Board of Directors, as of December 31, 2024. Information on race/ethnicity of employees is categorized based on Equal Employment Opportunity ("EEO") classifications and is presented for U.S. employees who self-identified, and information on gender is presented for global employees who self-identified. Information on race/ethnicity and gender for members of the Operating Committee and the Board of Directors reflects all such members. Information on LGBTQ+ and veteran statuses is based on all U.S. employees, and all members of the Operating Committee and the Board of Directors. Information on disability status is based on all U.S. employees and all members of the Operating Committee.

<b>December 31, 2024</b>	<b>Total employees</b>	<b>Senior level employees<sup>(e)</sup></b>	<b>Operating Committee</b>	<b>Board of Directors<sup>(f)</sup></b>
<b>Race/Ethnicity<sup>(a)</sup>:</b>				
White	43 %	74 %	86 %	80 %
Hispanic	21 %	6 %	7 %	—
Asian	20 %	14 %	7 %	—
Black	13 %	5 %	—	20 %
Other <sup>(b)</sup>	3 %	1 %	—	—
<b>Gender<sup>(c)</sup>:</b>				
Men	51 %	71 %	53 %	50 %
Women	49 %	29 %	47 %	50 %
LGBTQ+ <sup>(d)</sup>	4 %	2 %	7 %	—
Military veterans <sup>(d)</sup>	3 %	2 %	—	10 %
People with disabilities <sup>(d)</sup>	5 %	3 %	—	— (g)

(a) Based on EEO metrics. Presented as a percentage of the respective populations who self-identified race/ethnicity, which was 97% and 95% of the Firm's total U.S.-based employees and U.S.-based senior level employees, respectively, and all members of the Operating Committee and the Board of Directors. Information for the Operating Committee includes one member who is based outside of the U.S.

(b) Other includes American Indian or Alaskan Native, Native Hawaiian or Other Pacific Islander, and two or more races/ethnicities.

(c) Presented as a percentage of the respective populations who self-identified gender, which was 99% of each of the Firm's total global employees and senior level employees, and all members of the Operating Committee and the Board of Directors.

(d) Presented as a percentage of total U.S.-based employees, total U.S.-based senior level employees, all members of the Operating Committee, and all members of the Board of Directors, respectively.

(e) Senior level employees represents employees with the titles of Managing Director and above.

(f) Excludes Brad D. Smith and Michele G. Buck, who were elected to the Firm's Board of Directors, effective January 21, 2025 and March 17, 2025, respectively.

(g) The Firm has not asked members of the Board of Directors to self-identify disability status.



### *Attracting and retaining employees*

The goal of JPMorganChase's recruitment efforts is to attract and hire highly qualified candidates in all roles and at all career levels. The Firm's hiring practices focus on the skills and qualifications of a candidate relative to the job requirements.

The Firm strives to provide both external candidates and internal employees who are seeking a different role with challenging and stimulating career opportunities. These opportunities range from internship training programs for students to entry-level, management and executive careers. During 2024, approximately 56% of the Firm's employment opportunities were filled by external candidates, with the remainder filled by existing employees.

### *Developing employees*

JPMorganChase supports the professional development and career growth of its employees. The Firm requires that its employees, including new hires, complete a training curriculum which covers, among other topics, compliance with the Firm's Code of Conduct and information concerning Firm policies and standards, including those relating to cybersecurity. In addition, the Firm offers extensive voluntary training programs and educational resources to all employees covering a broad variety of topics such as leadership and management, artificial intelligence, data literacy and operational and professional skills. Leadership Edge, the Firm's global leadership and management development center of excellence, is focused on creating one Firmwide leadership culture.

### *Compensation and benefits*

The Firm provides market-competitive compensation and benefits programs. JPMorganChase's compensation philosophy includes guiding principles that drive compensation-related decisions across the Firm, and includes: pay-for-performance practices designed to attract and retain top talent; responsiveness and alignment with shareholder interests;



**Part I**

## Item 1A. Risk Factors.

*The following discussion sets forth the material risk factors that could affect JPMorganChase's financial condition and operations. Readers should not consider any descriptions of these factors to be a complete set of all potential risks that could affect the Firm. Any of the risk factors discussed below could by itself, or combined with other factors, materially and adversely affect JPMorganChase's business, results of operations, financial condition, capital position, liquidity, competitive position or reputation, including by materially increasing expenses or decreasing revenues, which could result in material losses or a decrease in earnings.*

### Summary

The principal risk factors that could adversely affect JPMorganChase's business, results of operations, financial condition, capital position, liquidity, competitive position or reputation include:

- **Regulatory** risks, including the impact that applicable laws, rules and regulations in the highly-regulated and supervised financial services industry, as well as changes to or in the application, interpretation or enforcement of those laws, rules and regulations, can have on JPMorganChase's business and operations, including JPMorganChase incurring additional costs associated with assessments, levies or other governmental charges; the ways in which differences in financial services regulation and supervision in different jurisdictions or with respect to certain competitors can negatively impact JPMorganChase's business; the ways in which governmental policies that discourage or penalize business relationships with clients in certain industries, or require specific business practices, can negatively affect JPMorganChase's businesses; the penalties and positions and on JPMorganChase's earnings and its liquidity and capital levels.
- **Credit** risks, including potential negative effects from adverse changes in the financial condition of clients, customers, counterparties, custodians and central counterparties; the potential for losses due to declines in the value of collateral in stressed market conditions; and potential negative impacts from concentrations of credit risk with respect to clients, customers, counterparties and other market participants.
- **Liquidity** risks, including the risk that JPMorganChase's liquidity could be impaired by market-wide illiquidity or disruption, unforeseen liquidity or capital requirements, the inability to sell assets, default by a significant market participant, unanticipated outflows of cash or collateral, or lack of market or customer confidence in JPMorganChase; the dependence of JPMorgan Chase & Co. on the cash flows of its subsidiaries; and the potential adverse effects that any downgrade in any of JPMorganChase's credit ratings may have on its liquidity and cost of funding.
- **Capital** risks, including the risk that any failure by or inability of JPMorganChase to maintain the required level and composition of capital, or unfavorable changes in applicable capital requirements, could limit JPMorganChase's ability to distribute capital to shareholders or to support its business activities.
- **Operational** risks, including risks associated with JPMorganChase's dependence on its operational systems and its employees, as well as the systems and employees of third parties, market participants and service providers; the potential negative effects of failing to identify and address operational risks related to the failure of internal or external operational systems; the







effectiveness of JPMorganChase's existing business strategies with respect to its operations, clients and customers.

- **Conduct** risks, including the negative impact that can result from the actions or misconduct of employees, including any failure of employees to conduct themselves in accordance with JPMorganChase's expectations, policies and practices.
- **Reputation** risks, including the potential adverse effects on JPMorganChase's relationships with its clients, customers, shareholders, regulators and other stakeholders that could arise from employee misconduct, security breaches, inadequate risk management, compliance or operational failures, litigation and regulatory investigations, failure to satisfy expectations concerning environmental, social and governance concerns, failure to effectively manage conflicts of interest or to satisfy fiduciary obligations, or other factors that could damage JPMorganChase's reputation.
- **Country** risks, including potential impacts on JPMorganChase's businesses from an outbreak or escalation of hostilities between countries or within a country or region; and the potential adverse effects of local economic, political, regulatory and social factors on JPMorganChase's business and revenues in certain countries in which it operates.
- **People** risks, including the criticality of attracting and retaining qualified employees; and the potential adverse effects of unfavorable changes in immigration or travel policies on JPMorganChase's workforce.
- **Legal** risks, including those relating to litigation and regulatory and government investigations.

*The above summary is subject in its entirety to the discussion of the risk factors set forth below.*

rules and regulations. These types of developments could result in JPMorganChase incurring additional costs or experiencing a reduction in revenues to comply with applicable laws, rules and regulations, which could reduce its profitability.

Furthermore, JPMorganChase's entry into or acquisition of a new business or an increase in its principal investments may require JPMorganChase to comply with additional laws, rules, and regulations.

Additionally, JPMorganChase's ability to execute certain business initiatives could become more challenging due to increased regulation in the financial services industry, such as limitations on late payment, overdraft and interchange fees. This could adversely affect JPMorganChase's earnings from its consumer businesses, prompting the reevaluation or adjustment of certain businesses or product offerings, as well as the reallocation of resources and incurrence of restructuring costs, which could impact revenue and profitability in the affected lines of business.

In response to new and existing laws, rules and regulations and expanded supervision, JPMorganChase has in the past been and could in the future be, required to:

- limit the products and services that it offers
- reduce the liquidity that it can provide through its market-making activities
- refrain from engaging in business opportunities that it might otherwise pursue
- pay higher taxes (including as part of any minimum global tax regime), assessments, levies or other governmental charges, including in connection with the resolution of tax examinations
- incur losses, including with respect to fraudulent transactions perpetrated against its customers
- dispose of certain assets, and do so at times or prices that are disadvantageous

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**Part I**

**Differences and inconsistencies in financial services regulation and supervision can negatively impact JPMorganChase's businesses, operations and financial results.**

The content and application of laws, rules and regulations affecting financial services firms can vary according to factors such as the size of the firm, the jurisdiction in which it is organized or operates, and other criteria. For example:

- larger firms such as JPMorganChase are often subject to more stringent supervision, regulation and regulatory scrutiny
- financial technology companies and other non-traditional competitors may not be subject to banking regulation, or may be supervised by a national or state regulatory agency that does not have the same resources or regulatory priorities as the regulatory agencies that supervise more diversified financial services firms, or
- the financial services regulatory and supervisory framework in a particular jurisdiction may favor financial institutions that are based in that jurisdiction.

These types of differences in the regulatory and supervisory framework can result in JPMorganChase losing market share to competitors that are less regulated or not subject to regulation, especially with respect to unregulated financial products.

There can also be significant differences in the ways that similar regulatory initiatives affecting the financial services industry are implemented in the U.S. and in other countries and regions in which JPMorganChase does business. For example, when adopting rules that are intended to implement a global regulatory or supervisory standard, a national regulator may introduce additional or more restrictive requirements, which can create competitive disadvantages for financial services firms, such as JPMorganChase, that may be subject to those enhanced regulations.

In addition, certain national and

- the establishment of locally-based intermediate holding companies or operating subsidiaries
- requirements to maintain minimum amounts of capital or liquidity in locally-based subsidiaries
- the implementation of processes within locally-based subsidiaries to comply with local regulatory requirements or expectations
- the separation (or "ring fencing") of core banking products and services from markets activities
- requirements for the orderly resolution of financial institutions
- requirements for executing or settling transactions on exchanges or through central counterparties ("CCPs"), or for depositing funds with other financial institutions or clearing and settlement systems
- position limits and reporting rules for derivatives
- governance and accountability regimes
- conduct of business and control requirements, and
- restrictions on compensation.

These types of differences, inconsistencies and conflicts in financial services regulation have required and could in the future require JPMorganChase to:

- divest assets or restructure its operations
- maintain higher levels of capital and liquidity, or absorb increased capital and liquidity costs
- incur higher operational and compliance costs
- change the prices that it charges for its products and services
- curtail the products and services that it offers to its customers and clients
- curtail other business opportunities, including acquisitions or principal investments, that it otherwise would have pursued
- become subject to regulatory fines, penalties or other sanctions, or







penalties and experienced other repercussions in connection with resolving investigations and enforcement actions by governmental agencies. JPMorganChase could become subject to similar regulatory or governmental resolutions or other actions in the future, and addressing the requirements of any such resolutions or actions could result in JPMorganChase incurring higher operational and compliance costs, including devoting substantial resources to the required remediation or needing to comply with other restrictions.

In connection with resolving specific regulatory investigations or enforcement actions, certain regulators have required JPMorganChase and other financial institutions to admit wrongdoing with respect to the activities that gave rise to the resolution. These types of admissions can lead to:

- greater exposure in litigation
- damage to JPMorganChase's reputation
- disqualification from doing business with certain clients or customers, or in specific jurisdictions, or
- other direct and indirect adverse effects.

Furthermore, government officials in the U.S. and other countries have demonstrated a willingness to bring criminal actions against financial institutions and have required that institutions plead guilty to criminal offenses or admit other wrongdoing in connection with resolving regulatory investigations or enforcement actions. Resolutions of this type can have significant collateral consequences for the subject financial institution, including:

- loss of clients, customers and business
- restrictions on offering certain products or services, and
- losing permission to operate certain businesses, either temporarily or permanently.

JPMorganChase expects that:

- it and other financial services firms will continue to be subject

If JPMorganChase fails to meet the requirements of any resolution of a governmental investigation or enforcement action, or to maintain risk and control processes that meet the heightened standards and expectations of its regulators, it could be required to, among other things:

- enter into further resolutions of investigations or enforcement actions
- pay additional regulatory penalties or enter into judgments, or
- accept material regulatory restrictions on, or changes in the management of, its businesses.

In these circumstances, JPMorganChase could also become subject to other sanctions, or to prosecution or civil litigation with respect to the conduct that gave rise to an investigation or enforcement action. In addition, JPMorganChase can be subject to higher costs or requests for additional capital in connection with the resolution of governmental investigations and enforcement actions involving newly-acquired businesses, companies in which JPMorganChase has made principal investments, parties to joint ventures with JPMorganChase, and vendors with which JPMorganChase does business.

**JPMorganChase's operations and financial results can be negatively impacted in jurisdictions with less predictable legal and regulatory frameworks.**

JPMorganChase conducts existing and new business in certain countries, states, municipalities, territories and other jurisdictions in which the application of the rule of law is inconsistent, extralegal or less predictable, including with respect to:

- the absence of a statutory or regulatory basis or guidance for engaging in specific types of business or transactions
- conflicting or ambiguous laws, rules, regulations and judicial orders, or the inconsistent



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- the termination of licenses required to operate in the local market or the suspension of business relationships with governmental bodies.

If the application of the laws, rules, regulations and judicial precedents in any jurisdiction is susceptible to producing outcomes that are inconsistent, unexpected or contrary to established legal principles, this can create a more difficult environment in which JPMorganChase conducts its business and could negatively affect JPMorganChase's operations and reduce its earnings with respect to that jurisdiction. For example, JPMorganChase has faced actual and threatened litigation in Russia with respect to payments that JPMorganChase cannot make under, and is contractually excused from paying as a result of, relevant economic sanctions laws. That litigation has also resulted in the seizure of assets. In addition, conducting business in jurisdictions with less predictable legal and regulatory frameworks could require JPMorganChase to devote significant additional resources to understanding local laws, rules and regulations, as well as structuring its operations to comply with local laws, rules and regulations and implementing and administering related internal policies and procedures.

There can be no assurance that JPMorganChase will always be successful in its efforts to fully understand and to conduct its business in compliance with the laws, rules and regulations of all of the jurisdictions in which it operates, and the risk of non-compliance, or of interference with JPMorganChase's businesses, can be greater in jurisdictions that have less predictable legal and regulatory frameworks.

**JPMorganChase's businesses may be negatively impacted by governmental policies that either discourage or penalize business with certain industries or require specific business practices.**

- the threat of enforcement actions, including under antitrust or other anti-competition laws, rules and regulations, and
- harm to its reputation arising from public criticism, including from politicians, activists and other stakeholders.

JPMorganChase has been prohibited from engaging in certain business activities in specific jurisdictions as a result of these types of governmental actions, and there is no assurance that it will not face similar restrictions on its business and operations in the future.

**Requirements for the orderly resolution of JPMorganChase could result in JPMorganChase having to restructure or reorganize its businesses and could increase its funding or operational costs or curtail its businesses.**

JPMorganChase is required under Federal Reserve and FDIC rules to prepare and submit periodically to those agencies a detailed plan for rapid and orderly resolution in bankruptcy, without extraordinary government support, in the event of material financial distress or failure. The evaluation of JPMorganChase's resolution plan by these agencies may change, and the requirements for resolution plans may be modified from time to time. Any such determinations or modifications could result in JPMorganChase needing to make changes to its legal entity structure or to certain internal or external activities, which could increase its funding or operational costs, or hamper its ability to serve clients and customers.

If the Federal Reserve and the FDIC were both to determine that a resolution plan submitted by JPMorganChase has deficiencies, they could jointly impose more stringent capital, leverage or liquidity requirements or restrictions on JPMorganChase's growth, activities or operations. The agencies could also require that JPMorganChase restructure, reorganize or divest assets or businesses in ways that





If the Parent Company were to enter into a resolution, holders of eligible LTD, other unsecured creditors and holders of equity securities of the Parent Company will absorb the losses of the Parent Company and its subsidiaries.

The preferred "single point of entry" strategy under JPMorganChase's resolution plan contemplates that the Parent Company would enter bankruptcy proceedings and JPMorganChase's material subsidiaries would be recapitalized, as needed, so that they could continue normal operations or subsequently be divested or wound down in an orderly manner. As a result, the Parent Company's losses and any losses incurred by its subsidiaries would be imposed first on holders of the Parent Company's equity securities and thereafter on its unsecured creditors, including holders of eligible LTD. Claims of the Parent Company's shareholders and unsecured creditors would have a junior position to the claims of creditors of JPMorganChase's subsidiaries and to the claims of priority (as determined by statute) and secured creditors of the Parent Company.

Accordingly, in a resolution of the Parent Company in bankruptcy, unsecured creditors of the Parent Company, including holders of eligible LTD of the Parent Company, would realize value only to the extent available to the Parent Company as a shareholder of JPMorgan Chase Bank, N.A. and its other subsidiaries, and only after any claims of priority and secured creditors of the Parent Company have been fully repaid.

The FDIC has similarly indicated that a single point of entry recapitalization model would be its expected strategy to resolve a systemically important financial institution, such as the Parent Company, under Title II. However, the FDIC has not formally adopted or committed to any specific resolution strategy.

If the Parent Company were to approach or enter into a

could significantly affect U.S. and global economic growth and cause higher volatility in the financial markets, including:

- monetary policies and actions taken by the Federal Reserve and other central banks or governmental authorities, including changes in interest rate levels and any sustained large-scale asset purchases or any suspension or reversal of those actions
- fiscal policies, including with respect to taxation and spending
- isolationist foreign policies
- economic or financial sanctions
- the implementation of tariffs and other protectionist trade policies
- changes to immigration policies, or
- actions that the government takes or fails to take in response to the effects of health emergencies, the spread of infectious diseases, epidemics or pandemics.

These types of political developments, and uncertainty about the possible outcomes of these developments, could:

- erode investor or consumer confidence in the U.S. economy and financial markets, which could potentially undermine the status of the U.S. dollar as a safe haven currency
- provoke retaliatory countermeasures by other countries and otherwise heighten tensions in regulatory, enforcement or diplomatic relations
- increase the risk of targeted cyber attacks
- increase concerns about whether the U.S. government will be funded, and its outstanding debt serviced, at any particular time
- result in periodic shutdowns of the U.S. government
- influence investor perceptions concerning government support of certain sectors of the economy or the economy as a whole
- influence monetary policy actions of the Federal Reserve to moderate the economic impact of political developments, including decisions

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- a contraction of available credit and the widening of credit spreads
- U.S. dollar currency fluctuations
- lower investments in a particular country or sector of the economy
- large-scale sales of government debt and other debt and equity securities
- reduced commercial activity among trading partners or disruptions to supply chains, or
- the possible departure of a country from, or the dissolution or formation of, a political or economic alliance or treaty.

Under certain circumstances, such as geopolitically challenging situations in regions like Russia, the Middle East and China, these various risks could become highly correlated or combine in unprecedented ways.

Any of these potential outcomes could cause JPMorganChase to suffer losses on its market-making positions or in its investment portfolio, reduce its liquidity and capital levels, increase the allowance for credit losses or lead to higher net charge-offs, hamper its ability to deliver products and services to its clients and customers, and weaken its results of operations and financial condition or credit rating.

## **Market**

**Economic and market events and conditions can materially affect JPMorganChase's businesses and investment and market-making positions.**

JPMorganChase's results of operations can be negatively affected by adverse changes in any of the following:

- investor, consumer and business sentiment
- events that reduce confidence in the financial markets
- inflation, deflation or recession
- high unemployment or, conversely, a tightening labor market
- the availability and cost of capital, liquidity and credit
- levels and volatility of interest rates, credit spreads and market

All of these are affected by global economic, market and political events and conditions, including monetary policies and actions taken by central banks or other governmental authorities, as well as by the regulatory environment.

In addition, JPMorganChase's investment portfolio and market-making businesses can suffer losses due to unanticipated market events, including:

- severe declines in asset values
- unexpected credit events
- unforeseen events or conditions that may cause previously uncorrelated factors to become correlated (and vice versa)
- the inability to effectively hedge risks related to market-making and investment portfolio positions, or
- other market risks that may not have been appropriately taken into account in the development, structuring or pricing of a financial instrument.

If JPMorganChase experiences significant losses in its investment portfolio or from market-making activities, this could reduce JPMorganChase's profitability and its liquidity and capital levels, and thereby constrain the growth of its businesses.

**JPMorganChase's consumer businesses can be negatively affected by adverse economic conditions and governmental policies.**

JPMorganChase's consumer businesses are particularly affected by U.S. and global economic conditions, including:

- personal and household income distribution
- unemployment or underemployment
- prolonged periods of exceptionally high or low interest rates, or significant changes to interest rates
- changes in the value of collateral such as residential real estate and vehicles
- changes in housing prices





Adverse economic conditions could also lead to an increase in delinquencies, additions to the allowance for credit losses and higher net charge-offs, which can reduce JPMorganChase's earnings. These consequences could be significantly worse in certain geographies, including where declining industrial or manufacturing activity has resulted in or could result in higher levels of unemployment, or where high levels of consumer debt, such as outstanding student loans, could impair the ability of customers to pay their other consumer loan obligations. JPMorganChase's earnings from its consumer businesses could also be adversely affected by governmental policies and actions that affect consumers, including:

- policies and initiatives relating to medical insurance, education, immigration and housing, or that may impact employment status
- laws, rules and regulations relating specifically to the financial services industry, such as limitations on late payment, overdraft and interchange fees, and
- policies aimed at the economy more broadly, such as higher taxes and increased regulation, which could result in reductions in consumer disposable income.

**Unfavorable market and economic conditions can have an adverse effect on JPMorganChase's wholesale businesses.**

In JPMorganChase's wholesale businesses, market and economic factors can affect the volume of transactions that JPMorganChase executes for its clients or for which it advises clients, and, therefore, the revenue that JPMorganChase receives from those transactions. These factors can also influence the willingness of other financial institutions and investors to participate in capital markets transactions that JPMorganChase manages, such as loan syndications or securities underwriting. Furthermore, if a significant and sustained

or other adverse macroeconomic conditions. For example, higher interest rates or a downturn in financial markets could affect the valuation of client assets that JPMorganChase manages or holds under custody, which, in turn, could affect JPMorganChase's revenue from fees that are based on the amount of assets under management or custody. Similarly, adverse macroeconomic or market conditions could prompt outflows from JPMorganChase funds or accounts, or cause clients to invest in products that generate lower revenue. Substantial and unexpected withdrawals from a JPMorganChase fund can also hamper the investment performance of the fund, particularly if the outflows create the need for the fund to dispose of fund assets at disadvantageous times or prices, and could lead to further withdrawals based on the weaker investment performance.

An adverse change in market conditions in particular segments of the economy, such as a sudden and severe downturn in oil and gas prices or an increase in commodity prices, severe declines in commercial real estate values, or sustained changes in consumer behavior that affect specific economic sectors, could have a material adverse effect on clients of JPMorganChase whose operations or financial condition are directly or indirectly dependent on the health or stability of those market segments or economic sectors, as well as clients that are engaged in related businesses. JPMorganChase could incur credit losses on its loans and other commitments to clients that operate in, or are dependent on, any sector of the economy that is or comes under stress.

An economic downturn or sustained changes in consumer behavior that results in shifts in consumer and business spending could also have a negative impact on certain of JPMorganChase's wholesale clients, and thereby diminish JPMorganChase's earnings from its wholesale operations. For example, the businesses of certain of

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and any inadequacy in governance or control over the foreclosed properties could result in regulatory scrutiny and reputational harm.

**Changes in interest rates and credit spreads can adversely affect JPMorganChase's earnings, its liquidity or its capital levels.**

When interest rates are high or increasing, JPMorganChase can generally be expected to earn higher net interest income. However, higher interest rates can also lead to:

- fewer originations of commercial and residential real estate loans
- losses on underwriting exposures or incremental client-specific downgrades, or increases in the allowance for credit losses and net charge-offs due to higher financing costs for clients
- the loss of deposits, particularly if customers withdraw deposits because they believe that interest rates offered by JPMorganChase are lower than those of competitors or if JPMorganChase makes incorrect assumptions about depositor behavior
- losses on available-for-sale ("AFS") securities held in the investment securities portfolio
- lower net interest income if central banks introduce interest rate increases more quickly than anticipated and this results in a misalignment in the pricing of short-term and long-term borrowings
- less liquidity in the financial markets, and
- higher funding costs.

All of these outcomes could adversely affect JPMorganChase's earnings or its liquidity and capital levels, and any negative outcomes could be more severe in a prolonged period of high interest rates. Higher interest rates can also negatively affect the payment performance on loans within JPMorganChase's consumer and wholesale loan portfolios that are linked to variable interest rates. If borrowers of variable rate loans are unable to afford higher interest payments, those borrowers may reduce

- a reduction in the value of JPMorganChase's mortgage servicing rights ("MSRs") asset, resulting in decreased revenues.

When credit spreads widen, it becomes more expensive for JPMorganChase to borrow. JPMorganChase's credit spreads may widen or narrow not only in response to events and circumstances that are specific to JPMorganChase but also as a result of general economic and geopolitical events and conditions. Changes in JPMorganChase's credit spreads will affect, positively or negatively, JPMorganChase's earnings on certain liabilities, such as derivatives, that are recorded at fair value.

**JPMorganChase's results may be materially affected by market fluctuations and significant changes in the valuation of financial instruments.**

The value of securities, derivatives and other financial instruments which JPMorganChase owns or in which it makes markets can be materially affected by market fluctuations. Market volatility, illiquid market conditions and other disruptions in the financial markets may make it extremely difficult to value certain financial instruments. Subsequent valuations of financial instruments in future periods, in light of factors then prevailing, may result in significant changes in the value of these instruments. In addition, at the time of any disposition of these financial instruments, the price that JPMorganChase ultimately realizes will depend on the demand and liquidity in the market at that time and may be materially lower than their current fair value. Any of these factors could cause a decline in the value of financial instruments that JPMorganChase owns or in which it makes markets, which may have an adverse effect on JPMorganChase's results of operations.

JPMorganChase's risk management and monitoring processes, including its stress testing framework, seek to quantify and manage JPMorganChase's exposure to more extreme market moves. However, JPMorganChase's







or liability where a financial institution that it has appointed to provide custodial services for client assets or funds becomes insolvent as a result of fraud or the failure to abide by existing laws and obligations, or where clients are unable to access assets held by JPMorganChase as custodian due to governmental actions or other factors.

A default by, or the financial or operational failure of, a CCP through which JPMorganChase executes contracts would require JPMorganChase to replace those contracts, thereby increasing its operational costs and potentially resulting in losses. In addition, JPMorganChase can be exposed to losses if a member of a CCP in which JPMorganChase is also a member defaults on its obligations to the CCP because of requirements that each member of the CCP absorb a portion of those losses. Furthermore, JPMorganChase can be subject to bearing its share of non-default losses incurred by a CCP, including losses from custodial, settlement or investment activities or due to cyber or other security breaches.

As part of its clearing services activities, JPMorganChase is exposed to the risk of nonperformance by its clients, which it seeks to mitigate by requiring clients to provide adequate collateral. JPMorganChase is also exposed to intra-day credit risk of its clients in connection with providing cash management, clearing, custodial and other transaction services to those clients. If a client for which JPMorganChase provides these services becomes bankrupt or insolvent, JPMorganChase may incur losses, become involved in disputes and litigation with one or more CCPs, the client's bankruptcy estate and other creditors, or be subject to regulatory investigations. All of the foregoing events can increase JPMorganChase's operational and litigation costs, and JPMorganChase may suffer losses to the extent that any collateral that it has received is insufficient to cover those losses.

Disputes may arise with counterparties to derivatives contracts with regard to the terms, the settlement procedures or the value of underlying collateral. The disposition of those disputes could cause JPMorganChase to incur unexpected transaction, operational and legal costs, or result in credit losses. These consequences can also impair JPMorganChase's ability to effectively manage its credit risk exposure from its market activities, or cause harm to JPMorganChase's reputation.

The financial or operational failure of a significant market participant, such as a major financial institution or a CCP, or concerns about the creditworthiness of such a market participant or its ability to fulfill its obligations, can cause substantial and cascading disruption within the financial markets, including in circumstances where coordinated action by multiple other market participants is required to address the failure or disruption. JPMorganChase's businesses could be significantly disrupted by such an event, particularly if it leads to other market participants incurring significant losses, experiencing liquidity issues or defaulting, and JPMorganChase is likely to have significant interrelationships with, and credit exposure to, such a significant market participant.

**JPMorganChase may suffer losses if the value of collateral declines in stressed market conditions.**

During periods of market stress or illiquidity, JPMorganChase's credit risk may be further increased when:

- JPMorganChase fails to realize the estimated value of the collateral it holds
- collateral is liquidated at prices that are not sufficient to recover the full amount owed to it, or
- counterparties are unable to post collateral, whether for operational or other reasons.

Furthermore, disputes with counterparties concerning the valuation of collateral may increase

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- have business profiles, models or strategies that could cause their ability to meet their obligations to be similarly affected by changes in economic conditions.

For example, a significant deterioration in the credit quality of a counterparty, borrower or other obligor could lead to concerns about the creditworthiness of other counterparties, borrowers or obligors in similar, related or dependent industries. This type of interrelationship could exacerbate JPMorganChase's credit, liquidity and market risk exposure and potentially cause it to incur losses, including fair value losses in its market-making businesses and investment portfolios. In addition, JPMorganChase may be required to increase the allowance for credit losses or establish other reserves with respect to certain clients, industries or country exposures in order to align with directives or expectations of its banking regulators.

Similarly, challenging economic conditions that affect a particular industry or geographic area could lead to concerns about the credit quality of counterparties, borrowers or other obligors not only in that particular industry or geography but in related or dependent industries, wherever located. These conditions could also heighten concerns about the ability of customers of JPMorganChase's consumer businesses who live in those areas or work in those affected industries or related or dependent industries to meet their obligations to JPMorganChase.

JPMorganChase regularly monitors various segments of its credit and market risk exposures to assess the potential risks of concentration or contagion, but its ability to diversify or hedge its exposure against those risks may be limited.

JPMorganChase's consumer businesses can also be harmed by an excessive expansion of consumer credit by bank or non-bank competitors. Heightened competition for certain types of consumer loans could prompt industry-

balance sheet. These factors could adversely affect JPMorganChase's capital position, funding costs and the profitability of its businesses.

### **Liquidity**

**JPMorganChase's ability to operate its businesses could be impaired if its liquidity is constrained.**

JPMorganChase's liquidity can be impacted at any given time as a result of factors such as:

- market-wide illiquidity or disruption
- changes in liquidity or capital requirements resulting from changes in laws, rules and regulations, including those in response to economic effects of systemic events
- actions taken by the U.S. government or by the Federal Reserve to reduce its balance sheet, which may reduce deposits held by JPMorganChase and other financial institutions
- inability to sell assets, or to sell assets at favorable times or prices
- default by a CCP or other significant market participant
- unanticipated outflows of cash or collateral
- unexpected loss of deposits or higher than anticipated draws on lending-related commitments, and
- lack of market or customer confidence in JPMorganChase or financial institutions in general.

A reduction in JPMorganChase's liquidity may be caused by events over which it has little or no control. For example, periods of market stress, low investor confidence and significant market illiquidity could result in higher funding costs for JPMorganChase and could limit its access to some of its traditional sources of liquidity.

JPMorganChase may need to raise funding from alternative sources if its access to stable and lower-cost sources of funding, such as deposits and borrowings from Federal Home Loan Banks, is reduced. Alternative sources of funding could be more expensive or limited in availability. JPMorganChase's funding costs could







**JPMorgan Chase & Co. is a holding company and depends on the cash flows of its subsidiaries to make payments on its outstanding securities.**

JPMorgan Chase & Co. is a holding company that holds the stock of JPMorgan Chase Bank, N.A. and an intermediate holding company, JPMorgan Chase Holdings LLC (the "IHC"). The IHC in turn generally holds the stock of JPMorganChase's subsidiaries other than JPMorgan Chase Bank, N.A. and its subsidiaries. The IHC also owns other assets and provides intercompany lending to the Parent Company.

The Parent Company is obligated to contribute to the IHC substantially all the net proceeds received from securities issuances (including issuances of senior and subordinated debt securities and of preferred and common stock).

The ability of JPMorgan Chase Bank, N.A. and the IHC to make payments to the Parent Company is also limited. JPMorgan Chase Bank, N.A. is subject to regulatory restrictions on its dividend distributions, as well as capital adequacy requirements, such as the Supplementary Leverage Ratio ("SLR"), and liquidity requirements and other regulatory restrictions on its ability to make payments to the Parent Company. The IHC is prohibited from paying dividends or extending credit to the Parent Company if certain capital or liquidity thresholds are breached, or if limits are otherwise imposed by the Parent Company's management or Board of Directors.

As a result of these arrangements, the ability of the Parent Company to make various payments is dependent on its receiving dividends from JPMorgan Chase Bank, N.A. and dividends and borrowings from the IHC. These limitations could affect the Parent Company's ability to:

- pay interest on its debt securities
- pay dividends on its equity securities
- redeem or repurchase outstanding securities, and
- fulfill its other payment

- risk management practices
- legal expenses
- ratings differentials between bank holding companies and their bank and non-bank subsidiaries
- regulatory developments
- assumptions about government support, and
- economic and geopolitical developments.

JPMorganChase closely monitors and manages, to the extent that it is able, factors that could influence its credit ratings. However, there is no assurance that JPMorganChase's credit ratings will not be downgraded in the future. Furthermore, any such downgrade could occur at times of broader market instability when JPMorganChase's options for responding to events may be more limited and general investor confidence is low.

A reduction in JPMorganChase's credit ratings could curtail JPMorganChase's business activities and reduce its profitability in a number of ways, including:

- reducing its access to capital markets
- materially increasing its cost of issuing and servicing securities
- triggering additional collateral or funding requirements, and
- decreasing the number of investors and counterparties that are willing or permitted to do business with or lend to JPMorganChase.

Any rating reduction could also increase the credit spreads charged by the market for taking credit risk on JPMorgan Chase & Co. and its subsidiaries. This could, in turn, adversely affect the value of debt and other obligations of JPMorgan Chase & Co. and its subsidiaries.

### **Capital**

**Maintaining the required level and composition of capital may impact JPMorganChase's ability to support business activities, meet evolving regulatory requirements and distribute capital to shareholders.**



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- changes in the composition of JPMorganChase's balance sheet or developments that could increase RWA, such as increased market risk, customer delinquencies, client credit rating downgrades or other factors, and
- increases in estimated stress losses as determined by the Federal Reserve under the Comprehensive Capital Analysis and Review, which could increase JPMorganChase's SCB.

Any failure by or inability of JPMorganChase to maintain the required level and composition of capital, or unfavorable changes in applicable capital requirements, could have an adverse impact on JPMorganChase's shareholders, such as:

- reducing the amount of common stock that JPMorganChase is permitted to repurchase
- requiring the issuance of, or prohibiting the redemption of, capital instruments in a manner inconsistent with JPMorganChase's capital management strategy
- constraining the amount of dividends that may be paid on common stock, or
- curtailing JPMorganChase's business activities or operations.

In 2023, U.S. banking regulators released a proposal to implement the final Basel III reforms which would have significantly revised the risk-based capital requirements for banks with assets of \$100 billion or more, including JPMorganChase. In addition, in 2023 the Federal Reserve released a proposal to amend the calculation of the GSIB surcharge. Uncertainty remains regarding the content of the final versions of these rule proposals and how they might ultimately apply to JPMorganChase. However, it is possible that the final rules could impact JPMorganChase's decisions concerning the business activities in which it will engage and its levels of capital distributions to its shareholders.

## Operational

**JPMorganChase's businesses are**

functionality or reliability of a particular system and other systems to which it transmits or from which it receives information, and

- JPMorganChase's ability to continue to maintain and upgrade its systems on a regular and timely basis in line with technological advancements and evolving security requirements, maintain security and operational continuity of its systems, including by carefully managing any changes introduced to its systems, prevent unauthorized access and the misuse of access to its systems, and adhere to all applicable legal and regulatory requirements, particularly in regions where JPMorganChase may face a heightened risk of malicious activity.

JPMorganChase has experienced and expects that it will continue to experience failures and disruptions in the stability of its operational systems, including degraded performance of data processing systems, data quality issues, disruptions of network connectivity and malfunctioning software, as well as disruptions in its ability to access and use the operational systems of third parties and interruptions in service from third-party service providers. These incidents have resulted in various negative effects for customers, including the inability to access account information or transact through ATM, internet or mobile channels, the exfiltration of customer personal data, the recording of duplicative transactions and extended delays for customers requiring services from call centers. There can be no assurance that these and other types of operational failures or disruptions will not occur in the future.

JPMorganChase's ability to effectively manage the stability of its operational systems and infrastructure could be hindered by many factors, any of which could have a negative impact on JPMorganChase and its clients, customers and counterparties, including:





- disruptions in operational systems or in the ability of systems to communicate with each other could be caused by failures in synchronization or encryption software, or degraded performance of microprocessors, and
- attempts by third parties to block the use of key technology solutions by claiming that the use infringes on their intellectual property rights.

JPMorganChase also depends on its ability to access and use the operational systems of third parties, including its custodians, vendors (such as those that provide data and cloud computing services, and security and technology services) and other market participants (such as clearing and payment systems, CCPs and securities exchanges). These external operational systems with which JPMorgan is connected, whether directly or indirectly, can be sources of operational risk to JPMorganChase. JPMorganChase may be exposed not only to a systems failure or cyber attack that may be experienced by a vendor or market infrastructure with which JPMorganChase is directly connected, but also to a systems breakdown or cyber attack involving another party to which such a vendor or infrastructure is connected. Similarly, retailers, payment systems and processors, data aggregators and other external parties with which JPMorganChase's customers do business can increase JPMorganChase's operational risk. This is particularly the case where activities of customers or other parties are beyond JPMorganChase's security and control systems, including through the use of the internet, cloud computing services, and personal smart phones and other mobile devices or services.

If an external party obtains access to customer account data on JPMorganChase's systems, whether authorized or unauthorized, and that party misappropriates that data, this could result in negative outcomes for JPMorganChase and its clients and

operational costs and potentially diminish customer satisfaction and confidence in JPMorganChase.

Furthermore, the widespread and expanding interconnectivity among financial institutions, clearing banks, CCPs, payments processors, financial technology companies, securities exchanges, clearing houses and other financial market infrastructures increases the risk that the disruption of an operational system involving one institution or entity, including due to a cyber attack, may cause industry-wide operational disruptions that could materially affect JPMorganChase's ability to conduct business. In addition, the risks associated with the disruption of an operational system of a third party could be exacerbated to the extent that the services provided by that system are used by a significant number or proportion of market participants.

The ineffectiveness, failure or other disruption of operational systems upon which JPMorganChase depends, including due to a systems malfunction, cyber incident or other systems failure, could result in unfavorable ripple effects in the financial markets and for JPMorganChase and its clients and customers, including:

- delays or other disruptions in providing services, including the provision of liquidity or information to clients and customers
- impairment of JPMorganChase's ability to execute transactions, including delays or failures in the confirmation or settlement of transactions or in obtaining access to funds or other assets required for settlement
- the possibility that funds transfers, capital markets trades or other transactions are executed erroneously
- financial losses, including due to loss-sharing requirements of CCPs, payment systems or other market infrastructures, or as possible restitution to clients and





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JPMorganChase's businesses depend, are unable to meet the requirements of JPMorganChase's businesses and operations or bank regulatory standards, or if they fail or have other significant shortcomings, JPMorganChase could be materially and adversely affected.

**A successful cyber attack affecting JPMorganChase could cause significant harm to JPMorganChase and its clients and customers.**

JPMorganChase experiences numerous cyber attacks on its computer systems, software, networks and other technology assets on a daily basis from various actors, including groups acting on behalf of hostile countries, cyber-criminals, "hacktivists" (i.e., individuals or groups that use technology to promote a political agenda or social change) and others. These cyber attacks can take many forms, including attempts to introduce computer viruses or malicious code, which are commonly referred to as "malware," into JPMorganChase's systems. These attacks are often designed to:

- obtain unauthorized access to JPMorganChase's systems or to confidential information belonging to JPMorganChase or its clients, customers, counterparties or employees
- manipulate data
- destroy data or systems with the aim of rendering services unavailable
- disrupt, sabotage or degrade service on JPMorganChase's systems
- steal money, or
- extort money through the use of so-called "ransomware."

JPMorganChase also experiences:

- distributed denial-of-service attacks intended to disrupt JPMorganChase's websites, including those that provide online banking and other services,
- a higher volume and complexity of cyber attacks against the backdrop of heightened geopolitical tensions, and
- a high volume of disruptions to

implement effective preventive measures against all breaches due to evolving risks, including:

- the techniques used in cyber attacks evolve frequently and increase in sophistication, and therefore may not be recognized until launched or may go undetected for extended periods
- cyber attacks can originate from a wide variety of sources, including JPMorganChase's own employees, cyber-criminals, hacktivists, groups linked to terrorist organizations or hostile nation-states that can sustain malicious activities for extended periods, or third parties whose objective is to disrupt the operations of financial institutions more generally
- JPMorganChase does not have control over the cybersecurity of the systems of the large number of clients, customers, counterparties and third-party service providers with which it does business, and
- it is possible that a third party, after establishing a foothold on an internal network without being detected, may gain access to other networks and systems.

The risk of a security breach due to a cyber attack could increase in the future due to factors such as:

- JPMorganChase's ongoing expansion of its digital banking and other internet-based product offerings and its internal use of internet-based products and applications, including those that use cloud computing services
- advances in artificial intelligence, such as the use of machine learning, generative artificial intelligence and quantum computing by malicious actors to develop more advanced social engineering attacks, including targeted phishing attacks
- the inability to maintain the security of information transmitted by JPMorganChase due to advances in quantum computing that may counteract or nullify existing information protections, and





reputational damage and regulatory penalties, including the failure to prioritize or complete enhancements relating to:

- preventing unauthorized access and protecting against the misuse of access, including the maintenance and enhancement of controls related to secure software development practices and identity and access management, such as those relating to the management of administrative access to systems
- detecting, escalating and addressing effectively and in a timely manner any vulnerabilities that may be present either in internally-developed software or externally-provided software or services, including vulnerabilities that could allow attackers to exploit unknown security flaws in software and hardware ("zero-day vulnerabilities")
- oversight of third-party vendors and early detection of attacks against those vendors, including ransomware attacks and attacks targeting vulnerabilities in third-party open-source software, in support of the secure development and maintenance of internal systems
- maintaining and enhancing controls related to technology asset management and inventory systems to prevent the risk of undetected vulnerabilities that could undermine JPMorganChase's ability to operate an effective control process
- upgrading the coverage and capabilities of systems and controls to protect JPMorganChase and its clients and customers from the impact of distributed denial-of-service attacks, or to recover from outages that could be caused by a malware or ransomware attack
- the continuing migration of client-facing services to the cloud, and modernization of those services
- strengthening network security and managing outbound connections to reduce the risk of data loss
- identifying, assessing and mitigating insider threat

counterparties, including losing access to operational systems

- misappropriation of confidential information of JPMorganChase or that of its clients, customers, counterparties, employees or regulators
- disruption of or damage to JPMorganChase's systems and those of its clients, customers and counterparties
- the inability, or extended delays in the ability, to fully recover and restore data that has been stolen, manipulated or destroyed, or the inability to prevent systems from processing fraudulent transactions
- demands that JPMorganChase pay a ransom to a malicious actor that has perpetrated a cybersecurity breach
- unintended violations by JPMorganChase of applicable privacy and other laws
- financial loss to JPMorganChase or to its clients, customers, counterparties or employees
- losses to JPMorganChase in excess of cyber insurance policy coverage
- loss of confidence in JPMorganChase's cybersecurity and business resiliency measures
- dissatisfaction among JPMorganChase's clients, customers or counterparties
- significant exposure to litigation and regulatory fines, penalties or other sanctions, and
- harm to JPMorganChase's reputation.

The extent of a particular cyber attack, the methods and tools used by various actors, and the steps that JPMorganChase may need to take to investigate the attack may not be immediately clear, and it may take a significant amount of time before such an investigation can be completed. While such an investigation is ongoing, JPMorganChase may not necessarily know the full extent of the harm caused by the cyber attack, and that damage may continue to spread. These factors may inhibit JPMorganChase's



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distribution of products or services (including mobile connectivity, electronic trading and cloud computing), acquires or invests in a business, makes changes to an existing product, service or delivery platform, or adopts a new technology, it may not fully appreciate or identify new operational risks that may arise from those changes, including increased reliance on third party providers, or may fail to implement adequate controls to mitigate the risks associated with those changes. Any significant failure in this regard could diminish JPMorganChase's ability to operate one or more of its businesses or result in:

- potential liability to clients, counterparties and customers
- higher compliance, operational or integration costs
- higher litigation costs, including regulatory fines, penalties and other sanctions
- damage to JPMorganChase's reputation
- impairment of JPMorganChase's liquidity
- regulatory intervention, or
- weaker competitive standing.

Any of the foregoing consequences could materially and adversely affect JPMorganChase's businesses and results of operations.

**JPMorganChase's business and operations rely on its ability, and the ability of key external parties, to maintain appropriately-staffed workforces, and on the competence, trustworthiness, health and safety of employees.**

JPMorganChase's ability to operate its businesses efficiently and profitably, to offer products and services that meet the expectations of its clients and customers, and to maintain an effective risk management framework is highly dependent on its ability to staff its operations appropriately and on the competence, trustworthiness, health and safety of its employees. JPMorganChase's businesses and operations similarly rely on the workforces of third

emergencies, the spread of infectious diseases, epidemics or pandemics, or due to extraordinary events beyond JPMorganChase's control such as natural disasters or an outbreak or escalation of hostilities

- a significant operational breakdown or failure, theft, fraud or other unlawful conduct, or
- other negative outcomes caused by human error or misconduct by an employee of JPMorganChase or of another party on which JPMorganChase's businesses or operations rely.

JPMorganChase's operations could also be impaired if the measures taken by it or by governmental authorities to protect the health and safety of its employees are ineffective, or if any external party on which JPMorganChase relies fails to take appropriate and effective actions to protect the health and safety of its employees.

**JPMorganChase faces substantial legal and operational risks in the processing and safeguarding of personal information.**

JPMorganChase's businesses and operations are subject to complex and evolving laws, rules and regulations, both within and outside the U.S., governing the privacy and protection of personal information of individuals. Governmental authorities around the world have adopted and are considering the adoption of numerous legislative and regulatory initiatives concerning privacy, data protection and security. Litigation or enforcement actions relating to these laws, rules and regulations could result in fines or orders requiring that JPMorganChase change its data-related practices, which could have an adverse effect on JPMorganChase's ability to provide products and otherwise harm its business operations.

Implementing processes relating to JPMorganChase's collection, use, sharing and storage of personal information to comply with all applicable laws, rules and regulations in all relevant







information exchanged between them and JPMorganChase, particularly where information is transmitted by electronic means. JPMorganChase could be exposed to litigation or regulatory fines, penalties or other sanctions if personal information of clients, customers, employees or others were to be mishandled or misused, such as situations where such information is:

- erroneously provided to parties who are not permitted to have the information, or
- intercepted or otherwise compromised by unauthorized third parties.

The increasing sophistication of artificial intelligence technologies poses a greater risk of identity fraud, as malicious actors may exploit artificial intelligence to create convincing false identities or manipulate verification processes. This challenge necessitates ongoing enhancements to client verification systems and security protocols to prevent unauthorized access and protect sensitive client information. Failure to manage these risks or to implement effective countermeasures could lead to unauthorized transactions, financial losses, reputational damage and increased regulatory scrutiny.

Concerns regarding the effectiveness of JPMorganChase's measures to safeguard personal information, or the perception that those measures are inadequate, could cause JPMorganChase to lose existing or potential clients and customers or employees, and thereby reduce JPMorganChase's revenues. Furthermore, any failure or perceived failure by JPMorganChase to comply with applicable privacy or data protection laws, rules and regulations, or any failure to appropriately calibrate, manage and monitor access by employees or third parties to personal information, could subject JPMorganChase to inquiries, examinations and investigations that could result in requirements to modify or cease certain operations or practices, significant liabilities or regulatory

increase compliance costs and operational risk, or restrict JPMorganChase's use of personal information when developing or offering products or services to customers. Some countries are considering or have adopted legislation implementing data protection requirements or requiring local storage and processing of data which could increase the cost and complexity of JPMorganChase's delivery of products and services. These restrictions could also inhibit JPMorganChase's development or marketing of certain products or services, or increase the costs of offering them to customers.

**JPMorganChase's operations, results and reputation could be harmed by occurrences of extraordinary events beyond its control.**

JPMorganChase's business and operational systems could be seriously disrupted, and its reputation could be harmed, by events or contributing factors that are wholly or partially beyond its control, including material instances of:

- cyber attacks
- security breaches of its physical premises, including threats to health and safety
- power, telecommunications or internet outages, or shutdowns of mass transit
- failure of, or loss of access to, technology or operational systems, including any resulting loss of critical data
- interruption of service from third-party service providers
- damage to or loss of property or assets of JPMorganChase or third parties, and any consequent injuries, including in connection with any construction projects undertaken by JPMorganChase
- effects of climate change
- natural disasters or severe weather conditions
- accidents such as explosions or structural failures



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strives for resiliency or recovery in a range of scenarios in the event of a disruption, including due to the occurrence of an extraordinary event beyond its control. There can be no assurance that JPMorganChase's Firmwide resiliency framework will fully mitigate all potential resiliency risks to JPMorganChase, its clients, and customers and third parties with which it does business, or that its resiliency framework will be adequate to address the effects of simultaneous occurrences of multiple or extended disruption events. In addition, JPMorganChase's ability to respond effectively to a disruption event could be hampered to the extent that the members of its workforce, physical assets, systems and other support infrastructure, or those of its third-party service providers, that are needed to address the event are geographically dispersed, or conversely, if such an event were to occur in an area in which they are concentrated. Further, should extraordinary events or the factors that cause or contribute to those events become more chronic, the disruptive effects of those events on JPMorganChase's business and operations, and on its clients, customers, counterparties and employees, could become more significant and long-lasting.

Any significant failure or disruption of JPMorganChase's operations or operational systems, or the occurrence of one or more extraordinary events that are beyond its control, could:

- hinder JPMorganChase's ability to provide services to its clients and customers or to transact with its counterparties
- require it to expend significant resources to correct the failure or disruption or to address the event
- cause it to incur losses or liabilities, including from loss of revenue, damage to or loss of property, or injuries
- disrupt market infrastructure systems on which JPMorganChase's businesses rely

**Data quality is essential to JPMorganChase's business and operations, and if JPMorganChase fails to maintain adequate data management processes, this could adversely affect its ability to effectively manage its businesses, comply with applicable laws, rules and regulations, or remain competitive.**

JPMorganChase relies on accurate, timely and complete data to effectively operate its systems and processes, including:

- assessing risk exposures and limits
- monitoring and detecting fraudulent transactions and cyber threats
- developing or maintaining models and other analytical and judgment-based estimations, including those that use machine learning or artificial intelligence
- implementing and maintaining compliance programs, and
- preparing financial statements, disclosures and regulatory reports, as well as internal reporting

Any deficiencies in JPMorganChase's data management processes, including with respect to the accuracy or completeness of data, the timeliness of data collection, the analysis or validation of data, or the safeguarding of data could undermine the reliability and effectiveness of its operations, including:

- risk management practices, including inaccurate or untimely risk reporting
- delivery of regulatory reporting or internal or external financial reporting
- compliance practices, such as those relating to transaction monitoring, customer screening, blocking and rejecting transactions, recordkeeping or reporting
- business activities, such as those related to managing JPMorganChase's market-making positions and liquidity and capital levels, including reliance on timely data for informed decision-making
- providing services to clients and







business with vendors and other service providers, including standards relating to the outsourcing of functions as well as the performance of significant banking and other functions by subsidiaries. JPMorganChase incurs significant costs and expenses in connection with its initiatives to address the risks associated with oversight of its internal and external service providers. JPMorganChase's failure to appropriately assess and manage these relationships, especially those involving significant banking functions, shared services or other critical activities, could materially adversely affect JPMorganChase. Specifically, any such failure could result in:

- potential harm to clients and customers, and any liability associated with that harm
- regulatory fines, penalties or other sanctions
- lower revenues, and the opportunity cost from lost revenues
- increased operational costs, or
- harm to JPMorganChase's reputation.

**JPMorganChase's risk management framework and control environment will not be effective in identifying and mitigating every risk to JPMorganChase.**

Any inadequacy or lapse in JPMorganChase's risk management framework, governance structure, practices, models or reporting systems, or in its control environment, could expose it to unexpected losses, and its financial condition or results of operations could be materially and adversely affected. Any such inadequacy or lapse could:

- hinder the timely escalation of material risk issues to JPMorganChase's senior management and Board of Directors
- lead to business decisions that have negative outcomes for JPMorganChase
- require significant resources and time to remediate
- lead to non-compliance with laws, rules and regulations

correlations among prices of various asset classes or other market indicators. In times of market stress, including difficult or less liquid market environments, or in the event of other unforeseen circumstances, previously uncorrelated indicators may become correlated. Conversely, previously-correlated indicators may become uncorrelated at those times. Sudden market movements and unanticipated market or economic events could, in some circumstances, limit the effectiveness of JPMorganChase's risk management strategies, causing it to incur losses.

**JPMorganChase could recognize unexpected losses, its capital levels could be reduced and it could face greater regulatory scrutiny if its models, estimations or judgments, including those used in its financial statements, are inadequate or incorrect.**

JPMorganChase has developed and uses a variety of models and other analytical and judgment-based estimations to measure, monitor and implement controls over its market, credit, capital, liquidity, operational and other risks. JPMorganChase also uses internal models and estimations as a basis for its stress testing and in connection with the preparation of its financial statements under U.S. generally accepted accounting principles ("U.S. GAAP").

These models and estimations are based on a variety of assumptions and historical trends, and are periodically reviewed and modified as necessary. The models and estimations that JPMorganChase uses, including those that use machine learning or artificial intelligence, may not be effective in all cases to identify, observe and mitigate risk due to a variety of factors, such as:

- reliance on historical trends that may not persist in the future, including assumptions underlying the models and estimations such as correlations among certain market indicators or asset prices



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- models may inadvertently incorporate biases present in data used in the models.

JPMorganChase may experience unexpected losses if models, estimates or judgments used or applied in connection with its risk management activities or the preparation of its financial statements are inadequate or incorrect. For example, where quoted market prices are not available for certain financial instruments that require a determination of their fair value, JPMorganChase may make fair value determinations based on internally developed models or other means which ultimately rely to some degree on management estimates and judgment. In addition, JPMorganChase may experience increased uncertainty in its estimates if assets acquired differ from those used to develop those models, which may lead to unexpected losses.

Similarly, JPMorganChase establishes an allowance for expected credit losses related to its credit exposures which requires significant judgments, including forecasts of how macroeconomic conditions might impair the ability of JPMorganChase's clients and customers to repay their loans or other obligations. These types of estimates and judgments may not prove to be accurate due to a variety of factors, including when the current and forecasted environments are significantly different from the historical environments upon which the models were developed. The increased uncertainty may necessitate a greater degree of judgment and analytics to inform any adjustments that JPMorganChase may make to model outputs than would otherwise be the case.

Some of the models and other analytical and judgment-based estimations used by JPMorganChase in managing risks are subject to review by, and require the approval of, JPMorganChase's regulators. These reviews are required before JPMorganChase may use those models and estimations for calculating

deficiency could result in inaccurate financial reporting which, in turn, could:

- materially and adversely affect JPMorganChase's business and results of operations or financial condition
- restrict its ability to access the capital markets
- require it to expend significant resources to correct the lapse, weakness or deficiency
- expose it to litigation or regulatory fines, penalties or other sanctions
- harm its reputation, or
- otherwise diminish investor confidence in JPMorganChase.

### Strategic

**JPMorganChase's results or competitive standing could suffer if its management fails to develop and execute effective business strategies, and to anticipate changes affecting those strategies.**

The development and execution of effective business strategies by JPMorganChase's management, along with the ability to anticipate and respond to shifts in the competitive environment, are critical to JPMorganChase's competitive standing and to achieving its strategic objectives. These strategies relate to:

- the products and services that JPMorganChase offers
- the geographies in which it operates
- the types of clients and customers that it serves
- the businesses that it acquires or in which it invests
- the counterparties with which it does business
- the technologies that it adopts or in which it invests, which may include new and currently unproven technologies, and
- the methods, distribution channels and third party service providers by or through which it offers products and services.

If management makes choices about





JPMorganChase's ability to develop and enhance its resources, control expenses and return capital to shareholders. Each of these objectives could be adversely affected by any failure on the part of management to:

- devise effective business plans and strategies
- offer products and services that meet changing expectations of clients and customers
- allocate capital in a manner that promotes long-term stability to enable JPMorganChase to build and invest in market-leading businesses, even in a highly stressed environment
- allocate capital appropriately due to imprecise modeling or subjective judgments made in connection with those allocations
- appropriately assess and monitor principal investments made to enhance or accelerate JPMorganChase's business strategies
- conduct appropriate due diligence on prospective business acquisitions or investments, or effectively integrate newly-acquired businesses
- appropriately address concerns of clients, customers, investors, employees and other stakeholders, including with respect to climate and other ESG matters
- react quickly to changes in market conditions or market structures, or
- develop and enhance the operational, technology, risk, financial and managerial resources and capabilities necessary to grow and manage JPMorganChase's businesses.

Furthermore, JPMorganChase may incur costs in connection with disposing of excess properties, premises and facilities, and those costs could be material to its results of operations.

**JPMorganChase faces significant and increasing competition in the rapidly evolving financial services industry.**

JPMorganChase operates in a highly competitive environment in which it must evolve and adapt to changes in

JPMorganChase cannot provide assurance that the significant competition in the financial services industry will not materially and adversely affect its future results of operations. For example, aggressive or less disciplined lending practices by non-bank competitors could lead to a loss of market share for traditional banks, and in an economic downturn could result in instability in the financial services industry and adversely impact other market participants, including JPMorganChase.

New competitors in the financial services industry continue to emerge. For example, technological advances and the growth of e-commerce have made it possible for non-depository institutions to offer products and services that traditionally were banking products. These advances have also allowed financial institutions and other companies to provide electronic and internet-based financial solutions, including electronic securities and cryptocurrency trading, lending and other extensions of credit to consumers, payments processing and online automated algorithmic-based investment advice. Furthermore, both financial institutions and their non-banking competitors face the risk that payments processing and other products and services, including deposits and other traditional banking products, could be significantly disrupted by the use of new technologies, such as cryptocurrencies and other applications using secure distributed ledgers, that may not require intermediation. New technologies have required and could require JPMorganChase to spend more to modify or adapt its products to attract and retain clients and customers or to match products and services offered by its competitors, including technology companies. In addition, new technologies may be used by customers, or breached or infiltrated by third parties, in unexpected ways, which can increase JPMorganChase's costs for complying with laws, rules

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JPMorganChase's revenues. Increased competition also may require JPMorganChase to make additional capital investments in its businesses, or to extend more of its capital on behalf of its clients to remain competitive.

**The effects of climate change could adversely affect JPMorganChase's business and operations, both directly and as a result of impacts on its clients and customers.**

JPMorganChase operates in many regions, countries and communities around the world where its business, and the activities of its clients and customers, could be adversely affected by climate change. Climate change could manifest as a financial risk to JPMorganChase either through changes in the physical climate or from the process of transitioning to a lower-carbon economy. Both physical risks and transition risks associated with climate change could have negative impacts on the financial condition or creditworthiness of JPMorganChase's clients and customers, on JPMorganChase's exposure to affected companies and markets, and on the effectiveness of JPMorganChase's existing business strategy with respect to its operations, clients and customers.

Physical risks include the increased frequency or severity of acute weather events, such as floods, wildfires and tropical cyclones, and chronic shifts in the climate, such as rising sea levels, persistent changes in precipitation levels, or increases in average ambient temperatures. Potential adverse impacts of climate-related physical risks to JPMorganChase, its clients or customers include:

- declines in asset values, including due to the destruction or degradation of property
- reduced availability or increased cost of insurance for clients of JPMorganChase
- interruptions to business operations, including supply chain disruption, and
- population migration or unemployment

- increased energy costs driven by governmental actions and initiatives such as emission pricing and accelerated decarbonization policies
- negative consequences to business models, and the need to make changes in response to those consequences, and
- damage to JPMorganChase's reputation, including due to any perception that its business practices are contrary to public policy or the preferences of different stakeholders.

Climate risks can also arise from inconsistencies and conflicts in the manner in which climate policy and financial regulations are implemented in the many regions where JPMorganChase operates, including initiatives to apply and enforce policy and regulation with extraterritorial effect. Additionally, internal models and estimations used in climate risk assessments have an increased level of uncertainty due to limited historical trend information and the absence of standardized, reliable and comprehensive greenhouse gas emissions data, which could lead to inaccurate disclosures or financial reporting.

## **Conduct**

**Conduct failure by JPMorganChase employees can harm clients and customers, impact market integrity, damage JPMorganChase's reputation and trigger litigation and regulatory action.**

JPMorganChase's employees interact with clients, customers, counterparties and other market and industry participants, and with each other, every day. All employees are expected to demonstrate values and exhibit the behaviors that are an integral part of JPMorganChase's Code of Conduct and Business Principles. JPMorganChase endeavors to embed conduct risk management throughout an employee's life cycle, including recruiting, onboarding, training and development, and performance management. Conduct risk management





one or more employees to conduct themselves in accordance with JPMorganChase's expectations, policies and practices, including by acting in ways that harm clients, customers, other market participants, employees or others. Some examples of this include:

- improperly selling and marketing JPMorganChase's products or services
- engaging in insider trading, market manipulation or unauthorized trading
- engaging in improper or fraudulent behavior in connection with government relief programs
- facilitating a transaction where a material objective is to achieve a particular tax, accounting or financial disclosure treatment that may be subject to scrutiny by governmental or regulatory authorities, or where the proposed treatment is unclear or may not reflect the economic substance of the transaction
- failing to fulfill fiduciary obligations or other duties owed to clients or customers
- violating antitrust or anti-competition laws by colluding with other market participants
- using electronic communications channels that have not been approved by JPMorganChase
- engaging in discriminatory behavior or harassment with respect to clients, customers or employees, or acting contrary to JPMorganChase's goal of fostering an inclusive workplace
- managing or reporting risks in ways that subordinate JPMorganChase's risk appetite to business performance goals or employee compensation objectives, and
- misappropriating property, confidential or proprietary information, or technology assets belonging to JPMorganChase, its clients and customers or third parties.

The consequences of any failure by one or more employees to conduct

The foregoing risks could be heightened with respect to newly-acquired businesses if JPMorganChase fails to successfully integrate employees of those businesses or any of those employees do not conduct themselves in accordance with JPMorganChase's expectations, policies and practices.

## **Reputation**

### **Damage to JPMorganChase's reputation could harm its businesses.**

Maintaining trust in JPMorganChase is critical to its ability to attract and retain clients, customers, investors and employees. Damage to JPMorganChase's reputation can therefore cause significant harm to JPMorganChase's business and prospects, and can arise from numerous sources, including:

- employee misconduct, including discriminatory behavior or harassment with respect to clients, customers or employees, or actions that are contrary to JPMorganChase's goal of fostering an inclusive workplace
- security breaches, including as a result of cyber attacks
- failure to safeguard client, customer or employee information
- failure to manage risks associated with its client relationships, or with transactions or business activities in which JPMorganChase or its clients engage, including transactions or activities that may be unpopular among one or more constituencies
- rapid and broad dissemination of misinformation and disinformation across the media landscape, including social networking sites
- incorrect, biased or misleading results or content generated by artificial intelligence, leading to harmful outcomes, including discrimination in lending practices against vulnerable populations, fraud, manipulation of customers, privacy breaches or intellectual property infringement
- deficiencies or perceived failures in managing ESG-related

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**Part I**

customers, counterparties or other parties, including newly-acquired businesses, companies in which JPMorganChase has made principal investments, parties to joint ventures with JPMorganChase, and vendors with which JPMorganChase does business.

Social and environmental activists have been targeting JPMorganChase and other financial services firms with public criticism concerning their business practices, including business relationships with clients that are engaged in certain sensitive industries, such as companies:

- whose products are or are perceived to be harmful to human health, or
- whose activities negatively affect or are perceived to negatively affect the environment, workers' rights or communities.

Activists have also taken actions intended to change or influence JPMorganChase's business practices with respect to ESG matters, including public protests at JPMorganChase's headquarters and other properties, and submitting specific ESG-related proposals for a vote by JPMorganChase's shareholders.

In addition, JPMorganChase has been and expects that it will continue to be criticized by activists, politicians and other members of the public concerning business practices or positions taken by JPMorganChase with respect to matters of public policy (such as diversity, equity and inclusion initiatives) or regarding transactions or other business or interactions between JPMorganChase and governmental or regulatory bodies. Furthermore, JPMorganChase's relationships or ability to transact with clients and customers, and with governmental or regulatory bodies in jurisdictions in which JPMorganChase does business, could be adversely affected if its decisions with respect to doing business with companies in certain sensitive industries are perceived to harm those companies or to align with particular political viewpoints. The foregoing types of criticism can be

- greater scrutiny from governmental or regulatory bodies, or further criticism from politicians and other members of the public, including in the form of governmental or regulatory investigations or litigation
- unfavorable coverage or commentary in the media, including through social media campaigns
- certain clients and customers ceasing doing business with JPMorganChase, and encouraging others to do so
- impairment of JPMorganChase's ability to attract new clients and customers, to expand its relationships with existing clients and customers, or to hire or retain employees, or
- certain investors opting to divest from investments in securities of JPMorganChase.

Actions by the financial services industry generally or individuals in the industry can also affect JPMorganChase's reputation. For example, the reputation of the industry as a whole can be damaged by concerns that:

- consumers have been treated unfairly by a financial institution, or
- a financial institution has acted inappropriately with respect to the methods used to offer products to customers.

If JPMorganChase is perceived to have engaged in these types of behaviors, this could weaken its reputation among clients or customers, employees or other stakeholders.

**Failure to effectively manage potential conflicts of interest or to satisfy fiduciary obligations can result in litigation and enforcement actions, as well as damage JPMorganChase's reputation.**

JPMorganChase's ability to manage potential conflicts of interest is highly complex due to the broad range of its business activities which encompass a variety of transactions, obligations and interests with and among JPMorganChase's clients and customers. JPMorganChase can become







- treat clients and customers fairly and with the appropriate standard of care
- use client and customer data responsibly and in a manner that meets legal requirements and regulatory expectations
- provide fiduciary products or services in accordance with the applicable legal and regulatory standards, or
- handle or use confidential information of customers or clients appropriately and in compliance with applicable data protection and privacy laws, rules and regulations.

A failure or perceived failure to appropriately address conflicts of interest or fiduciary obligations could result in customer dissatisfaction, litigation and regulatory fines, penalties or other sanctions, and heightened regulatory scrutiny and enforcement actions, all of which can lead to lost revenue and higher operating costs and cause serious harm to JPMorganChase's reputation.

### Country

**An outbreak or escalation of hostilities between countries or within a country or region could have a material adverse effect on the global economy and on JPMorganChase's businesses within the affected region or globally.**

Aggressive actions by hostile governments or groups, including armed conflict or intensified cyber attacks, could expand in unpredictable ways by drawing in other countries or escalating into full-scale war with potentially catastrophic consequences, particularly if one or more of the combatants possess nuclear weapons. Depending on the scope of the conflict, the hostilities could result in:

- worldwide economic disruption
- heightened volatility in financial markets
- severe declines in asset values, accompanied by widespread sell-offs

Any of the above consequences could have significant negative effects on JPMorganChase's operations and earnings, both in the countries or regions directly affected by the hostilities or globally. Further, if the U.S. were to become directly involved in such a conflict, this could lead to a curtailment of any operations that JPMorganChase may have in the affected countries or region, as well as in any nation that is aligned against the U.S. in the hostilities. JPMorganChase could also experience more numerous and aggressive cyber attacks launched by or under the sponsorship of one or more of the adversaries in such a conflict.

**JPMorganChase's business and operations in certain countries can be adversely affected by local economic, political, regulatory and social factors.**

Some of the countries in which JPMorganChase conducts business have economies or markets that are less developed and more volatile or may have political, legal and regulatory regimes that are less established or predictable than other countries in which JPMorganChase operates. In addition, in some jurisdictions in which JPMorganChase conducts business, the local economy and business activities are subject to substantial government influence or control. Some of these countries have in the past experienced economic disruptions, including:

- extreme currency fluctuations
- high inflation
- low or negative growth
- defaults or reduced ability to service sovereign debt and
- increased fraud or other misrepresentation of value.

The governments in these countries have sometimes reacted to these developments by imposing restrictive policies that adversely affect the local and regional business environment, such as:

- price, capital or exchange controls, including imposition of punitive

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**Part I**

unfavorable social developments arising from poor economic conditions or governmental actions, including:

- widespread demonstrations, civil unrest or general strikes
- crime and corruption
- security and personal safety issues
- an outbreak or escalation of hostilities, or other geopolitical instabilities
- overthrow of incumbent governments
- terrorist attacks, and
- other forms of internal discord.

These economic, political, regulatory and social developments have in the past resulted in, and in the future could lead to, conditions that can adversely affect JPMorganChase's operations in those countries and impair the revenues, growth and profitability of those operations. In addition, any of these events or circumstances in one country can affect JPMorganChase's operations and investments in another country or countries, including in the U.S.

### People

**JPMorganChase's ability to attract and retain qualified employees is critical to its success.**

JPMorganChase's employees are its most important resource, and in many areas of the financial services industry, competition for qualified personnel is intense. JPMorganChase endeavors to attract talented new employees from a variety of backgrounds and retain, develop and motivate its existing employees. JPMorganChase's efforts to hire and retain talented employees could be hindered by factors such as:

- the emerging need for more-skilled workers in an evolving labor and workplace environment, including due to changes in technology
- targeted recruitment of JPMorganChase employees by competitors, and
- modifications to or discontinuation of JPMorganChase's hybrid work models.

JPMorganChase's performance and

have a negative impact on JPMorganChase's business and operations.

**Unfavorable changes in immigration or travel policies could adversely affect JPMorganChase's businesses and operations.**

JPMorganChase relies on the skills, knowledge and expertise of employees located throughout the world. Changes in immigration or travel policies in the U.S. and other countries that unduly restrict or otherwise make it more difficult for employees or their family members to work in, or travel to or transfer between, jurisdictions in which JPMorganChase has operations or conducts its business could inhibit JPMorganChase's ability to attract and retain qualified employees, and thereby dilute the quality of its workforce, or could prompt JPMorganChase to make structural changes to its worldwide or regional operating models that cause its operations to be less efficient or more costly.

### Legal

**JPMorganChase faces significant legal risks from litigation and formal and informal regulatory and government investigations.**

JPMorganChase is named as a defendant or is otherwise involved in many legal proceedings, including class actions, derivative actions and other litigation or disputes with third parties, as well as criminal proceedings. Actions currently pending against JPMorganChase may result in judgments, settlements, fines, penalties or other sanctions adverse to JPMorganChase. Any of these matters could materially and adversely affect JPMorganChase's business, financial condition or results of operations, or cause serious reputational harm. As a participant in the financial services industry, it is likely that JPMorganChase will continue to experience a high level of litigation and regulatory and government investigations related to its businesses and operations.

Regulators and other government



In addition, if another financial institution violates a law or regulation relating to a particular business activity or practice, this will often give rise to an investigation by regulators and other governmental agencies of the same or similar activity or practice by JPMorganChase.

JPMorganChase could become subject to a significant regulatory investigation and be unable to disclose specific information concerning that investigation to the public if such a disclosure would violate JPMorganChase's obligations under applicable rules and regulations to maintain the confidentiality of confidential supervisory information, even if the resolution of that investigation could have a material adverse effect on JPMorganChase's business, operations, results or financial condition.

Regulatory investigations, examinations or other initiatives by U.S. and non-U.S. governmental authorities may subject JPMorganChase to judgments, settlements, fines, penalties or other sanctions, and may require JPMorganChase to restructure its operations and activities or to cease offering certain products or services. All of these potential outcomes could harm JPMorganChase's reputation or lead to higher operational costs, thereby reducing JPMorganChase's profitability, or result in collateral consequences. In addition, the extent of JPMorganChase's exposure to legal and regulatory matters can be unpredictable and could, in some cases, exceed the amount of reserves that JPMorganChase has established for those matters.



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**Parts I and II**

## Item 1B. Unresolved Staff Comments.

None.

## Item 1C. Cybersecurity.

Refer to the Operational Risk Management section of Management's discussion and analysis on pages 153-156 for a discussion of cybersecurity risk.

## Item 2. Properties.

JPMorganChase's headquarters is located in New York City at 383 Madison Avenue, a 47-story office building that it owns. The demolition of the Firm's former headquarters at 270 Park Avenue in New York City was completed in 2021, and construction of a new headquarters on the same site is nearing completion.

The Firm owned or leased facilities in the following locations at December 31, 2024.

December 31, 2024 (in millions)	Approximate square footage
<b>United States<sup>(a)</sup></b>	
<b>New York City, New York</b>	
383 Madison Avenue, New York, New York	1.1
All other New York City locations	6.0
<b>Total New York City, New York</b>	<b>7.1</b>
<b>Other U.S. locations</b>	
Columbus/Westerville, Ohio	3.5
Chicago, Illinois	2.7
Dallas/Plano/Fort Worth, Texas	2.5
Wilmington/Newark, Delaware	2.1
Houston, Texas	1.6
Jersey City, New Jersey	1.4
Phoenix/Tempe, Arizona	1.3
All other U.S. locations	33.8
<b>Total United States</b>	<b>56.0</b>

## Europe, the Middle East and Africa ("EMEA")

25 Bank Street, London, U.K.	1.4
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The premises and facilities occupied by JPMorganChase are collectively used across all of the Firm's business segments and for corporate purposes. JPMorganChase continues to evaluate its current and projected space requirements and may determine from time to time that certain of its properties (including the premises and facilities noted above) are no longer necessary for its operations. There is no assurance that the Firm will be able to dispose of any such excess properties, premises or facilities, or that it will not incur costs in connection with such dispositions. Such disposition costs may be material to the Firm's results of operations in a given period. Refer to the Consolidated Results of Operations on pages 59-62 for information on occupancy expense.

## Item 3. Legal Proceedings.

Refer to Note 30 for a description of the Firm's material legal proceedings.

## Item 4. Mine Safety Disclosures.

Not applicable.



Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.

**Market for registrant's common equity**

JPMorganChase's common stock is listed and traded on the New York Stock Exchange. Refer to "Five-year stock performance," on page 51 for a comparison of the cumulative total return for JPMorganChase common stock with the comparable total return of the S&P 500 Index, the KBW Bank Index and the S&P Financials Index over the five-year period ended December 31, 2024.

Refer to Capital actions in the Capital Risk Management section of Management's discussion and analysis on page 105 for information on the common dividend payout ratio. Refer to Note 21 and Note 26 for discussions of restrictions on dividend payments. On January 31, 2025, there were 196,005 holders of record of JPMorganChase common stock. Refer to Part III, Item 12 on page 43 for information regarding securities authorized for issuance under the Firm's employee share-based incentive plans.

**Repurchases under the common share repurchase program**

Refer to Capital actions in the Capital Risk Management section of Management's discussion and analysis on page 105 for information regarding repurchases under the Firm's common share repurchase program.

On June 28, 2024, the Firm announced that its Board of Directors had authorized a new \$30 billion common share repurchase program, effective July 1, 2024. Through June 30, 2024, the Firm was authorized to purchase up to \$30 billion of common shares under its previously-approved common share repurchase program that was announced on April 13, 2022.

Shares repurchased pursuant to the common share repurchase programs during 2024 were as follows:

Year ended December 31, 2024	Total number of shares of common stock repurchased	Average price paid per share of common stock <sup>(a)</sup>	Aggregate purchase price of common stock repurchases (in millions) (a)	Dollar value of remaining authorized repurchase (in millions) (a)(b)
First quarter	15,869,936	\$ 179.50	\$ 2,849	\$ 16,886
Second quarter	27,019,730	196.83	5,318	11,568 <sup>(c)</sup>
Third quarter	30,343,933	209.61	6,361	23,639
October	6,173,254	218.00	1,345	22,294
November	5,142,243	241.03	1,240	21,054
December	7,170,130	241.10	1,728	19,326
Fourth quarter	18,485,627	233.37	4,313	19,326
Full year	91,719,226	\$ 205.43	\$ 18,841	\$ 19,326

(a) Excludes excise tax and commissions. As part of the Inflation Reduction Act of 2022, a 1% excise tax is imposed on net share repurchases commencing January 1, 2023.

(b) Represents the amount remaining under the \$30 billion repurchase program.

(c) The remaining \$11.6 billion of share repurchase capacity under the prior Board authorization was canceled when the new \$30 billion repurchase program was authorized by the Board of Directors effective July 1, 2024.

## Item 6. Reserved

## Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations.

Management's discussion and analysis of financial condition and results of operations, entitled "Management's discussion and analysis," appears on pages 52-167. Such information should be read in conjunction with the Consolidated Financial Statements and Notes thereto, which appear on pages 172-321.

## Item 7A. Quantitative and Qualitative Disclosures About Market Risk.

Refer to the Market Risk Management section of Management's discussion and analysis on pages 141-149 for a discussion of quantitative and qualitative disclosures about market risk.

**Parts II and III**

## Item 8. Financial Statements and Supplementary Data.

The Consolidated Financial Statements, together with the Notes thereto and the report thereon dated February 14, 2025, of PricewaterhouseCoopers LLP, the Firm's independent registered public accounting firm (PCAOB ID 238), appear on pages 169-321.

The "Glossary of Terms and Acronyms" is included on pages 327-333.

## Item 9. Changes in and Disagreements With Accountants on Accounting and Financial Disclosure.

None.

## Item 9A. Controls and Procedures.

The internal control framework promulgated by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO"), "Internal Control – Integrated Framework" ("COSO 2013"), provides guidance for designing, implementing and conducting internal control and assessing its effectiveness. The Firm used the COSO 2013 framework to assess the effectiveness of the Firm's internal control over financial reporting as of December 31, 2024. Refer to "Management's report on internal control over financial reporting" on page 168.

As of the end of the period covered by this report, an evaluation was carried out under the supervision and with the participation of the Firm's management, including its Chairman and Chief Executive Officer and its Chief Financial Officer, of the effectiveness of its disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934). Based on that evaluation, the Chairman and Chief Executive Officer and the Chief Financial Officer concluded that these disclosure controls and procedures were effective. Refer to Exhibits 31.1 and 31.2 for the Certifications furnished by the Chairman and Chief Executive

Rule 13a-15(f) under the Securities Exchange Act of 1934) that occurred during the three months ended December 31, 2024, that has materially affected, or is reasonably likely to materially affect, the Firm's internal control over financial reporting.





## Item 9B. Other Information.

### Director and executive officer trading arrangements

The following table provides information concerning Rule 10b5-1 trading arrangements (as defined in Item 408 of Regulation S-K under the Securities Exchange Act of 1934) adopted in the fourth quarter of 2024 by any director or any officer who is subject to the filing requirements of Section 16 of the Securities Exchange Act of 1934 ("Section 16 Director or Officer"). These trading arrangements are intended to satisfy the affirmative defense of Rule 10b5-1(c). Certain of the Firm's Section 16 Directors or Officers may participate in employee stock purchase plans, 401(k) plans or dividend reinvestment plans of the Firm that have been designed to comply with Rule 10b5-1(c). No non-Rule 10b5-1 trading arrangements (as defined in Item 408 of Regulation S-K under the Securities Exchange Act of 1934) were adopted by any Section 16 Director or Officer during the fourth quarter of 2024.

Additionally, no Rule 10b5-1 or non-Rule 10b5-1 trading arrangements were terminated by any Section 16 Director or Officer in the fourth quarter of 2024.

Name	Title	Adoption date	Duration <sup>(c)</sup>	Aggregate number of shares to be sold
Lori Beer	Chief Information Officer	November 15, 2024	November 15, 2024 - March 31, 2025	4,105
James Dimon <sup>(a)</sup>	Chairman and CEO	November 7, 2024	November 7, 2024 - August 1, 2025	1,000,000
Robin Leopold	Head of Human Resources	November 4, 2024	November 4, 2024 - December 31, 2025	2,500
Jennifer Piepszak <sup>(b)</sup>	Co-CEO, CIB	October 30, 2024	October 30, 2024 - March 31, 2025	8,545
Troy Rohrbaugh	Co-CEO, CIB	November 15, 2024	November 15, 2024 - June 30, 2025	75,000

(a) Transaction by trusts and an entity of which Mr. Dimon has either a direct or indirect pecuniary interest.

(b) On January 14, 2025, JPMorganChase announced that Ms. Piepszak became a Chief Operating Officer of the Firm, effective January 14, 2025.

(c) Sales under the trading arrangement will not commence until completion of the required cooling off period under Rule 10b5-1. Subject to compliance with Rule 10b5-1, duration could cease earlier than the final date shown above to the extent that the aggregate number of shares to be sold under the trading arrangement have been sold.

## Item 9C. Disclosure regarding Foreign Jurisdictions that Prevent Inspections.

Not applicable.

## Parts III and IV

### Item 10. Directors, Executive Officers and Corporate Governance.

#### Executive officers of the registrant

Name	Age (at December 31, 2024)	Positions and offices
James Dimon	68	Chairman of the Board since December 2006 and Chief Executive Officer since December 2005.
Ashley Bacon	55	Chief Risk Officer since June 2013.
Jeremy Barnum	52	Chief Financial Officer since May 2021, prior to which he was Head of Global Research for the former Corporate & Investment Bank since February 2021. He previously served as Chief Financial Officer of the former Corporate & Investment Bank from July 2013 until February 2021.
Lori A. Beer	57	Chief Information Officer since September 2017.
Mary Callahan Erdoes	57	Chief Executive Officer of Asset & Wealth Management since September 2009.
Stacey Friedman	56	General Counsel since January 2016.
Marianne Lake	55	Chief Executive Officer of Consumer & Community Banking since January 2024, having previously served as its Co-Chief Executive Officer since May 2021. She was Chief Executive Officer of Consumer Lending from May 2019 until May 2021.
Robin Leopold	60	Head of Human Resources since January 2018.
Jennifer A. Piepszak <sup>(a)(b)</sup>	54	Co-Chief Executive Officer of the Commercial & Investment Bank, having previously served as Co-Chief Executive Officer of Consumer & Community Banking since May 2021, prior to which she had been Chief Financial Officer since May 2019.
Daniel E. Pinto <sup>(a)</sup> <sup>(b)</sup>	62	President and Chief Operating Officer since January 2022, Co-President and Co-Chief Operating Officer since January 2018. He also served as Chief Executive Officer of the former Corporate & Investment Bank from March 2014 until January 2024.
Troy Rohrbaugh <sup>(a)</sup>	54	Co-Chief Executive Officer of the Commercial & Investment Bank since January 2024, prior to which he had been the Co-Head of Markets & Securities Services since June 2023. He was Head of Global Markets from January 2019 until June 2023.

Unless otherwise noted, during the five fiscal years ended December 31, 2024, all of JPMorganChase's above-named executive officers have continuously held senior-level positions with JPMorganChase. There are no family relationships among the foregoing executive officers. Information to be provided in Items 10, 11, 12, 13 and 14 of this 2024 Form 10-K and not otherwise included herein is incorporated by reference to the Firm's Definitive Proxy Statement for its 2025

Annual Meeting of Stockholders to be held on May 20, 2025, which will be filed with the SEC within 120 days of the end of the Firm's fiscal year ended December 31, 2024.

- (a) Effective in the second quarter of 2024, JPMorganChase reorganized its reportable business segments by combining the former Corporate & Investment Bank and Commercial Banking business segments to form one reportable segment, the Commercial & Investment Bank. Refer to Business Segment & Corporate Results on page 70 for further information.
- (b) On January 14, 2025, JPMorganChase announced new responsibilities for certain executives: Mr. Pinto will retire at the end of 2026, will relinquish his duties as President and Chief Operating Officer as of June 30, 2025, and will continue to serve as Vice Chairman through the end of 2026; Ms. Piepszak became a Chief Operating Officer of the Firm, effective January 14, 2025; and Doug Petno, Co-Head of Global Banking, succeeded Ms. Piepszak as co-Chief Executive Officer of the Commercial & Investment Bank. Refer to Recent events on page 57 of this 2024 Form 10-K for further information.

### **Code of Conduct and Code of Ethics**

JPMorganChase has adopted, and posted on its website at <https://www.jpmorganchase.com>, a Code of Conduct for all employees of the Firm and a Code of Ethics for its Chairman and Chief Executive Officer, Chief Financial Officer, Principal Accounting Officer and all other professionals of the Firm worldwide serving in a finance, accounting, treasury, tax or investor relations role. The Code of Ethics is also available in print upon request to the Firm's Investor Relations team. Within the time period required by the SEC, JPMorganChase will post on its website any amendment to the Code of Ethics and any waiver applicable to a director or executive officer.

### **Insider Trading Policy**

JPMorganChase has adopted an insider trading policy applicable to its directors, officers and employees, as well as to JPMorganChase itself, governing the purchase, sale and other dispositions of the Firm's securities (the "Insider Trading Policy"). The Firm believes that the Insider Trading Policy is reasonably designed to promote compliance with applicable U.S. federal securities laws and the listing standards of the New York Stock Exchange relating to insider trading. The Insider Trading Policy is filed as Exhibit 19 to this 2024 Form 10-K.

## Item 11. Executive Compensation.

Refer to Item 10.

## Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.

Refer to Item 10 for security ownership of certain beneficial owners and management.

The following table sets forth the total number of shares available for issuance under JPMorganChase's employee share-based incentive plans (including shares available for issuance to non-employee directors). The Firm is not authorized to grant share-based incentive awards to non-employees, other than to non-employee directors.

	Number of shares to be issued upon exercise of outstanding stock appreciation rights	Weighted-average exercise price of outstanding stock appreciation rights	Number of shares remaining available for future issuance under stock incentive plans
December 31, 2024			
<b>Plan category</b>			
Employee share-based incentive plans approved by shareholders	2,250,000 <sup>(a)</sup>	\$ 152.19	81,151,866 <sup>(b)</sup>
<b>Total</b>	<b>2,250,000</b>	<b>\$ 152.19</b>	<b>81,151,866</b>

(a) Does not include restricted stock units or performance stock units granted under the shareholder-approved Long-Term Incentive Plan ("LTIP"), as amended and restated effective May 21, 2024. Refer to Note 9 for further information.

(b) Represents shares available for future issuance under the shareholder-approved LTIP.

All shares available for future issuance will be issued under the shareholder-approved LTIP. Refer to Note 9 for further discussion.

## Item 13. Certain Relationships and Related Transactions, and Director Independence.

Refer to Item 10.

## Item 14. Principal Accounting Fees and Services.

Refer to Item 10.

**Part IV**

Item 15. Exhibits, Financial Statement Schedules.

1 Financial statements

The Consolidated Financial Statements, the Notes thereto and the report of the Independent Registered Public Accounting Firm thereon listed in Item 8 are set forth commencing on page 169.

2 Financial statement schedules

3 Exhibits

3.1 [Restated Certificate of Incorporation of JPMorgan Chase & Co., effective April 5, 2006 \(incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed April 7, 2006\).](#)

3.2 [Amendment to the Restated Certificate of Incorporation of JPMorgan Chase & Co., effective June 7, 2013 \(incorporated by reference to Appendix F to the Proxy Statement on Schedule 14A of JPMorgan Chase & Co. \(File No. 1-5805\) filed April 10, 2013\).](#)

3.3 [Certificate of Designations for Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series CC \(incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed October 20, 2017\).](#)

3.4 [Certificate of Designations for 5.75% Non-Cumulative Preferred Stock, Series DD \(incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed September 21, 2018\).](#)

3.7 [Certificate of Designations for Fixed-to-Floating Rate Non-Cumulative Preferred Stock, Series II \(incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed February 24, 2020\).](#)

3.8 [Certificate of Designations for 4.55% Non-Cumulative Preferred Stock, Series JJ \(incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed March 17, 2021\).](#)

3.90 [Certificate of Designations for 3.65% Fixed-Rate Reset Non-Cumulative Preferred Stock, Series KK \(incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed May 12, 2021\).](#)

3.10 [Certificate of Designations for 4.625% Non-Cumulative Preferred Stock, Series LL \(incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed May 20, 2021\).](#)

3.11 [Certificate of Designations for 4.20% Non-Cumulative Preferred Stock, Series MM \(incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed July 29, 2021\).](#)

3.12 [Certificate of Designations for 6.875% Non-Cumulative Preferred Stock, Series NN \(incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File 1-5805\) filed March](#)







4.1(b) [First Supplemental Indenture, dated as of January 13, 2017, between JPMorgan Chase & Co. and Deutsche Bank Trust Company Americas, as Trustee, to the Indenture, dated as of October 21, 2010 \(incorporated by reference to Exhibit 4.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed January 13, 2017\).](#)

4.2(a) [Subordinated Indenture, dated as of March 14, 2014, between JPMorgan Chase & Co. and U.S. Bank Trust National Association, as Trustee \(incorporated by reference to Exhibit 4.1 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No.1-5805\) filed March 14, 2014\).](#)

4.2(b) [First Supplemental Indenture, dated as of January 13, 2017, between JPMorgan Chase & Co. and U.S. Bank Trust National Association, as Trustee, to the Subordinated Indenture, dated as of March 14, 2014 \(incorporated by reference to Exhibit 4.2 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed January 13, 2017\).](#)

4.3(a) [Indenture, dated as of May 25, 2001, between JPMorgan Chase & Co. and Bankers Trust Company \(succeeded by Deutsche Bank Trust Company Americas\), as Trustee \(incorporated by reference to Exhibit 4\(a\)\(1\) to the Registration Statement on Form S-3 of JPMorgan Chase & Co. \(File No. 333-52826\) filed June 13, 2001\).](#)

4.3(b) [Sixth Supplemental Indenture, dated as of January 13, 2017, between JPMorgan Chase & Co. and Bankers Trust Company](#)

4.6 [Description of Securities of JPMorgan Chase & Co. registered pursuant to Section 12 of the Securities Exchange Act of 1934.](#) <sup>(b)</sup>

*Other instruments defining the rights of holders of long-term debt securities of JPMorgan Chase & Co. and its subsidiaries are omitted pursuant to Section (b)(4)(iii)(A) of Item 601 of Regulation S-K. JPMorgan Chase & Co. agrees to furnish copies of these instruments to the SEC upon request.*

10.1 [Deferred Compensation Plan for Non-Employee Directors of JPMorgan Chase & Co., as amended and restated July 2001 and as of December 31, 2004 \(incorporated by reference to Exhibit 10.1 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5805\) for the year ended December 31, 2007\).](#) <sup>(a)</sup>

10.2 [2005 Deferred Compensation Plan for Non-Employee Directors of JPMorgan Chase & Co., effective as of January 1, 2005 \(incorporated by reference to Exhibit 10.2 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5805\) for the year ended December 31, 2007\).](#) <sup>(a)</sup>

10.3 [2005 Deferred Compensation Program of JPMorgan Chase & Co., restated effective as of December 31, 2008 \(incorporated by reference to Exhibit 10.4 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5805\) for the year ended December 31, 2008\).](#) <sup>(a)</sup>

10.4 [JPMorgan Chase & Co. Amended and Restated Long-Term Incentive Plan, effective May 21, 2024 \(incorporated by reference to the Appendix of the Schedule 14A of](#)



**Part IV**

- 10.8 [Bank One Corporation Supplemental Savings and Investment Plan, as amended and restated effective December 31, 2008 \(incorporated by reference to Exhibit 10.13 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5805\) for the year ended December 31, 2008\).](#)<sup>(a)</sup>
- 10.9 [Forms of JPMorgan Chase & Co. Long-Term Incentive Plan Terms and Conditions for performance share units and restricted stock units for Operating Committee members \(U.S. and U.K.\), dated as of January 17, 2017 \(incorporated by reference to Exhibit 10.23 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5805\) for the year ended December 31, 2016\).](#)<sup>(a)</sup>
- 10.10 [Forms of JPMorgan Chase & Co. Long-Term Incentive Plan Terms and Conditions for performance share units and restricted stock units for Operating Committee members \(U.S. and U.K.\), dated as of January 16, 2018 \(incorporated by reference to Exhibit 10.19 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5805\) for the year ended December 31, 2017\).](#)<sup>(a)</sup>
- 10.11 [Forms of JPMorgan Chase & Co. Long-Term Incentive Plan Terms and Conditions for restricted stock units for Operating Committee members \(U.S. and U.K.\), dated as of January 15, 2019 \(incorporated by reference to Exhibit 10.18 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5805\) for the year ended December 31, 2018\).](#)<sup>(a)</sup>
- 10.14 [Form of JPMorgan Chase & Co. Long-Term Incentive Plan Terms and Conditions for stock appreciation rights for Chairman/Chief Executive Officer, dated July 20, 2021 \(incorporated by reference to Exhibit 99 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed July 20, 2021\).](#)<sup>(a)</sup>
- 10.15 [Form of JPMorgan Chase & Co. Long-Term Incentive Plan Terms and Conditions for stock appreciation rights for President and Chief Operating Officer, dated December 14, 2021 \(incorporated by reference to Exhibit 99 to the Current Report on Form 8-K of JPMorgan Chase & Co. \(File No. 1-5805\) filed December 15, 2021\).](#)<sup>(a)</sup>
- 10.16 [Forms of JPMorgan Chase & Co. Long-Term Incentive Plan Terms and Conditions for restricted stock units and performance share unit awards for Operating Committee members \(U.S. and U.K.\), dated as of January 18, 2022 \(incorporated by reference to Exhibit 10.20 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5808\) for the year ended December 31, 2021\).](#)<sup>(a)</sup>
- 10.17 [Forms of JPMorgan Chase & Co. Long-Term Incentive Plan Terms and Conditions for restricted stock units and performance share unit awards for Operating Committee members \(U.S. and U.K.\), dated as of January 17, 2023 \(incorporated by reference to Exhibit 10.18 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5808\) for the year ended December 31, 2022\).](#)<sup>(a)</sup>





10.20 [Employee Stock Purchase Plan of JPMorgan Chase & Co., as amended and restated effective as of January 1, 2019 \(incorporated by reference to Exhibit 10.1 to the Quarterly Report on Form 10-Q of JPMorgan Chase & Co. \(File No. 1-5805\) for the quarter ended September 30, 2019\).](#)

10.21 [Form of JPMorgan Chase & Co. Performance-Based Incentive Compensation Plan, effective as of January 1, 2021, as amended \(incorporated by reference to Exhibit 10.23 to the Annual Report on Form 10-K of JPMorgan Chase & Co. \(File No. 1-5808\) for the year ended December 31, 2021\).](#)<sup>(a)</sup>

19 [Insider Trading Policy - Firmwide](#)<sup>(b)</sup>

21 [List of subsidiaries of JPMorgan Chase & Co.](#)<sup>(b)</sup>

22.1 Annual Report on Form 11-K of The JPMorgan Chase 401(k) Savings Plan for the year ended December 31, 2024 (to be filed pursuant to Rule 15d-21 under the Securities Exchange Act of 1934).

22.2 [Subsidiary Guarantors and Issuers of Guaranteed Securities.](#)<sup>(b)</sup>

23 [Consent of independent registered public accounting firm.](#)<sup>(b)</sup>

31.1 [Certification.](#)<sup>(b)</sup>

31.2 [Certification.](#)<sup>(b)</sup>

32 [Certification pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.](#)<sup>(c)</sup>

97 [Policy for the Recovery of Erroneously Awarded Incentive-Based Compensation.](#)<sup>(b)</sup>

101.INS The instance document does not appear in the interactive data file

104 Cover Page Interactive Data File (embedded within the Inline XBRL document and included in Exhibit 101).

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- (a) This exhibit is a management contract or compensatory plan or arrangement.
- (b) Filed herewith.
- (c) Furnished herewith. This exhibit shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, or otherwise subject to the liability of that Section. Such exhibit shall not be deemed incorporated into any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934.
- (d) Pursuant to Rule 405 of Regulation S-T, includes the following financial information included in the Firm's Form 10-K for the year ended December 31, 2024, formatted in XBRL (eXtensible Business Reporting Language) interactive data files: (i) the Consolidated statements of income for the years ended December 31, 2024, 2023 and 2022, (ii) the Consolidated statements of comprehensive income for the years ended December 31, 2024, 2023 and 2022, (iii) the Consolidated balance sheets as of December 31, 2024 and 2023, (iv) the Consolidated statements of changes in stockholders' equity for the years ended December 31, 2024, 2023 and 2022, (v) the Consolidated statements of cash flows for the years ended December 31, 2024, 2023 and 2022, and (vi) the Notes to Consolidated Financial Statements.





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## **Financial**

### **THREE-YEAR SUMMARY OF CONSOLIDATED FINANCIAL HIGHLIGHTS (unaudited)**

As of or for the year ended December 31,  
(in millions, except per share, ratio, employee data  
and where otherwise noted)

2024 2023 2022

#### Selected income statement data

Total net revenue	\$ 177,556 <sup>(e)</sup>	\$ 158,104	\$ 128,695
Total noninterest expense	91,797 <sup>(e)</sup>	87,172	76,140
<b>Pre-provision profit<sup>(a)</sup></b>	<b>85,759</b>	<b>70,932</b>	<b>52,555</b>
Provision for credit losses	10,678	9,320	6,389
<b>Income before income tax expense</b>	<b>75,081</b>	<b>61,612</b>	<b>46,166</b>
Income tax expense	16,610	12,060	8,490
<b>Net income</b>	<b>\$ 58,471</b>	<b>\$ 49,552</b>	<b>\$ 37,676</b>

#### Earnings per share data

Net income: Basic	\$ 19.79	\$ 16.25	\$ 12.10
Diluted	19.75	16.23	12.09
Average shares: Basic	2,873.9	2,938.6	2,965.8
Diluted	2,879.0	2,943.1	2,970.0

#### Market and per common share data

Market capitalization	670,618	489,320	393,484
Common shares at period-end	2,797.6	2,876.6	2,934.2
Book value per share	116.07	104.45	90.29
Tangible book value per share ("TBVPS") <sup>(a)</sup>	97.30	86.08	73.12
Cash dividends declared per share	4.80	4.10	4.00

#### Selected ratios and metrics

Return on common equity ("ROE")	18 %	17 %	14 %
Return on tangible common equity ("ROTCE") <sup>(a)</sup>	22	21	18
Return on assets ("ROA")	1.43	1.30	0.98
Overhead ratio	52	55	59
Loans-to-deposits ratio	56	55	49
Firm Liquidity coverage ratio ("LCR") (average) <sup>(b)</sup>	113	113	112
JPMorgan Chase Bank, N.A. LCR (average) <sup>(b)</sup>	124	129	151
Common equity Tier 1 ("CET1") capital ratio <sup>(c)(d)</sup>	15.7	15.0	13.2
Tier 1 capital ratio <sup>(c)(d)</sup>	16.8	16.6	14.9
Total capital ratio <sup>(c)(d)</sup>	18.5	18.5	16.8
Tier 1 leverage ratio <sup>(b)(c)</sup>	7.2	7.2	6.6
Supplementary leverage ratio ("SLR") <sup>(b)(c)</sup>	6.1	6.1	5.6

#### Selected balance sheet data (period-end)

Trading assets	\$ 637,784	\$ 540,607	\$ 453,799
Investment securities, net of allowance for credit losses	681,320	571,552	631,162
Loans	1,347,988	1,323,706	1,135,647
Total assets	4,002,814	3,875,393	3,665,743
Deposits	2,406,032	2,400,688	2,340,179
Long-term debt	401,418	391,825	295,865
Common stockholders' equity	324,708	300,474	264,928
Total stockholders' equity	344,758	327,878	292,332
<b>Employees</b>	<b>317,233</b>	<b>309,926</b>	<b>293,723</b>

#### Credit quality metrics

- (a) Pre-provision profit, TBVPS and ROTCE are each non-GAAP financial measures. Tangible common equity ("TCE") is also a non-GAAP financial measure. Refer to Explanation and Reconciliation of the Firm's Use of Non-GAAP Financial Measures on pages 67-69 for a discussion of these measures.
- (b) For the years ended December 31, 2024, 2023 and 2022, the percentage represents average ratios for the three months ended December 31, 2024, 2023 and 2022.
- (c) The ratios reflect the Current Expected Credit Losses ("CECL") capital transition provisions. Refer to Note 27 for additional information.
- (d) Reflects the Firm's ratios under the Basel III Standardized approach. Refer to Capital Risk Management on pages 97-107 for additional information.
- (e) Total net revenue included a \$7.9 billion net gain related to Visa shares, and total noninterest expense included a \$1.0 billion contribution of Visa shares to the JPMorgan Chase Foundation, both recorded in the second quarter of 2024. Refer to Executive Overview on pages 54-58, and Notes 2 and 6 for additional information on the exchange offer for Visa Class B-1 common stock.



## FIVE-YEAR STOCK PERFORMANCE

The following table and graph compare the five-year cumulative total return for JPMorgan Chase & Co. ("JPMorganChase" or the "Firm") common stock with the cumulative return of the S&P 500 Index, the KBW Bank Index and the S&P Financials Index. The S&P 500 Index is a commonly referenced equity benchmark in the United States of America ("U.S."), consisting of leading companies from different economic sectors. The KBW Bank Index seeks to reflect the performance of banks and thrifts that are publicly traded in the U.S. and is composed of leading national money center and regional banks and thrifts. The S&P Financials Index is an index of financial companies, all of which are components of the S&P 500. The Firm is a component of all three industry indices.

The following table and graph assume simultaneous investments of \$100 on December 31, 2019, in JPMorganChase common stock and in each of the above indices. The comparison assumes that all dividends were reinvested.

December 31, (in dollars)	2019	2020	2021	2022	2023	2024
JPMorganChase	\$100.00	\$ 94.48	\$120.68	\$105.48	\$137.91	<b>\$198.96</b>
KBW Bank Index	100.00	89.69	124.08	97.53	96.66	<b>132.62</b>
S&P Financials Index	100.00	98.24	132.50	118.54	132.94	<b>173.57</b>
S&P 500 Index	100.00	118.39	152.34	124.75	157.54	<b>196.96</b>

December 31,  
(in dollars)  
1036

## Management's discussion and analysis

*The following is Management's discussion and analysis of the financial condition and results of operations ("MD&A") of JPMorganChase for the year ended December 31, 2024. The MD&A is included in both JPMorganChase's Annual Report for the year ended December 31, 2024 ("Annual Report") and its Annual Report on Form 10-K for the year ended December 31, 2024 ("2024 Form 10-K" or "Form 10-K") filed with the Securities and Exchange Commission ("SEC"). Refer to the Glossary of terms and acronyms on pages 327-333 for definitions of terms and acronyms used throughout the Annual Report and the 2024 Form 10-K.*

*This Form 10-K contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements are based on the current beliefs and expectations of JPMorganChase's management, speak only as of the date of this Form 10-K and are subject to significant risks and uncertainties. Refer to Forward-looking Statements on page 167 and Part 1, Item 1A: Risk Factors in this Form 10-K on pages 10-37 for a discussion of certain of those risks and uncertainties and the factors that could cause JPMorganChase's actual results to differ materially because of those risks and uncertainties. There is no assurance that actual results will be in line with any outlook information set forth herein, and the Firm does not undertake to update any forward-looking statements.*

### INTRODUCTION

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JPMorgan Chase & Co. (NYSE: JPM), a financial holding company incorporated under Delaware law in 1968, is a leading financial services firm based in the United States of America ("U.S."), with operations worldwide. JPMorganChase had \$4.0 trillion in assets and \$344.8 billion in stockholders' equity as of December 31, 2024. The Firm is a leader in investment banking, financial services for consumers and small businesses, commercial banking, financial transaction processing and asset management. Under the J.P. Morgan and Chase brands, the Firm serves millions of customers, predominantly in the U.S., and many of the world's most prominent corporate, institutional and government clients globally.

JPMorganChase's principal bank subsidiary is JPMorgan Chase Bank, National Association ("JPMorgan Chase Bank, N.A."), a national banking association with U.S. branches in 48 states and Washington, D.C. JPMorganChase's principal non-bank subsidiary is J.P. Morgan Securities LLC ("J.P. Morgan Securities"), a U.S. broker-dealer. The bank and non-bank subsidiaries of JPMorganChase operate nationally as well as through overseas branches and subsidiaries, representative offices and subsidiary foreign banks. The Firm's principal operating subsidiaries outside the U.S. are J.P. Morgan Securities plc and J.P. Morgan SE ("JPMSE"), which are subsidiaries of JPMorgan Chase Bank, N.A. and are based in the United Kingdom ("U.K.") and Germany, respectively.

#### **Business segments & Corporate:**

Effective in the second quarter of 2024, the Firm reorganized its reportable business segments by combining the former Corporate & Investment Bank and Commercial Banking business segments to form one reportable segment, the Commercial & Investment Bank. As a result of the reorganization, the Firm has three reportable business segments – Consumer & Community Banking ("CCB"), Commercial & Investment Bank ("CIB") and Asset & Wealth Management ("AWM") – with the remaining activities in Corporate. The Firm's consumer business segment is CCB, and the Firm's wholesale business segments are CIB and AWM.

A description of each of the Firm's reportable business segments, and the products and services that they provide to their respective client bases, as well as a description of Corporate activities, is provided in the Management's discussion and analysis of financial condition and results of operations section of this Form 10-K ("Management's discussion and analysis" or "MD&A") under the heading "Business Segment & Corporate Results," which begins on page 70, and in Note 32.

**First Republic:** On May 1, 2023, JPMorganChase acquired certain assets and assumed certain liabilities of First Republic Bank (the "First Republic acquisition") from the Federal Deposit Insurance Corporation ("FDIC"). References in this Form 10-K to "associated with First Republic," "impact of First Republic" or similar expressions refer to the relevant effects of the First Republic acquisition, as well as subsequent related business and activities, as applicable. Refer to Note 34 for additional information.

The Firm's website is [www.jpmorganchase.com](http://www.jpmorganchase.com). JPMorganChase makes available on its website, free of charge, annual reports on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934, as soon as reasonably practicable after it electronically files or furnishes such material to the U.S. Securities and Exchange Commission (the "SEC") at [www.sec.gov](http://www.sec.gov). JPMorganChase makes new and important information about the Firm available on its website at <https://www.jpmorganchase.com>, including on the Investor Relations section of its website at <https://www.jpmorganchase.com/ir>. Information on the Firm's website, including documents on the website that are referenced in this Form 10-K, is not incorporated by reference into this 2024 Form 10-K or the Firm's other filings with the SEC.

## EXECUTIVE OVERVIEW

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*This executive overview of the MD&A highlights selected information and does not contain all of the information that is important to readers of the Firm's 2024 Form 10-K. For a complete description of the trends and uncertainties, as well as the risks and critical accounting estimates affecting the Firm, the 2024 Form 10-K should be read in its entirety.*

## Financial performance of JPMorganChase

Year ended December 31, (in millions, except per share data and ratios)	2024	2023	Change
<b>Selected income statement data</b>			
Noninterest revenue	\$ 84,973	\$ 68,837	23%
Net interest income	92,583	89,267	4
Total net revenue	177,556	158,104	12
Total noninterest expense	91,797	87,172	5
Pre-provision profit	85,759	70,932	21
Provision for credit losses	10,678	9,320	15
Net income	58,471	49,552	18
Diluted earnings per share	19.75	16.23	22
<b>Selected ratios and metrics</b>			
Return on common equity	18 %	17 %	
Return on tangible common equity	22	21	
Book value per share	\$ 116.07	\$ 104.45	11
Tangible book value per share	97.3	86.08	13
<b>Capital ratios<sup>(a)</sup></b>			
<sup>(b)</sup>			
CET1 capital	15.7 %	15.0 %	
Tier 1 capital	16.8	16.6	
Total capital	18.5	18.5	
<b>Memo:</b>			

**Visa shares:** On April 8, 2024, Visa Inc. commenced an initial exchange offer for its Class B-1 common shares. On May 6, 2024, the Firm announced that Visa had accepted the Firm's tender of its 37.2 million Visa Class B-1 common shares in exchange for a combination of Visa Class B-2 common shares and Visa Class C common shares ("Visa C shares"), resulting in a \$7.9 billion net gain related to Visa shares recorded in the second quarter of 2024. As of September 30, 2024, the Firm had disposed of all of its Visa C shares through sales and through a contribution to the Firm's Foundation. Refer to Market Risk Management on pages 141-149, and Notes 2 and 6 for additional information.

**First Republic:** JPMorganChase acquired certain assets and assumed certain liabilities of First Republic Bank from the FDIC on May 1, 2023. As a result, the year-to-date results include the twelve-month impact of First Republic compared with eight months in the prior-year period. Where meaningful to the results, this is referred to in this Form 10-K as the "timing impact" of First Republic. Refer to Notes 6 and 34 for additional information.

*Comparisons noted in the sections below are for the full year of 2024 versus the full year of 2023, unless otherwise specified.*

## Firmwide overview

JPMorganChase reported net income of \$58.5 billion for 2024, up 18%, earnings per share of \$19.75, ROE of 18% and ROTCE of 22%.

- **Total net revenue** was \$177.6 billion, up 12%, reflecting:
  - **Net interest income** ("NII") of \$92.6 billion, up 4%, driven by the impact of balance sheet actions, primarily reinvestments in the investment securities portfolio, higher revolving balances in Card Services, the timing impact of First Republic, higher wholesale deposit balances, and higher Markets net interest income, largely offset by deposit margin compression across the







- **Noninterest expense** was \$91.8 billion, up 5%, driven by higher compensation expense, including higher revenue-related compensation and growth in the number of employees, as well as a \$1.0 billion contribution of Visa shares to the JPMorgan Chase Foundation recorded in the second quarter of 2024, partially offset by lower FDIC-related expense, reflecting a \$2.9 billion special assessment recognized in the fourth quarter of 2023, compared with a \$725 million increase to the FDIC special assessment recognized in the first quarter of 2024.

- The **provision for credit losses** was \$10.7 billion, reflecting \$8.6 billion of net charge-offs and a net addition to the allowance for credit losses of \$2.0 billion. Net charge-offs increased by \$2.4 billion, driven by Card Services, reflecting the seasoning of vintages originated in recent years, credit normalization, and balance growth. The net addition to the allowance for credit losses included a net addition of \$2.1 billion in **consumer**, driven by Card Services, and a net reduction of \$19 million in **wholesale**.

The provision in the prior year was \$9.3 billion, reflecting \$6.2 billion of net charge-offs and a \$3.1 billion net addition to the allowance for credit losses.

- The total **allowance for credit losses** was \$26.9 billion at December 31, 2024. The Firm had an allowance for loan losses to retained loans coverage ratio of 1.87%, compared with 1.75% in the prior year.
- The Firm's **nonperforming assets** totaled \$9.3 billion at December 31, 2024, up 22%, driven by higher wholesale nonaccrual loans, which reflected downgrades in Real Estate, concentrated in Office, partially offset by lower consumer nonaccrual loans, which included loan sales. Refer to Wholesale Credit Portfolio and Consumer Credit Portfolio on pages 126-136 and pages 120-125,

#### **Selected capital and other metrics**

- **CET1 capital** was \$275.5 billion, and the Standardized and Advanced CET1 ratios were 15.7% and 15.8%, respectively.
- **SLR** was 6.1%.
- **TBVPS** grew 13.0%, ending 2024 at \$97.30.
- As of December 31, 2024, the Firm had eligible end-of-period **High Quality Liquid Assets ("HQLA")** of approximately \$834 billion and **unencumbered marketable securities** with a fair value of approximately \$594 billion, resulting in approximately \$1.4 trillion of liquidity sources. Refer to Liquidity Risk Management on pages 108-115 for additional information.

Refer to Consolidated Results of Operations and Consolidated Balance Sheets Analysis on pages 59-62 and pages 63-65, respectively, for a further discussion of the Firm's results, including the provision for credit losses, and Note 34 for additional information on the First Republic acquisition.

Pre-provision profit, ROTCE, TCE, TBVPS, NII and NIR excluding Markets, and total net revenue on a managed basis are non-GAAP financial measures. Refer to Explanation and Reconciliation of the Firm's Use of Non-GAAP Financial Measures on pages 67-69 for a further discussion of each of these measures.





## Business segment highlights

Selected business metrics for each of the Firm's lines of business ("LOB") are presented below for the full year of 2024.

CCB ROE 32%	<ul style="list-style-type: none"> <li>• Average deposits down 6%; client investment assets up 14%</li> <li>• Average loans up 9%; Card Services net charge-off rate of 3.34%</li> <li>• Debit and credit card sales volume<sup>(a)</sup> up 8%</li> <li>• Active mobile customers<sup>(b)</sup> up 7%</li> </ul>
CIB <sup>(c)</sup> ROE 18%	<ul style="list-style-type: none"> <li>• Investment Banking fees up 37%; #1 ranking for Global Investment Banking fees with 9.3% wallet share for the year</li> <li>• Markets revenue up 7%, with Fixed Income Markets up 5% and Equity Markets up 13%</li> <li>• Average Banking &amp; Payments loans up 2%; average client deposits<sup>(d)</sup> up 5%</li> </ul>
AWM ROE 34%	<ul style="list-style-type: none"> <li>• Assets under management ("AUM") of \$4.0 trillion, up 18%</li> <li>• Average loans up 3%; average deposits up 9% including the transfer of First Republic deposits to AWM in 4Q23<sup>(e)</sup></li> </ul>

(a) Excludes Commercial Card.

(b) Users of all mobile platforms who have logged in within the past 90 days.

(c) Reflects the reorganization of the Firm's business segments. Refer to Business Segment & Corporate Results on pages 70-90 for additional information.

(d) Represents client deposits and other third-party liabilities pertaining to the Payments and Securities Services businesses.

(e) In the fourth quarter of 2023, CCB transferred certain deposits associated with First Republic to AWM and CIB.

Refer to the Business Segment & Corporate Results on pages 70-90 for a detailed discussion of results by business segment.

## Credit provided and capital raised

JPMorganChase continues to support consumers, businesses and communities around the globe. The Firm provided new and renewed credit and raised capital for wholesale and consumer clients during 2024, consisting of approximately:

\$2.8 trillion	Total credit provided and capital raised (including loans and commitments)
\$250 billion	Credit for consumers
\$40 billion	Credit for U.S. small businesses
\$2.4 trillion	Credit and capital for corporations and non-U.S. government entities <sup>(a)</sup>
\$65 billion	Credit and capital for nonprofit and U.S. government entities <sup>(b)</sup>

(a) Includes Individuals and Individual Entities primarily consisting of Global Private Bank clients within AWM.

(b) Includes states, municipalities, hospitals and universities.





## Recent events

- On January 14, 2025, JPMorganChase announced new responsibilities for several of its senior executives:
  - Daniel Pinto, President and Chief Operating Officer ("COO"), will retire at the end of 2026. Mr. Pinto will relinquish his responsibilities as President and COO as of June 30, 2025. He will continue to serve the Firm as Vice Chairman through the end of 2026.
  - Jennifer Piepszak, Co-Chief Executive Officer of the Commercial & Investment Bank ("CIB"), was named a COO of the Firm, effective January 14, 2025.
  - Doug Petno, Co-head of Global Banking, succeeded Ms. Piepszak as Co-Chief Executive Officer of CIB.
- On December 12, 2024, the Firm announced that Michele G. Buck, 63, had been elected as a director of the Firm, effective March 17, 2025. Ms. Buck is Chairman of the Board, President and CEO of The Hershey Company.

## Outlook

*These current expectations are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Such forward-looking statements are based on the current beliefs and expectations of JPMorganChase's management, speak only as of the date of this Form 10-K, and are subject to significant risks and uncertainties. Refer to Forward-Looking Statements on page 167 and Part I, Item 1A: Risk Factors on pages 10-37 of this Form 10-K for a further discussion of certain of those risks and uncertainties and the other factors that could cause JPMorganChase's actual results to differ materially because of those risks and uncertainties. There is no assurance that actual results in 2025 will be in line with the outlook information set forth below, and the Firm does not undertake to update any forward-looking statements.*

JPMorganChase's current outlook for full-year 2025 should be viewed against the backdrop of the global and U.S. economies, financial markets activity, the geopolitical environment, the competitive environment, client and customer activity levels, and regulatory and legislative developments in the U.S. and other countries where the Firm does business. Each of these factors will affect the performance of the Firm. The Firm will continue to make appropriate adjustments to its businesses and operations in response to ongoing developments in the business, economic, regulatory and legal environments in which it operates.

## Full-year 2025

- Management expects net interest income to be approximately \$94.0 billion and net interest income excluding Markets to be approximately \$90.0 billion, market dependent.
- Management expects adjusted expense to be approximately \$95.0 billion, market dependent.
- Management expects the net charge-off rate in Card Services to be





## Business Developments

### First Republic acquisition

On May 1, 2023, JPMorganChase acquired certain assets and assumed certain liabilities of First Republic Bank (the "First Republic acquisition") from the Federal Deposit Insurance Corporation ("FDIC"), as receiver.

As of December 31, 2024, the Firm had substantially completed the conversion of operations, and the integration of clients, products and services, associated with the First Republic acquisition to align with the Firm's businesses and operations.

Refer to Note 34 for additional information on First Republic.

## CONSOLIDATED RESULTS OF OPERATIONS

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*This section provides a comparative discussion of JPMorganChase's Consolidated Results of Operations on a reported basis for the two-year period ended December 31, 2024, unless otherwise specified. Refer to Consolidated Results of Operations on pages 54-57 of the Firm's Annual Report on Form 10-K for the year ended December 31, 2023 (the "2023 Form 10-K") for a discussion of the 2023 versus 2022 results. Factors that relate primarily to a single business segment or Corporate are discussed in more detail in the results of that segment or Corporate. Refer to pages 161-164 for a discussion of the Critical Accounting Estimates Used by the Firm that affect the Consolidated Results of Operations.*

## Revenue

Year ended December 31, (in millions)	2024	2023	2022
Investment banking fees	\$ 8,910	\$ 6,519	\$ 6,686
Principal transactions	24,787	24,460	19,912
Lending- and deposit- related fees	7,606	7,413	7,098
Asset management fees	17,801	15,220	14,096
Commissions and other fees	7,530	6,836	6,581
Investment securities losses	(1,021)	(3,180)	(2,380)
Mortgage fees and related income	1,401	1,176	1,250
Card income	5,497	4,784	4,420
Other income <sup>(a)</sup> <sup>(b)</sup>	12,462 <sup>(c)</sup>	5,609 <sup>(d)</sup>	4,322
<b>Noninterest revenue</b>	<b>84,973</b>	<b>68,837</b>	<b>61,985</b>
Net interest income	92,583	89,267	66,710
<b>Total net revenue</b>	<b>\$177,556</b>	<b>\$158,104</b>	<b>\$128,695</b>

(a) Included operating lease income of \$2.8 billion, \$2.8 billion and \$3.7 billion for the years ended December 31, 2024, 2023 and 2022, respectively. Refer to Note 6 for additional information.

(b) Effective January 1, 2024, as a result of adopting updates to the Accounting for Investments in Tax Credit Structures guidance, the amortization of certain of the Firm's alternative energy tax-oriented investments that was previously recognized in other income is now recognized in income tax expense. Refer to Notes 1, 6, 14 and 25 for additional information.

(c) Included the net gain related to Visa shares of \$7.9 billion recorded in the second quarter of 2024. Refer to Notes 2 and 6 for additional information.

(d) Included the estimated bargain purchase gain of \$2.8 billion for the year ended December 31, 2023 associated with the First Republic acquisition. Refer to Notes 6 and

Refer to CIB segment results on pages 77-83 and Note 6 for additional information.

## Principal transactions revenue

increased driven by CIB, reflecting:

- higher Equity Markets revenue in Prime Finance and Equity Derivatives,
- lower Fixed Income Markets revenue, reflecting the net impact of declines in revenue across macro businesses and higher revenue in Securitized Products.

Principal transactions revenue in CIB generally has offsets across other revenue lines, including net interest income. The Firm assesses the performance of its Markets business on a total net revenue basis.

The increase in CIB was partially offset by a net decrease in Corporate, reflecting lower revenue in Treasury and CIO, and gains compared with a net loss on certain legacy private equity investments in the prior year.

Refer to CIB segment and Corporate results on pages 77-83 and pages 88-90, respectively, and Note 6 for additional information.

## Lending- and deposit-related fees

increased, reflecting, in CIB, higher deposit-related fees, including cash management fees in Payments, on higher volume; and higher lending-related fees, including loan commitment fees. These factors were largely offset by a decline in the amortization of the fair value discount on certain acquired lending-related commitments associated with First Republic, primarily in AWM, as certain of the commitments have expired.

Refer to CIB and AWM segment results on pages 77-83 and pages 84-87, respectively, and Note 6 for additional information.

**Asset management fees** increased, reflecting, in AWM and CCB, higher average market levels and net inflows, as well as higher performance fees in AWM; and in CCB, the timing impact of First Republic. Refer to CCB and AWM segment results





**Commissions and other fees** increased, predominantly due to higher brokerage commissions and fees on higher volume, and higher custody fees, in both CIB and AWM, as well as higher annuity sales commissions in CCB. Refer to CCB, CIB and AWM segment results on pages 73–76, pages 77–83 and pages 84–87, respectively, and Note 6 for additional information.

**Investment securities losses**

decreased, reflecting lower losses on sales of securities, primarily U.S. Treasuries and U.S. GSE and government agency MBS, associated with repositioning the investment securities portfolio in Treasury and CIO. Refer to Corporate results on pages 88–90 and Note 10 for additional information.

**Mortgage fees and related income**

increased in Home Lending, reflecting higher production revenue, which included the timing impact of First Republic. Refer to CCB segment results on pages 73–76, and Note 6 and 15 for additional information.

**Card income** increased, reflecting higher net interchange on increased debit and credit card sales volume, as well as higher annual fees in CCB, partially offset by an increase in amortization related to new account origination costs. Refer to CCB segment results on pages 73–76 and Note 6 for additional information.

**Other income** increased, reflecting:

- in Corporate:
  - the \$7.9 billion net gain related to Visa shares recorded in the second quarter of 2024, partially offset by
  - the absence of the prior-year \$2.8 billion estimated bargain purchase gain associated with the First Republic acquisition, and
- in CIB:
  - the impact of the adoption of updates to the Accounting for Investments in Tax Credit Structures guidance effective January 1, 2024, resulting in the amortization of certain of the Firm's alternative energy tax-oriented investments previously recognized in other income which

Refer to AWM segment results on pages 84–87 for additional information on CIFM; Notes 1, 6, 14 and 25 for additional information on the adoption of updates to the Accounting for Investments in Tax Credit Structures guidance; Notes 2 and 6 for additional information on Visa shares; and Notes 6 and 34 for additional information on the First Republic acquisition.

**Net interest income** increased driven by the impact of balance sheet actions, primarily reinvestments in the investment securities portfolio, higher revolving balances in Card Services, the timing impact of First Republic, higher wholesale deposit balances and higher Markets net interest income. These factors were largely offset by deposit margin compression across the lines of business and lower average deposit balances in CCB.

The Firm's average interest-earning assets were \$3.5 trillion, up \$212 billion, and the yield was 5.50%, up 36 bps. The net yield on these assets, on an FTE basis, was 2.63%, a decrease of 7 bps. The net yield excluding Markets was 3.84%, relatively flat when compared to the prior year.

Refer to the Consolidated average balance sheets, interest and rates schedule on pages 322–326 for additional information. Net yield excluding Markets is a non-GAAP financial measure. Refer to Explanation and Reconciliation of the Firm's Use of Non-GAAP Financial Measures on pages 67–69 for an additional discussion of net yield excluding Markets.







## Provision for credit losses

Year ended December 31, (in millions)	2024	2023	2022
Consumer, excluding credit card	\$ 631	\$ 935	\$ 506
Credit card	9,292	6,048	3,353
<b>Total consumer</b>	<b>9,923</b>	<b>6,983</b>	<b>3,859</b>
Wholesale	731	2,299	2,476
Investment securities	24	38	54
<b>Total provision for credit losses</b>	<b>\$ 10,678</b>	<b>\$ 9,320</b>	<b>\$ 6,389</b>

### 2024 compared with 2023

The **provision for credit losses** was \$10.7 billion, reflecting \$8.6 billion of net charge-offs and a \$2.0 billion net addition to the allowance for credit losses.

Net charge-offs included \$7.8 billion in **consumer**, predominantly driven by Card Services, reflecting the seasoning of vintages originated in recent years, credit normalization and balance growth, and \$0.8 billion in **wholesale**, primarily in Real Estate, largely concentrated in Office.

The net addition to the allowance for credit losses consisted of:

- \$2.1 billion in **consumer**, reflecting:
  - a \$2.2 billion net addition in Card Services, predominantly driven by loan growth, reflecting higher revolving balances, including the seasoning of vintages originated in recent years,
- partially offset by
  - a \$125 million net reduction in Home Lending in the first quarter of 2024, and
- a net reduction of \$19 million in **wholesale**, reflecting:
  - changes in certain macroeconomic variables, an update to loss assumptions on certain loans in Markets, and a reduction due to charge-offs largely from collateral-dependent loans,

The provision in the prior year was \$9.3 billion, reflecting net charge-offs of \$6.2 billion and a \$3.1 billion net addition to the allowance for credit losses, which included \$1.2 billion to establish the allowance for the First Republic loans and lending-related commitments in the second quarter of 2023.

Refer to CCB, CIB and AWM segment and Corporate results on pages 73–76, pages 77–83, pages 84–87, and pages 88–90, respectively; Allowance for Credit Losses on pages 137–139; Critical Accounting Estimates Used by the Firm on pages 161–164; and Notes 12 and 13 for additional information on the credit portfolio and the allowance for credit losses.





## Noninterest expense

Year ended December 31, (in millions)	2024	2023	2022
Compensation expense	\$ 51,357	\$46,465	\$41,636
Noncompensation expense:			
Occupancy	5,026	4,590	4,696
Technology, communications and equipment <sup>(a)</sup>	9,831	9,246	9,358
Professional and outside services	11,057	10,235	10,174
Marketing	4,974	4,591	3,911
Other expense	9,552 <sup>(c)</sup>	12,045	6,365
<b>Total noncompensation expense</b>	<b>40,440</b>	<b>40,707</b>	<b>34,504</b>
<b>Total noninterest expense</b>	<b>\$ 91,797</b>	<b>\$87,172</b>	<b>\$76,140</b>
<b>Certain components of other expense<sup>(b)</sup></b>			
Legal expense	\$ 740	\$ 1,436	\$ 266
FDIC-related expense	1,893	4,203	860
Operating losses	1,417	1,228	1,101

(a) Includes depreciation expense associated with auto operating lease assets. Refer to Note 18 for additional information.

(b) Refer to Note 6 for additional information.

(c) Included a \$1.0 billion contribution of Visa shares to the JPMorgan Chase Foundation recorded in the second quarter of 2024. Refer to Notes 2 and 6 for additional information.

## 2024 compared with 2023

**Compensation expense** increased driven by:

- higher revenue-related compensation across the LOBs,
- growth in the number of employees across the LOBs and Corporate, primarily in front office and technology, and
- the impact of First Republic, predominantly in CCB, reflecting

- higher investments in technology in the businesses, as well as marketing, predominantly in CCB,
- higher occupancy expense, which included the impact of net additions to the Firm's properties,
- higher distribution fees in AWM and brokerage expense in CIB, and
- the timing impact associated with First Republic, offset by the alignment of expense to compensation expense, as noted above.

Refer to Notes 2 and 6 for additional information on Visa shares; Note 6 for additional information on other expense; and Note 34 for additional information on the First Republic acquisition.

## Income tax expense

Year ended December 31, (in millions, except rate)	2024	2023	2022
Income before income tax expense	\$ 75,081	\$ 61,612	\$ 46,166
Income tax expense	16,610 <sup>(a)</sup>	12,060	8,490
Effective tax rate	22.1 %	19.6 %	18.4 %

(a) Effective January 1, 2024, as a result of adopting updates to the Accounting for Investments in Tax Credit Structures guidance, the amortization of certain of the Firm's alternative energy tax-oriented investments is now recognized in income tax expense. Refer to Notes 1, 6, 14 and 25 for additional information.

## 2024 compared with 2023

The **effective tax rate** increased predominantly driven by:

- the adoption of updates to the Accounting for Investments in Tax Credit Structures guidance on January 1, 2024, and
- a higher level of pretax income and changes in the mix of income and expenses subject to U.S. federal, state and local taxes, including the impact of the net gain on Visa shares and the contribution of Visa



## CONSOLIDATED BALANCE SHEETS AND CASH FLOWS ANALYSIS

### Consolidated balance sheets analysis

The following is a discussion of the significant changes between December 31, 2024 and 2023. Refer to pages 161-164 for a discussion of the Critical Accounting Estimates Used by the Firm that affect the Consolidated Balance Sheets.

### Selected Consolidated balance sheets data

December 31, (in millions)	2024	2023	Change
<b>Assets</b>			
Cash and due from banks	\$ 23,372	\$ 29,066	(20)%
Deposits with banks	445,945	595,085	(25)
Federal funds sold and securities purchased under resale agreements	295,001	276,152	7
Securities borrowed	219,546	200,436	10
Trading assets	637,784	540,607	18
Available-for-sale securities	406,852	201,704	102
Held-to-maturity securities	274,468	369,848	(26)
<b>Investment securities, net of allowance for credit losses</b>	<b>681,320</b>	<b>571,552</b>	<b>19</b>
Loans	1,347,988	1,323,706	2
Allowance for loan losses	(24,345)	(22,420)	9
<b>Loans, net of allowance for loan losses</b>	<b>1,323,643</b>	<b>1,301,286</b>	<b>2</b>
Accrued interest and accounts receivable	101,223	107,363	(6)
Premises and equipment	32,223	30,157	7
Goodwill, MSRs and other intangible assets	64,560	64,381	—
Other assets	178,197	159,308	12
<b>Total assets</b>	<b>\$4,002,814</b>	<b>\$3,875,393</b>	<b>3 %</b>

**Cash and due from banks and deposits with banks** decreased driven by higher investment securities in Treasury and CIO, and Markets activities in CIB.

**Federal funds sold and securities purchased under resale agreements** increased driven by Markets, reflecting higher client-driven market-making activities.

**Securities borrowed** increased driven by Markets, reflecting a higher demand for securities to cover short positions.

Refer to Note 11 for additional information on securities purchased under resale agreements and securities borrowed.

**Trading assets** increased predominantly due to higher levels of debt and equity instruments in Markets related to client-driven market-making activities. Refer to Notes 2 and 5 for additional information.

**Investment securities** increased due to:

- higher available-for-sale ("AFS") securities, reflecting net purchases, primarily U.S. Treasuries and non-U.S. government debt securities, partially offset by maturities and paydowns, and
- lower held to-maturity ("HTM") securities driven by maturities and paydowns.

Refer to Corporate results on pages 88–90,

Investment Portfolio Risk Management on page 140, and Notes 2 and 10 for additional information.

**Loans** increased, reflecting:

- higher outstanding balances in Card Services driven by growth in new accounts and normalization of revolving balances,
- higher wholesale loans in CIB, and
- higher securities-based lending in AWM due to higher client demand, partially offset by
- a decline in Home Lending as paydowns and loan sales outpaced originations.

The **allowance for loan losses** increased, reflecting a net addition to the allowance for loan losses of \$1.9 billion, consisting of:

- \$2.1 billion net addition in **consumer**, primarily in Card Services, predominantly driven by loan growth, reflecting higher revolving balances, including the seasoning of vintages originated in recent years, partially offset by a net reduction in Home Lending in the first quarter of 2024, and
- a net reduction of \$176 million in **wholesale**, reflecting:
  - changes in certain macroeconomic variables, an update to loss assumptions on certain loans in

Markets, and a reduction due to charge-offs largely from collateral-dependent loans, predominantly offset by

- net downgrade activity, primarily in Real Estate, and the impact of incorporating the First Republic portfolio into the Firm's modeled credit loss estimates in the second quarter of 2024.

There was also a \$128 million net addition to the allowance for lending-related commitments recognized in other liabilities on the Consolidated balance sheets.

Refer to Consolidated Results of Operations and Credit and Investment Risk Management on pages 59-62 and pages 117-140, respectively, Critical Accounting Estimates Used by the Firm on pages 161-164, and Notes 2, 3, 12 and 13 for additional information on loans and the total allowance for credit losses.

#### **Accrued interest and accounts**

**receivable** decreased primarily driven by lower receivables in Payments related to the timing of processing payment activities, due to December 31, 2023 falling on a weekend, as well as lower client receivables related to client-driven activities in Markets.

**Premises and equipment** increased primarily as a result of the construction-in-process associated with the Firm's headquarters, and purchases of properties. Refer to Notes 16 and 18 for additional information.

#### **Goodwill, MSRs and other**

**intangibles**: Refer to Note 15 for additional information.

**Other assets** increased primarily due to higher cash collateral placed with central counterparties ("CCP") in Markets, the impact of the adoption of updates to the Accounting for Investments in Tax Credit Structures guidance effective January 1, 2024, and higher auto operating lease assets in CCB. Refer to Notes 1, 6, 14 and 25 for additional information on updates to the accounting guidance.



## Selected Consolidated balance sheets data (continued)

December 31, (in millions)	2024	2023	Change
<b>Liabilities</b>			
Deposits	\$2,406,032	\$2,400,688	—
Federal funds purchased and securities loaned or sold under repurchase agreements	296,835	216,535	37
Short-term borrowings	52,893	44,712	18
Trading liabilities	192,883	180,428	7
Accounts payable and other liabilities	280,672	290,307	(3)
Beneficial interests issued by consolidated variable interest entities ("VIEs")	27,323	23,020	19
Long-term debt	401,418	391,825	2
<b>Total liabilities</b>	<b>3,658,056</b>	<b>3,547,515</b>	<b>3</b>
Stockholders' equity	344,758	327,878	5
<b>Total liabilities and stockholders' equity</b>	<b>\$4,002,814</b>	<b>\$3,875,393</b>	<b>3 %</b>

### Deposits increased, reflecting:

- an increase in CIB due to net inflows predominantly in Payments, largely offset by net maturities of structured notes in Markets,
- an increase in AWM as a result of growth in balances in new and existing client accounts, reflecting the impact of higher-yielding product offerings, largely offset by continued migration into other investments, and
- a decline in CCB primarily driven by a decrease in balances in existing accounts due to increased customer spending and migration into higher-yielding investments, predominantly offset by new accounts.

**Federal funds purchased and securities loaned or sold under repurchase agreements** increased driven by Markets, reflecting higher client-driven market-making activities and higher secured financing of trading assets.

**Short-term borrowings** increased driven by Markets, reflecting net issuance of structured notes due to client demand, and higher financing requirements.

Refer to Liquidity Risk Management on pages 108-115 for additional information on deposits, federal funds purchased and securities loaned or sold under repurchase agreements, and short-term borrowings; Notes 2 and 17 for deposits; and Note 11 for federal funds purchased and securities loaned or sold under repurchase agreements.

**Trading liabilities** increased due to client-driven market-making activities primarily in Fixed Income Markets, which resulted in higher levels of short positions in debt instruments. Refer to Notes 2 and 5 for additional information.

**Accounts payable and other liabilities** decreased primarily driven by lower payables in Payments related to the timing of processing payment activities, due to December 31, 2023 falling on a weekend, as well as lower client payables related to client-driven activities in Markets, partially offset by the impact of the adoption of updates to the Accounting for Investments in Tax Credit Structures guidance effective January 1, 2024. Refer to Note 19 for additional information on accounts payable; and Notes 1, 6, 14 and 25 for additional information on updates to the accounting guidance.

**Beneficial interests issued by consolidated VIEs** increased driven by the issuance of credit card securitizations in Treasury and CIO, and activity in municipal bond vehicles in CIB.

Refer to Liquidity Risk Management on pages 108–115; and Notes 14 and 28 for additional information on Firm-sponsored VIEs and loan securitization trusts.

**Long-term debt** increased, primarily driven by:

- net issuances of structured notes in Markets due to client demand, partially offset by
- a decline in Treasury and CIO, reflecting the net impact of lower FHLB advances and higher long-term debt from net issuances.

Refer to Liquidity Risk Management on pages 108–115 and Note 34 for additional information on the First Republic acquisition.

**Stockholders' equity** increased, reflecting:

- net income, largely offset by
- the impact of capital actions, including repurchases of common shares, the declaration of common and preferred stock dividends, and net redemption of preferred stock, and
- net unrealized losses in AOCI, including the impact of higher interest rates on cash flow hedges in Treasury and CIO.

Refer to Consolidated Statements of changes in stockholders' equity on page 175, Capital Actions on page 105, and Note 24 for additional information.



## Consolidated cash flows analysis

The following is a discussion of cash flow activities during the years ended December 31, 2024 and 2023. Refer to Consolidated cash flows analysis on page 61 of the Firm's 2023 Form 10-K for a discussion of the 2022 activities.

(in millions)	Year ended December 31,		
	2024	2023	2022
Net cash provided by/ (used in)			
Operating activities	\$ (42,012)	\$12,974	\$ 107,119
Investing activities	(163,403)	67,643	(137,819)
Financing activities	63,447	(25,571)	(126,257)
Effect of exchange rate changes on cash	(12,866)	1,871	(16,643)
Net increase/ (decrease) in cash and due from banks and deposits with banks	\$ (154,834)	\$56,917	\$ (173,600)

### Operating activities

JPMorganChase's operating assets and liabilities primarily support the Firm's lending and capital markets activities. These assets and liabilities can vary significantly in the normal course of business due to the amount and timing of cash flows, which are affected by client-driven and risk management activities and market conditions. The Firm believes that cash flows from operations, available cash and other liquidity sources, and its capacity to generate cash through secured and unsecured sources, are sufficient to meet its operating liquidity needs.

- In 2024, cash used resulted from higher trading assets and higher securities borrowed, largely offset by net income.

### Investing activities

The Firm's investing activities predominantly include originating held-for-investment loans, investing in the investment securities portfolio and other short-term instruments.

- In 2024, cash used resulted from net purchases of investment securities, net loan originations and higher securities purchased under resale agreements, partially offset by proceeds from sales and securitizations of loans held-for-investment.
- In 2023, cash provided resulted from net proceeds from investment securities, proceeds from sales and securitizations of loans held-for-investment, and lower securities purchased under resale agreements, largely offset by net originations of loans and net cash used in the First Republic Bank acquisition.

### Financing activities

The Firm's financing activities include acquiring customer deposits and issuing long-term debt and preferred stock.

- In 2024, cash provided primarily reflected higher securities loaned or sold under repurchase agreements and net proceeds from long- and short-term borrowings, partially offset by net redemption of preferred stock.
- In 2023, cash used reflected lower deposits, which included the impact of the repayment of the deposits provided to First Republic Bank by the consortium of large U.S. banks that the Firm assumed as part of the First Republic acquisition, partially offset by higher securities loaned under repurchase agreements and net proceeds from long- and short-term borrowings.
- For both periods, cash was used for repurchases of common stock and cash dividends on common and preferred stock.

\* \* \*

Refer to Consolidated Balance Sheets Analysis on pages 63-65, Capital Risk Management on pages 97-107, and Liquidity Risk Management on pages



## EXPLANATION AND RECONCILIATION OF THE FIRM'S USE OF NON-GAAP FINANCIAL MEASURES

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### Non-GAAP financial measures

The Firm prepares its Consolidated Financial Statements in accordance with U.S. GAAP; these financial statements appear on pages 172–176. That presentation, which is referred to as “reported” basis, provides the reader with an understanding of the Firm’s results that can be tracked consistently from year-to-year and enables a comparison of the Firm’s performance with the U.S. GAAP financial statements of other companies.

In addition to analyzing the Firm’s results on a reported basis, management reviews Firmwide results, including the overhead ratio, on a “managed” basis; these Firmwide managed basis results are non-GAAP financial measures. The Firm also reviews the results of the lines of business on a managed basis. The Firm’s definition of managed basis starts, in each case, with the reported U.S. GAAP results and includes certain reclassifications to present total net revenue for the Firm as a whole, and for each of the reportable business segments and Corporate, on an FTE basis. Accordingly, revenue from investments that receive tax credits and tax-exempt securities is presented in the managed results on a basis comparable to taxable investments and securities. These financial measures

allow management to assess the comparability of revenue from year-to-year arising from both taxable and tax-exempt sources. The corresponding income tax impact related to tax-exempt items is recorded within income tax expense. These adjustments have no impact on net income as reported by the Firm as a whole or by each of the lines of business and Corporate.

Management also uses certain non-GAAP financial measures at the Firm and business-segment levels because these other non-GAAP financial measures provide information to investors about the underlying operational performance and trends of the Firm or of the particular business segment, as the case may be, and therefore facilitate a comparison of the Firm or the business segment with the performance of its relevant competitors. Refer to Business Segment & Corporate Results on pages 70–90 for additional information on these non-GAAP measures. Non-GAAP financial measures used by the Firm may not be comparable to similarly named non-GAAP financial measures used by other companies.

The following summary table provides a reconciliation from the Firm’s reported U.S. GAAP results to managed basis.

Year ended December 31, (in millions, except ratios)	2024			2023			2022		
	Reported	Fully taxable- equivalent adjustments <sup>(b)</sup>	Managed basis	Reported	Fully taxable- equivalent adjustments <sup>(b)</sup>	Managed basis	Reported	Fully taxable- equivalent adjustments <sup>(b)</sup>	Managed basis
Other income	\$12,462	<sup>(a)</sup> \$ 2,560	<sup>(a)</sup> \$15,022	\$ 5,609	\$ 3,782	\$ 9,391	\$ 4,322	\$ 3,148	\$ 7,470
Total noninterest revenue	84,973	2,560	87,533	68,837	3,782	72,619	61,985	3,148	65,133
Net interest income	92,583	477	93,060	89,267	480	89,747	66,710	434	67,144
<b>Total net revenue</b>	<b>177,556</b>	<b>3,037</b>	<b>180,593</b>	158,104	4,262	162,366	128,695	3,582	132,277
Total noninterest expense	91,797	NA	91,797	87,172	NA	87,172	76,140	NA	76,140
<b>Pre- provision profit</b>	<b>85,759</b>	<b>3,037</b>	<b>88,796</b>	70,932	4,262	75,194	52,555	3,582	56,137
Provision for credit losses	10,678	NA	10,678	9,320	NA	9,320	6,389	NA	6,389
<b>Income before income tax expense</b>	<b>75,081</b>	<b>3,037</b>	<b>78,118</b>	61,612	4,262	65,874	46,166	3,582	49,748
Income tax expense	16,610	<sup>(a)</sup> 3,037	<sup>(a)</sup> 19,647	12,060	4,262	16,322	8,490	3,582	12,072
<b>Net income</b>	<b>\$58,471</b>	<b>NA</b>	<b>\$58,471</b>	\$49,552	NA	\$49,552	\$37,676	NA	\$37,676
Overhead ratio	52 %	NM	51 %	55 %	NM	54 %	59 %	NM	58 %

(a) Effective January 1, 2024, the Firm adopted updates to the Accounting for Investments in Tax Credit Structures guidance, under the modified retrospective method. Refer to Notes 1, 6, 14 and 25 for additional information.

(b) Predominantly recognized in CIB and Corporate.





## Net interest income, net yield, and noninterest revenue excluding Markets

In addition to reviewing net interest income, net yield, and noninterest revenue on a managed basis, management also reviews these metrics excluding Markets, as shown below. Markets consists of CIB's Fixed Income Markets and Equity Markets. These metrics, which exclude Markets, are non-GAAP financial measures. Management reviews these metrics to assess the performance of the Firm's lending, investing (including asset-liability management) and deposit-raising activities, apart from any volatility associated with Markets activities. In addition, management also assesses Markets business performance on a total revenue basis as offsets may occur across revenue lines. Management believes that these measures provide investors and analysts with alternative measures to analyze the revenue trends of the Firm.

Year ended December 31, (in millions, except rates)	2024	2023	2022
<b>Net interest income - reported<sup>(a)</sup></b>	<b>\$ 92,583</b>	<b>\$ 89,267</b>	<b>\$ 66,710</b>
Fully taxable-equivalent adjustments	477	480	434
<b>Net interest income - managed basis</b>	<b>\$ 93,060</b>	<b>\$ 89,747</b>	<b>\$ 67,144</b>
Less: Markets net interest income <sup>(b)</sup>	641	(294)	4,789
<b>Net interest income excluding Markets</b>	<b>\$ 92,419</b>	<b>\$ 90,041</b>	<b>\$ 62,355</b>

- (a) Includes the effect of derivatives that qualify for hedge accounting. Taxable-equivalent amounts are used, also where applicable. Refer to Note 5 for additional information on hedge accounting.
- (b) Refer to pages 81-82 for further information on Markets.
- (c) Effective January 1, 2024, the Firm adopted updates to the Accounting for Investment in Tax Credit Stricture guidance, under the modified retrospective method. Refer to Notes 1, 6, 14 and 25 for additional information.
- (d) Includes the market-related revenues of the former Commercial Banking business segment. Prior-period amounts have been revised to conform with the current presentation.

## Calculation of certain U.S. GAAP and non-GAAP financial measures

Certain U.S. GAAP and non-GAAP financial measures are calculated as follows:

### Book value per share ("BVPS")

Common stockholders' equity at period-end / Common shares at period-end

### Overhead ratio

Total noninterest expense / Total net revenue

### ROA

Reported net income / Total average assets

### ROE

Net income\* / Average common stockholders' equity

### ROTCE

Net income\* / Average tangible common equity

### TBVPS

Tangible common equity at period-end / Common shares at period-end

\* Represents net income applicable to common equity

In addition, the Firm reviews other non-GAAP measures such as:

- Adjusted expense, which represents noninterest expense excluding Firmwide legal expense, and
- Pre-provision profit, which represents total net revenue less total noninterest expense.

Management believes that these measures help investors to understand the effect of these items on reported results and provide an alternative presentation of the Firm's performance.



### TCE, ROTCE and TBVPS

TCE, ROTCE and TBVPS are each non-GAAP financial measures. TCE represents the Firm's common stockholders' equity (i.e., total stockholders' equity less preferred stock) less goodwill and identifiable intangible assets (other than MSRs), net of related deferred tax liabilities. ROTCE measures the Firm's net income applicable to common equity as a percentage of average TCE. TBVPS represents the Firm's TCE at period-end divided by common shares at period-end. TCE, ROTCE and TBVPS are utilized by the Firm, as well as investors and analysts, in assessing the Firm's use of equity.

The following summary table provides a reconciliation from the Firm's common stockholders' equity to TCE.

(in millions, except per share and ratio data)	Period-end		Average		
	Dec 31, 2024	Dec 31, 2023	Year ended December 31,		
			2024	2023	2022
Common stockholders' equity	\$ 324,708	\$ 300,474	\$ 312,370	\$ 282,056	\$ 253,068
Less: Goodwill	52,565	52,634	52,627	52,258	50,952
Less: Other intangible assets	2,874	3,225	3,042	2,572	1,112
Add: Certain deferred tax liabilities <sup>(a)</sup>	2,943	2,996	2,970	2,883	2,505
<b>Tangible common equity</b>	<b>\$ 272,212</b>	<b>\$ 247,611</b>	<b>\$ 259,671</b>	<b>\$ 230,109</b>	<b>\$ 203,509</b>
Return on tangible common equity	NA	NA	22 %	21 %	18 %
Tangible book value per share	\$ 97.30	\$ 86.08	NA	NA	NA

(a) Represents deferred tax liabilities related to tax-deductible goodwill and to identifiable intangibles created in nontaxable transactions, which are netted against goodwill and other intangibles when calculating TCE.

## BUSINESS SEGMENT & CORPORATE RESULTS

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The Firm is managed on an LOB basis. Effective in the second quarter of 2024, the Firm reorganized its reportable business segments by combining the former Corporate & Investment Bank and Commercial Banking business segments to form one reportable segment, the Commercial & Investment Bank (“CIB”). As a result of the reorganization, the Firm has three reportable business segments – Consumer & Community Banking, Commercial & Investment Bank, and Asset & Wealth Management – with the remaining activities in Corporate.

The business segments are determined based on the products and services provided, or the type of customer served, and they reflect the manner in which financial information is evaluated by the Firm’s Operating Committee, whose members act collectively as the Firm’s chief operating decision maker. Segment results are presented on a managed basis. Refer to Explanation and Reconciliation of the Firm’s use of Non-GAAP Financial Measures, on pages 67–69 for a definition of managed basis.

The following table depicts the Firm’s reportable business segments.

25\_CIB-CB consolidation\_01A.jpg

### Description of business segment reporting methodology

Results of the reportable business segments are intended to present each segment as if it were a stand-alone business. The management reporting process that derives business segment results includes the allocation of certain income and expense items. The Firm periodically assesses the assumptions, methodologies and reporting classifications used for segment reporting, and therefore further refinements may be implemented in future periods. The Firm also assesses the level of capital required for each LOB on at least an annual basis. The Firm’s LOBs also provide various business metrics which are utilized by the Firm and its investors and analysts in assessing performance.

#### *Revenue sharing*

When business segments or businesses within each segment join efforts to sell products and services to the Firm’s clients and customers, the participating businesses may agree to share revenue from those transactions. Revenue is generally recognized in the segment responsible for the related product or service, with allocations to the other segments or businesses involved in the transaction. The segment and business results reflect these revenue-sharing agreements.



#### *Expense allocation*

Where business segments use services provided by Corporate support units, or another business segment, the costs of those services are allocated to the respective business segments. The expense is generally allocated based on the actual cost and use of services provided. In contrast, certain costs and investments related to Corporate that are not currently utilized by any LOB are not allocated to the business segments and are retained in Corporate. Expense retained in Corporate generally includes costs that would not be incurred if the segments were stand-alone businesses, and other items not solely aligned with a particular reportable business segment.

#### *Funds transfer pricing*

Funds transfer pricing ("FTP") is the process by which the Firm allocates interest income and expense to the LOBs and Other Corporate and transfers the primary interest rate risk and liquidity risk to Treasury and CIO.

The funds transfer pricing process considers the interest rate and liquidity risk characteristics of assets and liabilities and off-balance sheet products. Periodically, the methodology and assumptions utilized in the FTP process are adjusted to reflect economic conditions and other factors, which may impact the allocation of net interest income to the segments. Effective in the fourth quarter of 2024, the Firm updated its FTP with respect to consumer deposits, which resulted in an increase in the funding benefit reflected within CCB's net interest income that is fully offset in Corporate, with no effect on the Firm's net interest income.

As a result of higher average interest rates, the cost of funds for assets and the FTP benefit earned for liabilities have generally increased in the current year, impacting the net interest income of the business segments. During the period ended December 31, 2024, this has resulted

#### *Debt expense and preferred stock dividend allocation*

As part of the FTP process, almost all of the cost of the credit spread component of outstanding unsecured long-term debt and preferred stock dividends is allocated to the reportable business segments, while the balance of the cost is retained in Corporate. The methodology to allocate the cost of unsecured long-term debt and preferred stock dividends to the business segments is aligned with the relevant regulatory capital requirements and funding needs of the LOBs, as applicable. The allocated cost of unsecured long-term debt is included in a business segment's net interest income, and net income is reduced by preferred stock dividends, to arrive at a business segment's net income applicable to common equity. Refer to Capital Risk Management on pages 97-107 for additional information.

#### *Capital allocation*

The amount of capital assigned to each LOB and Corporate is referred to as equity. The Firm's current equity allocation methodology incorporates Basel III Standardized risk-weighted assets ("RWA") and the global systemically important banks ("GSIB") surcharge, both under rules currently in effect, as well as a simulation of capital depletion in a severe stress environment. At least annually, the assumptions, judgments and methodologies used to allocate capital are reassessed and, as a result, the capital allocated to the LOBs and Corporate may change. Refer to Line of business and Corporate equity on page 104 for additional information on capital allocation.



**Segment & Corporate Results – Managed Basis**

The following tables summarize the Firm's results by business segments and Corporate for the periods indicated.



Year ended December 31, (in millions, except ratios)	Consumer & Community Banking			Commercial & Investment Bank			Asset & Wealth Management		
	2024	2023	2022	2024	2023	2022	2024	2023	2022
Total net revenue	\$ 71,507	\$ 70,148	\$ 54,814 <sup>(a)</sup>	\$70,114	\$ 64,353	\$ 59,635 <sup>(a)</sup>	\$21,578	\$ 19,827	\$ 17,748
Total noninterest expense	38,036	34,819	31,208 <sup>(a)</sup>	35,353	33,972	32,069 <sup>(a)</sup>	14,414	12,780	11,829
Pre-provision profit/(loss)	33,471	35,329	23,606	34,761	30,381	27,566	7,164	7,047	5,919
Provision for credit losses	9,974	6,899	3,813	762	2,091	2,426	(68)	159	128
Net income/(loss)	17,603	21,232	14,916 <sup>(a)</sup>	24,846	20,272	19,138 <sup>(a)</sup>	5,421	5,227	4,365
Return on equity ("ROE")	32 %	38 %	29 %	18 %	14 %	14 %	34 %	31 %	25 %

Year ended December 31, (in millions, except ratios)	Corporate			Total		
	2024	2023	2022	2024	2023	2022
Total net revenue	\$ 17,394 <sup>(b)</sup>	\$ 8,038	\$ 80	\$ 180,593 <sup>(b)</sup>	\$ 162,366	\$ 132,277
Total noninterest expense	3,994 <sup>(c)</sup>	5,601	1,034	91,797 <sup>(c)</sup>	87,172	76,140
Pre-provision profit/(loss)	13,400	2,437	(954)	88,796	75,194	56,137
Provision for credit losses	10	171	22	10,678	9,320	6,389
Net income/(loss)	10,601	2,821	(743)	58,471	49,552	37,676
Return on equity ("ROE")	NM	NM	NM	18 %	17 %	14 %

- (a) In the first quarter of 2023, the allocations of revenue and expense to CCB associated with a Merchant Services revenue sharing agreement were discontinued and are now retained in Payments in CIB. Prior-period amounts have been revised to conform with the current presentation.
- (b) Included a \$7.9 billion net gain related to Visa shares recorded in the second quarter of 2024. Refer to Notes 2 and 6 for additional information.
- (c) Included a \$1.0 billion contribution of Visa shares to the JPMorgan Chase Foundation recorded in the second quarter of 2024. Refer to Notes 2 and 6 for additional information.

Refer to Note 32 for further details on total net revenue and total noninterest expense.

The following sections provide a comparative discussion of the Firm's results by business segments and Corporate as of or for the years ended December 31, 2024 and 2023, unless otherwise specified.

## CONSUMER & COMMUNITY BANKING

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Consumer & Community Banking offers products and services to consumers and small businesses through bank branches, ATMs, digital (including mobile and online) and telephone banking. CCB is organized into Banking & Wealth Management (including Consumer Banking, Business Banking and J.P. Morgan Wealth Management), Home Lending (including Home Lending Production, Home Lending Servicing and Real Estate Portfolios) and Card Services & Auto. Banking & Wealth Management offers deposit, investment and lending products, cash management, payments and services. Home Lending includes mortgage origination and servicing activities, as well as portfolios consisting of residential mortgages and home equity loans. Card Services issues credit cards and offers travel services. Auto originates and services auto loans and leases.

**Selected income  
statement data**

Year ended December 31, (in millions, except ratios)	2024	2023	2022
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**Revenue**

Lending- and deposit-related fees **\$ 3,387** \$ 3,356 \$ 3,316

Asset management fees **4,014** 3,282 2,734

Mortgage fees and related income **1,378** 1,175 1,236

Card income **3,139** 2,532 2,469

All other income<sup>(a)</sup> **4,731** 4,773 5,131

**Noninterest**

**revenue** **16,649** 15,118 14,886

Net interest income **54,858** 55,030 39,928

**Total net**

**revenue** **71,507** 70,148 54,814

Provision for credit losses **9,974** 6,899 3,813

**Noninterest  
expense**

Compensation expense **17,045** 15,171 13,092

Noncompensation expense<sup>(b)</sup> **20,991** 19,648 18,116

**Total**

**noninterest  
expense** **38,036** 34,819 <sup>(d)</sup> 31,208

**Income before**

**income tax  
expense** **23,497** 28,430 19,793

Income tax expense **5,894** 7,198 4,877

**Net income** **\$17,603** \$21,232 \$14,916

**Revenue by  
business**

Banking & Wealth Management **\$40,943** \$43,199 \$30,059

Home Lending **5,097** 4,140 3,674

Card Services & Auto **25,467** 22,809 21,081

**Mortgage fees**





### 2024 compared with 2023

Net income was \$17.6 billion, down 17%.

Net revenue was \$71.5 billion, up 2%.

Net interest income was \$54.9 billion, flat when compared with the prior year, reflecting:

- lower NII in Banking & Wealth Management ("BWM"), predominantly driven by deposit margin compression and lower average deposits,

offset by

- higher Card Services NII, predominantly driven by higher revolving balances, and
- the timing impact of First Republic in Home Lending.

Noninterest revenue was \$16.6 billion, up 10%, predominantly driven by:

- higher asset management fees reflecting higher average market levels, including the timing impact of First Republic and, to a lesser extent, net inflows, as well as higher commissions from annuity sales in BWM,
- higher card income, driven by higher net interchange reflecting increased debit and credit card sales volume, and higher annual fees, partially offset by an increase in amortization related to new account origination costs, as well as
- higher production revenue in Home Lending, including the timing impact of First Republic.

Refer to Note 6 for additional information on card income, asset management fees, and commissions and other fees; and Critical Accounting Estimates on pages 161-164 for additional information on the credit card rewards liability.

Refer to Executive Overview on page 54 and Note 34 for additional information on First Republic.

Noninterest expense was \$38.0 billion, up 9%, reflecting First Republic-related expense that was aligned to CCB from Corporate starting in the third quarter of 2023, impacting both compensation and

The provision for credit losses was \$10.0 billion, reflecting:

- net charge-offs of \$7.9 billion, up \$2.6 billion, including \$2.4 billion in Card Services, reflecting the seasoning of vintages originated in recent years, credit normalization and balance growth, and
- a \$2.0 billion net addition to the allowance for credit losses, consisting of:

- \$2.2 billion in Card Services, predominantly driven by loan growth, reflecting higher revolving balances, including the seasoning of vintages originated in recent years,

partially offset by

- a \$125 million net reduction in Home Lending, primarily due to improvements in the outlook for home prices in the first quarter of 2024.

The provision in the prior year was \$6.9 billion, reflecting net charge-offs of \$5.3 billion, a \$1.2 billion net addition to the allowance for credit losses, predominantly driven by Card Services, and a \$408 million net addition to the allowance for credit losses to establish the allowance for the First Republic loans and lending-related commitments in the second quarter of 2023.

Refer to Credit and Investment Risk Management on pages 117-140 and Allowance for Credit Losses on pages 137-139 for a further discussion of the credit portfolios and the allowance for credit losses.







### Selected metrics

As of or for the year ended December 31, (in millions, except employees)	2024	2023	2022
<b>Selected balance sheet data (period- end)</b>			
Total assets	\$ 650,268	\$ 642,951	\$ 514,085
Loans:			
Banking & Wealth Management	33,221	31,142	29,008
Home Lending <sup>(a)</sup>	246,498	259,181	172,554
Card Services	233,016	211,175	185,175
Auto	73,619	77,705	68,191
<b>Total loans</b>	<b>586,354</b>	<b>579,203</b>	<b>454,928</b>
Deposits <sup>(b)</sup>	1,056,652	1,094,738	1,131,611
Equity	54,500	55,500	50,000
<b>Selected balance sheet data (average)</b>			
Total assets	\$ 631,648	\$ 584,367	\$ 497,263
Loans:			
Banking & Wealth Management	31,544	30,142	31,545
Home Lending <sup>(c)</sup>	252,542	232,115	176,285
Card Services	214,139	191,424	163,335
Auto	75,009	72,674	68,098
<b>Total loans</b>	<b>573,234</b>	<b>526,355</b>	<b>439,263</b>
Deposits <sup>(b)</sup>	1,064,215	1,126,552	1,162,680
Equity	54,500	54,349	50,000
<b>Employees</b>	<b>144,989</b>	<b>141,640</b>	<b>135,347</b>

(a) At December 31, 2024, 2023 and 2022, Home Lending loans held-for-sale and loans at fair value were \$8.1 billion, \$3.4 billion and \$3.0 billion, respectively.

### Selected metrics

As of or for the year ended December 31, (in millions, except ratio data)	2024	2023	2022
<b>Credit data and quality statistics</b>			
Nonaccrual loans <sup>(a)</sup>	\$ 3,366	\$ 3,740	\$ 3,899
Net charge- offs/ (recoveries)			
Banking & Wealth Management	442	340	370
Home Lending	(106)	(56)	(229)
Card Services	7,148	4,699	2,403
Auto	444	357	144
<b>Total net charge-offs/ (recoveries)</b>	<b>\$ 7,928</b>	<b>\$ 5,340</b>	<b>\$ 2,688</b>
Net charge- off/ (recovery) rate			
Banking & Wealth Management	1.40 %	1.13 %	1.17 %
Home Lending	(0.04)	(0.02)	(0.14)
Card Services	3.34	2.45	1.47
Auto	0.59	0.49	0.21
<b>Total net charge- off/ (recovery) rate</b>	<b>1.40 %</b>	<b>1.02 %</b>	<b>0.62 %</b>
30+ day delinquency rate			
Home Lending <sup>(b)</sup>	0.78 %	0.66 %	0.83 %
Card Services	2.17	2.14	1.45
Auto	1.43	1.19	1.01
90+ day delinquency			





## Selected metrics

As of or for the year ended December 31, (in billions, except ratios and where otherwise noted)	2024	2023	2022
<b>Business Metrics</b>			
CCB Consumer customers (in millions)	84.4	82.1	79.2
CCB Small business customers (in millions)	7.0	6.4	5.7
Number of branches	4,966	4,897	4,787
Active digital customers (in thousands) <sup>(a)</sup>	70,813	66,983	63,136
Active mobile customers (in thousands) <sup>(b)</sup>	57,821	53,828	49,710
Debit and credit card sales volume	\$1,805.4	\$1,678.6	\$1,555.4
Total payments transaction volume (in trillions) <sup>(c)</sup>	6.4	5.9	5.6
<b>Banking &amp; Wealth Management</b>			
Average deposits	\$1,049.3	\$1,111.7	\$1,145.7
Deposit margin	2.66 %	2.84 %	1.71 %
Business Banking average loans	\$ 19.5	\$ 19.6	\$ 22.3
Business Banking origination volume	4.5	4.8	4.3
Client investment assets <sup>(d)</sup>	1,087.6	951.1	647.1
Number of			

- (a) Users of all web and/or mobile platforms who have logged in within the past 90 days.
- (b) Users of all mobile platforms who have logged in within the past 90 days.
- (c) Total payments transaction volume includes debit and credit card sales volume and gross outflows of ACH, ATM, teller, wires, BillPay, PayChase, Zelle, person-to-person and checks.
- (d) Includes assets invested in managed accounts and J.P. Morgan mutual funds where AWM is the investment manager. Refer to AWM segment results on pages 84-87 for additional information.
- (e) Firmwide mortgage origination volume was \$47.4 billion, \$41.4 billion and \$81.8 billion for the years ended December 31, 2024, 2023 and 2022, respectively.



COMMERCIAL & INVESTMENT BANK<sup>(a)</sup>

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The Commercial & Investment Bank is comprised of the Banking & Payments and Markets & Securities Services businesses. These businesses offer investment banking, lending, payments, market-making, financing, custody and securities products and services to a global base of corporate and institutional clients. Banking & Payments offers products and services in all major capital markets, including advising on corporate strategy and structure, capital-raising in equity and debt markets, and loan origination and syndication. Banking & Payments also provides services that enable clients to manage payments globally across liquidity and account solutions, commerce solutions, clearing, trade, and working capital. Markets & Securities Services includes Markets, which is a global market-maker across products, including cash and derivative instruments, and also offers sophisticated risk management solutions, lending, prime brokerage, clearing and research. Markets & Securities Services also includes Securities Services, a leading global custodian that provides custody, fund services, liquidity and trading services, and data solutions products.

(a) Reflects the reorganization of the Firm's business segments in the second quarter of 2024. Refer to Business Segment & Corporate Results on pages 70-90 for additional information.

#### Selected income statement data

Year ended December 31, (in millions)	2024	2023	2022
<b>Revenue</b>			
Investment banking fees	\$ 9,116	\$ 6,631	\$ 6,977
Principal transactions	24,382	23,794	19,792
Lending- and deposit-related fees	3,914	3,423	3,662
Commissions and			

(a) Included tax equivalent adjustments primarily from income tax credits from investments in alternative energy, affordable housing and new markets, income from tax-exempt securities and loans, and the related amortization and other tax benefits of the investments in alternative energy and affordable housing of \$2.8 billion, \$4.0 billion and \$3.3 billion for the years ended December 31, 2024, 2023 and 2022, respectively. Effective January 1, 2024, the Firm adopted updates to the Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method guidance, under the modified retrospective method. Refer to Notes 1, 6, 14 and 25 for additional information.

#### Selected income statement data

Year ended December 31, (in millions, except ratios)	2024	2023	2022
<b>Financial ratios</b>			
Return on equity	18 %	14 %	14 %
Overhead ratio	50	53	54
Compensation expense as percentage of total net revenue	26	27	27
<b>Revenue by business</b>			
Investment Banking	\$ 9,636	\$ 7,076	\$ 7,205
Payments	18,085	17,818	13,490
Lending	7,470	6,896	5,882
Other	76	107	244
<b>Total Banking &amp; Payments</b>	<b>35,267</b>	<b>31,897</b>	<b>26,821</b>
Fixed Income Markets <sup>(a)</sup>	20,066	19,180	19,074
Equity Markets <sup>(a)</sup>	9,941	8,784	10,088
Securities Services	5,084	4,772	4,488
Credit Adjustments & other <sup>(b)</sup>	(241)	(222)	(226)





**Banking & Payments Revenue by Client Coverage Segment: <sup>(a)</sup>**

**Global Corporate Banking & Global Investment Banking** provides banking products and services generally to large corporations, financial institutions and merchants.

**Commercial Banking** provides banking products and services generally to middle market clients, including start-ups, small and mid-sized companies, local governments, municipalities, and nonprofits, as well as to commercial real estate clients.

**Other** includes amounts related to credit protection purchased against certain retained loans and lending-related commitments in Lending, the impact of equity investments in Payments and revenues not aligned with a primary client coverage segment.

(a) Global Banking is a client coverage view within the Banking & Payments business and is comprised of the Global Corporate Banking, Global Investment Banking and Commercial Banking client coverage segments.

**Selected  
income  
statement data**

Year ended December 31, (in millions)	2024	2023	2022
<b>Banking &amp; Payments revenue by client coverage segment</b>			
Global Corporate Banking & Global			
Investment Banking	<b>\$24,549</b>	\$21,700	\$19,325
Commercial Banking	<b>11,487</b>	11,050	7,906
Middle Market Banking	<b>7,759</b>	7,740	5,443
Commercial Real Estate Banking	<b>3,728</b>	3,310	2,463
Other	<b>(769)</b>	(853)	(410)
<b>Total Banking &amp; Payments revenue</b>	<b>\$35,267</b>	\$31,897	\$26,821



## 2024 compared with 2023

Net income was \$24.8 billion, up 23%. Net revenue was \$70.1 billion, up 9%. Banking & Payments revenue was \$35.3 billion, up 11%.

- Investment Banking revenue was \$9.6 billion, up 36%. Investment Banking fees were up 37%, driven by higher fees across products. The Firm ranked #1 for Global Investment Banking fees, according to Dealogic.
  - Debt underwriting fees were \$4.1 billion, up 55%, predominantly driven by higher industry-wide issuances in leveraged loans, and in high-grade and high-yield bonds.
  - Equity underwriting fees were \$1.7 billion, up 47%, driven by increased industry-wide fees and wallet share gains in IPOs, and in follow-on and convertible securities offerings.
  - Advisory fees were \$3.3 billion, up 17%, driven by increased industry-wide M&A activity and wallet share gains.
- Payments revenue was \$18.1 billion, up 1%, driven by fee growth on higher volumes as well as higher average deposits, predominantly offset by deposit margin compression, reflecting higher rates paid, and higher deposit-related client credits.
- Lending revenue was \$7.5 billion, up 8%, predominantly driven by the impacts of higher rates and the First Republic acquisition.

Markets & Securities Services revenue was \$34.8 billion, up 7%. Markets revenue was \$30.0 billion, up 7%.

- Equity Markets revenue was \$9.9 billion, up 13%, driven by higher revenue in Equity Derivatives and Prime Finance.
- Fixed Income Markets revenue was \$20.1 billion, up 5%, driven by higher revenue in the Securitized Products Group, Currencies & Emerging Markets, and Credit, largely offset by lower revenue in Rates and Commodities.
- Securities Services revenue was \$5.1 billion, up 7%, predominantly

Noninterest expense was \$35.4 billion, up 4%, driven by higher compensation expense, including revenue-related compensation and an increase in the number of employees, as well as higher technology and brokerage expense partially offset by lower legal expense.

The provision for credit losses was \$762 million, reflecting:

- net charge-offs of \$617 million, primarily in Real Estate, largely concentrated in Office, and
- a \$145 million net addition to the allowance for credit losses, driven by
  - net downgrade activity, primarily in Real Estate, and the impact of incorporating the First Republic portfolio into the Firm's modeled credit loss estimates in the second quarter of 2024,
  - changes in certain macroeconomic variables, an update to loss assumptions on certain loans in Markets, and a reduction due to charge-offs predominantly from collateral-dependent loans.

The provision in the prior year was \$2.1 billion, reflecting a \$1.5 billion net addition to the allowance for credit losses, which included \$608 million to establish the allowance for the First Republic loans and lending-related commitments in the second quarter of 2023, and net charge-offs of \$588 million.





## Selected metrics

As of or for the year ended December 31, (in millions, except employees)	2024	2023	2022
---	------	------	------

### Selected balance sheet data (period- end)

Total  
assets **\$1,773,194** \$1,638,493 \$1,591,402

Loans:

Loans  
retained **483,043** 475,186 421,521

Loans  
held-for-  
sale and  
loans at  
fair  
value<sup>(a)</sup> **40,324** 39,464 43,011

**Total  
loans** **523,367** 514,650 464,532

Equity **132,000** 138,000 128,000

### Banking & Payments loans by client coverage segment (period- end)<sup>(b)</sup>

Global  
Corporate  
Banking &  
Global  
Investment

Banking **\$ 125,083** \$ 128,097 \$ 128,165

Commercial  
Banking **217,674** 221,550 180,624

Middle  
Market  
Banking **72,814** 78,043 72,625

Commercial  
Real  
Estate  
Banking **144,860** 143,507 107,999

Other **187** 526 122

**Total  
Banking &**

## Selected metrics

As of or for the year ended December 31, (in millions, except ratios)	2024	2023	2022
---	------	------	------

### Credit data and quality statistics

Net charge-offs/  
(recoveries) **\$ 689** <sup>(d)</sup> \$ 588 \$ 166

Nonperforming  
assets:

Nonaccrual  
loans:

Nonaccrual  
loans  
retained<sup>(a)</sup> **\$3,258** \$1,675 \$1,484

Nonaccrual  
loans held-  
for-sale and  
loans at fair  
value<sup>(b)</sup> **1,502** 828 848

**Total  
nonaccrual  
loans** **4,760** 2,503 2,332

Derivative  
receivables **145** 364 296

Assets  
acquired in  
loan  
satisfactions **213** 169 87

**Total  
nonperforming  
assets** **\$5,118** \$3,036 \$2,715

Allowance for  
credit losses:

Allowance for  
loan losses **\$7,294** \$7,326 \$5,616

Allowance for  
lending-  
related  
commitments **1,976** 1,849 2,278

**Total allowance  
for credit  
losses** **\$9,270** \$9,175 \$7,894

Net charge-off/  
(recovery)  
rate<sup>(c)</sup> **0.14 %** 0.13 % 0.04 %

Allowance for  
loan losses to  
period-end





## Investment banking fees

Year ended December 31, (in millions)	2024	2023	2022
Advisory	\$ 3,290	\$ 2,814	\$ 3,051
Equity underwriting	1,692	1,151	1,034
Debt underwriting <sup>(a)</sup>	4,134	2,666	2,892
<b>Total investment banking fees</b>	<b>\$ 9,116</b>	<b>\$ 6,631</b>	<b>\$ 6,977</b>

(a) Represents long-term debt and loan syndications.

## League table results – wallet share

Year ended December 31,	2024		2023		2022	
	Rank	Share	Rank	Share	Rank	Share
Based on fees <sup>(a)</sup>						
<b>M&amp;A<sup>(b)</sup></b>						
Global	# 1	9.6 %	# 2	9.0 %	# 2	7.9 %
U.S.	1	11.4	2	10.9	2	8.9
<b>Equity and equity-related<sup>(c)</sup></b>						
Global	1	11.0	1	7.7	2	5.7
U.S.	1	14.7	1	14.4	1	14.0
<b>Long-term debt<sup>(d)</sup></b>						
Global	1	7.6	1	7.0	1	6.9
U.S.	1	11.4	1	10.9	1	12.1
<b>Loan syndications</b>						
Global	1	10.2	1	11.9	1	11.0
U.S.	1	11.8	1	15.1	1	12.9
<b>Global investment banking fees<sup>(e)</sup></b>	<b># 1</b>	<b>9.3 %</b>	<b># 1</b>	<b>8.6 %</b>	<b># 1</b>	<b>7.8 %</b>

(a) Source: Dealogic as of January 2, 2025. Reflects the ranking of revenue wallet and market share.

(b) Global M&A excludes any withdrawn transactions. U.S. M&A revenue wallet represents wallet from client parents based in the U.S.

(c) Global equity and equity-related ranking includes rights offerings and Chinese A-Shares.

(d) Long-term debt rankings include investment-grade, high-yield, supranationals, sovereigns, agencies, covered bonds, asset-backed securities ("ABS") and mortgage-backed securities ("MBS"); and exclude money market, short-term debt and U.S. municipal securities.

(e) Global investment banking fees exclude money market, short-term debt and shelf securities.

## Markets revenue

The following table summarizes selected income statement data for the Markets businesses. Markets includes both Fixed Income Markets and Equity Markets. Markets revenue consists of principal transactions, fees, commissions and other income, as well as net interest income. The Firm assesses its Markets business performance on a total revenue basis, as offsets generally occur across revenue line items. For example, securities that generate net interest income may be risk-managed by derivatives that are reflected at fair value in principal transactions revenue. Refer to Notes 6 and 7 for a description of the composition of these income statement line items.

Principal transactions reflects revenue on financial instruments and commodities transactions that arise from client-driven market-making activity. Principal transactions revenue includes amounts recognized upon executing new transactions with market participants, as well as "inventory-related revenue," which is revenue recognized from gains and losses on derivatives and other instruments that the Firm has been holding in anticipation of, or in response to, client demand, and changes in the fair value of instruments

used by the Firm to actively manage the risk exposure arising from such inventory. Principal transactions revenue recognized upon executing new transactions with market participants is affected by many factors including the level of client activity, the bid-offer spread (which is the difference between the price at which a market participant is willing and able to sell an instrument to the Firm and the price at which another market participant is willing and able to buy it from the Firm, and vice versa), market liquidity and volatility. These factors are interrelated and sensitive to the same factors that drive inventory-related revenue, which include general market conditions, such as interest rates, foreign exchange rates, credit spreads, and equity and commodity prices, as well as other macroeconomic conditions.

For the periods presented below, the primary source of principal transactions revenue was the amount recognized upon executing new transactions.

Year ended December 31, (in millions, except where otherwise noted)	2024			2023			2022		
	Fixed Income Markets	Equity Markets	Total Markets	Fixed Income Markets <sup>(c)</sup>	Equity Markets <sup>(c)</sup>	Total Markets	Fixed Income Markets <sup>(c)</sup>	Equity Markets <sup>(c)</sup>	Total Markets
Principal transactions	\$10,603	\$13,526	\$24,129	\$ 13,198	\$ 10,380	\$23,578	\$ 12,244	\$ 8,284	\$20,528
Lending- and deposit-related fees	391	100	491	307	40	347	303	22	325
Commissions and other fees	605	2,086	2,691	596	1,908	2,504	550	1,975	2,525
All other income	2,120	(65)	2,055	1,908	(79)	1,829	1,083	(88)	995
<b>Noninterest revenue</b>	<b>13,719</b>	<b>15,647</b>	<b>29,366</b>	<b>16,009</b>	<b>12,249</b>	<b>28,258</b>	<b>14,180</b>	<b>10,193</b>	<b>24,373</b>
Net interest income <sup>(a)</sup>	6,347	(5,706)	641	3,171	(3,465)	(294)	4,894	(105)	4,789
<b>Total net revenue</b>	<b>\$20,066</b>	<b>\$ 9,941</b>	<b>\$30,007</b>	<b>\$ 19,180</b>	<b>\$ 8,784</b>	<b>\$27,964</b>	<b>\$ 19,074</b>	<b>\$ 10,088</b>	<b>\$29,162</b>
<b>Loss days<sup>(b)</sup></b>	<b>1</b>			<b>2</b>			<b>7</b>		

(a) The decline in Equity Markets net interest income was driven by higher funding costs.

(b) Markets consists of Fixed Income Markets and Equity Markets. Loss days represent the number of days for which Markets recorded losses in total net revenue, which includes revenue related to both trading and non-trading positions. The loss days determined under this measure differ from the measure used to determine backtesting gains and losses. Daily backtesting gains and losses include positions in the Firm's Risk Management value-at-risk ("VaR") measure and exclude certain components of total net revenue, which may more than offset backtesting gains or losses on a particular day. For more information on daily backtesting gains and losses, refer to the VaR discussion on pages 143-145.

(c) In the fourth quarter of 2024, certain net funding costs that were previously allocated to Fixed Income Markets were reclassified to Equity Markets. Prior-period amounts have been revised to conform with the current presentation.

## Selected metrics

As of or for the year ended December 31,  
(in millions, except where otherwise noted)

	2024	2023	2022
Assets under custody ("AUC") by asset class (period-end) (in billions):			
Fixed Income	\$ 16,409	\$ 15,543	\$ 14,361
Equity	14,848	12,927	10,748
Other <sup>(a)</sup>	4,023	3,922	3,526
<b>Total AUC</b>	<b>\$ 35,280</b>	<b>\$ 32,392</b>	<b>\$ 28,635</b>
Client deposits and other third-party liabilities (average) (b)	\$ 961,646	\$ 912,859	\$ 981,653

(a) Consists of mutual funds, unit investment trusts, currencies, annuities, insurance contracts, options and other contracts.

(b) Client deposits and other third-party liabilities pertain to the Payments and Securities Services businesses.

JPMorgan Chase & Co./2024 Form

## International metrics

As of or for the year ended December 31, (in millions, except where otherwise noted)	2024	2023	2022
<b>Total net revenue<sup>(a)</sup></b>			
Europe/Middle East/Africa	\$ 15,191	\$ 14,418	\$ 15,716
Asia-Pacific	8,867	7,891	8,043
Latin America/Caribbean	2,427	2,161	2,288
<b>Total international net revenue</b>	<b>26,485</b>	<b>24,470</b>	<b>26,047</b>
North America	43,629	39,883	33,588
<b>Total net revenue</b>	<b>\$ 70,114</b>	<b>\$ 64,353</b>	<b>\$ 59,635</b>
<b>Loans retained (period-end)<sup>(a)</sup></b>			
Europe/Middle East/Africa	\$ 44,374	\$ 44,793	\$ 40,715
Asia-Pacific	16,107	15,506	16,764
Latin America/Caribbean	10,331	8,610	8,866
<b>Total international loans</b>	<b>70,812</b>	<b>68,909</b>	<b>66,345</b>
North America	412,231	406,277	355,176
<b>Total loans retained</b>	<b>\$ 483,043</b>	<b>\$ 475,186</b>	<b>\$ 421,521</b>
<b>Client deposits and other third-party liabilities (average)<sup>(b)</sup></b>			
Europe/Middle East/Africa	\$ 264,227	\$ 247,804	\$ 265,061
Asia-Pacific	141,042	135,388	136,539
Latin America/Caribbean	42,716	39,861	40,531
<b>Total international</b>	<b>\$ 447,985</b>	<b>\$ 423,053</b>	<b>\$ 442,131</b>
North America	513,661	489,806	539,522
<b>Total client deposits and other third-party liabilities</b>	<b>\$ 961,646</b>	<b>\$ 912,859</b>	<b>\$ 981,653</b>
<b>AUC (period-end)<sup>(b)</sup> (in billions)</b>			
North America	\$ 23,845	\$ 21,792	\$ 19,219
All other regions	11,435	10,600	9,416
<b>Total AUC</b>	<b>\$ 35,280</b>	<b>\$ 32,392</b>	<b>\$ 28,635</b>

(a) Total net revenue and loans retained (excluding loans held-for-sale and loans at fair value) are based on the location of the trading desk, booking location, or domicile of the client, as applicable.

(b) Client deposits and other third-party liabilities pertaining to the Payments and Securities Services businesses, and AUC, are based on the domicile of the client or booking location, as applicable.

## ASSET & WEALTH MANAGEMENT

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Asset & Wealth Management, with client assets of \$5.9 trillion, is a global leader in investment and wealth management.

#### Asset Management

Offers multi-asset investment management solutions across equities, fixed income, alternatives and money market funds to institutional and retail investors providing for a broad range of clients' investment needs.

#### Global Private Bank

Provides retirement products and services, brokerage, custody, estate planning, lending, deposits and investment management to high net worth clients.

The majority of AWM's client assets are in actively managed portfolios.

#### Selected income statement data

Year ended			
December 31,			
(in millions,			
except ratios)	<b>2024</b>	<b>2023</b>	<b>2022</b>
<b>Revenue</b>			
Asset management fees	<b>\$13,693</b>	\$11,826	\$11,510
Commissions and other fees	<b>874</b>	697	\$ 662
All other income	<b>456</b>	(a) 1,037	(b) 335
<b>Noninterest revenue</b>	<b>15,023</b>	13,560	12,507
Net interest income	<b>6,555</b>	6,267	5,241
<b>Total net revenue</b>	<b>21,578</b>	19,827	17,748
Provision for credit losses	<b>(68)</b>	159	128
<b>Noninterest expense</b>			
Compensation expense	<b>7,984</b>	7,115	6,336
Noncompensation expense	<b>6,430</b>	5,665	5,493
<b>Total noninterest expense</b>	<b>14,414</b>	12,780	11,829
<b>Income before</b>			

#### 2024 compared with 2023

Net income was \$5.4 billion, up 4%.

Net revenue was \$21.6 billion, up 9%.

Net interest income was \$6.6 billion, up 5%. Noninterest revenue was \$15.0 billion, up 11%.

Revenue from Asset Management was \$10.2 billion, up 11%, driven by:

- higher asset management fees, reflecting higher average market levels and strong net inflows, as well as
- higher performance fees.

The prior year included a gain of \$339 million on the original minority interest in CIFM upon the Firm's acquisition of the remaining 51% interest in the entity.

Revenue from Global Private Bank was \$11.4 billion, up 7%, driven by:

- higher noninterest revenue, reflecting:
  - higher management fees on strong net inflows and higher average market levels, as well as higher brokerage fees, partially offset by
  - a decline in the amortization of the fair value discount on certain acquired lending-related commitments associated with First Republic that have expired, and
- higher net interest income driven by:
  - higher average deposits associated with First Republic, which were transferred to AWM from CCB in the fourth quarter of 2023, as well as wider spreads on loans and higher average loans, largely offset by
  - deposit margin compression reflecting higher rates paid.

The prior year included net investment valuation losses.

Noninterest expense was \$14.4 billion, up 13%, predominantly driven by:

- higher compensation, including revenue-related compensation, and continued growth in private banking advisor teams, and
- higher distribution fees and legal







**Asset Management has two high-level measures of its overall fund performance.**

- **Percentage of active mutual fund and active ETF assets under management in funds rated 4- or 5-star:** Mutual fund rating services rank funds based on their risk adjusted performance over various periods. A 5-star rating is the best rating and represents the top 10% of industry-wide ranked funds. A 4-star rating represents the next 22.5% of industry-wide ranked funds. A 3-star rating represents the next 35% of industry-wide ranked funds. A 2-star rating represents the next 22.5% of industry-wide ranked funds. A 1-star rating is the worst rating and represents the bottom 10% of industry-wide ranked funds. An overall Morningstar rating is derived from a weighted average of the performance associated with a fund's three-, five and ten- year (if applicable) Morningstar Rating metrics. For U.S.-domiciled funds, separate star ratings are provided at the individual share class level. The Nomura "star rating" is based on three-year risk-adjusted performance only. Funds with fewer than three years of history are not rated and hence excluded from these rankings. All ratings, the assigned peer categories and the asset values used to derive these rankings are sourced from the applicable fund rating provider. Where applicable, the fund rating providers redenominate asset values into U.S. dollars. The percentage of AUM is based on star ratings at the share class level for U.S.-domiciled funds, and at a "primary share class" level to represent the star rating of all other funds, except for Japan, for which Nomura provides ratings at the fund level. The performance data may have been different if all share classes had been included. Past performance is not indicative of future results.
- **Percentage of active mutual fund and active ETF assets under management in funds ranked in the 1st or 2nd quartile (one, three and five years):**All quartile rankings, the assigned peer categories and the asset values used to derive these rankings are sourced from the fund rating providers. Quartile rankings are based on the net-of-fee absolute return of each fund. Where applicable, the fund rating providers redenominate asset values into U.S. dollars. The percentage of AUM is

**Selected metrics**

As of or for the year ended December 31, (in millions, except ranking data, ratios and employees)	2024	2023	2022
---	------	------	------

% of JPM mutual fund assets and ETFs rated as 4- or 5-star <sup>(a)</sup>	69 %	69 %	73 %
% of JPM mutual fund assets and ETFs ranked in 1 <sup>st</sup> or 2 <sup>nd</sup> quartile: <sup>(b)</sup>			
1 year	73	40	68
3 years	75	67	76
5 years	77	71	81

**Selected balance sheet data (period-end)**  
(c)

Total assets	\$255,385	\$245,512	\$232,037
Loans	236,303	227,929	214,006
Deposits	248,287	233,232	<sup>(d)</sup> 233,130
Equity	15,500	17,000	17,000

**Selected balance sheet data (average)<sup>(c)</sup>**

Total assets	\$246,254	\$240,222	\$232,438
Loans	227,676	220,487	215,582
Deposits	235,146	216,178	<sup>(d)</sup> 261,489
Equity	15,500	16,671	17,000
Employees	29,403	28,485	26,041

Number of Global Private Bank client advisors	3,775	3,515	3,137
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- (b) Quartile ranking sourced from Morningstar, Lipper and Nomura based on country of domicile. Includes only Asset Management retail active open-ended mutual funds and active ETFs that are ranked by the aforementioned sources. Excludes money market funds, Undiscovered Managers Fund, and Brazil domiciled funds.
- (c) Loans, deposits and related credit data and quality statistics relate to the Global Private Bank business.
- (d) In the fourth quarter of 2023, certain deposits associated with First Republic were transferred to AWM from CCB.

## Client assets

### 2024 compared with 2023

Assets under management were \$4.0 trillion and client assets were \$5.9 trillion, each up 18%, driven by continued net inflows and higher market levels.

### Client assets

December 31, (in billions)	2024	2023	2022
<b>Assets by asset class</b>			
Liquidity	\$ 1,083	\$ 926	\$ 654
Fixed income	851	751	638
Equity	1,128	868	670
Multi-asset	764	680	603
Alternatives	219	197	201
<b>Total assets under management</b>	<b>4,045</b>	<b>3,422</b>	<b>2,766</b>
Custody/brokerage/ administration/ deposits	1,887	1,590	1,282
<b>Total client assets<sup>(a)</sup></b>	<b>\$ 5,932</b>	<b>\$ 5,012</b>	<b>\$ 4,048</b>
<b>Assets by client segment</b>			
Private Banking	\$ 1,234	\$ 974	\$ 751
Global			
Institutional	1,692	1,488	1,252
Global Funds	1,119	960	763
<b>Total assets under management</b>	<b>\$ 4,045</b>	<b>\$ 3,422</b>	<b>\$ 2,766</b>
Private Banking	\$ 2,974	\$ 2,452	\$ 1,964
Global			
Institutional	1,820	1,594	1,314
Global Funds	1,138	966	770
<b>Total client</b>			

## Client assets (continued)

Year ended December 31, (in billions)	2024	2023	2022
<b>Assets under management rollforward</b>			
Beginning balance	\$ 3,422	\$ 2,766	\$ 3,113
Net asset flows:			
Liquidity	140	242	(55)
Fixed income	91	70	13
Equity	114	70	35
Multi-asset	19	1	(9)
Alternatives	10	(1)	8
Market/performance/ other impacts	249	274	(339)
<b>Ending balance, December 31</b>	<b>\$ 4,045</b>	<b>\$ 3,422</b>	<b>\$ 2,766</b>

### Client assets rollforward

Beginning balance	\$ 5,012	\$ 4,048	\$ 4,295
Net asset flows	486	490	49
Market/performance/ other impacts	434	474	(296)
<b>Ending balance, December 31</b>	<b>\$ 5,932</b>	<b>\$ 5,012</b>	<b>\$ 4,048</b>

## Selected Metrics

	As of December 31,		
	2024	2023	Change
<b>Firmwide Wealth Management</b>			
Client assets (in billions) <sup>(a)</sup>	\$ 3,756	\$ 3,177	18 %
Number of client advisors	9,530	8,971	6
<b>Stock Plan Administration<sup>(b)</sup></b>			
Number of stock plan participants (in thousands)	1,327	974	36
Client assets (in billions)	\$ 270	\$ 230	17 %

(a) Consists of Global Private Bank in AWM and client investment assets in J.P. Morgan Wealth Management in CCB.

(b) Relates to an equity plan administration business which was acquired in 2022 with the Firm's purchase of Global Shares. The







## International metrics

Year ended			
December 31,			
(in billions,			
except where			
otherwise noted)	<b>2024</b>	2023	2022

### Total net revenue (in millions)<sup>(a)</sup>

#### Europe/Middle

East/Africa      \$ **3,563**   \$ 3,377   \$ 3,240

Asia-Pacific      **2,023**      1,876      1,836

#### Latin America/

Caribbean      **1,065**      985      967

### Total international net revenue

**6,651**      6,238      6,043

North America      **14,927**      13,589      11,705

**Total net revenue \$21,578**   \$19,827   \$17,748

### Assets under management

#### Europe/Middle

East/Africa      \$ **604**   \$ 539   \$ 487

Asia-Pacific      **302**      263      218

#### Latin America/

Caribbean      **106**      86      69

### Total international assets under management

**1,012**      888      774

North America      **3,033**      2,534      1,992

**Total assets  
under management \$ 4,045**   \$ 3,422   \$ 2,766

### Client assets

#### Europe/Middle

East/Africa      \$ **841**   \$ 740   \$ 610

Asia-Pacific      **482**      406      331

#### Latin America/

Caribbean      **254**      232      189

### Total international client assets

**1,577**      1,378      1,130

North America      **4,355**      3,634      2,918

**Total client  
assets \$ 5,932**   \$ 5,012   \$ 4,048

(a) Regional revenue is based on the domicile of the client.



CORPORATE

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Corporate consists of Treasury and Chief Investment Office ("CIO") and Other Corporate. Treasury and CIO is predominantly responsible for measuring, monitoring, reporting and managing the Firm's liquidity, funding, capital, structural interest rate and foreign exchange risks.

Other Corporate includes staff functions and expense that is centrally managed as well as certain Firm initiatives and activities not solely aligned to a specific LOB. The major Other Corporate functions include Real Estate, Technology, Legal, Corporate Finance, Human Resources, Internal Audit, Risk Management, Compliance, Control Management, Corporate Responsibility and various Other Corporate groups.

million and \$235 million for the years ended December 31, 2024, 2023 and 2022, respectively.

- (b) Predominantly relates to the Firm's international consumer initiatives.
- (c) Included the net gain related to Visa shares of \$7.9 billion recorded in the second quarter of 2024. Refer to Notes 2 and 6 for additional information.
- (d) Included a \$1.0 billion contribution of Visa shares to the JPMorgan Chase Foundation recorded in the second quarter of 2024. Refer to Notes 2 and 6 for additional information.
- (e) The first quarter of 2024 included an increase of \$725 million to the FDIC special assessment reflecting the FDIC's revised estimate of Deposit Insurance Fund losses. The fourth quarter of 2023 included the \$2.9 billion FDIC special assessment.
- (f) Included the estimated bargain purchase gain of \$2.8 billion for the year ended December 31, 2023 associated with the First Republic acquisition. Refer to Notes 6 and 34 for additional information.
- (g) In the second quarter of 2023, substantially all of the expense associated with First Republic was reported in Corporate. Commencing in the third quarter of 2023, the expense was aligned to the appropriate LOBs.
- (h) Income taxes associated with the First Republic acquisition were reflected in the estimated bargain purchase gain.

#### Selected income statement and balance sheet data

Year ended December 31, (in millions, except employees)	2024	2023	2022
<b>Revenue</b>			
Principal transactions \$	152	\$ 302	\$ (227)
Investment securities losses	(1,020)	(3,180)	(2,380)
All other income	8,476 <sup>(c)</sup>	3,010 <sup>(f)</sup>	809
<b>Noninterest revenue</b>	7,608	132	(1,798)
Net interest income	9,786	7,906	1,878
<b>Total net revenue<sup>(a)</sup></b>	17,394	8,038	80
Provision for credit losses	10	171	22
<b>Noninterest expense</b>	3,994 <sup>(e)</sup>	5,601 <sup>(g)</sup>	1,034
<b>Income/(loss) before income tax</b>			





### 2024 compared with 2023

Net income was \$10.6 billion, compared with \$2.8 billion in the prior year.

Net revenue was \$17.4 billion, compared with \$8.0 billion in the prior year.

Net interest income was \$9.8 billion, up 24%, driven by the impact of balance sheet actions, primarily reinvestments in the investment securities portfolio, partially offset by the net impact of rates.

Noninterest revenue was \$7.6 billion, compared with \$132 million in the prior year. Excluding the \$7.9 billion net gain related to Visa shares recorded in the second quarter of 2024 and the prior-year \$2.8 billion estimated bargain purchase gain associated with the First Republic acquisition, revenue was up \$2.4 billion, predominantly driven by lower investment securities losses, primarily on sales of U.S. Treasuries and U.S. GSE and government agency MBS, associated with repositioning the investment securities portfolio in Treasury and CIO.

Noninterest expense was \$4.0 billion, down 29%, driven by:

- a lower FDIC special assessment,
  - lower expense associated with the First Republic acquisition as the prior year expense in Corporate included individuals associated with First Republic who were not employees of the Firm until July 2023, and this expense was subsequently aligned to the appropriate LOBs starting in the third quarter of 2023, and
  - lower legal expense,
- partially offset by
- a \$1.0 billion contribution of Visa shares to the JPMorgan Chase Foundation recorded in the second quarter of 2024, and
  - higher costs associated with the Firm's international consumer initiatives.

The provision for credit losses was \$10 million.

The provision in the prior year was \$171 million, reflecting a net

Other Corporate includes the Firm's international consumer initiatives, which primarily consists of Chase U.K., Nutmeg, and an ownership stake in C6 Bank.

The deposits within Corporate relate to the Firm's international consumer initiatives and have increased as a result of growth in client accounts, reflecting the impact of additional product offerings.







## Treasury and CIO overview

Treasury and CIO is predominantly responsible for measuring, monitoring, reporting and managing the Firm's liquidity, funding, capital, structural interest rate and foreign exchange risks. The risks managed by Treasury and CIO arise from the activities undertaken by the Firm's three reportable business segments to serve their respective client bases, which generate both on- and off-balance sheet assets and liabilities.

Treasury and CIO seeks to achieve the Firm's asset-liability management objectives generally by investing in high quality securities that are managed for the longer-term as part of the Firm's investment securities portfolio. Treasury and CIO also uses derivatives to meet the Firm's asset-liability management objectives. Refer to Note 5 for further information on derivatives. In addition, Treasury and CIO manages the Firm's cash position primarily through deposits at central banks and investments in short-term instruments. Refer to Liquidity Risk Management on pages 108–115 for further information on liquidity and funding risk. Refer to Market Risk Management on pages 141–149 for information on interest rate and foreign exchange risks.

The investment securities portfolio predominantly consists of U.S. and non-U.S. government securities, U.S. GSE and government agency and nonagency mortgage-backed securities, collateralized loan obligations, obligations of U.S. states and municipalities and other ABS. At December 31, 2024, the Treasury and CIO investment securities portfolio, net of the allowance for credit losses, was \$678.3 billion, and the average credit rating of the securities comprising the portfolio was AA+ (based upon external ratings where available and, where not available, based primarily upon internal risk ratings). Refer to Note 10 for further information on the Firm's investment securities portfolio and internal risk ratings.

## Selected income statement and balance sheet data

As of or for the year ended December 31, (in millions)	2024	2023	2022
Investment securities losses	\$ (1,020)	\$ (3,180)	\$ (2,380)
Available-for-sale securities (average)	\$287,260	\$200,708	\$239,924
Held-to-maturity securities (average) <sup>(a)</sup>	321,384	402,010	412,180
Investment securities portfolio (average)	\$608,644	\$602,718	\$652,104
Available-for-sale securities (period-end)	\$403,796	\$199,354	\$203,981
Held-to-maturity securities (period-end) <sup>(a)</sup>	274,468	369,848	425,305
Investment securities portfolio, net of allowance for credit losses (period-end) <sup>(b)</sup>	\$678,264	\$569,202	\$629,286

(a) Effective January 1, 2023, the Firm adopted the portfolio layer method hedge accounting guidance. As permitted by the guidance, the Firm elected to transfer \$7.1 billion of investment securities from HTM to AFS. During 2022, the Firm transferred \$78.3 billion of investment securities from AFS to HTM for capital management purposes. Refer to Note 1 and Note 10 for additional information on the portfolio layer method hedge accounting guidance.

(b) As of December 31, 2024, 2023 and 2022, the allowance for credit losses on investment securities was \$105 million, \$94 million and \$67 million, respectively.



## FIRMWIDE RISK MANAGEMENT

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Risk is an inherent part of JPMorganChase's business activities. When the Firm extends a consumer or wholesale loan, advises customers and clients on their investment decisions, makes markets in securities, or offers other products or services, the Firm takes on some degree of risk. The Firm's overall objective is to manage its business, and the associated risks, in a manner that balances serving the interests of its clients, customers and investors, and protecting the safety and soundness of the Firm.

The Firm believes that effective risk management requires, among other things:

- Acceptance of responsibility, including identification and escalation of risks by all individuals within the Firm;
- Ownership of risk identification, assessment, data and management within each of the LOBs and Corporate; and
- A Firmwide risk governance and oversight structure.
- Credit and investment risk is the risk associated with the default or change in credit profile of a client, counterparty or customer; or loss of principal or a reduction in expected returns on investments, including consumer credit risk, wholesale credit risk and investment portfolio risk.
- Market risk is the risk associated with the effect of changes in market factors, such as interest and foreign exchange rates, equity and commodity prices, credit spreads or implied volatilities, on the value of assets and liabilities held for both the short and long term.
- Operational risk is the risk of an adverse outcome resulting from inadequate or failed internal processes or systems; human factors; or external events impacting the Firm's processes or systems. Operational risk includes cybersecurity, compliance, conduct, legal, and estimations and model risk.

The Firm follows a disciplined and balanced compensation framework with strong internal governance and independent oversight by the Board of Directors (the "Board"). The impact of risk and control issues is carefully considered in the Firm's performance evaluation and incentive compensation processes.

### **Risk governance framework**

The Firm's risk governance framework involves understanding drivers of risks, types of risks and impacts of risks.

### **25\_Risk Drivers\_02C.jpg**

*Drivers of risks* are factors that cause a risk to exist. Drivers of risks include the economic environment, regulatory or government policy, competitor or market evolution, business decisions, process or judgment error, deliberate wrongdoing, dysfunctional markets and natural disasters.

*Types of risks* are categories by which risks manifest themselves. The

*Impacts of risks* are consequences of risks, both quantitative and qualitative. There may be many consequences when risks manifest themselves, including quantitative impacts such as a reduction in earnings and capital, liquidity outflows, and fines or penalties, or qualitative impacts such as damage to the Firm's reputation, loss of clients and customers, and regulatory and enforcement actions.

The Firm's risk governance framework is managed on a Firmwide basis. The Firm has an Independent Risk Management ("IRM") function, which is comprised of Risk Management and Compliance. The Firm's Chief Executive Officer ("CEO") appoints, subject to approval by the Risk Committee of the Board of Directors (the "Board Risk Committee"), the Firm's Chief Risk Officer ("CRO") to lead the IRM function and maintain the risk governance framework of the Firm. The framework is subject to approval by the Board Risk Committee through its review and approval of the Risk Governance and Oversight



**Management’s discussion and analysis**

### Three lines of defense

The Firm's "three lines of defense" are as follows:

The first line of defense consists of each LOB, Treasury and CIO, and certain Other Corporate initiatives, including their aligned Operations, Technology and Control Management. The first line of defense owns the risks, and identification of risks, associated with their respective activities and the design and execution of controls to manage those risks. Responsibilities also include adherence to applicable laws, rules and regulations and implementation of the risk governance framework established by IRM, which may include policies, standards, limits, thresholds and controls.

The second line of defense is the IRM function, which is separate from the first line of defense and is responsible for independently measuring risk, as well as assessing and challenging the risk management activities of the first line of defense. IRM is also responsible for the identification of risks within its organization, its own adherence to applicable laws, rules and regulations and for the development and implementation of policies and standards with respect to its own processes.

The third line of defense is Internal Audit, an independent function that provides objective assessment of the adequacy and effectiveness of Firmwide processes, controls, governance and risk management. The Internal Audit function is led by the General Auditor, who reports to the Audit Committee and administratively to the CEO.

In addition, there are other functions that contribute to the Firmwide control environment but are not considered part of a particular line of defense, including Corporate Finance, Human Resources and Legal. These other functions are responsible for the identification of risks within their respective organizations, adherence to applicable laws, rules and regulations and implementation of the

### Risk identification and ownership

The LOBs and Corporate are responsible for the identification of risks within their respective organizations, as well as the design and execution of controls, including IRM-specified controls, to manage those risks. To support this activity, the Firm has a risk identification framework designed to facilitate the responsibility of each LOB and Corporate to identify material risks inherent to the Firm's businesses and operational activities, catalog them in a central repository and review material risks on a regular basis. The IRM function reviews and challenges the risks identified by each LOB and Corporate, maintains the central repository and provides the consolidated Firmwide results to the Firmwide Risk Committee ("FRC") and the Board Risk Committee.

### Risk appetite

The Firm's overall appetite for risk is governed by Risk Appetite frameworks for quantitative and qualitative risks. The Firm's risk appetite is periodically set and approved by senior management (including the CEO and CRO) and approved by the Board Risk Committee. Quantitative and qualitative risks are assessed to monitor and measure the Firm's capacity to take risk consistent with its stated risk appetite. Risk appetite results are reported to the Board Risk Committee.





## Risk governance and oversight structure

The independent status of the IRM function is supported by a risk governance and oversight structure that provides channels for the escalation of risks and issues to senior management, the FRC and the Board of Directors, as appropriate.

The chart below illustrates the principal standing committees of the Board of Directors and key senior management-level committees in the Firm's risk governance and oversight structure. In addition, there are other committees, forums and channels of escalation that support the oversight of risk that are not shown in the chart below or described in this Form 10-K.

### 25\_Committee Structure\_01x.jpg

The Firm's Operating Committee, which consists of the Firm's CEO, CRO, Chief Financial Officer ("CFO"), General Counsel, CEOs of the LOBs and other senior executives, is accountable to and may refer matters to the Firm's Board of Directors. The Operating Committee and certain other members of senior management are responsible for escalating to the Board the information necessary to facilitate the Board's exercise of its duties.

#### Board oversight

The Firm's Board of Directors actively oversees the business and affairs of the Firm. This includes monitoring the Firm's financial performance and condition and reviewing the strategic objectives and plans of the Firm. The Board carries out a significant portion of its oversight responsibilities through its principal standing committees, each of which consists solely of independent members of the Board. The Board Risk Committee is the principal committee that oversees risk matters. The Audit Committee oversees the control environment, and the Compensation & Management Development Committee oversees compensation and other management-related

matters. Each committee of the Board oversees reputation risks, conduct risks, and environmental, social and governance ("ESG") matters within its scope of responsibility.

The JPMorgan Chase Bank, N.A. Board of Directors is responsible for the oversight of management of the bank, which it discharges both acting directly and through the principal standing committees of the Firm's Board of Directors. Risk and control oversight on behalf of JPMorgan Chase Bank N.A. is primarily the responsibility of the Board Risk Committee and the Audit Committee, respectively, and, with respect to compensation and other management-related matters, the Compensation & Management Development Committee.

*The Board Risk Committee* assists the Board in its oversight of management's responsibility to implement a global risk management framework reasonably designed to identify, assess and manage the Firm's risks. The Board Risk Committee's responsibilities include approval of applicable primary risk policies and review of certain associated frameworks, analysis and reporting established by

**Management’s discussion and analysis**

management. Breaches in risk appetite and parameters, issues that may have a material adverse impact on the Firm, including capital and liquidity issues, and other significant risk-related matters are escalated to the Board Risk Committee, as appropriate.

*The Audit Committee* assists the Board in its oversight of management's responsibilities to ensure that there is an effective system of controls reasonably designed to safeguard the Firm's assets and income, ensure the integrity of the Firm's financial statements, and maintain compliance with the Firm's ethical standards, policies, plans and procedures, and with laws and regulations. It also assists the Board in its oversight of the qualifications, independence and performance of the Firm's independent registered public accounting firm, and of the performance of the Firm's Internal Audit function.

*The Compensation & Management Development Committee ("CMDC")* assists the Board in its oversight of the Firm's compensation principles and practices. The CMDC reviews and approves the Firm's compensation and qualified benefits programs. The Committee reviews the performance of Operating Committee members against their goals, and approves their compensation awards. In addition, the CEO's compensation award is subject to ratification by the independent directors of the Board. The CMDC also reviews the development of and succession for key executives. As part of the Board's role of reinforcing, demonstrating and communicating the "tone at the top," the CMDC oversees the Firm's culture, including reviewing updates from management regarding significant conduct issues and any related actions with respect to employees, including compensation actions.

*The Public Responsibility Committee* oversees and reviews the Firm's positions and practices on public responsibility matters such as community investment, fair lending, sustainability, consumer practices and other public policy issues that reflect the Firm's values and

## **Management oversight**

The Firm's senior management-level committees that are primarily responsible for key risk-related functions include:

*The Firmwide Risk Committee ("FRC")* is the Firm's highest management-level risk committee. It oversees the risks inherent in the Firm's business and provides a forum for discussion of risk-related and other topics and issues that are raised or escalated by its members and other committees.

*The Firmwide Control Committee ("FCC")* is an escalation committee for senior management to review and discuss the Firmwide compliance and operational risk environment, including identified issues, compliance and operational risk metrics and significant events that have been escalated.

*Line of Business and Regional Risk Committees* are responsible for overseeing the governance, limits and controls that have been established within the scope of their respective activities. These committees review the ways in which the particular LOB or the businesses operating in a particular region could be exposed to adverse outcomes, with a focus on identifying, accepting, escalating and/or requiring remediation of matters brought to these committees.





*Line of Business and Corporate Function Control Committees* oversee the risk and control environment of their respective business or function, inclusive of Operational Risk, Compliance and Conduct Risks. As part of that mandate, they are responsible for reviewing indicators of elevated or emerging risks and other data that may impact the level of compliance and operational risk in a business or function, addressing key compliance and operational risk issues, with an emphasis on processes with control concerns, and overseeing control remediation.

*The Asset and Liability Committee ("ALCO")* is responsible for overseeing the Firm's asset and liability management ("ALM"), including the activities and frameworks supporting management of the balance sheet, liquidity risk, interest rate risk and capital risk.

*The Firmwide Valuation Governance Forum ("VGF")* is composed of senior finance and risk executives and is responsible for overseeing the management of risks arising from valuation activities conducted across the Firm.

## **Risk governance and oversight functions**

The Firm monitors and measures its risk through risk governance and oversight functions. The scope of a particular function or business activity may include one or more drivers, types and/or impacts of risk. For example, Country Risk Management oversees country risk which may be a driver of risk or an aggregation of exposures that could give rise to multiple risk types such as credit or market risk.

The following sections discuss the risk governance and oversight functions that have been established to oversee the risks inherent in the Firm's business activities.

<b>Risk governance and oversight functions</b>	<b>Page</b>
Strategic Risk	96
Capital Risk	97-107
Liquidity Risk	108-115





## Management's discussion and analysis

### STRATEGIC RISK MANAGEMENT

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Strategic risk is the risk to earnings, capital, liquidity or reputation associated with poorly-designed or failed business plans or an inadequate response to changes in the operating environment.

#### **Management and oversight**

The Operating Committee, together with the senior leadership of each LOB and Corporate, are responsible for managing the Firm's most significant strategic risks. IRM engages regularly in strategic business discussions and decision-making, including participation in relevant business reviews and senior management meetings, risk and control committees and other relevant governance forums, and review of acquisitions and new business initiatives. The Board of Directors oversees management's strategic decisions, and the Board Risk Committee oversees IRM and the Firm's risk governance framework.

In the process of developing business plans and strategic initiatives, LOB and Corporate senior management identify the associated risks that are incorporated into the Firmwide Risk Identification framework and their impact on risk appetite.

In addition, IRM conducts a qualitative assessment of the LOB and Corporate strategic initiatives to assess their impact on the risk profile of the Firm.

The Firm's strategic planning process, which includes the development of the Firm's strategic plan and other strategic initiatives, is one component of managing the Firm's strategic risk. The strategic plan outlines the Firm's strategic framework and initiatives, and includes components such as budget, risk appetite, capital, earnings and asset-liability management objectives. Guided by the Firm's Business Principles, the Operating Committee and senior management teams in each LOB and Corporate review and update the strategic plan periodically, including evaluating the strategic framework and performance of strategic initiatives, assessing the operating environment, refining existing strategies and developing new strategies.

The Firm's strategic plan, together with IRM's assessment, are provided to the Board as part of its review and approval of the Firm's strategic plan, and the plan is also reflected in the Firm's budget.

The Firm's balance sheet strategy, which focuses on risk-adjusted returns, strong capital and robust liquidity, is also a component in the management of strategic risk. Refer to Capital Risk Management on pages 97-107 for further information on capital risk. Refer to Liquidity Risk Management on pages 108-115 for further information on liquidity risk. Refer to Reputation Risk Management on page 116 for further information on reputation risk.

## CAPITAL RISK MANAGEMENT

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Capital risk is the risk that the Firm has an insufficient level or composition of capital to support the Firm's business activities and associated risks during normal economic environments and under stressed conditions.

A strong capital position is essential to the Firm's business strategy and competitive position. Maintaining a strong balance sheet to manage through economic volatility is a strategic imperative of the Firm's Board of Directors, CEO and Operating Committee. The Firm's "fortress balance sheet" philosophy focuses on risk-adjusted returns, strong capital and robust liquidity. The Firm's capital risk management strategy focuses on maintaining long-term stability to enable the Firm to build and invest in market-leading businesses, including in highly stressed environments. Senior management considers the implications on the Firm's capital prior to making significant decisions that could impact future business activities. In addition to considering the Firm's earnings outlook, senior management evaluates all sources and uses of capital with a view to ensuring the Firm's capital strength.

#### **Capital risk management**

The Firm has a Capital Risk Management function whose primary objective is to provide independent oversight of capital risk across the Firm.

Capital Risk Management's responsibilities include:

- Defining, monitoring and reporting capital risk metrics;
- Establishing, calibrating and monitoring capital risk limits and indicators, including capital risk appetite;
- Developing processes to classify, monitor and report capital limit breaches;
- Performing assessments of the Firm's capital management activities, including changes made to the Contingency Capital Plan described below; and

- Promote the Parent Company's ability to serve as a source of strength to its subsidiaries;
- Ensure the Firm operates above the minimum regulatory capital ratios as well as maintain "well-capitalized" status for the Firm and its principal insured depository institution ("IDI") subsidiary, JPMorgan Chase Bank, N.A., at all times under applicable regulatory capital requirements;
- Meet capital distribution objectives; and
- Maintain sufficient capital resources to operate throughout a resolution period in accordance with the Firm's preferred resolution strategy.

The Firm addresses these objectives through:

- Establishing internal minimum capital requirements and maintaining a strong capital governance framework. The internal minimum capital levels consider the Firm's regulatory capital requirements as well as an internal assessment of capital adequacy, in normal economic cycles and in stress events;
- Retaining flexibility in order to react to a range of potential events; and
- Regularly monitoring the Firm's capital position and following prescribed escalation protocols, both at the Firm and material legal entity levels.

#### **Governance**

Committees responsible for overseeing the Firm's capital management include the Capital Governance Committee, the Firmwide ALCO as well as regional ALCOs, and the CIO, Treasury and Corporate ("CTC") Risk Committee. In addition, the Board Risk Committee periodically reviews the Firm's capital risk tolerance. Refer to Firmwide Risk Management on pages 91-95 for additional discussion of the Firmwide ALCO and other risk-related committees.

#### **Capital planning and stress testing** *Comprehensive Capital Analysis and*



**Management’s discussion and analysis**

Reserve uses results under the severely adverse scenario from its supervisory stress test to determine each firm's Stress Capital Buffer ("SCB") requirement for the coming year.

The Firm's current SCB requirement is 3.3% and will remain in effect until September 30, 2025. The Firm's Standardized CET1 capital ratio requirement, including regulatory buffers, was 12.3% as of December 31, 2024.

Refer to Capital actions on page 105 for information on actions taken by the Firm's Board of Directors.

#### *Internal Capital Adequacy Assessment Process*

Annually, the Firm prepares the ICAAP, which informs the Board of Directors of the ongoing assessment of the Firm's processes for managing the sources and uses of capital as well as compliance with supervisory expectations for capital planning and capital adequacy. The Firm's ICAAP integrates stress testing protocols with capital planning. The Firm's Audit Committee is responsible for reviewing and approving the capital planning framework.

Stress testing assesses the potential impact of alternative economic and business scenarios on the Firm's earnings and capital. Economic scenarios, and the parameters underlying those scenarios, are defined centrally and applied uniformly across the businesses. These scenarios are articulated in terms of macroeconomic factors, which are key drivers of business results; global market shocks, which generate short-term but severe trading losses; and idiosyncratic operational risk events. The scenarios are intended to capture and stress key vulnerabilities and idiosyncratic risks facing the Firm. In addition to CCAR and other periodic stress testing, management also considers tailored stress scenarios and sensitivity analyses, as necessary.

#### **Contingency Capital Plan**

The Firm's Contingency Capital Plan establishes the capital management

#### **Regulatory capital**

The Federal Reserve establishes capital requirements, including well-capitalized standards, for the Firm as a consolidated financial holding company. The Office of the Comptroller of the Currency ("OCC") establishes similar minimum capital requirements and standards for the Firm's principal IDI subsidiary, JPMorgan Chase Bank, N.A. The U.S. capital requirements generally follow the Capital Accord of the Basel Committee, as amended from time to time.

#### *Basel III Overview*

The capital rules under Basel III establish minimum capital ratios and overall capital adequacy standards for large and internationally active U.S. BHCs and banks, including the Firm and JPMorgan Chase Bank, N.A. The minimum amount of regulatory capital that must be held by BHCs and banks is determined by calculating RWA, which are on-balance sheet assets and off-balance sheet exposures, weighted according to risk. Under the rules currently in effect, two comprehensive approaches are prescribed for calculating RWA: a standardized approach ("Basel III Standardized"), and an advanced approach ("Basel III Advanced").

For each of these risk-based capital ratios, the capital adequacy of the Firm is evaluated against the lower of the Standardized or Advanced approaches compared to their respective regulatory capital ratio requirements.

The current Basel III rules establish capital requirements for calculating credit risk RWA and market risk RWA, and in the case of Basel III Advanced, operational risk RWA. Key differences in the calculation of credit risk RWA between the Standardized and Advanced approaches are that for Basel III Advanced, credit risk RWA is based on risk-sensitive approaches which largely rely on the use of internal credit models and parameters, whereas for Basel III Standardized, credit risk RWA is generally based on supervisory risk-weightings which vary primarily







### *Key Regulatory Developments*

#### *U.S. Basel III Finalization*

In July 2023, the Federal Reserve, the OCC and the FDIC released a proposal to amend the risk-based capital framework, entitled "Regulatory capital rule: Amendments applicable to large banking organizations and to banking organizations with significant trading activity", which is referred to in this Form 10-K as the "U.S. Basel III proposal". Under this proposal, changes to the framework would include replacement of the Advanced approach with an expanded risk-based approach for the calculation of RWA. In addition, the stress capital buffer requirement would be applicable to both the expanded risk-based approach and the Standardized approach.

#### *GSIB Surcharge and TLAC and Eligible LTD Requirements*

In July 2023, the Federal Reserve released a proposal to amend the calculation of the GSIB surcharge. Under the proposal, the annual GSIB surcharge would be based on an average of the quarterly surcharge calculations throughout the calendar year, with daily averaging required for certain measures. The proposal would also reduce surcharge increments from 50 bps to 10 bps and includes other technical amendments to the "Method 2" calculation. The proposed changes would revise risk-based capital requirements for the Firm and other U.S. GSIBs. Refer to Risk-based Capital Regulatory Requirements on page 100 for further information on the GSIB surcharge.

Additionally, in August 2023, the Federal Reserve, the FDIC and the OCC released a proposal to expand the eligible long-term debt ("eligible LTD") and clean holding company requirements under the existing total loss-absorbing capacity ("TLAC") rule to apply to non-GSIB banks with \$100 billion or more in total consolidated assets. The proposal would also reduce the amount of LTD with remaining maturities of less than two years that count towards a U.S. GSIB's TLAC requirement and expand



Management’s discussion and analysis

Risk-based Capital Regulatory Requirements

The following chart presents the Firm’s Basel III CET1 capital ratio requirements under the Basel III rules currently in effect.

25\_CAP\_RATIO\_05.jpg

All banking institutions are currently required to have a minimum CET1 capital ratio of 4.5% of risk-weighted assets.

Certain banking organizations, including the Firm, are required to hold additional levels of capital to serve as a “capital conservation buffer”. The capital conservation buffer incorporates a GSIB surcharge, a discretionary countercyclical capital buffer and a fixed capital conservation buffer of 2.5% for Advanced regulatory capital requirements, as well as a variable SCB requirement, floored at 2.5%, for Standardized regulatory capital requirements.

Under the Federal Reserve’s GSIB rule, the Firm is required to assess its GSIB surcharge on an annual basis under two separately prescribed methods based on data for the previous fiscal year-end, and is subject to the higher of the two. “Method 1” reflects the GSIB surcharge as prescribed by the Basel Committee’s assessment methodology, and is calculated across five criteria: size, cross-jurisdictional activity, interconnectedness, complexity and substitutability. “Method 2” modifies the Method 1 requirements to include a measure of short-term wholesale funding in place of substitutability, and introduces a GSIB score “multiplication factor”.

The following table presents the Firm’s effective GSIB surcharge for the years ended December 31, 2024 and 2023. For 2025, the Firm’s effective regulatory minimum GSIB surcharge calculated under both

Method 1 and Method 2 remains unchanged at 2.5% and 4.5%, respectively.

	2024	2023
Method 1	2.5 %	2.5 %
Method 2	4.5 %	4.0 %

The U.S. federal regulatory capital standards include a framework for setting a discretionary countercyclical capital buffer taking into account the macro financial environment in which large, internationally active banks function. As of December 31, 2024, the U.S. countercyclical capital buffer remained at 0%. The Federal Reserve will continue to review the buffer at least annually. The buffer can be increased if the Federal Reserve, the FDIC and the OCC determine that systemic risks are meaningfully above normal and can be calibrated up to an additional 2.5% of RWA subject to a 12-month implementation period.

Failure to maintain regulatory capital equal to or in excess of the risk-based regulatory capital minimum plus the capital conservation buffer (inclusive of the GSIB surcharge) and any countercyclical buffer will result in limitations to the amount of capital that the Firm may distribute, such as through dividends and common share repurchases, as well as on discretionary bonus payments for certain executive officers.



#### *Total Loss-Absorbing Capacity*

The Federal Reserve's TLAC rule requires the U.S. GSIB top-tier holding companies, including the Firm, to maintain minimum levels of external TLAC and eligible LTD. Refer to TLAC on page 106 for additional information.

#### *Leverage-based Capital Regulatory Requirements*

##### *Supplementary Leverage ratio*

Banking organizations subject to the Basel III Advanced approach are currently required to have a minimum SLR of 3.0%. Certain banking organizations, including the Firm, are also required to hold an additional 2.0% leverage buffer. The SLR is defined as Tier 1 capital under Basel III divided by the Firm's total leverage exposure. Total leverage exposure is calculated by taking the Firm's total average on-balance sheet assets, less amounts permitted to be deducted for Tier 1 capital, and adding certain off-balance sheet exposures, as defined in regulatory capital rules. Refer to SLR on page 104 for additional information.

Failure to maintain an SLR equal to or greater than the regulatory requirement will result in limitations on the amount of capital that the Firm may distribute such as through dividends and common share repurchases, as well as on discretionary bonus payments for certain executive officers.

#### *Other regulatory capital*

In addition to meeting the capital ratio requirements of Basel III, the Firm and its principal IDI subsidiary, JPMorgan Chase Bank, N.A., must also maintain minimum capital and leverage ratios in order to be "well-capitalized" under the regulations issued by the Federal Reserve and the Prompt Corrective Action requirements of the FDIC Improvement Act, respectively. Refer to Note 27 for additional information.

Additional information regarding the Firm's capital ratios, as well as the U.S. federal regulatory capital standards to which the Firm is subject, is presented in Note 27. Refer to the Firm's Pillar 3 Regulatory Capital Disclosures reports, which are available on the Firm's website, for further information on the Firm's current capital measures.

## Management's discussion and analysis

### Selected capital and RWA data

The following tables present the Firm's risk-based capital metrics under both the Basel III Standardized and Advanced approaches and leverage-based capital metrics. Refer to Note 27 for JPMorgan Chase Bank, N.A.'s risk-based and leverage-based capital metrics. First Republic Bank was not subject to Advanced approach regulatory capital requirements. As a result, for certain exposures associated with the First Republic acquisition, Advanced RWA and any impact on Advanced Total capital is calculated under the Standardized approach as permitted by the transition provisions in the U.S. capital rules. Refer to Note 34 for additional information on the First Republic acquisition.

(in millions, except ratios)	Standardized			Advanced		
	December 31, 2024	December 31, 2023	Capital ratio requirements <sup>(b)</sup>	December 31, 2024	December 31, 2023	Capital ratio requirements <sup>(b)</sup>
<b>Risk-based</b>						
<b>capital metrics:</b>						
(a)						
CET1 capital	\$ 275,513	\$ 250,585		\$ 275,513	\$ 250,585	
Tier 1 capital	294,881	277,306		294,881	277,306	
Total capital	325,589	308,497		311,898	295,417	(c)
Risk-weighted assets	1,757,460	1,671,995		1,740,429	1,669,156	(c)
CET1 capital ratio	15.7 %	15.0 %	12.3 %	15.8 %	15.0 %	11.5 %
Tier 1 capital ratio	16.8	16.6	13.8	16.9	16.6	13.0
Total capital ratio	18.5	18.5	15.8	17.9	17.7	15.0

(a) The capital metrics reflect the CECL capital transition provisions. As of December 31, 2024, CET1 capital reflected the remaining \$720 million CECL benefit and were fully phased in as of January 1, 2025; as of December 31, 2023, CET1 capital reflected a \$1.4 billion benefit. Refer to Note 27 for additional information.

(b) Represents minimum requirements and regulatory buffers applicable to the Firm for the period ended December 31, 2024. For the period ended December 31, 2023, the Basel III Standardized CET1, Tier 1, and Total capital ratio requirements applicable to the Firm were 11.4%, 12.9%, and 14.9%, respectively; the Basel III Advanced CET1, Tier 1, and Total capital ratio requirements applicable to the Firm were 11.0%, 12.5%, and 14.5%, respectively. Refer to Note 27 for additional information.

(c) Includes the impacts of certain assets associated with First Republic to which the Standardized approach has been applied as permitted by the transition provisions in the U.S. capital rules.

Three months ended (in millions, except ratios)	December 31, 2024	December 31, 2023	Capital ratio requirements <sup>(c)</sup>
<b>Leverage-based capital metrics:<sup>(a)</sup></b>			
Adjusted average assets <sup>(b)</sup>	\$ 4,070,499	\$ 3,831,200	
Tier 1 leverage ratio	7.2 %	7.2 %	4.0 %
Total leverage exposure	\$ 4,837,568	\$ 4,540,465	
SLR	6.1 %	6.1 %	5.0 %

(a) The capital metrics reflect the CECL capital transition provisions. Refer to Note 27 for additional information.

(b) Adjusted average assets, for purposes of calculating the leverage ratios, includes quarterly average assets adjusted for on-balance sheet assets that are subject to deduction from Tier 1 capital, predominantly goodwill, inclusive of estimated equity method goodwill, and other intangible assets.

(c) Represents minimum requirements and regulatory buffers applicable to the Firm. Refer to Note 27 for additional information.

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### Capital components

The following table presents reconciliations of total stockholders' equity to Basel III CET1 capital, Tier 1 capital and Total capital as of December 31, 2024 and 2023.

(in millions)	December 31, 2024	December 31, 2023
<b>Total stockholders' equity</b>	<b>\$ 344,758</b>	<b>\$ 327,878</b>
Less: Preferred stock	20,050	27,404
<b>Common stockholders' equity</b>	<b>324,708</b>	<b>300,474</b>
Add:		
Certain deferred tax liabilities <sup>(a)</sup>	2,943	2,996
Other CET1 capital adjustments <sup>(b)</sup>	4,499	4,717
Less:		
Goodwill <sup>(c)</sup>	53,763	54,377
Other intangible assets	2,874	3,225
<b>Standardized/Advanced CET1 capital</b>	<b>275,513</b>	<b>250,585</b>
Add: Preferred stock	20,050	27,404
Less: Other Tier 1 adjustments	682	683
<b>Standardized/Advanced Tier 1 capital</b>	<b>\$ 294,881</b>	<b>\$ 277,306</b>
Long-term debt and other instruments qualifying as Tier 2 capital	\$ 10,312	\$ 11,779
Qualifying allowance for credit losses <sup>(d)</sup>	20,992	20,102
Other	(596)	(690)
<b>Standardized Tier 2 capital</b>	<b>\$ 30,708</b>	<b>\$ 31,191</b>
<b>Standardized Total capital</b>	<b>\$ 325,589</b>	<b>\$ 308,497</b>
Adjustment in qualifying allowance for credit losses for Advanced Tier 2 capital <sup>(e)(f)</sup>	(13,691)	(13,080)
<b>Advanced Tier 2</b>		

### Capital rollforward

The following table presents the changes in Basel III CET1 capital, Tier 1 capital and Tier 2 capital for the year ended December 31, 2024.

Year ended December 31, (in millions)	2024
Standardized/Advanced CET1 capital at December 31, 2023	\$250,585
Net income applicable to common equity	57,212
Dividends declared on common stock	(13,786)
Net purchase of treasury stock	(17,801)
Changes in additional paid-in capital	783
Changes related to AOCI applicable to capital:	
Unrealized gains/(losses) on investment securities	(87)
Translation adjustments, net of hedges <sup>(a)</sup>	(858)
Fair value hedges	(87)
Defined benefit pension and other postretirement employee benefit ("OPEB") plans	(63)
Changes related to other CET1 capital adjustments <sup>(b)</sup>	(385)
Change in Standardized/Advanced CET1 capital	24,928
<b>Standardized/Advanced CET1 capital at December 31, 2024</b>	<b>\$275,513</b>
Standardized/Advanced Tier 1 capital at December 31, 2023	\$277,306
Change in CET1 capital <sup>(b)</sup>	24,928
Net redemptions of noncumulative perpetual preferred stock	(7,354)
Other	1
Change in Standardized/Advanced Tier 1 capital	17,575
<b>Standardized/Advanced Tier 1 capital at December 31, 2024</b>	<b>\$294,881</b>
Standardized Tier 2 capital at December 31, 2023	\$ 31,191
Change in long-term debt and other instruments qualifying as Tier 2	(1,467)
Change in qualifying allowance for credit losses <sup>(b)</sup>	890
Other	94
Change in Standardized Tier 2	



## Management's discussion and analysis

### RWA rollforward

The following table presents changes in the components of RWA under Basel III Standardized and Advanced approaches for the year ended December 31, 2024. The amounts in the rollforward categories are estimates, based on the predominant driver of the change.

Year ended December 31, 2024 (in millions)	Standardized			Advanced			
	Credit risk RWA <sup>(c)</sup>	Market risk RWA	Total RWA	Credit risk RWA <sup>(c)(d)</sup>	Market risk RWA	Operational risk RWA	Total RWA
December 31, 2023	\$1,603,851	\$ 68,144	<b>\$1,671,995</b>	\$1,155,261	\$ 68,603	\$ 445,292	<b>\$1,669,156</b>
Model & data changes <sup>(a)</sup>	4,743	(366)	<b>4,377</b>	4,811	(366)	—	<b>4,445</b>
Movement in portfolio levels <sup>(b)</sup>	64,169	16,919	<b>81,088</b>	57,933	16,895	(8,000)	<b>66,828</b>
Changes in RWA	68,912	16,553	<b>85,465</b>	62,744	16,529	(8,000)	<b>71,273</b>
<b>December 31, 2024</b>	<b>\$1,672,763</b>	<b>\$ 84,697</b>	<b>\$1,757,460</b>	<b>\$1,218,005</b>	<b>\$ 85,132</b>	<b>\$ 437,292</b>	<b>\$1,740,429</b>

(a) Model & data changes refer to material movements in levels of RWA as a result of revised methodologies and/or treatment per regulatory guidance (exclusive of rule changes).

(b) Movement in portfolio levels (inclusive of rule changes) refers to: for Credit risk RWA, changes in book size, changes in composition and credit quality, market movements, and deductions for excess eligible allowances for credit losses not eligible for inclusion in Tier 2 capital; for Market risk RWA, changes in position and market movements; and for Operational risk RWA, updates to cumulative losses and macroeconomic model inputs.

(c) As of December 31, 2024 and 2023, the Basel III Standardized Credit risk RWA included wholesale and retail off balance-sheet RWA of \$208.0 billion and \$208.5 billion, respectively; and the Basel III Advanced Credit risk RWA included wholesale and retail off balance-sheet RWA of \$192.1 billion and \$188.5 billion, respectively.

(d) As of December 31, 2024 and 2023, Credit risk RWA reflected approximately \$43.3 billion and \$52.4 billion, respectively, of RWA calculated under the Standardized approach for certain assets associated with First Republic as permitted by the transition provisions in the U.S. capital rules.

Refer to the Firm's Pillar 3 Regulatory Capital Disclosures reports, which are available on the Firm's website, for further information on Credit risk RWA, Market risk RWA and Operational risk RWA.

### Supplementary leverage ratio

The following table presents the components of the Firm's SLR.

Three months ended (in millions, except ratio)	December 31, 2024	December 31, 2023
<b>Tier 1 capital</b>	<b>\$ 294,881</b>	<b>\$ 277,306</b>
Total average assets	4,125,167	3,885,632
Less: Regulatory capital adjustments <sup>(a)</sup>	54,668	54,432
Total adjusted average assets <sup>(b)</sup>	4,070,499	3,831,200
Add: Off-balance sheet exposures <sup>(c)</sup>	767,069	709,265
<b>Total leverage exposure</b>	<b>\$4,837,568</b>	<b>\$4,540,465</b>
<b>SLR</b>	<b>6.1 %</b>	<b>6.1 %</b>

(a) For purposes of calculating the SLR, includes quarterly average assets adjusted for on-balance sheet assets that are subject to deduction from Tier 1 capital, predominantly goodwill, inclusive of estimated equity method goodwill, other intangible assets and adjustments for the CECL capital transition provisions. Refer to Note 27 for additional information on the CECL capital transition.

(b) Adjusted average assets used for the calculation of Tier 1 leverage ratio.

(c) Off-balance sheet exposures are calculated as the average of the three month-end spot balances on applicable regulatory exposures during the reporting quarter. Refer to the Firm's Pillar 3 Regulatory Capital Disclosures reports for additional information.

### Line of business and Corporate equity

Each LOB and Corporate is allocated capital by taking into consideration a variety of factors including capital levels of similarly rated peers and applicable regulatory capital requirements. ROE is measured and internal targets for expected returns are established as key measures of an LOB's performance.

The Firm's current equity allocation methodology incorporates Basel III Standardized RWA and the GSIB surcharge, both under rules currently in effect, as well as a simulation of capital depletion in a severe stress environment. At least annually, the assumptions, judgments and methodologies used to allocate capital are reassessed and, as a result, the capital allocated to the LOBs and Corporate may change. As of January 1, 2025, changes to the Firm's capital allocations are primarily a result of updates to the Firm's current capital requirements and changes in RWA for each LOB under rules currently in effect. Any capital that the Firm has accumulated in excess of these current requirements, including the capital required to meet the potential increased requirements of the U.S. Basel III proposal, has been retained in Corporate in addition to its allocated balance.

The following table presents the capital allocated to each LOB and Corporate.

	January 1, 2025	December 31, 2024 2023	
(in billions)			
Consumer & Community Banking	\$ 56.0	\$ 54.5	\$ 55.5
Commercial & Investment Bank	149.5	132.0	138.0
Asset & Wealth Management	16.0	15.5	17.0
Corporate	103.2	122.7	90.0
<b>Total common stockholders' equity</b>	<b>\$ 324.7</b>	<b>\$ 324.7</b>	<b>\$ 300.5</b>





## Capital actions

### Common stock dividends

The Firm's common stock dividends are planned as part of the Capital Management governance framework in line with the Firm's capital management objectives.

On December 9, 2024, the Firm announced that its Board of Directors had declared a quarterly common stock dividend of \$1.25 per share, payable on January 31, 2025. The Firm's dividends are subject to approval by the Board of Directors on a quarterly basis.

Refer to Note 21 and Note 26 for information regarding dividend restrictions.

The following table shows the common dividend payout ratio based on net income applicable to common equity.

Year ended December 31,	2024	2023	2022
Common dividend payout ratio	24 %	25 %	33 %

### Common stock

On June 28, 2024, the Firm announced that its Board of Directors had authorized a new \$30 billion common share repurchase program, effective July 1, 2024. Through June 30, 2024, the Firm was authorized to purchase up to \$30 billion of common shares under its previously-approved common share repurchase program that was announced on April 13, 2022.

The following table sets forth the Firm's repurchases of common stock for the years ended December 31, 2024, 2023 and 2022.

Year ended December 31, (in millions)	2024	2023	2022 <sup>(b)</sup>
Total number of shares of common stock repurchased	91.7	69.5	23.1
Aggregate purchase price of common stock repurchases <sup>(a)</sup>	\$18,841	\$9,898	\$3,122

(a) Excludes excise tax and commissions. As part of the Inflation Reduction Act of 2022, a 1% excise tax is imposed on net share repurchases commencing January 1,

The Board of Directors' authorization to repurchase common shares is utilized at management's discretion. The \$30 billion common share repurchase program approved by the Board of Directors does not establish specific price targets or timetables. Management determines the amount and timing of common share repurchases based on various factors, including market conditions; legal and regulatory considerations affecting the amount and timing of repurchase activity; the Firm's capital position (taking into account goodwill and intangibles); organic capital generation; current and proposed future capital requirements; and other investment opportunities. The amount of common shares that the Firm repurchases in any period may be substantially more or less than the amounts estimated or actually repurchased in prior periods, reflecting the dynamic nature of the decision-making process. The Firm's common share repurchases may be suspended by management at any time; and may be executed through open market purchases or privately negotiated transactions, or utilizing Rule 10b5-1 plans, which are written trading plans that the Firm may enter into from time to time under Rule 10b5-1 of the Securities Exchange Act of 1934 and which allow the Firm to repurchase its common shares during periods when it may otherwise not be repurchasing common shares – for example, during internal trading blackout periods.

Refer to capital planning and stress testing on pages 97–98 for additional information.

Refer to Part II, Item 5: Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities on page 39 of this 2024 Form 10-K for additional information regarding repurchases of the Firm's equity securities.

### Preferred stock

Preferred stock dividends were \$1.3 billion, \$1.5 billion, and \$1.6 billion for the years ended December 31, 2024, 2023, and 2022,





**Management’s discussion and analysis**

## Other capital requirements

### Total Loss-Absorbing Capacity

The Federal Reserve's TLAC rule requires the U.S. GSIB top-tier holding companies, including the Firm, to maintain minimum levels of external TLAC and eligible long-term debt.

The external TLAC requirements and the minimum level of eligible long-term debt requirements are shown below:

### 25\_4Q\_TLAC\_01 v2.jpg

(a) RWA is the greater of Standardized and Advanced compared to their respective regulatory capital ratio requirements.

Failure to maintain TLAC equal to or in excess of the regulatory minimum plus applicable buffers will result in limitations on the amount of capital that the Firm may distribute, such as through dividends and common share repurchases, as well as on discretionary bonus payments for certain executive officers.

The following table presents the eligible external TLAC and eligible LTD amounts, as well as a representation of these amounts as a percentage of the Firm's total RWA and total leverage exposure applying the impact of the CECL capital transition provisions as of December 31, 2024 and 2023.

	December 31, 2024		December 31, 2023	
(in billions, except ratio)	External TLAC	LTD	External TLAC	LTD
Total eligible amount	\$546.6	\$236.8	\$513.8	\$222.6
% of RWA	31.1 %	13.5 %	30.7 %	13.3 %
Regulatory requirements	23.0	10.5	23.0	10.0
Surplus/(shortfall)	\$142.3	\$ 52.3	\$129.2	\$ 55.4
% of total leverage exposure	11.3 %	4.9 %	11.3 %	4.9 %
Regulatory requirements	9.5	4.5	9.5	4.5
Surplus/(shortfall)	\$ 87.0	\$ 19.2	\$ 82.5	\$ 18.3

Effective January 1, 2024, the Firm's regulatory requirement for its eligible LTD to RWA ratio increased by 50 bps to 10.5%, due to the increase in the Firm's GSIB Method 2 requirements. The Firm's regulatory requirement for its TLAC to RWA ratio remained at 23.0%. Refer to Risk-based Capital Regulatory Requirements on pages 100-101 for further information on the GSIB surcharge.

Refer to Liquidity Risk Management on pages 108-115 for further information on long-term debt issued by the Parent Company.

Refer to Part I, Item 1A: Risk Factors on pages 10-37 of this 2024 Form 10-K for information on the financial consequences to holders of the Firm's debt and equity securities in a resolution scenario.





## U.S. broker-dealer regulatory capital

### J.P. Morgan Securities

JPMorganChase's principal U.S. broker-dealer subsidiary is J.P. Morgan Securities. J.P. Morgan Securities is subject to the regulatory capital requirements of Rule 15c3-1 under the Securities Exchange Act of 1934 (the "Net Capital Rule"). J.P. Morgan Securities is also registered as a futures commission merchant and is subject to regulatory capital requirements, including those imposed by the SEC, the Commodity Futures Trading Commission ("CFTC"), the Financial Industry Regulatory Authority ("FINRA") and the National Futures Association ("NFA").

J.P. Morgan Securities has elected to compute its minimum net capital requirements in accordance with the "Alternative Net Capital Requirements" of the Net Capital Rule.

The following table presents J.P. Morgan Securities' net capital.

December 31, 2024		
(in millions)	Actual	Minimum
Net Capital	\$ 24,980	\$ 5,999

J.P. Morgan Securities is registered with the SEC as a security-based swap dealer and with the CFTC as a swap dealer. As a result of additional SEC and CFTC capital and financial reporting requirements for security-based swap dealers and swap dealers, J.P. Morgan Securities is subject to alternative minimum net capital requirements and required to hold "tentative net capital" in excess of \$5.0 billion. J.P. Morgan Securities is also required to notify the SEC and CFTC in the event that its tentative net capital is less than \$6.0 billion. Tentative net capital is net capital before deducting market and credit risk charges as defined by the Net Capital Rule. As of December 31, 2024, J.P. Morgan Securities maintained tentative net capital in excess of the minimum and notification requirements.

## Non-U.S. subsidiary regulatory capital

standards until January 1, 2027, with a three-year transitional period for certain aspects.

The Bank of England requires that U.K. banks, including U.K. regulated subsidiaries of overseas groups, maintain minimum requirements for own funds and eligible liabilities ("MREL"). As of December 31, 2024, J.P. Morgan Securities plc was compliant with its MREL requirements. The following table presents J.P. Morgan Securities plc's risk-based and leverage-based capital metrics.

December 31, 2024		
(in millions, except ratios)	Actual	Regulatory Minimum ratios <sup>(a)</sup>
Total capital	\$ 53,120	
CET1 capital ratio	17.0 %	4.5 %
Tier 1 capital ratio	22.1	6.0
Total capital ratio	27.1	8.0
Tier 1 leverage ratio	7.1	3.3 <sup>(b)</sup>

(a) Represents minimum Pillar 1 requirements specified by the PRA. J.P. Morgan Securities plc's capital ratios as of December 31, 2024 exceeded the minimum requirements, including the additional capital requirements specified by the PRA.

(b) At least 75% of the Tier 1 leverage ratio minimum must be met with CET1 capital.

### J.P. Morgan SE

JPMSE is a wholly-owned subsidiary of JPMorgan Chase Bank, N.A. and has authority to engage in banking, investment banking and markets activities. JPMSE is regulated by the European Central Bank ("ECB"), the German Financial Supervisory Authority and the German Central Bank, as well as the local regulators in each of the countries in which it operates, and it is subject to EU capital requirements under Basel III. JPMSE is subject to the EU implementation of the final Basel III standards. Those standards became effective beginning on January 1, 2025, with the exception of market risk aspects for which the effective date is January 1, 2026.

JPMSE is required by the EU Single



**Management’s discussion and analysis**

**LIQUIDITY RISK MANAGEMENT**

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Liquidity risk is the risk that the Firm will be unable to meet its cash and collateral needs as they arise or that it does not have the appropriate amount, composition and tenor of funding and liquidity to support its assets and liabilities.

### **Liquidity risk management**

The Firm has a Liquidity Risk Management ("LRM") function whose primary objective is to provide independent oversight of liquidity risk across the Firm. Liquidity Risk Management's responsibilities include:

- Defining, monitoring and reporting liquidity risk metrics;
- Independently establishing and monitoring limits and indicators, including liquidity risk appetite;
- Developing a process to classify, monitor and report limit breaches;
- Performing an independent review of liquidity risk management processes to evaluate their adequacy and effectiveness;
- Monitoring and reporting internal Firmwide and legal entity liquidity stress tests, regulatory defined metrics, as well as liquidity positions, balance sheet variances and funding activities; and
- Approving or escalating for review new or updated liquidity stress assumptions.

### **Liquidity management**

Treasury and CIO is responsible for liquidity management.

The primary objectives of the Firm's liquidity management are to:

- Ensure that the Firm's core businesses and material legal entities are able to operate in support of client needs and meet contractual and contingent financial obligations through normal economic cycles as well as during stress events, and
- Manage an optimal funding mix and availability of liquidity sources.

The Firm addresses these objectives through:

- Analyzing and understanding the liquidity characteristics of the assets and liabilities of the Firm

- Managing compliance with regulatory requirements related to funding and liquidity risk; and
- Setting FTP in accordance with underlying liquidity characteristics of balance sheet assets and liabilities as well as certain off-balance sheet items.

As part of the Firm's overall liquidity management strategy, the Firm manages liquidity and funding using a centralized, global approach designed to:

- Optimize liquidity sources and uses;
- Monitor exposures;
- Identify constraints on the transfer of liquidity between the Firm's legal entities; and
- Maintain the appropriate amount of surplus liquidity at a Firmwide and legal entity level, where relevant.

### **Governance**

Committees responsible for liquidity governance include the Firmwide ALCO, as well as regional ALCOs, the Treasurer Committee, and the CTC Risk Committee. In addition, the Board Risk Committee reviews and recommends to the Board of Directors, for approval, the Firm's liquidity risk tolerances, liquidity strategy, and liquidity policy. Refer to Firmwide Risk Management on pages 91-95 for further discussion of ALCO and other risk-related committees.

### **Internal stress testing**

The Firm conducts internal liquidity stress testing to monitor liquidity positions at the Firm and its material legal entities under a variety of adverse scenarios, including scenarios analyzed as part of the Firm's resolution and recovery planning. Internal stress tests are produced on a daily basis, and other stress tests are performed in response to specific market events or concerns. Liquidity stress tests assume all of the Firm's contractual financial obligations are met and take into consideration:

- Varying levels of access to unsecured and secured funding markets;
- Estimated non-contractual and







long-term debt issuances, and its intermediate holding company, JPMorgan Chase Holdings LLC (the "IHC"), provides funding to support the ongoing operations of the Parent Company and its subsidiaries. The Firm manages liquidity at the Parent Company, the IHC, and operating subsidiaries at levels sufficient to comply with liquidity risk tolerances and minimum liquidity requirements, and to manage through periods of stress when access to normal funding sources may be disrupted.

### Contingency funding plan

The Firm's Contingency Funding Plan ("CFP") sets out the strategies for addressing and managing liquidity resource needs during a liquidity stress event and incorporates liquidity risk limits, indicators and risk appetite tolerances. The CFP also identifies the alternative contingent funding and liquidity resources available to the Firm and its legal entities in a period of stress.

### LCR and HQLA

The LCR rule requires that the Firm and JPMorgan Chase Bank, N.A. maintain an amount of eligible HQLA that is sufficient to meet their respective estimated total net cash outflows over a prospective 30 calendar-day period of significant stress. Eligible HQLA, for purposes of calculating the LCR, is the amount of unencumbered HQLA that satisfy certain operational considerations as defined in the LCR rule. HQLA primarily consist of cash and certain high-quality liquid securities as defined in the LCR rule.

Under the LCR rule, the amount of eligible HQLA held by JPMorgan Chase Bank, N.A. that is in excess of its stand-alone 100% minimum LCR requirement, and that is not transferable to non-bank affiliates, must be excluded from the Firm's reported eligible HQLA.

Estimated net cash outflows are based on standardized stress outflow and inflow rates prescribed in the LCR rule, which are applied to the balances of the Firm's assets, including cash and cash equivalents, and

The following table summarizes the Firm and JPMorgan Chase Bank, N.A.'s average LCR for the three months ended December 31, 2024, September 30, 2024 and December 31, 2023 based on the Firm's interpretation of the LCR framework.

Average amount (in millions)	Three months ended		
	December 31, 2024	September 30, 2024	December 31, 2023
<b>JPMorgan Chase &amp; Co.:</b>			
<b>HQLA</b>			
Eligible cash <sup>(a)</sup>	\$ 396,123	\$ 412,389	\$ 485,263
Eligible securities <sup>(b)</sup>			
(c)	464,877	453,899	313,365
<b>Total HQLA<sup>(d)</sup></b>	<b>\$ 861,000</b>	<b>\$ 866,288</b>	<b>\$ 798,628</b>
Net cash outflows	\$ 763,648	\$ 762,072	\$ 704,857
<b>LCR</b>	<b>113 %</b>	<b>114 %</b>	<b>113 %</b>
<b>Net excess eligible HQLA<sup>(d)</sup></b>			
	<b>\$ 97,352</b>	<b>\$ 104,216</b>	<b>\$ 93,771</b>
<b>JPMorgan Chase Bank, N.A.:</b>			
<b>LCR</b>	<b>124 %</b>	<b>121 %</b>	<b>129 %</b>
<b>Net excess eligible HQLA</b>			
	<b>\$ 193,682</b>	<b>\$ 168,137</b>	<b>\$ 215,190</b>

(a) Represents cash on deposit at central banks, primarily the Federal Reserve Banks.

(b) Eligible HQLA securities may be reported in securities borrowed or purchased under resale agreements, trading assets, or investment securities on the Firm's Consolidated balance sheets. For purposes of calculating the LCR, HQLA securities are included at fair value, which may differ from the accounting treatment under U.S. GAAP.

(c) Predominantly U.S. Treasuries, U.S. GSE and government agency MBS, and sovereign bonds net of regulatory haircuts under the LCR rule.

(d) Excludes average excess eligible HQLA at JPMorgan Chase Bank, N.A. that are not transferable to non-bank affiliates.

JPMorgan Chase Bank, N.A.'s average LCR increased during the three months ended December 31, 2024, from 121% to 124%.



**Management’s discussion and analysis**

Each of the Firm and JPMorgan Chase Bank, N.A.'s average LCR may fluctuate from period to period due to changes in their respective eligible HQLA and estimated net cash outflows as a result of ongoing business activity and from the impacts of Federal Reserve actions as well as other factors. Refer to the Firm's U.S. LCR Disclosure reports, which are available on the Firm's website, for a further discussion of the Firm's LCR.

### **Liquidity sources**

In addition to the assets reported in the Firm's eligible HQLA discussed above, the Firm had unencumbered marketable securities, such as equity and debt securities, that the Firm believes would be available to raise liquidity. This includes excess eligible HQLA securities at JPMorgan Chase Bank, N.A. that are not transferable to non-bank affiliates. The fair value of these securities was approximately \$594 billion and \$649 billion as of December 31, 2024 and 2023, respectively, although the amount of liquidity that could be raised at any particular time would be dependent on prevailing market conditions. The decrease compared to December 31, 2023, was driven by reductions in unencumbered AFS securities in Treasury and CIO, excess eligible HQLA securities at JPMorgan Chase Bank, N.A., and unencumbered CIB trading assets.

The Firm had approximately \$1.4 trillion of available cash and securities as of both December 31, 2024 and 2023. For each respective period, the amount was comprised of eligible end-of-period HQLA, excluding the impact of regulatory haircuts, of approximately \$834 billion and \$798 billion, and unencumbered marketable securities with a fair value of approximately \$594 billion and \$649 billion.

The Firm also had available borrowing capacity at the Federal Home Loan Banks ("FHLBs") and the discount window at the Federal Reserve Banks as a result of collateral pledged by the Firm to such banks of approximately \$413 billion and \$340

### **NSFR**

The net stable funding ratio ("NSFR") is a liquidity requirement for large banking organizations that is intended to measure the adequacy of "available" stable funding that is sufficient to meet their "required" amounts of stable funding over a one-year horizon.

For the three months ended December 31, 2024, both the Firm and JPMorgan Chase Bank, N.A. were compliant with the 100% minimum NSFR requirement, based on the Firm's interpretation of the final NSFR rule. Refer to the Firm's U.S. NSFR Disclosure report on the Firm's website for additional information.



## Funding

### Sources of funds

Management believes that the Firm's unsecured and secured funding capacity is sufficient to meet its on- and off-balance sheet obligations, which includes both short- and long-term cash requirements.

The Firm funds its global balance sheet through diverse sources of funding including deposits, secured and unsecured funding in the capital markets and stockholders' equity. Deposits are the primary funding source for JPMorgan Chase Bank, N.A. Additionally, JPMorgan Chase Bank, N.A. may access funding through short- or long-term secured borrowings, the issuance of unsecured long-term debt, or from

borrowings from the IHC. The Firm's non-bank subsidiaries are primarily funded from long-term unsecured borrowings and short-term secured borrowings which are primarily securities loaned or sold under repurchase agreements. Excess funding is invested by Treasury and CIO in the Firm's investment securities portfolio or deployed in cash or other short-term liquid investments based on their interest rate and liquidity risk characteristics.

Refer to Note 28 for additional information on off-balance sheet obligations.

### Deposits

The table below summarizes, by LOB and Corporate, the period-end and average deposit balances as of and for the years ended December 31, 2024 and 2023.

As of or for the year ended December 31, (in millions)			Average	
	2024	2023	2024	2023
Consumer & Community Banking <sup>(a)</sup>	\$1,056,652	\$1,094,738	\$1,064,215	\$1,126,552
Commercial & Investment Bank <sup>(a)</sup>	1,073,512	1,050,892	1,061,488	996,295
Asset & Wealth Management <sup>(a)</sup>	248,287	233,232	235,146	216,178
Corporate	27,581	21,826	25,793	20,042
<b>Total Firm</b>	<b>\$2,406,032</b>	<b>\$2,400,688</b>	<b>\$2,386,642</b>	<b>\$2,359,067</b>

(a) In the fourth quarter of 2023, CCB transferred certain deposits associated with First Republic to AWM and CIB.



The Firm believes that deposits provide a stable source of funding and reduce the Firm's reliance on the wholesale funding markets. A significant portion of the Firm's deposits are consumer deposits and wholesale operating deposits, which are both considered to be stable sources of liquidity. Wholesale operating deposits are generally considered to be stable sources of liquidity because they are generated from customers that maintain operating service relationships with the Firm.

The Firm believes that average deposit balances are generally more representative of deposit trends than period-end deposit balances. However, during periods of market disruption, average deposit trends may be impacted.

The following discussion excludes the impact of the transfer of certain First Republic deposits in the fourth quarter of 2023 from CCB to the other LOBs as the transfers had no net impact on Firmwide deposits.

**Average deposits** increased for the year ended December 31, 2024 compared to the year ended December 31, 2023, reflecting:

- an increase in CIB due to net inflows predominantly in Payments and net issuances of structured notes as a result of client demand in Markets, partially offset by deposit attrition, which included actions taken to reduce certain deposits,
- the timing impact of First Republic,

- an increase in AWM as a result of growth in balances in new and existing client accounts, reflecting the impact of higher-yielding product offerings, largely offset by continued migration into other investments, and
- a decline in CCB primarily driven by a decrease in balances in existing accounts due to increased customer spending, largely offset by new accounts.

**Period-end deposits** increased from December 31, 2023, reflecting:

- an increase in CIB due to net inflows predominantly in Payments, largely offset by net maturities of structured notes in Markets,
- an increase in AWM as a result of growth in balances in new and existing client accounts, reflecting the impact of higher-yielding product offerings, largely offset by continued migration into other investments, and
- a decline in CCB primarily driven by a decrease in balances in existing accounts due to increased customer spending and migration into higher-yielding investments, predominantly offset by new accounts.

Refer to the Firm's Consolidated Balance Sheets Analysis and the Business Segment & Corporate Results on pages 63-65 and pages 70-90, respectively, for further information on deposit and liability balance trends, as well as Executive Overview

**Management’s discussion and analysis**

on pages 54-58 and Note 34 for additional information on the First Republic acquisition. Refer to Note 3 for further information on structured notes.

Certain deposits are covered by insurance protection that provides additional funding stability and results in a benefit to the LCR. Deposit insurance protection may be available to depositors in the countries in which the deposits are placed. For example, the FDIC provides deposit insurance protection for deposits placed in a U.S. depository institution. At December 31, 2024 and 2023<sup>(a)</sup>, the Firmwide estimated uninsured deposits were \$1,414.0 billion and \$1,347.8 billion, respectively, primarily reflecting wholesale operating deposits.

Total uninsured deposits include time deposits. The table below presents an estimate of uninsured U.S. and non-U.S. time deposits, and their remaining maturities. The Firm's estimates of its uninsured U.S. time deposits are based on data that the Firm calculates periodically under applicable FDIC regulations. For purposes of this presentation, all non-U.S. time deposits are deemed to be uninsured.

	December 31, 2024		December 31, 2023	
(in millions)	U.S.	Non-U.S.	U.S.	Non-U.S.
Three months or less	\$119,333	\$77,253	\$ 98,606	<sup>(a)</sup> \$77,466
Over three months but within 6 months	11,040	12,229	17,736	5,358
Over six months but within 12 months	7,056	1,542	10,294	4,820
Over 12 months	823	1,924	710	2,543
<b>Total</b>	<b>\$138,252</b>	<b>\$92,948</b>	<b>\$127,346</b>	<b><sup>(a)</sup> \$90,187</b>

(a) Prior-period amounts have been revised to include cash collateral for certain derivatives to align with a change in the methodology for calculating uninsured U.S. time deposits.

The table below shows the loan and deposit balances, the loans-to-deposits ratios, and deposits as a percentage of total liabilities, as of December 31, 2024 and 2023.

As of December 31, (in billions except ratios)	2024	2023
Deposits	\$ 2,406.0	\$ 2,400.7
Deposits as a % of total liabilities	66 %	68 %
Loans	\$ 1,348.0	\$ 1,323.7
Loans-to-deposits		

The following table provides a summary of the average balances and average interest rates of JPMorganChase's deposits for the years ended December 31, 2024, 2023, and 2022.

Year ended December 31, (in millions, except interest rates)	Average balances			Average interest rates		
	2024	2023	2022	2024	2023	2022
<b>U.S. offices</b>						
Noninterest-bearing	\$ 611,734	\$ 635,791	\$ 691,206	NA	NA	NA
Interest-bearing						
Demand <sup>(a)</sup>	282,533	279,725	324,512	3.90 %	3.50 %	0.92 %
Savings <sup>(b)</sup>	800,964	864,558	971,788	1.39	1.10	0.28
Time	223,503	145,827	62,022	4.93	4.74	2.07
<b>Total interest-bearing deposits</b>	<b>1,307,000</b>	<b>1,290,110</b>	<b>1,358,322</b>	<b>2.54</b>	<b>2.03</b>	<b>0.52</b>
<b>Total deposits in U.S. offices</b>	<b>1,918,734</b>	<b>1,925,901</b>	<b>2,049,528</b>	<b>1.73</b>	<b>1.36</b>	<b>0.34</b>
<b>Non-U.S. offices</b>						
Noninterest-bearing	26,858	24,747	28,043	NA	NA	NA
Interest-bearing						
Demand	346,179	321,976	324,740	3.13	2.71	0.57
Time	94,871	86,443	65,604	5.86	5.82	1.85
<b>Total interest-bearing deposits</b>	<b>441,050</b>	<b>408,419</b>	<b>390,344</b>	<b>3.72</b>	<b>3.37</b>	<b>0.78</b>
<b>Total deposits in non-U.S. offices</b>	<b>467,908</b>	<b>433,166</b>	<b>418,387</b>	<b>3.50</b>	<b>3.18</b>	<b>0.73</b>
<b>Total deposits</b>	<b>\$2,386,642</b>	<b>\$2,359,067</b>	<b>\$2,467,915</b>	<b>2.08 %</b>	<b>1.70 %</b>	<b>0.41 %</b>

(a) Includes Negotiable Order of Withdrawal accounts, and certain trust accounts.

(b) Includes Money Market Deposit Accounts.

Refer to Note 17 for additional information on deposits.

The following table summarizes short-term and long-term funding, excluding deposits, as of December 31, 2024 and 2023, and average balances for the years ended December 31, 2024 and 2023. Refer to the Consolidated Balance Sheets Analysis on pages 63-65 and Note 11 for additional information.

### Sources of funds (excluding deposits)

As of or for the year ended December 31, (in millions)	2024	2023	Average	
			2024	2023
Commercial paper	\$ 14,932	\$ 14,737	\$ 11,398	\$ 12,675
Other borrowed funds	13,018	8,200	12,040	9,712
Federal funds purchased	567	787	1,547	1,754
<b>Total short-term unsecured funding</b>	<b>\$ 28,517</b>	<b>\$ 23,724</b>	<b>\$ 24,985</b>	<b>\$ 24,141</b>
Securities sold under agreements to repurchase <sup>(a)</sup>	\$ 291,500	\$ 212,804	\$ 357,144	\$ 249,661
Securities loaned <sup>(a)</sup>	4,768	2,944	5,129	4,671
Other borrowed funds	24,943	21,775	25,504	22,010
Obligations of Firm-administered multi-seller conduits <sup>(b)</sup>	18,228	17,781	18,620	14,918
<b>Total short-term secured funding</b>	<b>\$ 339,439</b>	<b>\$ 255,304</b>	<b>\$ 406,397</b>	<b>\$ 291,260</b>
Senior notes	\$ 203,639	\$ 191,202	\$ 199,908	\$ 181,803
Subordinated debt	16,060	19,708	18,614	20,374
Structured notes <sup>(c)</sup>	98,792	86,056	93,483	76,574
<b>Total long-term unsecured funding</b>	<b>\$ 318,491</b>	<b>\$ 296,966</b>	<b>\$ 312,005</b>	<b>\$ 278,751</b>
Credit card securitization <sup>(b)</sup>	\$ 5,312	\$ 2,998	\$ 5,138	\$ 1,634
FHLB advances	29,257	41,246	35,040 <sup>(g)</sup>	28,865
Purchase Money Note <sup>(d)</sup>	49,207	\$ 48,989	\$ 49,090	\$ 32,829
Other long-term secured funding <sup>(e)</sup>	4,463	4,624	4,676	4,513
<b>Total long-term secured funding</b>	<b>\$ 88,239</b>	<b>\$ 97,857</b>	<b>\$ 93,944</b>	<b>\$ 67,841</b>
<b>Preferred stock<sup>(f)</sup></b>	<b>\$ 20,050</b>	<b>\$ 27,404</b>	<b>\$ 24,054</b>	<b>\$ 27,404</b>
<b>Common stockholders' equity<sup>(f)</sup></b>	<b>\$ 324,708</b>	<b>\$ 300,474</b>	<b>\$ 312,370</b>	<b>\$ 282,056</b>

(a) Primarily consists of short-term securities loaned or sold under agreements to repurchase.

(b) Included in beneficial interests issued by consolidated variable interest entities on the Firm's Consolidated balance sheets.

(c) Includes certain TLAC-eligible long-term unsecured debt issued by the Parent Company.

(d) Reflects the Purchase Money Note associated with the First Republic acquisition on May 1, 2023. Refer to Note 34 for additional information.

(e) Includes long-term structured notes that are secured.

(f) Refer to Capital Risk Management on pages 97-107, Consolidated statements of changes in stockholders' equity on page 175, Note 21 and Note 22 for additional information on preferred stock and common stockholders' equity.

(g) Includes the timing impact of First Republic. Refer to the Executive Overview on pages 54-58 and Note 34 for additional information.

### Short-term funding

The Firm's primary source of short-term secured funding is securities sold under agreements to repurchase. These instruments are secured predominantly by high-quality securities collateral, including government-issued debt and U.S. GSE and government agency MBS. Securities sold under agreements to repurchase increased at December 31, 2024, compared with December 31, 2023, driven by Markets, reflecting higher client-driven market-making activities and higher secured financing of trading assets.

The increase in secured other borrowed funds at December 31, 2024 from December 31, 2023, as well as the increase for the average year ended December 31, 2024, compared to the prior year period, were both due to higher financing requirements in Markets, partially offset by FHLB maturities in Treasury and CIO.

The balances associated with securities loaned or sold under agreements to repurchase fluctuate over time due to investment and financing activities of clients,

the Firm's demand for financing, the ongoing management of the mix of the Firm's liabilities, including its secured and unsecured financing (for both the investment securities and market-making portfolios), and other market and portfolio factors.

The Firm's primary sources of short-term unsecured funding consist of issuances of wholesale commercial paper and other borrowed funds.

The decrease in average commercial paper for the year ended December 31, 2024 compared to the prior year period was due to lower issuances primarily as a result of short-term liquidity management.

The increase in unsecured other borrowed funds at December 31, 2024 from December 31, 2023, was predominantly driven by net issuances of structured notes in Markets.

## Management's discussion and analysis

### Long-term funding

Long-term funding provides an additional source of stable funding and liquidity for the Firm. The Firm's long-term funding plan is driven primarily by expected client activity, liquidity considerations and regulatory requirements, including TLAC. Long-term funding objectives include maintaining diversification, maximizing market access and optimizing funding costs. The Firm evaluates various funding markets, tenors and currencies in creating its optimal long-term funding plan.

#### Unsecured funding and issuance

The significant majority of the Firm's total outstanding long-term debt has been issued by the Parent Company to provide flexibility in support of the funding needs of both bank and non-bank subsidiaries. The Parent Company advances substantially all net funding proceeds to its subsidiary, the IHC. The IHC does not issue debt to external counterparties. The increase in structured notes at December 31, 2024 from December 31, 2023, and for the average year ended December 31, 2024, compared to the prior year period, was primarily driven by net issuances of structured notes in Markets due to client demand.

The following table summarizes long-term unsecured issuance and maturities or redemptions for the years ended December 31, 2024 and 2023. Refer to Note 20 for additional information on the IHC and long-term debt.

### Long-term unsecured funding

Year ended December 31, (Notional in millions)	2024	2023	2024	2023
	Parent Company		Subsidiaries	
<b>Issuance</b>				
Senior notes issued in the U.S. market	\$ 37,000	\$ 14,256	\$ –	\$ 3,750
Senior notes issued in non-U.S. markets	4,079	2,141	–	–
<b>Total senior notes</b>	<b>41,079</b>	<b>16,397</b>	<b>–</b>	<b>3,750</b>
Structured notes <sup>(a)</sup>	3,944	3,013	54,993	35,281
<b>Total long-term unsecured funding - issuance</b>	<b>\$ 45,023</b>	<b>\$ 19,410</b>	<b>\$ 54,993</b>	<b>\$ 39,031</b>
<b>Maturities/redemptions</b>				
Senior notes	\$ 25,765	\$ 21,483	\$ 65	\$ 67
Subordinated debt	3,097	2,090	250	–
Structured notes	892	1,532	47,425	28,777
<b>Total long-term unsecured funding - maturities/ redemptions</b>	<b>\$ 29,754</b>	<b>\$ 25,105</b>	<b>\$ 47,740</b>	<b>\$ 28,844</b>

(a) Includes certain TLAC-eligible long-term unsecured debt issued by the Parent Company.

#### Secured funding and issuance

The Firm can also raise secured long-term funding through securitization of consumer credit card loans and FHLB advances. The following table summarizes the securitization issuance, the FHLB advances and their respective maturities or redemptions, as applicable for the years ended December 31, 2024 and 2023.

## Long-term secured funding

Year ended December 31, (in millions)	Issuance		Maturities/Redemptions	
	2024	2023	2024	2023
Credit card securitization	\$ 2,348	\$ 1,998	\$ —	\$ 1,000
FHLB advances	6,000	39,775 <sup>(c)</sup>	18,050	9,485
Purchase Money Note <sup>(a)</sup>	—	50,000	—	\$ —
Other long-term secured funding <sup>(b)</sup>	1,578	991	1,049	432
<b>Total long-term secured funding</b>	<b>\$ 9,926</b>	<b>\$ 92,764</b>	<b>\$ 19,099</b>	<b>\$ 10,917</b>

(a) Reflects the Purchase Money Note associated with the First Republic acquisition. Refer to Note 34 for additional information.

(b) Includes long-term structured notes that are secured.

(c) Includes FHLB advances associated with the First Republic acquisition on May 1, 2023. Refer to Note 34 for additional information.

The Firm's wholesale businesses also securitize loans for client-driven transactions; those client-driven loan securitizations are not considered to be a source of funding for the Firm and are not included in the table above. Refer to Note 14 for a further description of client-driven loan securitizations.



## Credit ratings

The cost and availability of financing are influenced by credit ratings. Reductions in these ratings could have an adverse effect on the Firm's access to liquidity sources, increase the cost of funds, trigger additional collateral or funding requirements and decrease the number of investors and counterparties willing to lend to the Firm. The nature and magnitude of the impact of ratings downgrades depends on numerous contractual and behavioral factors, which the Firm

believes are incorporated in its liquidity risk and stress testing metrics. The Firm believes that it maintains sufficient liquidity to withstand a potential decrease in funding capacity due to ratings downgrades.

Additionally, the Firm's funding requirements for VIEs and other third-party commitments may be adversely affected by a decline in credit ratings. Refer to Notes 5 and 14 for additional information.

The credit ratings of the Parent Company and certain of its principal subsidiaries as of December 31, 2024 were as follows:

	JPMorgan Chase & Co.			JPMorgan Chase Bank, N.A.			J.P. Morgan Securities LLC		
							J.P. Morgan Securities plc		
							J.P. Morgan SE <sup>(a)</sup>		
December 31, 2024	Long-term issuer	Short-term issuer	Outlook	Long-term issuer	Short-term issuer	Outlook	Long-term issuer	Short-term issuer	Outlook
Moody's Investors Service <sup>(a)</sup>	A1	P-1	Positive	Aa2	P-1	Developing	Aa3	P-1	Positive
Standard & Poor's <sup>(b)</sup>	A	A-1	Stable	AA-	A-1+	Stable	AA-	A-1+	Stable
Fitch Ratings	AA-	F1+	Stable	AA	F1+	Stable	AA	F1+	Stable

(a) On November 11, 2024, Moody's (i) affirmed the credit ratings of the Parent Company, JPMorgan Chase Bank, N.A. and the other subsidiaries listed above; (ii) revised its outlook for the Parent Company, J.P. Morgan Securities LLC and J.P. Morgan Securities plc from stable to positive; (iii) revised its outlook for JPMorgan Chase Bank, N.A. from negative to developing, reflecting its view with respect to possible support from the U.S. government; and (iv) assessed its outlook for J.P. Morgan SE as negative with an "(m)" modifier, reflecting a negative outlook for long-term bank deposits and a positive outlook for the long-term issuer rating.

(b) The credit ratings of the Parent Company, JPMorgan Chase Bank, N.A. and the other subsidiaries presented in the table reflect ratings upgrades by Standard & Poor's on November 15, 2024. Standard & Poor's also revised its outlook for the Parent Company and such subsidiaries from positive to stable.

JPMorganChase's unsecured debt does not contain requirements that would call for an acceleration of payments, maturities or changes in the structure of the existing debt, provide any limitations on future borrowings or require additional collateral, based on unfavorable changes in the Firm's credit ratings, financial ratios, earnings, or stock price.

Critical factors in maintaining high credit ratings include a stable and diverse earnings stream, strong capital and liquidity ratios, strong credit quality and risk management controls, and diverse funding sources. Rating agencies continue to evaluate economic and geopolitical trends, regulatory developments, future profitability, risk management practices, and litigation matters, as well as their broader ratings methodologies. Changes in any of these factors could lead to changes in the Firm's credit ratings.

## REPUTATION RISK MANAGEMENT

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Reputation risk is the risk that an action or inaction may negatively impact perception of the Firm's integrity and reduce confidence in the Firm's competence by various stakeholders, including clients, counterparties, customers, communities, investors, regulators, or employees.

The types of events that may result in reputation risk are wide-ranging and can be introduced by the Firm's employees, business strategies and activities, clients, customers and counterparties with which the Firm does business. These events could contribute to financial losses, litigation, regulatory enforcement actions, fines, penalties or other sanctions, as well as other harm to the Firm.

### Organization and management

Reputation Risk Management is an independent risk management function that establishes the governance framework for managing reputation risk across the Firm's LOBs and Corporate. Reputation risk is inherently challenging to identify, manage, and quantify.

The Firm's reputation risk management function includes the following activities:

- Maintaining a Firmwide Reputation Risk Governance policy and a standard consistent with the reputation risk framework
- Providing oversight of the governance framework through processes and infrastructure to support consistent identification, escalation and monitoring of reputation risk issues Firmwide

### Governance and oversight

The Reputation Risk Governance policy establishes the principles for managing reputation risk for the Firm. It is the responsibility of each LOB and Corporate, and the Firm's employees, to consider the reputation of the Firm when deciding whether to offer a new product, engage in a transaction or client relationship, enter a new jurisdiction, initiate a business process or consider any other activity. Environmental impacts and social concerns are important considerations in assessing the Firm's reputation risk, and are a component of the Firm's reputation risk governance.



## CREDIT AND INVESTMENT RISK MANAGEMENT

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Credit and investment risk is the risk associated with the default or change in credit profile of a client, counterparty or customer; or loss of principal or a reduction in expected returns on investments, including consumer credit risk, wholesale credit risk, and investment portfolio risk.

### **Credit risk management**

Credit risk is the risk associated with the default or change in credit profile of a client, counterparty or customer. The Firm provides credit to a variety of clients and customers, ranging from large corporate and institutional clients to individual consumers and small businesses. In its consumer businesses, the Firm is exposed to credit risk primarily through its home lending, credit card, auto, and business banking businesses. In its wholesale businesses, the Firm is exposed to credit risk through its underwriting, lending, market-making, and hedging activities with and for clients and counterparties, as well as through its operating services activities (such as cash management and clearing activities), and securities financing activities. The Firm is also exposed to credit risk through its investment securities portfolio and cash placed with banks.

Credit Risk Management monitors and measures credit risk throughout the Firm, and defines credit risk policies, procedures and limits. The Firm's credit risk management governance includes the following activities:

- Maintaining a credit risk policy framework
- Monitoring and measuring credit risk across all portfolio segments, including transaction and exposure approval
- Setting industry and geographic concentration limits, as appropriate, and setting guidelines for credit review and analysis
- Assigning and maintaining credit approval authorities in connection with the approval of credit exposure

### **Risk identification and measurement**

To measure credit risk, the Firm employs several methodologies for estimating the likelihood of obligor or counterparty default.

Methodologies for measuring credit risk vary depending on several factors, including type of asset (e.g., consumer versus wholesale), risk measurement parameters (e.g., delinquency status and borrower's credit score versus wholesale risk-rating) and risk management and collection processes (e.g., retail collection center versus centrally managed workout groups). Credit risk measurement is based on the probability of default of an obligor or counterparty, the loss severity given a default event and the exposure at default.

Based on these factors and the methodology and estimates described in Note 13 and Note 10, the Firm estimates credit losses for its exposures. The allowance for loan losses reflects estimated credit losses related to the consumer and wholesale held-for-investment loan portfolios, the allowance for lending-related commitments reflects estimated credit losses related to the Firm's lending-related commitments and the allowance for investment securities reflects estimated credit losses related to the investment securities portfolio. Refer to Note 13, Note 10 and Critical Accounting Estimates used by the Firm on pages 161-164 for further information.

In addition, potential and unexpected credit losses are reflected in the allocation of credit risk capital and represent the potential volatility of actual losses relative to the established allowances for loan losses and lending-related commitments. The analyses for these losses include stress testing that considers alternative economic scenarios as described below.

### **Stress testing**

Stress testing is important in measuring and managing credit risk in the Firm's credit portfolio. The stress testing process assesses the



**Management’s discussion and analysis**



### **Risk monitoring and management**

The Firm has developed policies and practices that are designed to preserve the independence and integrity of the approval and decision-making process for extending credit so that credit risks are assessed accurately, approved properly, monitored regularly and managed actively at both the transaction and portfolio levels. The policy framework establishes credit approval authorities, concentration limits, risk-rating methodologies, portfolio review parameters and guidelines for management of distressed exposures. In addition, certain models, assumptions and inputs used in evaluating and monitoring credit risk are independently validated by groups that are separate from the LOBs.

Consumer credit risk is monitored for delinquency and other trends, including any concentrations at the portfolio level, as certain of these trends can be addressed through changes in underwriting policies and portfolio guidelines. Consumer Risk Management evaluates delinquency and other trends against business expectations, current and forecasted economic conditions, and industry benchmarks. Historical and forecasted economic performance and trends are incorporated into the modeling of estimated consumer credit losses and are part of the monitoring of the credit risk profile of the portfolio.

Wholesale credit risk is monitored regularly at an aggregate portfolio, industry, and individual client and counterparty level with established concentration limits that are reviewed and revised periodically as deemed appropriate by management. Industry and counterparty limits, as measured in terms of exposure and economic risk appetite, are subject to stress-based loss constraints.

Management of the Firm's wholesale credit risk exposure is accomplished through a number of means, including:

- Loan underwriting and credit approval processes
- Loan syndications and participations

In addition to Credit Risk Management, an independent Credit Review function is responsible for:

- Independently assessing risk grades assigned to exposures in the Firm's wholesale credit portfolio and the timeliness of risk grade changes initiated by responsible business units; and
- Evaluating the effectiveness of the credit management processes of the LOBs and Corporate, including the adequacy of credit analyses and risk grading/loss given default ("LGD") rationales, proper monitoring and management of credit exposures, and compliance with applicable grading policies and underwriting guidelines.

Refer to Note 12 for further discussion of consumer and wholesale loans.

### **Risk reporting**

To enable monitoring of credit risk and effective decision-making, aggregate credit exposure, credit quality forecasts, concentration levels and risk profile changes are reported regularly to senior members of Credit Risk Management. Detailed portfolio reporting of industry, clients, counterparties and customers, product and geography are prepared, and the appropriateness of the allowance for credit losses is reviewed by senior management at least on a quarterly basis. Through the risk reporting and governance structure, credit risk trends and limit exceptions are provided regularly to, and discussed with, risk committees, senior management and the Board of Directors.



CREDIT PORTFOLIO

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Credit risk is the risk associated with the default or change in credit profile of a client, counterparty or customer.

In the following tables, total loans include loans retained (i.e., held-for-investment); loans held-for-sale; and certain loans accounted for at fair value. The following tables do not include loans which the Firm accounts for at fair value and classifies as trading assets; refer to Notes 2 and 3 for further information regarding these loans. Refer to Notes 12, 28, and 5 for additional information on the Firm's loans, lending-related commitments and derivative receivables, including the Firm's related accounting policies.

Refer to Note 10 for information regarding the credit risk inherent in the Firm's investment securities portfolio; and refer to Note 11 for information regarding credit risk inherent in the securities financing portfolio. Refer to Consumer Credit Portfolio on pages 120-125 and Note 12 for further discussions of the consumer credit environment, consumer loans and nonperforming exposure. Refer to Wholesale Credit Portfolio on pages 126-136 and Note 12 for further discussions of the wholesale credit environment and wholesale loans.

## Total credit portfolio

December 31, (in millions)	Credit exposure		Nonperforming <sup>(c)</sup>	
	2024	2023	2024	2023
Loans retained	\$1,299,590	\$1,280,870	\$ 7,175	\$5,989
Loans held-for-sale	7,048	3,985	160	184
Loans at fair value	41,350	38,851	1,502	744
<b>Total loans</b>	<b>1,347,988</b>	<b>1,323,706</b>	<b>8,837</b>	<b>6,917</b>
Derivative receivables	60,967	54,864	145	364
Receivables from customers <sup>(a)</sup>	51,929	47,625	—	—
<b>Total credit-related assets</b>	<b>1,460,884</b>	<b>1,426,195</b>	<b>8,982</b>	<b>7,281</b>
<b>Assets acquired in loan satisfactions</b>				
Real estate owned	NA	NA	284	274
Other	NA	NA	34	42
<b>Total assets acquired in loan satisfactions</b>	<b>NA</b>	<b>NA</b>	<b>318</b>	<b>316</b>
Lending-related commitments	1,577,622	1,497,847	737	464
<b>Total credit portfolio</b>	<b>\$3,038,506</b>	<b>\$2,924,042</b>	<b>\$10,037</b>	<b>\$8,061</b>
Credit derivatives and credit-related notes used in credit portfolio management activities <sup>(b)</sup>	\$ (41,367)	\$ (37,779)	\$ —	\$ —
Liquid securities and other cash collateral held against derivatives	(28,160)	(22,461)	NA	NA

(a) Receivables from customers reflect



## Management's discussion and analysis

### CONSUMER CREDIT PORTFOLIO

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The Firm's retained consumer portfolio consists primarily of loans and lending-related commitments for residential real estate, credit card, scored auto and business banking. The consumer credit portfolio also includes loans at fair value, predominantly in residential real estate. The Firm's focus is on serving primarily the prime segment of the consumer credit market. Originated mortgage loans are retained in the residential real estate portfolio, securitized or sold to U.S. government agencies and U.S. government-sponsored enterprises; other types of consumer loans are typically retained on the balance sheet. Refer to Note 12 for further information on the consumer loan portfolio. Refer to Note 28 for further information on lending-related commitments.

The following tables present consumer credit-related information with respect to the scored credit portfolio held in CCB, AWM, CIB and Corporate.

### Consumer credit portfolio

December 31, (in millions)	Credit exposure		Nonaccrual loans <sup>(i)</sup>	
	2024	2023	2024	2023
<b>Consumer, excluding credit card</b>				
Residential real estate <sup>(a)</sup>	\$ 309,513	\$ 326,409	\$ 2,984	\$ 3,466
Auto and other <sup>(b)(c)</sup>	66,821	70,866	249	177
<b>Total loans - retained</b>	<b>376,334</b>	<b>397,275</b>	<b>3,233</b>	<b>3,643</b>
Loans held-for-sale	945	487	155	95
Loans at fair value <sup>(d)</sup>	15,531	12,331	538	465
<b>Total consumer, excluding credit card loans</b>	<b>392,810</b>	<b>410,093</b>	<b>3,926</b>	<b>4,203</b>
Lending-related commitments <sup>(e)</sup>	44,844	45,403		
<b>Total consumer exposure, excluding credit card</b>	<b>437,654</b>	<b>455,496</b>		
<b>Credit card</b>				
Loans retained <sup>(f)</sup>	232,860	211,123	NA	NA
<b>Total credit card loans</b>	<b>232,860</b>	<b>211,123</b>	<b>NA</b>	<b>NA</b>
Lending-related commitments <sup>(e)(g)</sup>	1,001,311	915,658		
<b>Total credit card exposure</b>	<b>1,234,171</b>	<b>1,126,781</b>		
<b>Total consumer credit portfolio</b>	<b>\$1,671,825</b>	<b>\$1,582,277</b>	<b>\$ 3,926</b>	<b>\$ 4,203</b>
Credit-related notes used in credit portfolio management activities <sup>(h)</sup>	\$ (479)	\$ (790)		

(in millions, except ratios)	Year ended December 31,					
	Net charge-offs/ (recoveries)		Average loans - retained		Net charge-off/ (recovery) rate <sup>(j)</sup>	
	2024	2023	2024	2023	2024	2023
<b>Consumer, excluding credit card</b>						
Residential real estate	\$ (101)	\$ (52)	\$ 316,042	\$ 296,515	(0.03)%	(0.02)%
Auto and other	775	684	67,959	67,546	1.14	1.01
<b>Total consumer, excluding credit card - retained</b>	<b>674</b>	<b>632</b>	<b>384,001</b>	<b>364,061</b>	<b>0.18</b>	<b>0.17</b>
<b>Credit card - retained</b>	<b>7,142</b>	<b>4,698</b>	<b>214,033</b>	<b>191,412</b>	<b>3.34</b>	<b>2.45</b>
<b>Total consumer - retained</b>	<b>\$ 7,816</b>	<b>\$ 5,330</b>	<b>\$ 598,034</b>	<b>\$ 555,473</b>	<b>1.31 %</b>	<b>0.96 %</b>

(a) Includes scored mortgage and home equity loans held in CCB and AWM.

(b) At December 31, 2024 and 2023, excluded operating lease assets of \$12.8 billion and \$10.4 billion, respectively. These operating lease assets are included in other assets on the Firm's Consolidated balance sheets. Refer to Note 18 for further information.

(c) Includes scored auto and business banking loans, and overdrafts.

(d) Includes scored mortgage loans held in CCB and CIB, and other consumer unsecured loans in CIB.

- (e) Credit card, home equity and certain business banking lending-related commitments represent the total available lines of credit for these products. The Firm has not experienced, and does not anticipate, that all available lines of credit would be used at the same time. Refer to Note 28 for further information.
- (f) Includes billed interest and fees.
- (g) Also includes commercial card lending-related commitments primarily in CIB.
- (h) Represents the notional amount of protection obtained through the issuance of credit-related notes that reference certain pools of residential real estate and auto loans in the retained consumer portfolio.
- (i) Excludes mortgage loans past due and insured by U.S. government agencies, which are primarily 90 or more days past due. These loans have been excluded based upon the government guarantee. At December 31, 2024 and 2023, mortgage loans 90 or more days past due and insured by U.S. government agencies were \$121 million and \$182 million, respectively. In addition, the Firm's policy is generally to exempt credit card loans from being placed on nonaccrual status, as permitted by regulatory guidance.
- (j) Average consumer loans held-for-sale and loans at fair value were \$17.2 billion and \$12.9 billion for the years ended December 31, 2024 and 2023, respectively. These amounts were excluded when calculating net charge-off/(recovery) rates.



## Management's discussion and analysis

### Maturities and sensitivity to changes in interest rates

The table below sets forth loan maturities by scheduled repayments, by class of loan and the distribution between fixed and floating interest rates based on the stated terms of the loan agreements. The Firm estimated the principal repayment amounts for both the residential real estate and auto and other loan classes by calculating the weighted-average loan balance and interest rates for loan pools based on remaining loan term. Refer to Note 12 for further information on loan classes.

December 31, 2024 (in millions)	Within 1 year <sup>(a)</sup>	1-5 years	5-15 years	After 15 years	Total
<b>Consumer, excluding credit card</b>					
Residential real estate	\$ 21,442	\$26,712	\$109,608	\$166,715	\$324,477
Auto and other	19,404 <sup>(b)</sup>	43,701	5,224	4	68,333
<b>Total consumer, excluding credit card loans</b>	<b>\$ 40,846</b>	<b>\$70,413</b>	<b>\$114,832</b>	<b>\$166,719</b>	<b>\$392,810</b>
<b>Total credit card loans</b>	<b>\$231,799</b>	<b>\$ 1,048</b>	<b>\$ 13</b>	<b>\$ —</b>	<b>\$232,860</b>
<b>Total consumer loans</b>	<b>\$272,645</b>	<b>\$71,461</b>	<b>\$114,845</b>	<b>\$166,719</b>	<b>\$625,670</b>
<b>Loans due after one year at fixed interest rates</b>					
Residential real estate		\$19,639	\$ 57,351	\$ 77,865	
Auto and other		43,565	2,957	4	
Credit card		1,048	13	—	
<b>Loans due after one year at variable interest rates</b>					
Residential real estate		\$ 7,073	\$ 52,257	\$ 88,850	
Auto and other		136	2,267	—	
<b>Total consumer loans</b>		<b>\$71,461</b>	<b>\$114,845</b>	<b>\$166,719</b>	

(a) Includes loans held-for-sale and loans at fair value.

(b) Includes overdrafts.

**Consumer, excluding credit card**

### Portfolio analysis

Loans decreased from December 31, 2023 driven by residential real estate loans and scored auto loans.

The following discussions provide information concerning individual loan products. Refer to Note 12 for further information about this portfolio, including information about delinquencies, loan modifications and other credit quality indicators.

**Residential real estate:** The residential real estate portfolio, including loans held-for-sale and loans at fair value, predominantly consists of prime mortgage loans and home equity lines of credit.

Retained loans decreased compared to December 31, 2023, predominantly driven by paydowns and loan sales, net of originations. Retained nonaccrual loans decreased compared to December 31, 2023, predominantly driven by loan sales. Net recoveries were higher for the year ended December 31, 2024 compared to the prior year, driven by loan sales.

Loans held-for-sale and nonaccrual loans held-for-sale increased from December 31, 2023, predominantly driven by transfers of certain retained loans in anticipation of securitization and loan sales, respectively.

Loans at fair value increased from December 31, 2023, predominantly driven by higher Home Lending loans, as originations outpaced warehouse loan sales. Nonaccrual loans at fair value increased compared to December 31, 2023, driven by CIB.

At December 31, 2024 and 2023, the carrying values of retained interest-only residential mortgage loans were \$88.9 billion and \$90.6 billion, respectively. These loans have an interest-only payment period generally followed by an adjustable-rate or fixed-rate fully amortizing payment period to maturity and are typically originated as higher-balance loans to higher-income borrowers. The credit performance of this portfolio is comparable to the performance of the broader prime

The following table provides a summary of the Firm's residential mortgage portfolio insured and/or guaranteed by U.S. government agencies, predominantly loans held-for-sale and loans at fair value. The Firm monitors its exposure to certain potential unrecoverable claim payments related to government-insured loans and considers this exposure in estimating the allowance for loan losses.

	December	December
(in millions)	31, 2024	31, 2023
Current	\$ 462	\$ 446
30-89 days past due	72	102
90 or more days past due	121	182
<b>Total government guaranteed loans</b>	<b>\$ 655</b>	<b>\$ 730</b>

### Geographic composition and current estimated loan-to-value ratio of residential real estate loans

At December 31, 2024, \$217.7 billion, or 70% of the total retained residential real estate loan portfolio, was concentrated in California, New York, Florida, Texas and Massachusetts, compared to \$228.4 billion, or 70% at December 31, 2023.

Average current estimated loan-to-value ("LTV") ratios have improved, reflecting an increase in home prices.

Refer to Note 12 for information on the geographic composition and current estimated LTVs of the Firm's residential real estate loans.



**Management’s discussion and analysis**

**Auto and other:** The auto and other loan portfolio, including loans at fair value, generally consists of prime-quality scored auto and business banking loans, other consumer unsecured loans, and overdrafts. The portfolio decreased when compared to December 31, 2023, predominantly due to loan securitizations. Net charge-offs increased compared to the prior year, predominantly due to net charge-offs of scored auto loans of \$445 million compared to \$357 million for the year ended December 31, 2023, reflecting a decline in used vehicle valuations. Refer to Note 14 for further information on securitization activity.

### Nonperforming assets

The following table presents information as of December 31, 2024 and 2023, about consumer, excluding credit card, nonperforming assets.

#### Nonperforming assets<sup>(a)</sup>

December 31, (in millions)	2024	2023
<b>Nonaccrual loans</b>		
Residential real estate	\$ 3,665	\$ 4,015
Auto and other	261	188
<b>Total nonaccrual loans</b>	<b>3,926</b>	<b>4,203</b>
<b>Assets acquired in loan satisfactions</b>		
Real estate owned	78	120
Other	34	42
<b>Total assets acquired in loan satisfactions</b>	<b>112</b>	<b>162</b>
<b>Total nonperforming assets</b>	<b>\$ 4,038</b>	<b>\$ 4,365</b>

(a) Excludes mortgage loans past due and insured by U.S. government agencies, which are primarily 90 or more days past due. These loans have been excluded based upon the government guarantee. At December 31, 2024 and 2023, mortgage loans 90 or more days past due and insured by U.S. government agencies were \$121 million and \$182 million, respectively.

### Nonaccrual loans

The following table presents changes in consumer, excluding credit card, nonaccrual loans for the years ended December 31, 2024 and 2023.

#### Nonaccrual loan activity

Year ended December 31, (in millions)	2024	2023
Beginning balance	\$ 4,203	\$ 4,325
Additions:	3,225	2,894
Reductions:		
Principal payments and other	894	1,030
Sales	803	276
Charge-offs	665	472
Returned to performing status	963	1,052
Foreclosures and other liquidations	177	186
<b>Total reductions</b>	<b>3,502</b>	<b>3,016</b>
<b>Net changes</b>	<b>(277)</b>	<b>(122)</b>
<b>Ending balance</b>	<b>\$ 3,926</b>	<b>\$ 4,203</b>

Refer to Note 12 for further information about the consumer credit portfolio, including information about delinquencies, other credit quality indicators and loans that were in the process of active or suspended foreclosure.



## **Credit card**

Total credit card loans increased from December 31, 2023 reflecting growth from new accounts and revolving balances. The December 31, 2024 30+ and 90+ day delinquency rates of 2.17% and 1.14%, respectively, increased compared to the December 31, 2023 30+ and 90+ day delinquency rates of 2.14% and 1.05%, respectively, in line with the Firm's expectations. Net charge-offs increased for the year ended December 31, 2024 compared to the prior year reflecting the seasoning of vintages originated in recent years, credit normalization and balance growth.

Consistent with the Firm's policy, all credit card loans typically remain on accrual status until charged off. However, the Firm's allowance for loan losses includes the estimated uncollectible portion of accrued and billed interest and fee income.

### **Geographic and FICO composition of credit card loans**

At December 31, 2024, \$109.0 billion, or 47% of the total retained credit card loan portfolio, was concentrated in California, Texas, New York, Florida and Illinois, compared to \$98.1 billion, or 46%, at December 31, 2023.

Refer to Note 12 for further information about this portfolio, including information about delinquencies, geographic and FICO composition.



**Management’s discussion and analysis**

**WHOLESALE CREDIT PORTFOLIO**

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In its wholesale businesses, the Firm is exposed to credit risk primarily through its underwriting, lending, market-making, and hedging activities with and for clients and counterparties, as well as through various operating services (such as cash management and clearing activities), securities financing activities and cash placed with banks. A portion of the loans originated or acquired by the Firm's wholesale businesses is generally retained on the balance sheet. The Firm distributes a significant percentage of the loans that it originates into the market as part of its syndicated loan business and to manage portfolio concentrations and credit risk. The wholesale portfolio is actively managed, in part by conducting ongoing, in-depth reviews of client credit quality and transaction structure, inclusive of collateral where applicable, and of industry, product and client concentrations. Refer to the industry discussion on pages 128-131 for further information.

The Firm's wholesale credit portfolio includes exposure held in CIB, AWM and Corporate, and risk-rated exposure held in CCB, for which the wholesale methodology is applied when determining the allowance for loan losses.

As of December 31, 2024, loans increased \$19.8 billion, driven by higher loans in CIB and higher securities-based lending in AWM. Lending-related commitments decreased \$5.3 billion, with decreases in AWM and CCB, largely offset by higher commitments in CIB.

As of December 31, 2024, nonperforming exposure increased by \$2.3 billion, predominantly driven by Real Estate, concentrated in Office, Healthcare and Consumer & Retail, in each case resulting from downgrades.

For the year ended December 31, 2024, wholesale net charge-offs were \$822 million, largely driven by Real Estate, concentrated in Office, and client-specific charge-offs across multiple industries including Consumer & Retail and Individuals

## Wholesale credit portfolio

December 31, (in millions)	Credit exposure		Nonperforming	
	2024	2023	2024	2023
Loans				
retained	\$ 690,396	\$ 672,472	\$3,942	\$2,346
Loans held-for-sale	6,103	3,498	5	89
Loans at fair value	25,819	26,520	964	279
<b>Loans</b>	<b>722,318</b>	<b>702,490</b>	<b>4,911</b>	<b>2,714</b>
Derivative receivables	60,967	54,864	145	364
Receivables from customers <sup>(a)</sup>	51,929	47,625	—	—
<b>Total wholesale credit-related assets</b>	<b>835,214</b>	<b>804,979</b>	<b>5,056</b>	<b>3,078</b>
<b>Assets acquired in loan satisfactions</b>				
Real estate owned	NA	NA	206	154
Other	NA	NA	—	—
<b>Total assets acquired in loan satisfactions</b>	<b>NA</b>	<b>NA</b>	<b>206</b>	<b>154</b>
Lending-related commitments	531,467	536,786	737	464
<b>Total wholesale credit portfolio</b>	<b>\$1,366,681</b>	<b>\$1,341,765</b>	<b>\$5,999</b>	<b>\$3,696</b>

Credit derivatives and credit-related notes used in credit portfolio management activities<sup>(b)</sup> \$ (40,888) \$ (36,989) \$ — \$ —

Liquid securities and other cash collateral



### Wholesale credit exposure - maturity and ratings profile

The following tables present the maturity and internal risk ratings profiles of the wholesale credit portfolio as of December 31, 2024 and 2023. The Firm generally considers internal ratings with qualitative characteristics equivalent to BBB-/Baa3 or higher as investment grade, and takes into consideration collateral and structural support when determining the internal risk rating for each credit facility. Refer to Note 12 for further information on internal risk ratings.

	Maturity profile <sup>(d)</sup>				Ratings profile			
	1 year or less	After 1 year through 5 years	After 5 years	Total	Investment-grade	Noninvestment-grade	Total	
<b>December 31, 2024</b>								Total % of IG
(in millions, except ratios)								
Loans retained	\$225,982	\$289,199	\$175,215	\$ 690,396	\$ 471,670	\$ 218,726	\$ 690,396	68 %
Derivative receivables				60,967			60,967	
Less: Liquid securities and other cash collateral held against derivatives				(28,160)			(28,160)	
Total derivative receivables, net of collateral	11,515	7,418	13,874	32,807	24,707	8,100	32,807	75
Lending-related commitments	121,283	384,529	25,655	531,467	352,082	179,385	531,467	66
<b>Subtotal</b>	<b>358,780</b>	<b>681,146</b>	<b>214,744</b>	<b>1,254,670</b>	<b>848,459</b>	<b>406,211</b>	<b>1,254,670</b>	<b>68</b>
Loans held-for-sale and loans at fair value <sup>(a)</sup>				31,922			31,922	
Receivables from customers				51,929			51,929	
<b>Total exposure - net of liquid securities and other cash collateral held against derivatives</b>				<b>\$1,338,521</b>			<b>\$1,338,521</b>	
Credit derivatives and credit-related notes used in credit portfolio management activities <sup>(b)(c)</sup>	\$ (5,442)	\$(33,751)	\$ (1,695)	\$ (40,888)	\$ (31,691)	\$ (9,197)	\$ (40,888)	78 %

	Maturity profile <sup>(d)</sup>				Ratings profile			
	After 1 year				Investment - Noninvestment -			
December 31, 2023 (in millions, except ratios)	1 year or less	through 5 years	After 5 years	Total	grade	grade	Total	Total % of IG
Loans retained	\$211,104	\$280,821	\$180,547	\$ 672,472	\$ 458,838	\$ 213,634	\$ 672,472	68 %
Derivative receivables				54,864			54,864	
Less: Liquid securities and other cash collateral held against derivatives				(22,461)			(22,461)	
Total derivative receivables, net of collateral	8,007	8,970	15,426	32,403	24,919	7,484	32,403	77
Lending-related commitments	143,337	368,646	24,803	536,786	341,611	195,175	536,786	64
<b>Subtotal</b>	<b>362,448</b>	<b>658,437</b>	<b>220,776</b>	<b>1,241,661</b>	<b>825,368</b>	<b>416,293</b>	<b>1,241,661</b>	<b>66</b>
Loans held-for-sale and loans at fair value <sup>(a)</sup>				30,018			30,018	
Receivables from customers				47,625			47,625	
<b>Total exposure - net of liquid securities and other cash collateral held against derivatives</b>				<b>\$1,319,304</b>			<b>\$1,319,304</b>	
Credit derivatives and credit-related notes used in credit portfolio management activities <sup>(b)(c)</sup>	\$ (3,311)	\$(28,353)	\$ (5,325)	\$ (36,989)	\$ (28,869)	\$ (8,120)	\$ (36,989)	78 %

(a) Loans held-for-sale are primarily related to syndicated loans and loans transferred from the retained portfolio.

(b) These derivatives do not qualify for hedge accounting under U.S. GAAP.

(c) The notional amounts are presented on a net basis by underlying reference entity and the ratings profile shown is based on the ratings of the reference entity on which protection has been purchased. Predominantly all of the credit derivatives entered into by the Firm where it has purchased protection used in credit portfolio management activities are executed with investment-grade counterparties. In addition, the Firm obtains credit protection against certain loans in the retained loan portfolio through the issuance of credit-related notes.

(d) The maturity profile of retained loans, lending-related commitments and derivative receivables is generally based on remaining contractual maturity. Derivative contracts that are in a receivable position at December 31, 2024, may become payable prior to maturity based on their cash flow profile or changes in market conditions.



## Management's discussion and analysis

### Wholesale credit exposure – industry exposures

The Firm focuses on the management and diversification of its industry exposures, and pays particular attention to industries with actual or potential credit concerns.

Exposures that are deemed to be criticized align with the U.S. banking regulators' definition of criticized exposures, which consist of the special mention, substandard and doubtful categories. Total criticized exposure, excluding loans held-for-sale and loans at fair value, was \$44.7 billion and \$41.4 billion at December 31, 2024 and 2023, representing approximately 3.5% and 3.3% of total wholesale credit exposure, respectively; of the \$44.7 billion, \$39.9 billion was performing. The increase in criticized exposure was driven by Real Estate resulting from downgrades, primarily in Multifamily and Office, and new commitments in Technology and Media, partially offset by Consumer & Retail resulting from net portfolio activity and upgrades.

The table below summarizes by industry the Firm's exposures as of December 31, 2024 and 2023. The industry of risk category is generally based on the client or counterparty's primary business activity. Refer to Note 4 for additional information on industry concentrations.

**Wholesale credit exposure – industries<sup>(a)</sup>**

						Selected metrics				
						Noninvestment-grade				
As of or for the year ended	Credit exposure <sup>(f)</sup> (g)	Investment-grade	Noncriticized	Criticized performing	Criticized nonperforming	30 days or more past due and accruing	Net charge-offs/(recoveries)	Credit derivative and credit-related notes <sup>(h)</sup>		
December 31, 2024 (in millions)						loans				
Real Estate	\$ 207,050	\$ 143,803	\$ 50,865	\$ 10,858	\$ 1,524	\$ 913	\$ 345	\$ (584)	\$ –	
Individuals and Individual Entities <sup>(b)</sup>	144,145	118,650	24,831	217	447	831	122	–	–	
Asset Managers	135,541	101,150	34,148	206	37	375	2	–	(9,194)	
Consumer & Retail	129,815	62,800	60,141	6,055	819	252	123	(4,320)	–	
Technology, Media & Telecommunications	84,716	45,021	28,629	10,592	474	79	94	(4,800)	–	
Industrials	72,530	37,572	30,912	3,807	239	185	91	(2,312)	–	
Healthcare	64,224	44,135	17,062	2,219	808	245	56	(3,286)	(34)	
Banks & Finance Companies	61,287	36,884	24,119	257	27	36	–	(702)	(729)	
Utilities	35,871	24,205	10,256	1,273	137	1	–	(2,700)	–	
State & Municipal Govt <sup>(c)</sup>	35,039	33,303	1,711	9	16	90	–	(2)	(1)	
Automotive	34,336	22,015	11,353	931	37	121	1	(997)	–	
Oil & Gas	31,724	19,053	12,479	188	4	9	(3)	(1,711)	(2)	
Insurance	24,267	17,847	6,198	222	–	2	–	(1,077)	(9,184)	
Chemicals & Plastics	20,782	11,013	8,152	1,521	96	31	14	(1,164)	–	
Transportation	17,019	9,462	7,135	391	31	17	(20)	(658)	–	
Metals & Mining	15,860	7,373	7,860	590	37	9	–	(246)	(2)	
Central Govt	13,862	13,580	157	125	–	4	–	(1,490)	(2,051)	
Securities Firms	9,443	5,424	4,014	5	–	–	–	(13)	(2,635)	
Financial Markets Infrastructure	4,446	4,201	245	–	–	–	–	(1)	–	
All other <sup>(d)</sup>	140,873	117,986	22,398	398	91	10	(3)	(14,825)	(4,328)	
Subtotal	\$1,282,830	\$ 875,477	\$ 362,665	\$ 39,864	\$ 4,824	\$ 3,210	\$ 822	\$ (40,888)	\$ (28,160)	
Loans held-for-sale and loans at fair value	31,922									
Receivables from customers	51,929									
Total <sup>(e)</sup>	\$1,366,681									







						Selected metrics				
						Noninvestment-grade				
As of or for the year ended	Credit exposure <sup>(f)</sup>	Investment-grade	Noncriticized performing	Criticized performing	Criticized nonperforming	30 days or more past due and accruing	Net charge-offs/ (recoveries)	Credit-related notes <sup>(h)</sup>	Liquid securities and other cash collateral held against derivative receivables	
December 31, 2023 (in millions)	(g)	grade				loans				
Real Estate	\$ 208,261	\$ 148,866	\$ 50,190	\$ 8,558	\$ 647	\$ 717	\$ 275	\$ (574)	\$ –	
Individuals and Individual Entities <sup>(b)</sup>	145,849	110,673	34,261	334	581	861	10	–	–	
Asset Managers	129,574	83,857	45,623	90	4	201	1	–	(7,209)	
Consumer & Retail	127,086	60,168	58,606	7,863	449	318	161	(4,204)	–	
Technology, Media & Telecommunications	77,296	40,468	27,094	9,388	346	36	81	(4,287)	–	
Industrials	75,092	40,951	30,586	3,419	136	213	31	(2,949)	–	
Healthcare	65,025	43,163	18,396	3,005	461	130	17	(3,070)	–	
Banks & Finance Companies	57,177	33,881	22,744	545	7	9	277	(511)	(412)	
Utilities	36,061	25,242	9,929	765	125	1	(3)	(2,373)	–	
State & Municipal Govt <sup>(c)</sup>	35,986	33,561	2,390	27	8	31	–	(4)	–	
Automotive	33,977	23,152	10,060	640	125	59	–	(653)	–	
Oil & Gas	34,475	18,276	16,076	111	12	45	11	(1,927)	(5)	
Insurance	20,501	14,503	5,700	298	–	2	–	(961)	(6,898)	
Chemicals & Plastics	20,773	11,353	8,352	916	152	106	2	(1,045)	–	
Transportation	16,060	8,865	5,943	1,196	56	23	(26)	(574)	–	
Metals & Mining	15,508	8,403	6,514	536	55	12	44	(229)	–	
Central Govt	17,704	17,264	312	127	1	–	–	(3,490)	(2,085)	
Securities Firms	8,689	4,570	4,118	1	–	–	–	(14)	(2,765)	
Financial Markets Infrastructure	4,251	4,052	199	–	–	–	–	–	–	
All other <sup>(d)</sup>	134,777	115,711	18,618	439	9	21	(2)	(10,124)	(3,087)	
Subtotal	\$1,264,122	\$ 846,979	\$ 375,711	\$ 38,258	\$ 3,174	\$ 2,785	\$ 879	\$ (36,989)	\$ (22,461)	
Loans held-for-sale and loans at fair value	30,018									
Receivables from customers	47,625									
Total <sup>(e)</sup>	\$1,341,765									

- (a) The industry rankings presented in the table as of December 31, 2023, are based on the industry rankings of the corresponding exposures at December 31, 2024, not actual rankings of such exposures at December 31, 2023.
- (b) Individuals and Individual Entities predominantly consists of Global Private Bank clients within AWM and J.P. Morgan Wealth Management within CCB, and includes exposure to personal investment companies and personal and testamentary trusts.
- (c) In addition to the credit risk exposure to states and municipal governments (both U.S. and non-U.S.) at December 31, 2024 and 2023, noted above, the Firm held: \$6.1 billion and \$5.9 billion, respectively, of trading assets; \$17.9 billion and \$21.4 billion, respectively, of AFS securities; and \$9.3 billion and \$9.9 billion, respectively, of HTM securities, issued by U.S. state and municipal governments. Refer to Note 2 and Note 10 for further information.
- (d) All other includes: SPEs and Private education and civic organizations, representing approximately 94% and 6%, respectively, at both December 31, 2024 and 2023.
- (e) Excludes cash placed with banks of \$459.2 billion and \$614.1 billion, at December 31, 2024 and 2023, respectively, which is predominantly placed with various central banks, primarily Federal Reserve Banks.
- (f) Credit exposure is net of risk participations and excludes the benefit of credit derivatives and credit-related notes used in credit portfolio management activities held against derivative receivables or loans and liquid securities and other cash collateral held against derivative receivables.
- (g) Credit exposure includes held-for-sale and fair value option elected lending-related commitments.
- (h) Represents the net notional amounts of protection purchased and sold through credit derivatives and credit-related notes used to manage the credit exposures; these derivatives do not qualify for hedge accounting under U.S. GAAP. The All other category includes purchased credit protection on certain credit indices.

## Management's discussion and analysis

Presented below is additional detail on certain of the Firm's industry exposures.

### Real Estate

Real Estate exposure was \$207.1 billion as of December 31, 2024. Criticized exposure increased by \$3.2 billion from \$9.2 billion at December 31, 2023 to \$12.4 billion at December 31, 2024, predominantly driven by downgrades, primarily in Multifamily and Office.

(in millions, except ratios)	December 31, 2024				
	Loans and Lending-related Commitments	Derivative Receivables	Credit exposure	% Investment-grade	% Drawn <sup>(d)</sup>
Multifamily <sup>(a)</sup>	\$ 124,074	\$ 7	\$ 124,081	77 %	92 %
Industrial	19,092	17	19,109	65	72
Other Income Producing Properties <sup>(b)</sup>	16,411	158	16,569	50	63
Office	16,331	29	16,360	47	81
Services and Non Income Producing	14,047	57	14,104	62	46
Retail	12,230	23	12,253	77	75
Lodging	4,555	19	4,574	31	53
<b>Total Real Estate Exposure<sup>(c)</sup></b>	<b>\$ 206,740</b>	<b>\$ 310</b>	<b>\$ 207,050</b>	<b>69 %</b>	<b>82 %</b>

(in millions, except ratios)	December 31, 2023				
	Loans and Lending-related Commitments	Derivative Receivables	Credit exposure	% Investment-grade	% Drawn <sup>(d)</sup>
Multifamily <sup>(a)</sup>	\$ 121,946	\$ 21	\$ 121,967	79 %	90 %
Industrial	20,254	18	20,272	70	72
Other Income Producing Properties <sup>(b)</sup>	15,542	208	15,750	55	63
Office	16,462	32	16,494	51	81
Services and Non Income Producing	16,145	74	16,219	62	46
Retail	12,763	48	12,811	75	73
Lodging	4,729	19	4,748	30	48
<b>Total Real Estate Exposure</b>	<b>\$ 207,841</b>	<b>\$ 420</b>	<b>\$ 208,261</b>	<b>71 %</b>	<b>80 %</b>

(a) Total Multifamily exposure is approximately 99% performing. Multifamily exposure is largely in California.

(b) Other Income Producing Properties consists of clients with diversified property types or other property types outside of categories listed in the table above.

- (c) Real Estate exposure is approximately 84% secured; unsecured exposure is largely investment-grade primarily to Real Estate Investment Trusts ("REITs") and Real Estate Operating Companies ("REOCs") whose underlying assets are generally diversified.
- (d) Represents drawn exposure as a percentage of credit exposure.

### Consumer & Retail

Consumer & Retail exposure was \$129.8 billion as of December 31, 2024. Criticized exposure decreased by \$1.4 billion from \$8.3 billion at December 31, 2023 to \$6.9 billion at December 31, 2024, driven by net portfolio activity and upgrades, largely offset by downgrades.

(in millions, except ratios)	December 31, 2024				
	Loans and Lending-related Commitments	Derivative Receivables	Credit exposure	% Investment-grade	% Drawn <sup>(d)</sup>
Food and Beverage	\$ 34,774	\$ 683	\$ 35,457	61 %	34 %
Retail	34,917	261	35,178	51	31
Business and Consumer Services <sup>(a)</sup>	34,534	412	34,946	42	41
Consumer Hard Goods	13,796	208	14,004	43	35
Leisure <sup>(b)</sup>	10,186	44	10,230	26	43
<b>Total Consumer &amp; Retail<sup>(c)</sup></b>	<b>\$ 128,207</b>	<b>\$ 1,608</b>	<b>\$ 129,815</b>	<b>48 %</b>	<b>36 %</b>

(in millions, except ratios)	December 31, 2023				
	Loans and Lending-related Commitments	Derivative Receivables	Credit exposure	% Investment-grade	% Drawn <sup>(d)</sup>
Food and Beverage	\$ 32,256	\$ 930	\$ 33,186	57 %	36 %
Retail	36,042	334	36,376	51	30
Business and Consumer Services <sup>(a)</sup>	34,822	392	35,214	42	42
Consumer Hard Goods	13,169	197	13,366	43	33
Leisure <sup>(b)</sup>	8,784	160	8,944	25	47
<b>Total Consumer &amp; Retail</b>	<b>\$ 125,073</b>	<b>\$ 2,013</b>	<b>\$ 127,086</b>	<b>47 %</b>	<b>36 %</b>

(a) Retail consists of Home Improvement & Specialty Retailers, Restaurants, Discount & Drug Stores, Specialty Apparel, Department Stores and Supermarkets.

(b) Leisure consists of Arts & Culture, Travel Services, Gaming and Sports & Recreation. As of December 31, 2024, approximately 90% of the noninvestment-grade Leisure portfolio is secured.

(c) Consumer & Retail exposure is approximately 57% secured; unsecured exposure is approximately 80% investment-grade.

(d) Represents drawn exposure as a percent of credit exposure.

### Oil & Gas

Oil & Gas exposure was \$31.7 billion as of December 31, 2024. Criticized exposure was \$192 million and \$123 million at December 31, 2024 and 2023, respectively.

December 31, 2024					
(in millions, except ratios)	Loans and	Derivative	Credit	% Investment-	% Drawn <sup>(c)</sup>
	Lending-related Commitments				
Exploration & Production ("E&P")					
and Oil field Services	\$ 14,265	\$ 848	\$ 15,113	55 %	27 %
Other Oil & Gas <sup>(a)</sup>	16,306	305	16,611	65	19
<b>Total Oil &amp; Gas<sup>(b)</sup></b>	<b>\$ 30,571</b>	<b>\$ 1,153</b>	<b>\$ 31,724</b>	<b>60 %</b>	<b>23 %</b>

December 31, 2023					
(in millions, except ratios)	Loans and	Derivative	Credit	% Investment-	% Drawn <sup>(c)</sup>
	Lending-related Commitments				
Exploration & Production ("E&P")					
and Oil field Services	\$ 18,121	\$ 536	\$ 18,657	51 %	26 %
Other Oil & Gas <sup>(a)</sup>	15,649	169	15,818	55	22
<b>Total Oil &amp; Gas</b>	<b>\$ 33,770</b>	<b>\$ 705</b>	<b>\$ 34,475</b>	<b>53 %</b>	<b>25 %</b>

(a) Other Oil & Gas includes Integrated Oil & Gas companies, Midstream/Oil Pipeline companies and refineries.

(b) Oil & Gas exposure is approximately 33% secured, and includes reserve-based lending to the Exploration & Production sub-sector; unsecured exposure is approximately 69% investment-grade.

(c) Represents drawn exposure as a percent of credit exposure.



## Management's discussion and analysis

### Loans

In its wholesale businesses, the Firm provides loans to a variety of clients, ranging from large corporate and institutional clients to high-net-worth individuals. Refer to Note 12 for a further discussion on loans, including information about delinquencies, loan modifications and other credit quality indicators.

The following table presents the change in the nonaccrual loan portfolio for the years ended December 31, 2024 and 2023. Since December 31, 2023, nonaccrual loan exposure increased by \$2.2 billion, predominantly driven by Real Estate, concentrated in Office, Healthcare and Consumer & Retail, in each case resulting from downgrades.

### Wholesale nonaccrual loan activity

Year ended December 31, (in millions)	2024	2023
Beginning balance	\$ 2,714	\$ 2,395
Additions	5,841	3,543
Reductions:		
Paydowns and other	2,387	1,336
Gross charge-offs	780	965
Returned to performing status	392	616
Sales	85	307
<b>Total reductions</b>	<b>3,644</b>	<b>3,224</b>
<b>Net changes</b>	<b>2,197</b>	<b>319</b>
<b>Ending balance</b>	<b>\$ 4,911</b>	<b>\$ 2,714</b>

The following table presents net charge-offs/recoveries, which are defined as gross charge-offs less recoveries, for the years ended December 31, 2024 and 2023. The amounts in the table below do not include gains or losses from sales of nonaccrual loans recognized in noninterest revenue.

### Wholesale net charge-offs/ (recoveries)

Year ended December 31, (in millions, except ratios)	2024	2023
Loans		
Average loans retained	\$ 673,310	\$ 646,875
Gross charge-offs	1,022	1,011
Gross recoveries collected	(200)	(132)
Net charge-offs/ (recoveries)	822	879
Net charge-off/ (recovery) rate	0.12 %	0.14 %

### Maturities and sensitivity to changes in interest rates

The table below sets forth wholesale loan maturities and the distribution between fixed and floating interest rates based on the stated terms of the loan agreements by loan class. Refer to Note 12 for further information on loan classes.

<b>December 31, 2024</b> (in millions, except ratios)	1 year or less <sup>(b)</sup>	After 1 year through 5 years	After 5 years through 15 years	After 15 years	Total
<b>Wholesale loans:</b>					
Secured by real estate	\$ 12,474	\$ 57,125	\$ 57,967	\$42,597	\$170,163
Commercial and industrial	55,731	109,839	8,587	94	174,251
Other	182,722	150,346	36,281	8,555	377,904
<b>Total wholesale loans</b>	<b>\$250,927</b>	<b>\$ 317,310</b>	<b>\$ 102,835</b>	<b>\$51,246</b>	<b>\$722,318</b>
<b>Loans due after one year at fixed interest rates</b>					
Secured by real estate		\$ 13,119	\$ 17,943	\$ 935	
Commercial and industrial		3,964	1,231	7	
Other		26,929	15,542	5,824	
<b>Loans due after one year at variable interest rates<sup>(a)</sup></b>					
Secured by real estate		\$ 44,006	\$ 40,024	\$41,662	
Commercial and industrial		105,875	7,356	87	
Other		123,417	20,739	2,731	
<b>Total wholesale loans</b>		<b>\$ 317,310</b>	<b>\$ 102,835</b>	<b>\$51,246</b>	

(a) Includes loans that have an initial fixed interest rate that resets to a variable rate as the variable rate will be the prevailing rate over the life of the loan.

(b) Includes loans held-for-sale, demand loans and overdrafts.

The following table presents net charge-offs/recoveries, average retained loans and net charge-off/recovery rate by loan class for the years ended December 31, 2024 and 2023.

	Year ended December 31,							
	Secured by real estate		Commercial and industrial		Other		Total	
	2024	2023	2024	2023	2024	2023	2024	2023
(in millions, except ratios)								
Net charge-offs/(recoveries)	\$ 313	\$ 178	\$ 381	\$ 370	\$ 128	\$ 331	\$ 822	\$ 879
Average retained loans	162,653	151,214	169,363	170,503	341,294	325,158	673,310	646,875
Net charge-off/(recovery) rate	0.19 %	0.12 %	0.22 %	0.22 %	0.04 %	0.10 %	0.12 %	0.14 %

**Management’s discussion and analysis**

### **Lending-related commitments**

The Firm uses lending-related financial instruments, such as commitments (including revolving credit facilities) and guarantees, to address the financing needs of its clients. The contractual amounts of these financial instruments represent the maximum possible credit risk should the clients draw down on these commitments or when the Firm fulfills its obligations under these guarantees, and the clients subsequently fail to perform according to the terms of these contracts. Most of these commitments and guarantees have historically been refinanced, extended, cancelled, or expired without being drawn upon or a default occurring. As a result, the Firm does not believe that the total contractual amount of these wholesale lending-related commitments is representative of the Firm's expected future credit exposure or funding requirements. Refer to Note 28 for further information on wholesale lending-related commitments.

### **Receivables from customers**

Receivables from customers reflect held-for-investment margin loans to brokerage clients in CIB, CCB and AWM that are collateralized by assets maintained in the clients' brokerage accounts (including cash on deposit, and primarily liquid and readily marketable debt or equity securities). To manage its credit risk, the Firm establishes margin requirements and monitors the required margin levels on an ongoing basis, and requires clients to deposit additional cash or other collateral, or to reduce positions, when appropriate. Credit risk arising from lending activities subject to collateral maintenance requirements is generally mitigated by factors such as the short-term nature of the activity, the fair value of collateral held and the Firm's right to call for, and the borrower's obligation to provide, additional margin when the fair value of the collateral declines. Because of these mitigating factors, these receivables generally do not require an allowance for credit losses. However, if in management's judgment, an allowance for credit losses is

derivative affect the credit risk to which the Firm is exposed. For over-the-counter ("OTC") derivatives, the Firm is exposed to the credit risk of the derivative counterparty. For exchange-traded derivatives ("ETD"), such as futures and options, and cleared over-the-counter ("OTC-cleared") derivatives, the Firm can also be exposed to the credit risk of the relevant CCP. Where possible, the Firm seeks to mitigate its credit risk exposures arising from derivative contracts through the use of legally enforceable master netting arrangements and collateral agreements. The percentage of the Firm's OTC derivative transactions subject to collateral agreements – excluding foreign exchange spot trades, which are not typically covered by collateral agreements due to their short maturity and centrally cleared trades that are settled daily – was approximately 86% and 87% at December 31, 2024 and 2023, respectively. Refer to Note 5 for additional information on the Firm's use of collateral agreements and for a further discussion of derivative contracts, counterparties and settlement types.

The fair value of derivative receivables reported on the Consolidated balance sheets was \$61.0 billion and \$54.9 billion at December 31, 2024 and 2023, respectively. The increase was primarily as a result of market movements. Derivative receivables represent the fair value of the derivative contracts after giving effect to legally enforceable master netting agreements and the related cash collateral held by the Firm.

In addition, the Firm holds liquid securities and other cash collateral that may be used as security when the fair value of the client's exposure is in the Firm's favor. For these purposes, the definition of liquid securities is consistent with the definition of high quality liquid assets as defined in the LCR rule.

In management's view, the appropriate measure of current credit risk should also take into consideration other



The following tables summarize the net derivative receivables and the internal ratings profile for the periods presented.

#### Derivative receivables

December 31, (in millions)	2024	2023
<b>Total, net of cash collateral</b>	<b>\$ 60,967</b>	<b>\$ 54,864</b>
Liquid securities and other cash collateral held against derivative receivables	<b>(28,160)</b>	<b>(22,461)</b>
<b>Total, net of liquid securities and other cash collateral</b>	<b>\$ 32,807</b>	<b>\$ 32,403</b>
Other collateral held against derivative receivables	<b>(1,021)</b>	<b>(993)</b>
<b>Total, net of collateral</b>	<b>\$ 31,786</b>	<b>\$ 31,410</b>

#### Ratings profile of derivative receivables

December 31, (in millions, except ratios)	2024		2023	
	Exposure net of collateral	% of exposure net of collateral	Exposure net of collateral	% of exposure net of collateral
Investment-grade	<b>\$ 23,783</b>	<b>75 %</b>	<b>\$ 24,004</b>	<b>76 %</b>
Noninvestment-grade	<b>8,003</b>	<b>25</b>	<b>7,406</b>	<b>24</b>
<b>Total</b>	<b>\$ 31,786</b>	<b>100 %</b>	<b>\$ 31,410</b>	<b>100 %</b>

While useful as a current view of credit exposure, the net fair value of the derivative receivables does not capture the potential future variability of that credit exposure. To capture this variability, the Firm calculates, on a client-by-client basis, three measures of potential derivatives-related credit loss: Peak, Derivative Risk Equivalent ("DRE"), and Average exposure ("AVG"). These measures all incorporate netting and collateral benefits, where applicable.

Peak represents a conservative measure of potential derivative exposure, including the benefit of collateral, to a counterparty calculated in a manner that is broadly equivalent to a 97.5% confidence level over the life of the transaction. Peak is the primary measure used by the Firm for setting credit limits for derivative contracts, senior management reporting and derivatives exposure management.

DRE exposure is a measure that expresses the risk of derivative exposure, including the benefit of collateral, on a basis intended to be equivalent to the risk of loan exposures. DRE is a less extreme measure of potential credit loss than Peak.

Finally, AVG is a measure of the expected fair value of the Firm's derivative exposures, including the benefit of collateral, at future time periods. AVG over the total life of the derivative contract is used as the primary metric for pricing purposes and is used to calculate credit risk capital and CVA, as further described below.

The fair value of the Firm's derivative receivables incorporates CVA to reflect the credit quality of counterparties. CVA is based on the Firm's AVG to a counterparty and the counterparty's credit spread in the credit derivatives market. The Firm believes that active risk management is essential to controlling the dynamic credit risk in the derivatives portfolio. In addition, the Firm's risk management process

defined as the risk that exposure to a counterparty is positively correlated with the impact of a default by the same counterparty, which could cause exposure to increase at the same time as the counterparty's capacity to meet its obligations is decreasing. Many factors may influence the nature and magnitude of these correlations over time. To the extent that these correlations are identified, the Firm may adjust the CVA associated with a particular counterparty's AVG. The Firm risk manages exposure to changes in CVA by entering into credit derivative contracts, as well as interest rate, foreign exchange, equity and commodity derivative contracts.

The below graph shows exposure profiles to the Firm's current derivatives portfolio over the next 10 years as calculated by the Peak, DRE and AVG metrics. The three measures generally show that exposure will decline after the first year, if no new trades are added to the portfolio.

### **Exposure profile of derivatives measures**

December 31, 2024

(in billions)

**21625**





**Management’s discussion and analysis**

### Credit derivatives

The Firm uses credit derivatives for two primary purposes: first, in its capacity as a market-maker, and second, as an end-user to manage the Firm's own credit risk associated with various exposures.

### Credit portfolio management activities

Included in the Firm's end-user activities are credit derivatives used to mitigate the credit risk associated with traditional lending activities (loans and lending-related commitments) and derivatives counterparty exposure in the Firm's wholesale businesses (collectively, "credit portfolio management activities"). Information on credit portfolio management activities is provided in the table below.

The Firm also uses credit derivatives as an end-user to manage other exposures, including credit risk arising from certain securities held in the Firm's market-making businesses. These credit derivatives are not included in credit portfolio management activities.

### Credit derivatives and credit-related notes used in credit portfolio management activities

December 31, (in millions)	Notional amount of protection purchased and sold <sup>(a)</sup>	
	2024	2023
Credit derivatives and credit-related notes used to manage:		
Loans and lending-related commitments	\$ 25,216	\$ 24,157
Derivative receivables	15,672	12,832
<b>Credit derivatives and credit-related notes used in credit portfolio management activities</b>	<b>\$ 40,888</b>	<b>\$ 36,989</b>

(a) Amounts are presented net, considering the Firm's net protection purchased or sold with respect to each underlying reference entity or index.

The credit derivatives used in credit portfolio management activities do not qualify for hedge accounting under U.S. GAAP; these derivatives are reported at fair value, with gains and losses recognized in principal transactions revenue. In contrast, the loans and lending-related commitments being risk-managed are accounted for on an accrual basis. This asymmetry in accounting treatment, between loans and lending-related commitments and the credit derivatives used in credit portfolio management activities, causes earnings volatility that is not representative, in the Firm's view, of the true changes in value of the Firm's overall credit exposure.

The effectiveness of credit default swaps ("CDS") as a hedge against the Firm's exposures may vary depending on a number of factors, including the named reference entity (i.e., the Firm may experience losses on specific exposures that are different than the named reference entities in the purchased CDS); the contractual terms of the CDS (which may have a defined credit event that does not align with an actual loss realized by



ALLOWANCE FOR CREDIT LOSSES

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The Firm's allowance for credit losses represents management's estimate of expected credit losses over the remaining expected life of the Firm's financial assets measured at amortized cost and certain off-balance sheet lending-related commitments. The Firm's allowance for credit losses generally consists of:

- the allowance for loan losses, which covers the Firm's retained loan portfolios (scored and risk-rated) and is presented separately on the Consolidated balance sheets,
- the allowance for lending-related commitments, which is reflected in accounts payable and other liabilities on the Consolidated balance sheets, and
- the allowance for credit losses on investment securities, which is reflected in investment securities on the Consolidated balance sheets.

#### *Discussion of changes in the allowance*

The allowance for credit losses as of December 31, 2024 was \$26.9 billion, reflecting a net addition of \$2.1 billion from December 31, 2023.

The net addition to the allowance for credit losses included:

- \$2.1 billion in **consumer**, reflecting:
  - a \$2.2 billion net addition in Card Services, predominantly driven by loan growth, reflecting higher revolving balances, including the seasoning of vintages originated in recent years,
 partially offset by
  - a \$125 million net reduction in Home Lending in the first quarter of 2024, and
- a net reduction of \$30 million in **wholesale**, reflecting:
  - changes in certain macroeconomic variables, an update to loss assumptions on certain loans in Markets, and a reduction due to charge-offs largely from collateral-dependent loans,
 predominantly offset by
  - net downgrade activity, primarily in Real Estate, and the impact of

- a weighted average U.S. unemployment rate peaking at 5.5% in the fourth quarter of 2025, and
- a weighted average U.S. real GDP level that is 1.9% lower than the central case at the end of the second quarter of 2026.

The following table presents the Firm's central case assumptions for the periods presented:

	Central case assumptions at December 31, 2024		
	2Q25	4Q25	2Q26
U.S. unemployment rate <sup>(a)</sup>	4.5 %	4.3 %	4.3 %
YoY growth in U.S. real GDP <sup>(b)</sup>	2.0 %	1.9 %	1.8 %

	Central case assumptions at December 31, 2023		
	2Q24	4Q24	2Q25
U.S. unemployment rate <sup>(a)</sup>	4.1 %	4.4 %	4.1 %
YoY growth in U.S. real GDP <sup>(b)</sup>	1.8 %	0.7 %	1.0 %

(a) Reflects quarterly average of forecasted U.S. unemployment rate.

(b) The year over year growth in U.S. real GDP in the forecast horizon of the central scenario is calculated as the percentage change in U.S. real GDP levels from the prior year.

Subsequent changes to this forecast and related estimates will be reflected in the provision for credit losses in future periods.

Refer to Consumer Credit Portfolio on pages 120–125, Wholesale Credit Portfolio on pages 126–136 and Note 12 for additional information on the consumer and wholesale credit portfolios.

Refer to Critical Accounting Estimates Used by the Firm on pages 161–164 for further information on the allowance for credit losses and related management judgments.



**Management’s discussion and analysis**



## Allowance for credit losses and related information

Year ended December 31,  (in millions, except ratios)	2024				2023			
	Consumer, excluding credit card	Credit card	Wholesale	Total	Consumer, excluding credit card	Credit card	Wholesale	Total
<b>Allowance for loan losses</b>								
Beginning balance at								
January 1,	\$ 1,856	\$ 12,450	\$ 8,114	\$ 22,420	\$ 2,040	\$ 11,200	\$ 6,486	\$ 19,726
Cumulative effect of a change in accounting principle <sup>(a)</sup>	NA	NA	NA	NA	(489)	(100)	2	(587)
Gross charge-offs	1,299	8,198	1,022	10,519	1,151	5,491	1,011	7,653
Gross recoveries collected	(625)	(1,056)	(200)	(1,881)	(519)	(793)	(132)	(1,444)
<b>Net charge-offs</b>	<b>674</b>	<b>7,142</b>	<b>822</b>	<b>8,638</b>	<b>632</b>	<b>4,698</b>	<b>879</b>	<b>6,209</b>
Provision for loan losses	624	9,292	578	10,494	936	6,048	2,484	9,468
Other	1	—	68	69	1	—	21	22
<b>Ending balance at December 31,</b>	<b>\$ 1,807</b>	<b>\$ 14,600</b>	<b>\$ 7,938</b>	<b>\$ 24,345</b>	<b>\$ 1,856</b>	<b>\$ 12,450</b>	<b>\$ 8,114</b>	<b>\$ 22,420</b>
<b>Allowance for lending-related commitments</b>								
Beginning balance at								
January 1,	\$ 75	\$ —	\$ 1,899	\$ 1,974	\$ 76	\$ —	\$ 2,306	\$ 2,382
Provision for lending-related commitments	7	—	121	128	(1)	—	(407)	(408)
Other	—	—	(1)	(1)	—	—	—	—
<b>Ending balance at December</b>								

- (a) Represents the impact to the allowance for loan losses upon the adoption of the Financial Instruments - Credit Losses: Troubled Debt Restructurings accounting guidance. Refer to Note 1 for further information.
- (b) Includes collateral-dependent loans, including those for which foreclosure is deemed probable, and nonaccrual risk-rated loans.
- (c) At December 31, 2024 and 2023, in addition to the allowance for credit losses in the table above, the Firm also had an allowance for credit losses of \$268 million and \$243 million, respectively, associated with certain accounts receivable in CIB.
- (d) The Firm's policy is generally to exempt credit card loans from being placed on nonaccrual status as permitted by regulatory guidance.

### Allocation of allowance for loan losses

The table below presents a breakdown of the allowance for loan losses by loan class. Refer to Note 12 for further information on loan classes.

December 31, (in millions, except ratios)	2024		2023	
	Allowance for loan losses	Percent of retained loans to total retained loans	Allowance for loan losses	Percent of retained loans to total retained loans
Residential real estate	\$ 666	24 %	\$ 817	25 %
Auto and other	1,141	5	1,039	6
<b>Consumer, excluding credit card</b>	<b>1,807</b>	<b>29</b>	<b>1,856</b>	<b>31</b>
<b>Credit card</b>	<b>14,600</b>	<b>18</b>	<b>12,450</b>	<b>16</b>
<b>Total consumer</b>	<b>16,407</b>	<b>47</b>	<b>14,306</b>	<b>47</b>
Secured by real estate	2,978	12	2,997	13
Commercial and industrial	3,350	13	3,519	13
Other	1,610	28	1,598	27
<b>Total wholesale</b>	<b>7,938</b>	<b>53</b>	<b>8,114</b>	<b>53</b>
<b>Total</b>	<b>\$ 24,345</b>	<b>100 %</b>	<b>\$ 22,420</b>	<b>100 %</b>

**Management’s discussion and analysis**

**INVESTMENT PORTFOLIO RISK MANAGEMENT**

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Investment portfolio risk is the risk associated with the loss of principal or a reduction in expected returns on investments arising from the investment securities portfolio or from principal investments. The investment securities portfolio is predominantly held by Treasury and CIO in connection with the Firm's balance sheet and asset-liability management objectives. Principal investments are predominantly privately-held financial instruments and are managed in the LOBs and Corporate. Investments are typically intended to be held over extended periods and, accordingly, the Firm has no expectation for short-term realized gains with respect to these investments.

#### Investment securities risk

Investment securities risk includes the exposure associated with a default in the payment of principal and interest. This risk is mitigated given that the investment securities portfolio held by Treasury and CIO predominantly consists of high-quality securities. At December 31, 2024, the Treasury and CIO investment securities portfolio, net of the allowance for credit losses, was \$678.3 billion, and the average credit rating of the securities comprising the portfolio was AA+ (based upon external ratings where available, and where not available, based primarily upon internal risk ratings). Refer to Corporate results on pages 88–90 and Note 10 for further information on the investment securities portfolio and internal risk ratings. Refer to Liquidity Risk Management on pages 108–115 for further information on related liquidity risk. Refer to Market Risk Management on pages 141–149 for further information on the market risk inherent in the portfolio.

#### Governance and oversight

Investment securities risks are governed by the Firm's Risk Appetite framework, and reviewed at the CTC Risk Committee with regular updates provided to the Board Risk Committee. The Firm's independent control functions are responsible for

#### Principal investment risk

Principal investments are typically privately-held financial instruments representing ownership interests or other forms of junior capital. In general, principal investments include tax-oriented investments and investments made to enhance or accelerate the Firm's business strategies and exclude those that are consolidated on the Firm's balance sheets. These investments are made by dedicated investing businesses or as part of a broader business strategy. The Firm's principal investments are managed by the LOBs and Corporate and are reflected within their respective financial results. The Firm's investments will continue to evolve based on market circumstances and in line with its strategic initiatives.

The table below presents the aggregate carrying values of the principal investment portfolios as of December 31, 2024 and 2023.

(in billions)	December 31, 2024	December 31, 2023
Tax-oriented investments, primarily in alternative energy and affordable housing <sup>(a)</sup>	\$ 33.3	\$ 28.8
Private equity, various debt and equity instruments, and real assets	9.1	10.5
<b>Total carrying value</b>	<b>\$ 42.4</b>	<b>\$ 39.3</b>

(a) Effective January 1, 2024, the Firm adopted updates to the Accounting for Investments in Tax Credit Structures guidance. Refer to Notes 1, 6, 14 and 25 for additional information.

#### Governance and oversight

The Firm's approach to managing principal investment risk is consistent with the Firm's risk governance structure. The Firm has established a Firmwide risk policy framework for all principal investing activities that includes approval by executives who are independent from the investing businesses, as appropriate.

The Firm's independent control



## MARKET RISK MANAGEMENT

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Market risk is the risk associated with the effect of changes in market factors such as interest and foreign exchange rates, equity and commodity prices, credit spreads or implied volatilities, on the value of assets and liabilities held for both the short and long term.

### **Market Risk Management**

Market Risk Management monitors market risks throughout the Firm and defines market risk policies and procedures.

Market Risk Management seeks to facilitate efficient risk/return decisions, reduce volatility in operating performance and provide transparency into the Firm's market risk profile for senior management, the Board of Directors and regulators. Market Risk Management is responsible for the following functions:

- Maintaining a market risk policy framework
- Independently measuring and monitoring LOB, Corporate, and Firmwide market risk
- Defining, approving and monitoring limits
- Performing stress testing and qualitative risk assessments

### **Risk measurement**

#### **Measures used to capture market risk**

There is no single measure to capture market risk and therefore Market Risk Management uses various metrics, both statistical and nonstatistical, to assess risk including:

- Value-at-risk
- Stress testing
- Profit and loss drawdowns
- Earnings-at-risk
- Economic Value Sensitivity
- Other sensitivity-based measures

#### **Risk monitoring and control**

Market risk exposure is managed primarily through a series of limits set in the context of the market environment and business strategy. In setting limits, Market Risk Management takes into consideration factors such as market volatility,

Market Risk Management sets limits and regularly reviews and updates them as appropriate. Senior management is responsible for reviewing and approving certain of these risk limits on an ongoing basis. Limits that have not been reviewed within specified time periods by Market Risk Management are reported to senior management. The LOBs and Corporate are responsible for adhering to established limits against which exposures are monitored and reported.

Limit breaches are required to be reported in a timely manner to limit approvers, which include Market Risk Management and senior management. In the event of a breach, Market Risk Management consults with senior members of appropriate groups within the Firm to determine the suitable course of action required to return the applicable positions to compliance, which may include a reduction in risk in order to remedy the breach or granting a temporary increase in limits to accommodate an expected increase in client activity and/or market volatility. Firm, Corporate or LOB-level limit breaches are escalated as appropriate.

Models used to measure market risk are inherently imprecise and are limited in their ability to measure certain risks or to predict losses. This imprecision may be heightened when sudden or severe shifts in market conditions occur. For additional discussion on model uncertainty refer to Estimations and Model Risk Management on page 160.

Market Risk Management periodically reviews the Firm's existing market risk measures to identify opportunities for enhancement, and to the extent appropriate, will calibrate those measures accordingly over time.





## **Management's discussion and analysis**

The following table summarizes the predominant business activities and related market risks, as well as positions which give rise to market risk and certain measures used to capture those risks, for each LOB and Corporate.

In addition to the predominant business activities, each LOB and Corporate may engage in principal investing activities. To the extent principal investments are deemed market risk sensitive, they are reflected in relevant risk measures and captured in the table below. Refer to Investment Portfolio Risk Management on page 140 for additional discussion on principal investments.

LOBs and business Corporate activities	Predominant business	Related market risks	Positions included in Risk Management VaR	Positions included in earnings-at-risk	Positions included in other sensitivity- based measures
<b>CCB</b>	<ul style="list-style-type: none"> <li>Originates and services mortgage loans</li> <li>Originates loans and takes deposits</li> </ul>	<ul style="list-style-type: none"> <li>Risk from changes in the probability of newly originated mortgage commitments closing</li> <li>Interest rate risk and prepayment risk</li> </ul>	<ul style="list-style-type: none"> <li>Mortgage commitments, classified as derivatives</li> <li>Warehouse loans that are fair value option elected, classified as loans – debt instruments</li> <li>MSRs</li> <li>Hedges of mortgage commitments, warehouse loans and MSRs, classified as derivatives</li> <li>Interest-only and mortgage-backed securities, classified as trading assets debt instruments, and related hedges, classified as derivatives</li> <li>Fair value option elected liabilities<sup>(b)</sup></li> </ul>	<ul style="list-style-type: none"> <li>Retained and held for-sale loan portfolios</li> <li>Deposits</li> </ul>	<ul style="list-style-type: none"> <li>Fair value option elected liabilities DVA<sup>(b)</sup></li> </ul>
<b>CIB<sup>(a)</sup></b>	<ul style="list-style-type: none"> <li>Makes markets and services clients across fixed income, foreign exchange, equities and commodities</li> <li>Originates loans and takes deposits</li> </ul>	<ul style="list-style-type: none"> <li>Risk of loss from adverse movements in market prices and implied volatilities across interest rate, foreign exchange, credit, commodity and equity instruments</li> <li>Basis and correlation risk from changes in the way asset values move relative to one another</li> <li>Interest rate risk and prepayment risk</li> </ul>	<ul style="list-style-type: none"> <li>Trading assets/liabilities – debt and marketable equity instruments, and derivatives, including hedges of the retained loan portfolio</li> <li>Certain securities purchased, loaned or sold under resale agreements and securities borrowed</li> <li>Fair value option elected liabilities<sup>(b)</sup></li> <li>Certain fair value option elected loans</li> <li>Derivative CVA and associated hedges</li> <li>Marketable equity investments</li> </ul>	<ul style="list-style-type: none"> <li>Retained and held for-sale loan portfolios</li> <li>Deposits</li> </ul>	<ul style="list-style-type: none"> <li>Privately held equity and other investments measured at fair value; and certain real estate-related fair value option elected loans</li> <li>Derivatives FVA and fair value option elected liabilities DVA<sup>(b)</sup></li> <li>Credit risk component of CVA and associated hedges for counterparties with credit spreads that have widened to elevated levels</li> </ul>

- (a) Effective in the second quarter of 2024, the Firm reorganized its reportable business segments by combining the former Corporate & Investment Bank and Commercial Banking business segments to form one reportable segment, the Commercial & Investment Bank ("CIB"). Refer to Business Segment & Corporate Results on pages 70-90 for additional information.
- (b) Reflects structured notes in Risk Management VaR and the DVA on structured notes in other sensitivity-based measures.

**Value-at-risk**

JPMorganChase utilizes value-at-risk ("VaR"), a statistical risk measure, to estimate the potential loss from adverse market moves in the current market environment. The Firm has a single VaR framework used as a basis for calculating Risk Management VaR and Regulatory VaR.

The framework is employed across the Firm using historical simulation based on data for the previous 12 months. The framework's approach assumes that historical changes in market values are representative of the distribution of potential outcomes in the immediate future. The Firm believes the use of Risk Management VaR provides a daily measure of risk that is closely aligned to risk management decisions made by the LOBs and Corporate and, along with other market risk measures, provides the appropriate information needed to respond to risk events.

The Firm's Risk Management VaR is calculated assuming a one-day holding period and an expected tail-loss methodology which approximates a 95% confidence level. Risk Management VaR provides a consistent framework to measure risk profiles and levels of diversification across product types and is used for aggregating risks and monitoring limits across businesses. VaR results are reported as appropriate to various groups including senior management, the Board Risk Committee and regulators.

Underlying the overall VaR model framework are individual VaR models that simulate historical market returns for individual risk factors and/or product types. To capture material market risks as part of the Firm's risk management framework, comprehensive VaR model calculations are performed daily for businesses whose activities give rise to market risk. These VaR models are granular and incorporate numerous risk factors and inputs to simulate daily changes in market values over the historical period; inputs are selected based on the risk profile of each portfolio, as sensitivities and historical time series used to generate daily market

For certain products, specific risk parameters are not captured in VaR due to the lack of liquidity and availability of appropriate historical data. The Firm uses proxies to estimate the VaR for these and other products when daily time series are not available. It is likely that using an actual price-based time series for these products, if available, would affect the VaR results presented. The Firm therefore considers other nonstatistical measures such as stress testing, in addition to VaR, to capture and manage its market risk positions.

As VaR model calculations require daily data and a consistent source for valuation, the daily market data used may be different than the independent third-party data collected for VCG price testing in its monthly valuation process. For example, in cases where market prices are not observable, or where proxies are used in VaR historical time series, the data sources may differ. Refer to Valuation process in Note 2 for further information on the Firm's valuation process.

The Firm's VaR model calculations are periodically evaluated and enhanced in response to changes in the composition of the Firm's portfolios, changes in market conditions, improvements in the Firm's modeling techniques and measurements, and other factors. Such changes may affect historical comparisons of VaR results. Refer to Estimations and Model Risk Management on page 160 for information regarding model reviews and approvals.

The Firm calculates separately a daily aggregated VaR in accordance with regulatory rules ("Regulatory VaR"), which is used to derive the Firm's regulatory VaR-based capital requirements under Basel III capital rules. This Regulatory VaR model framework currently assumes a ten business-day holding period and an expected tail-loss methodology which approximates a 99% confidence level. Regulatory VaR is applied to "covered" positions as defined by Basel III capital rules, which may be



## Management's discussion and analysis

The table below shows the results of the Firm's Risk Management VaR measure using a 95% confidence level. VaR can vary significantly as positions change, market volatility fluctuates, and diversification benefits change.

### Total VaR

As of or for the year ended December 31, (in millions)	2024			2023		
	Avg.	Min	Max	Avg.	Min	Max
<b>CIB trading VaR by risk type<sup>(a)</sup></b>						
Fixed income	\$ 34	\$ 26	\$ 53	\$ 49	\$ 31	\$ 71
Foreign exchange	15	7	23	12	6	26
Equities	8	4	15	7	3	11
Commodities and other	8	6	13	11	6	19
Diversification benefit to CIB trading VaR <sup>(b)</sup>	(32)	NM	NM	(42)	NM	NM
<b>CIB trading VaR</b>	<b>33</b>	<b>27</b>	<b>42</b>	<b>37</b>	<b>24</b>	<b>55</b>
Credit Portfolio VaR <sup>(c)</sup>	22	18	28	14	8	26
Diversification benefit to CIB VaR <sup>(b)</sup>	(16)	NM	NM	(11)	NM	NM
<b>CIB VaR</b>	<b>39</b>	<b>27</b>	<b>52</b>	<b>40</b>	<b>23</b>	<b>58</b>
CCB VaR	3	1	6	7	1	15
AWM VaR <sup>(d)</sup>	9	5	10	1	—	10
Corporate VaR <sup>(d)(e)</sup>	23	7	102	12	9	17
Diversification benefit to other VaR <sup>(b)</sup>	(10)	NM	NM	(6)	NM	NM
<b>Other VaR</b>	<b>25</b>	<b>10</b>	<b>101</b>	<b>14</b>	<b>9</b>	<b>22</b>
Diversification benefit to CIB and other VaR <sup>(b)</sup>	(17)	NM	NM	(11)	NM	NM
<b>Total VaR</b>	<b>\$ 47</b>	<b>\$ 30</b>	<b>\$ 91</b>	<b>\$ 43</b>	<b>\$ 26</b>	<b>\$ 57</b>

(a) The impact of the business segment reorganization in the second quarter of 2024 was not material to Total CIB VaR. Prior periods have not been revised. Refer to Business Segment & Corporate Results on pages 70–90 for additional information.

(b) Diversification benefit represents the difference between the portfolio VaR and the sum of its individual components. This reflects the non-additive nature of VaR due to imperfect correlation across LOBs, Corporate, and risk types. For maximum and minimum VaR, diversification benefit is not meaningful as the maximum and minimum VaR for each portfolio may have occurred on different trading days than the components.

(c) Includes the derivative CVA, hedges of the CVA and credit protection purchased against certain retained loans and lending-related commitments, which are reported in principal transactions revenue. This VaR does not include the retained loan portfolio, which is not reported at fair value. In line with the Firm's internal model governance, the credit risk component of CVA related to certain counterparties was removed from Credit Portfolio VaR due to the widening of the credit spreads for those counterparties to elevated levels. The related hedges were also removed to maintain consistency. This exposure is now reflected in other sensitivity-based measures.

(d) In the second quarter of 2024, the presentation of Corporate and other LOB VaR was updated to disaggregate AWM VaR due to the increase associated with credit protection purchased against



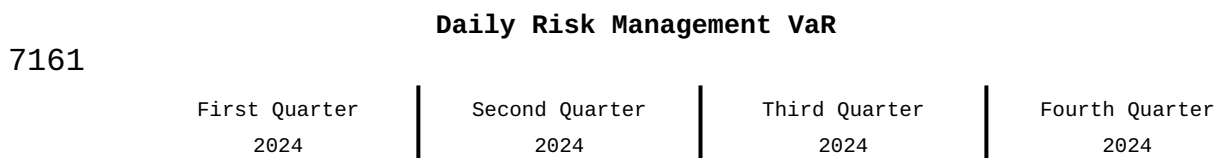
certain retained loans and lending-related commitments. The VaR does not include the retained loan portfolio, which is not reported at fair value.

(e) Includes a legacy private equity position which is publicly traded, as well as Visa C shares which the Firm disposed of in the second and third quarters of 2024. The impact of Visa C shares resulted in elevated average and maximum Corporate VaR, Other VaR and Total VaR. Refer to Executive Overview on pages 54–58 for additional information.

**2024 compared with 2023**

Average Total VaR increased by \$4 million for the year ended December 31, 2024 when compared with the prior year. The increase was predominantly driven by the impact of the Firm’s receipt of Visa C shares on Corporate VaR and increases associated with credit	protection purchased against certain retained loans and lending-related commitments within Credit Portfolio VaR and AWM VaR, largely offset by market volatility rolling out of the one-year historical look-back period impacting the Fixed income risk type.
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The following graph presents daily Risk Management VaR for the four trailing quarters. The increase in VaR and subsequent decline observed in the second quarter of 2024 was primarily driven by changes in Visa C share exposure in the Firm's Corporate VaR.



### **VaR backtesting**

The Firm performs daily VaR model backtesting, which compares the daily Risk Management VaR results with the daily gains and losses that are utilized for VaR backtesting purposes. The gains and losses depicted in the chart below do not reflect the Firm's reported revenue as they exclude certain components of total net revenue, such as those associated with the execution of new transactions (i.e., intraday client-driven trading and intraday risk management activities), fees, commissions, other valuation adjustments and net interest income. These excluded components of total net revenue may more than offset the backtesting gain or loss on a particular day. The definition of backtesting gains and losses above is consistent with the requirements for backtesting under Basel III capital rules.

A backtesting exception occurs when the daily backtesting loss exceeds the daily Risk Management VaR for the prior day. Under the Firm's Risk Management VaR methodology, assuming current changes in market values are consistent with the historical changes used in the simulation, the Firm would expect to incur VaR backtesting exceptions five times every 100 trading days on average. The number of VaR backtesting exceptions observed can differ from the statistically expected number of backtesting exceptions if the current level of market volatility is materially different from the level of market volatility during the 12 months of historical data used in the VaR calculation.

For the 12 months ended December 31, 2024, the Firm posted backtesting gains on 179 of the 260 days, and observed eight VaR backtesting exceptions, of which three were in the three months ended December 31, 2024. Firmwide backtesting loss days can differ from the loss days for which Fixed Income Markets and Equity Markets posted losses, as disclosed in CIB Markets revenue, as the population of positions which comprise each metric are different and due to the exclusion of certain components of total net revenue in backtesting gains and losses as described above.

The following chart presents the distribution of Firmwide daily backtesting gains and losses for the trailing 12 months and three months ended December 31, 2024. The daily backtesting losses are displayed as a percentage of the corresponding daily Risk Management VaR. The count of days with backtesting losses are shown in aggregate, in fifty percentage point intervals. Backtesting exceptions are displayed within the intervals that are greater than one hundred percent. The results in the chart below differ from the results of backtesting disclosed in the Market Risk section of the Firm's Basel III Pillar 3 Regulatory Capital Disclosures reports, which are based on Regulatory VaR applied to the Firm's covered positions.

### **Distribution of Daily Backtesting Gains and Losses**

25\_10K-VaR\_backtesting 2024 021125\_04.jpg



**Management's discussion and analysis**

**Other risk measures**

### **Stress testing**

Along with VaR, stress testing is an important tool used to assess risk. While VaR reflects the risk of loss due to adverse changes in markets using recent historical market behavior, stress testing reflects the risk of loss from hypothetical changes in the value of market risk sensitive positions applied simultaneously. Stress testing measures the Firm's vulnerability to losses under a range of stressed but possible economic and market scenarios. The results are used to understand the exposures responsible for those potential losses and are measured against limits.

The Firm's stress framework covers market risk sensitive positions in the LOBs and Corporate. The framework is used to calculate multiple magnitudes of potential stress for both market rallies and market sell-offs, assuming significant changes in market factors such as credit spreads, equity prices, interest rates, currency rates and commodity prices, and combines them in multiple ways to capture an array of hypothetical economic and market scenarios.

The Firm generates a number of scenarios that focus on tail events in specific asset classes and geographies, including how the event may impact multiple market factors simultaneously. Scenarios also incorporate specific idiosyncratic risks and stress basis risk between different products. The flexibility in the stress framework allows the Firm to construct new scenarios that can test the outcomes against possible future stress events. Stress testing results are reported periodically to senior management of the Firm, as appropriate.

Stress methodologies are governed by the overall stress framework, under the oversight of Market Risk Management. The Firmwide Market Risk Stress Methodology Committee reviews and approves changes to stress testing methodology and scenarios across the Firm. Significant changes to the framework are escalated to

### **Structural interest rate risk management**

The effect of interest rate exposure on the Firm's reported net income is important as interest rate risk represents one of the Firm's significant market risks. Interest rate risk arises not only from trading activities which are included in VaR, but also from the Firm's traditional banking activities, which include extension of loans and credit facilities, taking deposits, issuing debt, as well as the investment securities portfolio, and associated derivative instruments. Refer to the table on page 142 for a summary by LOB and Corporate identifying positions included in earnings-at-risk.

#### **Governance**

The CTC Risk Committee establishes the Firm's interest rate risk management policy and related limits, which are subject to approval by the Board Risk Committee. Treasury and CIO, working in partnership with the LOBs, calculates the Firm's structural interest rate risk profile and reviews it with senior management, including the CTC Risk Committee. In addition, oversight of structural interest rate risk is managed through a dedicated risk function reporting to the CTC CRO. This risk function is responsible for providing independent oversight and governance around assumptions and establishing and monitoring limits for structural interest rate risk, including limits related to Earnings-at-Risk and Economic Value Sensitivity. The Firm manages structural interest rate risk generally through its investment securities portfolio and interest rate derivatives.

#### **Key risk drivers and risk management process**

Structural interest rate risk can arise due to a variety of factors, including:

- Differences in timing among the maturity or repricing of assets, liabilities and off-balance sheet instruments





experience, interest rate reset dates and maturities, rate indices used for repricing, and any interest rate ceilings or floors for adjustable rate products.

### **Earnings-at-Risk**

One way that the Firm evaluates its structural interest rate risk is through earnings-at-risk. Earnings-at-risk estimates the Firm's interest rate exposure for a given interest rate scenario. It is presented as a sensitivity to a baseline, which includes net interest income and certain interest rate sensitive fees. The baseline uses market interest rates and, in the case of deposits, pricing assumptions. The Firm conducts simulations of changes to this baseline for interest rate-sensitive assets and liabilities denominated in U.S. dollars and other currencies ("non-U.S. dollar" currencies). These simulations primarily include retained and held-for-sale loans, deposits, deposits with banks and financing activities, investment securities, long-term debt, related interest rate hedges, and funds transfer pricing of other positions in risk management VaR and other sensitivity-based measures as described on page 142. Beginning in the fourth quarter of 2024, these simulations also include hedges of non-U.S. dollar foreign exchange exposures arising from capital investments. Refer to non-U.S. dollar foreign exchange risk on page 149 for more information.

Earnings-at-risk scenarios estimate the potential change to a baseline over the following 12 months utilizing multiple assumptions. These scenarios include a parallel shift involving changes to both short-term and long-term rates by an equal amount; a steeper yield curve involving holding short-term rates constant and increasing long-term rates; and a flatter yield curve involving increasing short-term rates and holding long-term rates constant or holding short-term rates constant and decreasing long-term rates. These scenarios consider many different factors, including:

require management judgment. The amount of deposits that the Firm holds at any given time may be influenced by Federal Reserve actions, as well as broader monetary conditions and competition for deposits.

- The pricing sensitivity of deposits, known as deposit betas, represent the amount by which deposit rates paid could change upon a given change in market interest rates. Actual deposit rates paid may differ from the modeled assumptions, primarily due to customer behavior and competition for deposits.

The Firm performs sensitivity analyses of the assumptions used in earnings-at-risk scenarios, including with respect to deposit betas and forecasts of deposit balances, both of which are especially significant in the case of consumer deposits. The results of these sensitivity analyses are reported to the CTC Risk Committee and the Board Risk Committee.

The Firm's earnings-at-risk scenarios are periodically evaluated and enhanced in response to changes in the composition of the Firm's balance sheet, changes in market conditions, improvements in the Firm's simulation and other factors. In the second quarter of 2024, the Firm updated certain deposit rates paid assumptions which take into account observed pricing and client and customer behavior during the most recent economic cycle. These updated deposit rates paid assumptions impacted the U.S. dollar scenarios, resulting in an increase in positive sensitivity in higher interest rate scenarios, and an increase in negative sensitivity in lower interest rate scenarios.

The Firm's earnings-at-risk sensitivities are measures of the Firm's interest rate exposure. The Firm's actual net interest income for the rate changes presented may differ as the earnings-at-risk scenarios are modelled as instantaneous changes and exclude any actions that could be taken by the Firm or its clients or





**Management’s discussion and analysis**

The Firm's sensitivities are presented in the table below.

December 31, (in billions)	2024 <sup>(a)</sup>	2023 <sup>(b)</sup>
<b>Parallel shift:</b>		
+100 bps shift in rates \$	2.3	\$ 3.1
-100 bps shift in rates	(2.5)	(2.8)
+200 bps shift in rates	4.6	6.2
-200 bps shift in rates	(4.9)	(6.1)
<b>Steeper yield curve:</b>		
+100 bps shift in long-term rates	1.0	0.6
-100 bps shift in short-term rates	(1.4)	(2.2)
<b>Flatter yield curve:</b>		
+100 bps shift in short-term rates	1.2	2.5
-100 bps shift in long-term rates	(1.1)	(0.6)

(a) Reflects the simultaneous shift of U.S. dollar and non-U.S. dollar rates, and the inclusion of the hedges of non-U.S. dollar capital investments. This inclusion had no impact on total sensitivities but increased U.S. dollar and decreased non-U.S. dollar sensitivities. Subsequent to this change, non-U.S. dollar sensitivities were insignificant.

(b) At December 31, 2023, represents the total of the Firm's U.S. dollar and non-U.S. dollar sensitivities as previously reported.

The change in the Firm's sensitivities as of December 31, 2024, compared to December 31, 2023, were primarily driven by Treasury and CIO balance sheet actions where the Firm added duration through investment securities activity, cash flow hedges of retained loans and fair value hedges of Firm debt. The impact on the sensitivities of the Treasury and CIO balance sheet actions were largely offset by the impact of deposits, primarily from the second quarter of 2024 update of the deposit rates paid assumptions for certain consumer and wholesale deposit products. Additionally, the results as of December 31, 2024 reflected the update to include hedges of the Firm's non-U.S. dollar capital investments. Although total results were not impacted, these

	Amounts by which reported sensitivities would have been different	
	Impact from update in the second quarter of 2024	Impact from update in the fourth quarter of 2024
December 31, 2024 (in billions)		

#### U.S. dollar:

##### Parallel shift:

+100 bps shift in rates	\$ (1.0)	\$ (0.6)
-100 bps shift in rates	0.9	0.6
+200 bps shift in rates	(1.9)	(1.3)
-200 bps shift in rates	1.5	1.3

##### Steeper yield curve:

+100 bps shift in long-term rates	—	—
-100 bps shift in short-term rates	0.9	0.6

##### Flatter yield curve:

+100 bps shift in short-term rates	(1.0)	(0.6)
-100 bps shift in long-term rates	—	—

#### Non-U.S. dollar:

##### Parallel shift:

+100 bps shift in rates	—	0.6
-100 bps shift in rates	—	(0.6)

### Economic Value Sensitivity

In addition to earnings-at-risk, which is measured as a sensitivity to a baseline of earnings over the next 12 months, the Firm also measures Economic Value Sensitivity ("EVS"). EVS stress tests the longer-term economic value of equity by measuring the sensitivity of the Firm's current balance sheet, primarily retained loans, deposits, debt and investment securities as well as related hedges, under various interest rate scenarios. The Firm's pricing and cash flow assumptions associated with deposits, as well as prepayment assumptions for loans and securities,



### **Non-U.S. dollar foreign exchange risk**

Non-U.S. dollar FX risk is the risk that changes in foreign exchange rates affect the value of the Firm's assets or liabilities or future results. The Firm has structural non-U.S. dollar FX exposures arising from capital investments, forecasted expense and revenue, the investment securities portfolio and non-U.S. dollar-denominated debt issuance. Treasury and CIO, working in partnership with the LOBs, primarily manage these risks on behalf of the Firm. Treasury and CIO may hedge certain of these risks using derivatives. Refer to Business Segment & Corporate Results on page 71 for additional information.

### **Other sensitivity-based measures**

The Firm quantifies the market risk of certain debt and equity and credit and funding-related exposures by assessing the potential impact on net revenue, other comprehensive income ("OCI") and noninterest expense due to changes in relevant market variables. Refer to the predominant business activities that give rise to market risk on page 142 for additional information on the positions captured in other sensitivity-based measures.

The table below represents the potential impact to net revenue, OCI or noninterest expense for market risk sensitive instruments that are not included in VaR or earnings-at-risk. Where appropriate, instruments used for hedging purposes are reported net of the positions being hedged. The sensitivities disclosed in the table below may not be representative of the actual gain or loss that would have been realized at December 31, 2024 and 2023, as the movement in market parameters across maturities may vary and are not intended to imply management's expectation of future changes in these sensitivities.

Gain/(loss) (in millions)				
Activity	Description	Sensitivity measure	December 31, 2024	December 31, 2023
<b>Debt and equity<sup>(a)</sup></b>				
Asset Management activities	Consists of seed capital and related hedges; fund co-investments <sup>(c)</sup> ; and certain deferred compensation and related hedges <sup>(d)</sup>	10% decline in market value	\$ (53)	\$ (61)
Other debt and equity	Consists of certain real estate-related fair value option elected loans, privately held equity and other investments held at fair value <sup>(c)</sup>	10% decline in market value	(1,030)	(1,044)
<b>Credit- and funding-related exposures</b>				
Non-USD LTD cross-currency basis	Represents the basis risk on derivatives used to hedge the foreign exchange risk on the non-USD LTD <sup>(e)</sup>	1 basis point parallel tightening of cross currency basis	(10)	(12)
Non-USD LTD hedges foreign currency ("FX") exposure	Primarily represents the foreign exchange revaluation on the fair value of the derivative hedges <sup>(e)</sup>	10% depreciation of currency	28	16
Derivatives - funding spread risk	Impact of changes in the spread related to derivatives FVA <sup>(c)</sup>	1 basis point parallel increase in spread	(2)	(3)
CVA - counterparty credit risk <sup>(b)</sup>	Credit risk component of CVA and associated hedges	10% credit spread widening	—	—
Fair value option elected liabilities - funding spread risk	Impact of changes in the spread related to fair value option elected liabilities DVA <sup>(e)</sup>	1 basis point parallel increase in spread	47	46

(a) Excludes equity securities without readily determinable fair values that are measured under the measurement alternative. Refer to Note 2 for additional information.

(b) In line with the Firm's internal model governance, the credit risk component of CVA related to certain counterparties was removed from Credit Portfolio VaR due to the widening of the credit spreads for those counterparties to elevated levels. The related hedges were also removed to maintain consistency. This exposure is now reflected in the table above.

(c) Impact recognized through net revenue.

(d) Impact recognized through noninterest expense.

(e) Impact recognized through OCI.

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**Management’s discussion and analysis**

**COUNTRY RISK MANAGEMENT**

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The Firm, through its LOBs and Corporate, may be exposed to country risk resulting from financial, economic, political or other significant developments which adversely affect the value of the Firm's exposures related to a particular country or set of countries. The Country Risk Management group actively monitors the various portfolios which may be impacted by these developments and measures the extent to which the Firm's exposures are diversified given the Firm's strategy and risk tolerance relative to a country.

#### **Organization and management**

Country Risk Management is an independent risk management function that assesses and monitors exposure to country risk across the Firm.

The Firm's country risk management function includes the following activities:

- Maintaining policies, procedures and standards consistent with a comprehensive country risk framework
- Assigning sovereign ratings, assessing country risks and establishing risk tolerance relative to a country
- Measuring and monitoring country risk exposure and stress across the Firm
- Managing and approving country limits and reporting trends and limit breaches to senior management
- Developing surveillance tools, such as signaling models and ratings indicators, for early identification of potential country risk concerns
- Providing country risk scenario analysis

#### **Sources and measurement**

The Firm is exposed to country risk through its lending and deposits, investing, and market-making activities, whether cross-border or locally funded. Country exposure includes activity with both government and private-sector entities in a country.

Under the Firm's internal country

Individual country exposures reflect an aggregation of the Firm's risk to an immediate default, with zero recovery, of the counterparties, issuers, obligors or guarantors attributed to that country.

Activities which result in contingent or indirect exposure to a country are not included in the country exposure measure (for example, providing clearing services or secondary exposure to collateral on securities financing receivables).

Assumptions are sometimes required in determining the measurement and allocation of country exposure, particularly in the case of certain non-linear or index products, or where the nature of the counterparty, issuer, obligor or guarantor is not suitable for attribution to an individual country. The use of different measurement approaches or assumptions could affect the amount of reported country exposure.

Under the Firm's internal country risk measurement framework:

- Deposits with banks are measured as the cash balances placed with central banks, commercial banks, and other financial institutions
- Lending exposures are measured at the total committed amount (funded and unfunded), net of the allowance for credit losses and eligible cash and marketable securities collateral received
- Securities financing exposures are measured at their receivable balance, net of eligible collateral received
- Debt and equity securities are measured at the fair value of all positions, including both long and short positions
- Counterparty exposure on derivative receivables is measured at the derivative's fair value, net of the fair value of the eligible collateral received
- Credit derivatives exposure is measured at the net notional amount of protection purchased or sold for the same underlying reference entity, inclusive of the fair value of the derivative receivable or





## Stress testing

Stress testing is an important component of the Firm's country risk management framework, which aims to estimate and limit losses arising from a country crisis by measuring the impact of adverse asset price movements to a country based on market shocks combined with counterparty specific assumptions. Country Risk Management periodically designs and runs tailored stress scenarios to test vulnerabilities to individual countries or sets of countries in response to specific or potential market events, sector performance concerns, sovereign actions and geopolitical risks. These tailored stress results are used to inform potential risk reduction across the Firm, as necessary.

## Risk reporting

Country exposure and stress are measured and reported regularly, and used by Country Risk Management to identify trends and monitor high usages and breaches against limits. For country risk management purposes, the Firm may report exposure to jurisdictions that are not fully autonomous, including dependent territories and Special Administrative Regions ("SAR") such as Hong Kong SAR, separately from the independent sovereign states with which they are associated.

The following table presents the Firm's top 20 exposures by country (excluding the U.S.) as of December 31, 2024, and their comparative exposures as of December 31, 2023. The top 20 country exposures represent the Firm's largest total exposures by individual country. Country exposures may fluctuate from period to period due to a variety of factors, including client activity, market flows and liquidity management activities undertaken by the Firm.

The increase in exposure to Germany when compared to December 31, 2023, was driven by an increase in cash placed with the central bank of Germany, predominantly due to client-driven market-making activities and

## Top 20 country exposures (excluding the U.S.)<sup>(a)</sup>

December 31, (in billions)	2024					2023 <sup>(f)</sup>
	Deposits with banks <sup>(b)</sup>	Lending <sup>(c)</sup>	Trading and investing <sup>(d)</sup>	Other <sup>(e)</sup>	Total exposure	Total exposure
Germany	\$ 89.7	\$ 12.6	\$ 0.9	\$ 0.7	\$103.9	\$ 84.8
United Kingdom	24.6	22.4	27.7	1.4	76.1	77.1
Japan	55.1	3.1	4.5	0.4	63.1	36.0
France	0.6	12.3	4.2	0.9	18.0	10.1
Canada	1.6	10.6	2.7	0.2	15.1	16.0
Brazil	3.5	4.2	7.0	—	14.7	16.7
Australia	5.0	7.4	1.9	—	14.3	18.3
Switzerland	4.7	4.2	1.4	3.3	13.6	10.9
Mainland China	3.1	6.2	4.1	—	13.4	14.0
India	1.1	5.2	4.1	0.9	11.3	9.7
Italy	0.1	8.2	1.8	0.3	10.4	6.0
South Korea	0.6	2.9	6.3	0.5	10.3	7.8
Saudi Arabia	0.8	5.7	2.9	—	9.4	7.7
Singapore	1.5	2.0	3.5	0.4	7.4	9.8
Mexico	1.3	4.4	1.5	—	7.2	8.2
Spain	0.2	4.6	1.2	0.1	6.1	6.3
Netherlands	—	6.6	(0.9)	0.2	5.9	5.6
Belgium	4.0	1.3	0.1	—	5.4	8.0
Malaysia	2.1	0.2	1.0	0.3	3.6	4.2
Luxembourg	0.9	1.7	1.0	—	3.6	4.0

(a) Country exposures presented in the table reflect 89% and 88% of total Firmwide non-U.S. exposure, where exposure is attributed to an individual country based on the Firm's internal country risk management approach, at December 31, 2024 and 2023, respectively.

(b) Predominantly represents cash placed with central banks.

(c) Includes loans and accrued interest receivable, lending-related commitments (net of eligible collateral and the allowance for credit losses). Excludes intra-day and operating exposures, such as those from settlement and clearing activities.

(d) Includes market-making positions and hedging, investment securities, and counterparty exposure on derivative and securities financings net of eligible collateral. Market-making positions and hedging includes exposure from single reference entity ("single-name"), index and other multiple reference entity



**Management’s discussion and analysis**

**CLIMATE RISK MANAGEMENT**

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Climate risk refers to the potential threats posed by climate change to the Firm and its clients, customers, operations and business strategy. Climate change is viewed as a driver of risk that may impact existing types of risks managed by the Firm. Climate risk is categorized into physical risk and transition risk.

Physical risk involves economic costs and financial losses due to a changing climate. Acute physical risk drivers include the increased frequency or severity of climate and weather events, such as floods, wildfires and tropical cyclones. Chronic physical risk drivers include more gradual shifts in the climate, such as sea level rise, persistent changes in precipitation levels and increases in average ambient temperatures.

Transition risk involves the financial and economic consequences of society's shift toward a lower-carbon economy. Transition risk drivers include possible changes in public policy, adoption of new technologies and shifts in consumer preferences. Transition risks may also be influenced by changes in the physical climate.

#### **Organization and management**

The Firm has a Climate Risk Management function that is responsible for establishing and maintaining the Firmwide framework and strategy for managing climate risks that may impact the Firm.

Other responsibilities of Climate Risk Management include:

- Setting policies, standards, procedures and processes to support identification, escalation, monitoring and management of climate risk across the Firm
- Developing metrics, scenarios and stress testing mechanisms designed to assess the range of potential climate-related financial and economic impacts to the Firm
- Establishing a Firmwide climate risk data strategy and the supporting climate risk technology infrastructure

#### **Governance and oversight**

The Firm's framework and strategy for managing climate risk is integrated into the Firm's risk governance structure. This framework allows for the escalation of significant climate risk-related issues to LOB Risk Committees. The Board Risk Committee also receives information on significant climate risks and climate-related initiatives, as appropriate.







Operational risk is the risk of an adverse outcome resulting from inadequate or failed internal processes or systems; human factors; or external events impacting the Firm's processes or systems. Operational Risk includes compliance, conduct, legal, and estimations and model risk. Operational risk is inherent in the Firm's activities and can manifest itself in various ways, including fraudulent acts, business disruptions (including those caused by extraordinary events beyond the Firm's control), cyber attacks, inappropriate employee behavior, failure to comply with applicable laws, rules and regulations or failure of vendors or other third party providers to perform in accordance with their agreements. Operational Risk Management attempts to manage operational risk at appropriate levels in light of the Firm's financial position, the characteristics of its businesses, and the markets and regulatory environments in which it operates.

#### **Operational Risk Management Framework**

The Firm's Compliance, Conduct, and Operational Risk ("CCOR") Management Framework is designed to enable the Firm to govern, identify, measure, monitor and test, manage and report on the Firm's operational risk.

#### *Operational Risk Governance*

The LOBs and Corporate are responsible for the management of operational risk. The Control Management Organization, which consists of control managers within each LOB and Corporate, is responsible for the day-to-day execution of the CCOR Framework.

The Firm's Global Chief Compliance Officer ("CCO") and FRE for Operational Risk and Qualitative Risk Appetite is responsible for defining the CCOR Management Framework and establishing the minimum standards for its execution. The LOB and Corporate aligned CCOR Lead Officers report to the Global CCO and FRE for Operational Risk and Qualitative Risk Appetite and are independent of the respective businesses or functions they oversee. The CCOR Management

provides oversight of and challenge to these evaluations and may also perform independent assessments of significant operational risk events and areas of concentrated or emerging risk.

#### *Operational Risk Measurement*

Operational Risk and Compliance performs an independent assessment of the operational risks inherent within the LOBs and Corporate, which includes evaluating the effectiveness of the control environments and reporting the results to senior management.

In addition, Operational Risk and Compliance assesses operational risks through quantitative means, including operational risk-based capital and estimation of operational risk losses under both baseline and stressed conditions.

The primary component of the operational risk-based capital estimate is the Loss Distribution Approach ("LDA") statistical model, which simulates the projected frequency and severity of operational risk losses based on historical data. The LDA model is used to estimate an aggregate operational risk loss over a one-year time horizon, at a 99.9% confidence level. The LDA model incorporates actual internal operational risk losses in the quarter following the period in which those losses were realized, and the calculation generally continues to reflect such losses even after the issues or business activities giving rise to the losses have been remediated or reduced.

As required under the Basel III capital framework, the Firm's operational risk capital methodology, which uses the Advanced Measurement Approach ("AMA"), incorporates internal and external losses as well as management's view of tail risk captured through operational risk scenario analysis, and evaluation of key business environment and internal control metrics. The Firm does not reflect the impact of insurance in its AMA estimate of operational risk capital.



**Management’s discussion and analysis**

laws, rules and regulations. Through monitoring and testing, Operational Risk and Compliance independently identify areas of heightened operational risk and tests the effectiveness of controls within the LOBs and Corporate.

#### *Management of Operational Risk*

The operational risk areas or issues identified through monitoring and testing are escalated to the LOBs and Corporate to be remediated through action plans, as needed, to mitigate operational risk. Operational Risk and Compliance may advise the LOBs and Corporate in the development and implementation of action plans.

#### *Operational Risk Reporting*

All employees of the Firm are expected to escalate risks appropriately. Risks identified by Operational Risk and Compliance are escalated to the appropriate LOB and Corporate Control Committees, as needed. Operational Risk and Compliance has established standards designed to ensure that consistent operational risk reporting and operational risk reports are produced on a Firmwide basis as well as by the LOBs and Corporate. Reporting includes the evaluation of key risk and performance indicators against established thresholds as well as the assessment of different types of operational risk against stated risk appetite. The standards establish escalation protocols to senior management and to the Board of Directors.

#### **Insurance**

One of the ways in which operational risk may be mitigated is through insurance maintained by the Firm. The Firm purchases insurance from commercial insurers and maintains a wholly-owned captive insurer, Park Assurance Company. Insurance may also be required by third parties with whom the Firm does business.

#### **Subcategories and examples of operational risks**

Operational risk can manifest itself in various ways. Operational risk subcategories include Compliance risk, Conduct risk, Legal risk, and

#### *Firmwide resiliency risk*

Disruptions of the Firm's business and operations can occur due to forces beyond the Firm's control such as the spread of infectious diseases or pandemics, severe weather, natural disasters, the effects of climate change, power or telecommunications loss, failure of a third party to provide expected services, cyberattacks, civil or political unrest or terrorism. The Firm's resiliency framework is intended to enable the Firm to prepare for and adapt to changing conditions and withstand and recover from, and address adverse effects on its operations caused by, disruptions that may impact critical business functions and supporting assets, including its staff, technology, data and facilities, as well as those of third-party service providers. The framework includes governance, awareness training, planning and testing of recovery strategies, as well as strategic and tactical initiatives to identify, assess, and manage resiliency risks. The framework operates in accordance with the Firm's overall approach to Operational Risk Management, including alignment with technology, cybersecurity, data, physical security, crisis management, real estate and outsourcing programs.

#### *Payment fraud risk*

Payment fraud risk is the risk of external and internal parties unlawfully obtaining personal monetary benefit through misdirected or otherwise improper payment. The Firm employs various controls for managing payment fraud risk as well as providing employee and client education and awareness trainings.

#### *Third-party outsourcing risk*

The Firm's Third-Party Oversight ("TPO") and Inter-affiliates Oversight ("IAO") frameworks assist the LOBs and Corporate in selecting, documenting, onboarding, monitoring and managing their supplier relationships including services provided by affiliates. The objectives of the TPO framework are to hold suppliers and other third





### *Cybersecurity risk*

Cybersecurity risk is the risk of harm or loss resulting from misuse or abuse of technology or the unauthorized disclosure of data.

#### **Overview**

Cybersecurity risk is an important and continuously evolving focus for the Firm. Significant resources are devoted to protecting and enhancing the security of computer systems, software, networks, storage devices, and other technology. The Firm's security efforts are designed to protect against, among other things, cybersecurity attacks that can result in unauthorized access to confidential information, the destruction of data, disruptions to or degradations of service, the sabotaging of systems or other damage.

The Firm has experienced, and expects that it will continue to experience, a higher volume and complexity of cyber attacks against the backdrop of heightened geopolitical tensions. The Firm has implemented measures and controls reasonably designed to address this evolving environment, including enhanced threat monitoring. In addition, the Firm continues to review and enhance its capabilities to address associated risks, such as those relating to the management of administrative access to systems.

Third parties with which the Firm does business, that facilitate the Firm's business activities (e.g., vendors, supply chain, exchanges, clearing houses, central depositories, and financial intermediaries) or that the Firm has acquired are also sources of cybersecurity risk to the Firm. Third party incidents such as system breakdowns or failures, misconduct by the employees of such parties, or cyber attacks, including ransomware and supply-chain compromises, could have a material adverse effect on the Firm, including in circumstances in which an affected third party is unable to deliver a product or service to the Firm or where the incident delivers compromised

cybersecurity incident that could have a material adverse effect on the Firm or its business strategy, results of operations or financial condition.

#### **Organization and management**

The Global Chief Information Security Officer ("CISO") reports to the Global Chief Information Officer, and is a member of key cybersecurity governance forums. The CISO leads the Global Cybersecurity and Technology Controls organization, which is responsible for identifying technology and cybersecurity risks and for implementing and maintaining controls to manage cybersecurity threats. The CISO and the members of senior management within Global Technology and the Cybersecurity and Technology Controls organizations all have relevant expertise and experience in cybersecurity and information technology risk management, including relevant experience at the Firm, at other financial services companies or in other highly-regulated industries.

The CISO is responsible for the Firm's Information Security Program, which is designed to prevent, detect and respond to cyber attacks in order to help safeguard the confidentiality, integrity and availability of the Firm's infrastructure, resources and information. The program includes managing the Firm's global cybersecurity operations centers, providing training, conducting cybersecurity event simulation exercises, implementing the Firm's policies and standards relating to technology risk and cybersecurity management, and enhancing, as needed, the Firm's cybersecurity capabilities.

The Firm's Information Security Program includes the following functions:

*Cyber Operations*, which is responsible for implementing and maintaining controls designed to detect and defend the Firm against cyber attacks, and includes a dedicated function for incident





**Management’s discussion and analysis**

employees in specific roles, such as application developers. The Firm's Global Privacy Program requires all employees to take periodic training on data privacy that focuses on confidentiality and security, as well as responding to unauthorized access to or use of information.

*Technology Resiliency*, which establishes control requirements for planning and testing the prioritized recovery of technology services in the event of degradation or outage, including incident response planning, data backup and retention, and recovery readiness in support of the Firmwide Business Resiliency Program and operational risk management practices.

The Firm has a cybersecurity incident response plan designed to enable the Firm to respond to attempted cybersecurity incidents, coordinate as appropriate with law enforcement and other government agencies, notify clients and customers, as applicable, and recover from such incidents. In addition, the Firm actively partners with appropriate government and law enforcement agencies and peer industry forums, participating in discussions and simulations to assist in understanding the full spectrum of cybersecurity risks and in enhancing defenses and improving resiliency in the Firm's operating environment.

#### **Governance and oversight**

The governance structure for the Global Cybersecurity and Technology Controls organization is designed to appropriately identify, escalate and mitigate cybersecurity risks. Cybersecurity risk management and its governance and oversight are integrated into the Firm's operational risk management framework, including through the escalation of key risk and control issues to management and the development of risk mitigation plans for heightened risk and control issues. IRM independently assesses and challenges the activities and risk management practices of the Global Cybersecurity and Technology Controls organization related to the identification, assessment

The Cybersecurity and Technology Controls Operating Committee ("CTOC") is the principal management committee that oversees the Firm's assessment and management of cybersecurity risk, including oversight of the implementation and maintenance of appropriate controls in support of the Firm's Information Security Program. The membership of the CTOC includes senior representatives from the Global Cybersecurity and Technology Controls organization and relevant corporate functions, including IRM and Internal Audit.

The CTOC escalates key operational risk and control issues, as appropriate, to the Global Technology Operating Committee ("GTOC") or its business control committee or to the appropriate LOB and Corporate Control Committees. The GTOC is responsible for the governance of the Firmwide Global Technology organization, including oversight of Firmwide technology strategies, the delivery of technology and technology operations, the effective use of information technology resources, and monitoring and resolving key operational risk and control matters arising in the Global Technology organization.

As part of its oversight of management's implementation and maintenance of the Firm's risk management framework, the Firm's Board of Directors receives periodic updates from the CIO, the CISO and senior members of the CTOC concerning cybersecurity matters. These updates generally include information regarding cybersecurity and technology developments, the Firm's Information Security Program and recommended changes to that program, cybersecurity policies and practices, and ongoing initiatives to improve information security, as well as any significant cybersecurity incidents and the Firm's efforts to address those incidents. The Audit Committee and the Risk Committee assist the Board in this oversight.



## COMPLIANCE RISK MANAGEMENT

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Compliance risk, a subcategory of operational risk, is the risk of failing to comply with laws, rules, regulations or codes of conduct and standards of self-regulatory organizations.

### Overview

Each of the LOBs and Corporate hold primary ownership of and accountability for managing their compliance risk. The Firm's Operational Risk and Compliance Organization ("Operational Risk and Compliance"), which is independent of the LOBs and Corporate, provides independent review, monitoring and oversight of business operations with a focus on compliance with the laws, rules, and regulations applicable to the delivery of the Firm's products and services to clients and customers.

These compliance risks relate to a wide variety of laws, rules and regulations across the LOBs and Corporate, and jurisdictions, and include risks related to financial products and services, relationships and interactions with clients and customers, and employee activities. For example, compliance risks include those associated with anti-money laundering compliance, trading activities, market conduct, and complying with the laws, rules, and regulations related to the offering of products and services across jurisdictional borders. Compliance risk is also inherent in the Firm's fiduciary activities, including the failure to exercise the applicable standard of care to act in the best interest of fiduciary clients and customers or to treat fiduciary clients and customers fairly.

Other functions provide oversight of significant regulatory obligations that are specific to their respective areas of responsibility.

Operational Risk and Compliance implements policies and standards designed to govern, identify, measure, monitor and test, manage, and report on compliance risk.

### Governance and oversight

Operational Risk and Compliance is led by the Firm's Global CCO and FRE for Operational Risk and Qualitative Risk Appetite.

The Firm maintains oversight and coordination of its compliance risk through the CCOR Management Framework. The Firm's Global CCO and FRE for Operational Risk and Qualitative Risk Appetite also provides regular updates to the Board Risk Committee and the Audit Committee on significant compliance risk issues, as appropriate.

### Code of Conduct

The Firm has a Code of Conduct (the "Code") that sets forth the Firm's expectation that employees will conduct themselves with integrity, at all times. The Code provides the principles that help govern employee conduct with clients, customers, suppliers, vendors, shareholders, regulators, other employees, as well as with the markets and communities in which the Firm operates. The Code requires employees to promptly report any potential or actual violation of the Code, Firm policies, or laws, rules or regulations applicable to the Firm's business. It also requires employees to report any illegal or unethical conduct, or conduct that violates the underlying principles of the Code, by any of the Firm's employees, consultants, clients, customers, suppliers, contract or temporary workers, or business partners or agents. Training is assigned to newly hired employees after joining the Firm, and to current employees periodically thereafter. Employees are required to affirm their compliance with the Code annually.

Employees can report any potential or actual violations of the Code through the Firm's Conduct Hotline (the "Hotline") by phone, mobile device or the internet. The Hotline is anonymous, where permitted by law, is available at all times globally, has translation services, and is administered by an outside service provider. The Code prohibits retaliation against anyone who raises



## Management's discussion and analysis

### CONDUCT RISK MANAGEMENT

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Conduct risk, a subcategory of operational risk, is the risk that any action or misconduct by an employee could lead to unfair client or customer outcomes, impact the integrity of the markets in which the Firm operates, harm employees or the Firm, or compromise the Firm's reputation.

#### Overview

Each LOB and Corporate is accountable for identifying and managing its conduct risk to provide appropriate engagement, ownership and sustainability of a culture consistent with the Firm's Business Principles. The Business Principles serve as a guide for how employees are expected to conduct themselves. With the Business Principles serving as a guide, the Firm's Code sets out the Firm's expectations for each employee and provides information and resources to help employees conduct business ethically and in compliance with applicable laws, rules and regulations everywhere the Firm operates. Refer to Compliance Risk Management on page 157 for further discussion of the Code.

#### Governance and oversight

The Firm's oversight and coordination of conduct risk is managed in the same manner as Compliance risk. Refer to Compliance Risk Management on page 157 for further information.

Conduct risk management encompasses various aspects of people management practices throughout the employee life cycle, including recruiting, onboarding, training and development, performance management, promotion and compensation processes. Each LOB, Treasury and CIO, and each designated corporate function completes an assessment of conduct risk periodically, reviews metrics and issues which may involve conduct risk, and provides conduct education as appropriate.



## LEGAL RISK MANAGEMENT

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Legal risk, a subcategory of operational risk, is the risk of loss primarily caused by the actual or alleged failure to meet legal obligations that arise from the rule of law in jurisdictions in which the Firm operates, agreements with clients and customers, and products and services offered by the Firm.

### Overview

The global Legal function ("Legal") provides legal services and advice to the Firm. Legal is responsible for managing the Firm's exposure to legal risk by:

- managing actual and potential litigation and enforcement matters, including internal reviews and investigations related to such matters
- advising on products and services, including contract negotiation and documentation
- advising on offering and marketing documents and new business initiatives
- managing dispute resolution
- interpreting existing laws, rules and regulations, and advising on changes to them
- advising on advocacy in connection with contemplated and proposed laws, rules and regulations, and
- providing legal advice to the LOBs, Corporate and the Board.

Legal selects, engages and manages outside counsel for the Firm on all matters in which outside counsel is engaged. In addition, Legal advises the Firm's Conflicts Office which reviews the Firm's wholesale transactions that may have the potential to create conflicts of interest for the Firm.

### Governance and oversight

The Firm's General Counsel reports to the CEO and is a member of the Operating Committee, the Firmwide Risk Committee and the Firmwide Control Committee. The Firm's General Counsel and other members of Legal report on significant legal matters to the Firm's Board of Directors and to the Audit Committee.

Legal serves on and advises various committees and advises the Firm's LOBs and Corporate on potential reputation risk issues.

**Management’s discussion and analysis**

**ESTIMATIONS AND MODEL RISK MANAGEMENT**

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Estimations and Model risk, a subcategory of operational risk, is the potential for adverse consequences from decisions based on incorrect or misused estimation outputs.

The Firm uses models and other analytical and judgment-based estimations, including those based upon machine learning or artificial intelligence techniques, across various businesses and functions. The estimation methods are of varying levels of sophistication and are used for many purposes, such as the valuation of positions and measurement of risk, assessing regulatory capital requirements, conducting stress testing, evaluating the allowance for credit losses and making business decisions. A dedicated independent function, Model Risk Governance and Review ("MRGR"), defines and governs the Firm's policies relating to the management of model risk and risks associated with certain analytical and judgment-based estimations, such as those used in risk management, budget forecasting and capital planning and analysis.

Model risks are owned by the users of the models within the LOBs and Corporate based on the specific purposes of such models. Users and developers of models are responsible for developing, implementing and testing their models, as well as referring models to MRGR for review and approval. Once models have been approved, model users and developers are responsible for maintaining a robust operating environment, and must monitor and evaluate the performance of the models on an ongoing basis. Model users and developers may seek to enhance models in response to changes in the relevant portfolios and in product and market developments, as well as to capture improvements in available modeling techniques and systems capabilities.

Models are tiered based on an internal standard according to their complexity, the exposure associated with the model and the Firm's reliance on the model. This tiering is subject to the approval of MRGR. In its review of a model, MRGR considers whether the model is suitable for the specific purposes for which it will be used. When reviewing a model, MRGR analyzes and challenges the model methodology and the reasonableness of model assumptions, and may perform or require additional testing, including back-testing of model outcomes. Model reviews are approved by the appropriate level of management within MRGR based on the relevant model tier.

Under the Firm's Estimations and Model Risk Management Policy, MRGR reviews and approves new models, as well as material changes to existing models, prior to their use. In certain circumstances, exceptions may be granted to the Firm's policy to allow a model to be used prior to review or approval. MRGR may also require the user to take appropriate actions to mitigate the model risk if it is to be used in the interim. These actions will depend on the model and may include, for example, limitation of trading activity.

While models are inherently imprecise, the degree of imprecision or uncertainty can be heightened by the market or economic environment. This is particularly true when the current and forecasted environments are significantly different from the historical environments upon which the models were developed. This increased uncertainty may necessitate a greater degree of judgment and analytics to inform any adjustments that the Firm may make to model outputs than would otherwise be the case. In addition, the Firm may experience increased uncertainty in its estimates if assets acquired differ from those used to develop the models.

Refer to Critical Accounting Estimates Used by the Firm on pages 161, 164 and Note 2 for a summary of



## CRITICAL ACCOUNTING ESTIMATES USED BY THE FIRM

JPMorganChase's accounting policies and use of estimates are integral to understanding its reported results. The Firm's most complex accounting estimates require management's judgment to ascertain the appropriate carrying value of assets and liabilities. The Firm has established policies and control procedures intended to ensure that estimation methods, including any judgments made as part of such methods, are well-controlled, independently reviewed and applied consistently from period to period. The methods used and judgments made reflect, among other factors, the nature of the assets or liabilities and the related business and risk management strategies, which may vary across the Firm's businesses and portfolios. In addition, the policies and procedures are intended to ensure that the process for changing methodologies occurs in an appropriate manner. The Firm believes its estimates for determining the carrying value of its assets and liabilities are appropriate. The following is a brief description of the Firm's critical accounting estimates involving significant judgments.

#### **Allowance for credit losses**

The Firm's allowance for credit losses represents management's estimate of expected credit losses over the remaining expected life of the Firm's financial assets measured at amortized cost and certain off-balance sheet lending-related commitments. The allowance for credit losses generally comprises:

- The allowance for loan losses, which covers the Firm's retained loan portfolios (scored and risk-rated),
- The allowance for lending-related commitments, and
- The allowance for credit losses on investment securities.

The allowance for credit losses involves significant judgment on a number of matters including development and weighting of macroeconomic forecasts, incorporation of historical loss experience, assessment of risk

losses being driven primarily by a subset of less than twenty variables. The specific variables that have the greatest effect on the modeled losses vary by portfolio and geography.

- Key MEVs for the consumer portfolio include regional U.S. unemployment rates and U.S. HPI.
- Key MEVs for the wholesale portfolio include U.S. unemployment, U.S. real GDP, U.S. equity prices, U.S. interest rates, U.S. corporate credit spreads, oil prices, U.S. commercial real estate prices and U.S. HPI.

Changes in the Firm's assumptions and forecasts of economic conditions could significantly affect its estimate of expected credit losses in the portfolio at the balance sheet date or lead to significant changes in the estimate from one reporting period to the next.

As a result of the First Republic acquisition, the Firm recorded an allowance for credit losses for the loans acquired and lending-related commitments assumed as of May 1, 2023. Due to differences in risk rating methodologies for the First Republic portfolio and the ongoing integration of products and systems, the allowance for credit losses for the acquired wholesale portfolio was initially measured based on similar risk characteristics from other facilities underwritten by the Firm. Starting in the second quarter of 2024, the acquired portfolio was incorporated into the Firm's modeled credit loss estimates and is now reflected in the wholesale sensitivity analysis below. Refer to Note 34 for additional information on the First Republic acquisition.

It is difficult to estimate how potential changes in any one factor or input might affect the overall allowance for credit losses because management considers a wide variety of factors and inputs in estimating the allowance for credit losses. Changes in the factors and inputs considered may not occur at the same rate and may not be consistent across all geographies or product types, and



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unemployment rate, averaging approximately 2.1% higher over the eight-quarter forecast, with a peak difference of approximately 3.0% in the fourth quarter of 2025.

This analysis is not intended to estimate expected future changes in the allowance for credit losses, for a number of reasons, including:

- The allowance as of December 31, 2024, reflects credit losses beyond those estimated under the central scenario due to the weight placed on the adverse scenarios.
- The impacts of changes in many MEVs are both interrelated and nonlinear, so the results of this analysis cannot be simply extrapolated for more severe changes in macroeconomic variables.
- Expectations of future changes in portfolio composition and borrower behavior can significantly affect the allowance for credit losses.

To demonstrate the sensitivity of credit loss estimates to macroeconomic forecasts as of December 31, 2024, the Firm compared the modeled estimates under its relative adverse scenario to its central scenario. Without considering offsetting or correlated effects in other qualitative components of the Firm's allowance for credit losses, the comparison between these two scenarios for the exposures below reflect the following differences:

- An increase of approximately \$850 million for residential real estate loans and lending-related commitments
- An increase of approximately \$3.7 billion for credit card loans
- An increase of approximately \$4.1 billion for wholesale loans and lending-related commitments

This analysis relates only to the modeled credit loss estimates and is not intended to estimate changes in the overall allowance for credit losses as it does not reflect any potential changes in other adjustments to the quantitative calculation, which would also be influenced by the judgment management applies to the modeled lifetime loss

## Fair value

JPMorganChase carries a portion of its assets and liabilities at fair value. The majority of such assets and liabilities are measured at fair value on a recurring basis, including derivatives, structured note products and certain securities financing agreements. Certain assets and liabilities are measured at fair value on a nonrecurring basis, including certain mortgage, home equity and other loans, where the carrying value is based on the fair value of the underlying collateral.

### Assets measured at fair value

The following table includes the Firm's assets measured at fair value and the portion of such assets that are classified within level 3 of the fair value hierarchy. Refer to Note 2 for further information.

December 31, 2024 (in millions, except ratios)	Total assets at fair value	Total level 3 assets
Federal funds sold and securities purchased under resale agreements	\$ 286,771	\$ —
Securities borrowed	83,962	—
Trading assets:		
Trading-debt and equity instruments	576,817	2,442
Derivative receivables <sup>(a)</sup>	60,967	8,452
<b>Total trading assets</b>	<b>637,784</b>	<b>10,894</b>
AFS securities	406,852	8
Loans	41,350	2,416
MSRs	9,121	9,121
Other	14,073	1,344
<b>Total assets measured at fair value on a recurring basis</b>	<b>1,479,913</b>	<b>23,783</b>
Total assets measured at fair value on a nonrecurring basis	2,489	1,742
<b>Total assets measured at fair value</b>	<b>\$1,482,402</b>	<b>\$ 25,525</b>
<b>Total Firm assets</b>	<b>\$4,002,814</b>	

Level 3 assets at fair value as a percentage of total Firm assets<sup>(a)</sup>





### **Valuation**

Details of the Firm's processes for determining fair value are set out in Note 2. Estimating fair value requires the application of judgment. The type and level of judgment required is largely dependent on the amount of observable market information available to the Firm. For instruments valued using internally developed valuation models and other valuation techniques that use significant unobservable inputs and are therefore classified within level 3 of the fair value hierarchy, judgments used to estimate fair value are more significant than those required when estimating the fair value of instruments classified within levels 1 and 2.

In arriving at an estimate of fair value for an instrument within level 3, management must first determine the appropriate valuation model or other valuation technique to use. Second, the lack of observability of certain significant inputs requires management to assess relevant empirical data in deriving valuation inputs including, for example, transaction details, yield curves, interest rates, prepayment speeds, default rates, volatilities, correlations, prices (such as commodity, equity or debt prices), valuations of comparable instruments, foreign exchange rates and credit curves. Refer to Note 2 for a further discussion of the valuation of level 3 instruments, including unobservable inputs used.

For instruments classified in levels 2 and 3, management judgment must be applied to assess the appropriate level of valuation adjustments to reflect counterparty credit quality, the Firm's creditworthiness, market funding rates, liquidity considerations, unobservable parameters, and for portfolios that meet specified criteria, the size of the net open risk position. The judgments made are typically affected by the type of product and its specific contractual terms, and the level of liquidity for the product or within the market as a whole. In

hierarchy, and its determination of fair value for individual financial instruments.

### **Goodwill impairment**

Under U.S. GAAP, goodwill must be allocated to reporting units and tested for impairment at least annually. The Firm's process and methodology used to conduct goodwill impairment testing is described in Note 15.

Management applies significant judgment when testing goodwill for impairment. The goodwill associated with each business combination is allocated to the related reporting units for goodwill impairment testing.

For the year ended December 31, 2024, the Firm reviewed current economic conditions, estimated market cost of equity, as well as actual business results and projections of business performance. Based on such reviews, the Firm has concluded that goodwill was not impaired as of December 31, 2024. For each of the reporting units, fair value exceeded carrying value by at least 10% and there was no indication of a significant risk of goodwill impairment based on current projections and valuations.

The projections for the Firm's reporting units are consistent with management's current business outlook assumptions in the short term, and the Firm's best estimates of long-term growth and return on equity in the longer term. Where possible, the Firm uses third-party and peer data to benchmark its assumptions and estimates.

Refer to Note 15 for additional information on goodwill, including the goodwill impairment assessment as of December 31, 2024.

### **Credit card rewards liability**

JPMorganChase offers credit cards with various rewards programs which allow cardholders to earn rewards points based on their account activity and the terms and conditions of the rewards program. Generally, there are no limits on the points that an eligible cardholder can earn, nor do the points expire, and the



**Management’s discussion and analysis**

assumption is used to estimate the number of points earned by customers that will be redeemed over the life of the account. The CPP assumption is used to estimate the cost of future point redemptions. These assumptions are evaluated periodically considering historical actuals, cardholder redemption behavior and management judgment. Updates to these assumptions will impact the rewards liability. As of December 31, 2024, a combined increase of 25 basis points in RR and 1 basis point in CPP would increase the rewards liability by approximately \$442 million.

### **Income taxes**

JPMorganChase is subject to the income tax laws of the various jurisdictions in which it operates, including U.S. federal, state and local, and non-U.S. jurisdictions. These laws are often complex and may be subject to different interpretations. To determine the financial statement impact of accounting for income taxes, including the provision for income tax expense and unrecognized tax benefits, JPMorganChase must make assumptions and judgments about how to interpret and apply these complex tax laws to numerous transactions and business events, as well as make judgments regarding the timing of when certain items may affect taxable income in the U.S. and non-U.S. tax jurisdictions.

JPMorganChase's interpretations of tax laws around the world are subject to review and examination by the various taxing authorities in the jurisdictions where the Firm operates, and disputes may occur regarding its view on a tax position. These disputes over interpretations with the various taxing authorities may be settled by audit, administrative appeals or adjudication in the court systems of the tax jurisdictions in which the Firm operates. JPMorganChase regularly reviews whether it may be assessed additional income taxes as a result of the resolution of these matters, and the Firm records additional unrecognized tax benefits,

credit ("FTC") carryforwards. The Firm performs regular reviews to ascertain whether its deferred tax assets are realizable. These reviews include management's estimates and assumptions regarding future taxable income, including foreign source income, and may incorporate various tax planning strategies, including strategies that may be available to utilize NOLs and FTCs before they expire. In connection with these reviews, if it is determined that a deferred tax asset is not realizable, a valuation allowance is established. The valuation allowance may be reversed in a subsequent reporting period if the Firm determines that, based on revised estimates of future taxable income or changes in tax planning strategies, it is more likely than not that all or part of the deferred tax asset will become realizable. As of December 31, 2024, management has determined it is more likely than not that the Firm will realize its deferred tax assets, net of the existing valuation allowance.

The Firm adjusts its unrecognized tax benefits as necessary when new information becomes available, including changes in tax law and regulations, and interactions with taxing authorities. Uncertain tax positions that meet the more-likely-than-not recognition threshold are measured to determine the amount of benefit to recognize. An uncertain tax position is measured at the largest amount of benefit that management believes is more likely than not to be realized upon settlement. It is possible that the reassessment of JPMorganChase's unrecognized tax benefits may have a material impact on its effective income tax rate in the period in which the reassessment occurs. Although the Firm believes that its estimates are reasonable, the final tax amount could be different from the amounts reflected in the Firm's income tax provisions and accruals. To the extent that the final outcome of these amounts is different than the amounts recorded, such differences will generally impact the





## ACCOUNTING AND REPORTING DEVELOPMENTS

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**Financial Accounting Standards Board ("FASB") Standards Adopted since January 1, 2024**

Standard	Summary of guidance	Effects on financial statements
<p>Fair Value Measurement: Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions</p> <p><i>Issued June 2022</i></p>	<ul style="list-style-type: none"> <li>Clarifies that a contractual sale restriction is not considered part of the unit of account of the equity security and, therefore, is not considered in measuring fair value.</li> <li>Requires disclosure for investments in equity securities subject to contractual sale restrictions, including: 1) fair value of these investments, 2) nature and remaining duration of the restriction(s) and 3) circumstances that could cause a lapse in the restriction(s).</li> </ul>	<ul style="list-style-type: none"> <li>Adopted prospectively on January 1, 2024, with no impact to the Firm's Consolidated Financial Statements.</li> </ul>
<p>Investments - Equity Method and Joint Ventures: Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method</p> <p><i>Issued March 2023</i></p>	<ul style="list-style-type: none"> <li>Expands the ability to elect proportional amortization on a program-by-program basis, for additional types of tax-oriented investments (beyond affordable housing tax credit investments).</li> <li>May be adopted using a full retrospective method, or a modified retrospective method wherein the effect of adoption is reflected as an adjustment to retained earnings at the effective date.</li> </ul>	<ul style="list-style-type: none"> <li>Adopted under the modified retrospective method on January 1, 2024.</li> <li>Refer to Note 1 for further information.</li> </ul>
<p>Segment Reporting: Improvements to Reportable Segment Disclosures</p> <p><i>Issued November 2023</i></p>	<ul style="list-style-type: none"> <li>Requires disclosure of significant segment expenses that are readily provided to the chief operating decision maker ("CODM") and included in segment profit or loss.</li> <li>Requires disclosure of the composition and aggregate amount of other segment items, which represent the difference between profit or loss and segment revenues less significant segment expenses.</li> <li>Requires disclosure of the title and position of the CODM and an explanation of how the CODM uses the reported segment measures in assessing segment</li> </ul>	<ul style="list-style-type: none"> <li>Adopted retrospectively for the Firm's annual Consolidated Financial Statements for the year ended December 31, 2024.<sup>(a)</sup></li> <li>The adoption of this guidance resulted in additional reportable segment disclosures, primarily relating to significant segment expenses and the CODM. Refer to Note 32 for further information.</li> </ul>

(a) The accounting standards update applies to the Firm's annual Consolidated Financial Statements for the year ended December 31, 2024, and interim financial statements thereafter.

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## Management's discussion and analysis

### FASB Standards Issued but not yet Adopted as of December 31, 2024

Standard	Summary of guidance	Effects on financial statements
<p>Income Taxes: Improvements to Income Tax Disclosures</p> <p><i>Issued December 2023</i></p>	<ul style="list-style-type: none"> <li>Requires disclosure of income taxes paid disaggregated by 1) federal, state, and foreign taxes and 2) individual jurisdiction on the basis of a quantitative threshold of equal to or greater than 5 percent of total income taxes paid (net of refunds received).</li> <li>Requires disclosure of the effective tax rate reconciliation by specific categories, at a minimum, with accompanying qualitative disclosures, and separate disclosure of reconciling items based on quantitative thresholds.</li> <li>Requires categories within the effective tax rate reconciliation to be further disaggregated if quantitative thresholds are met.</li> </ul>	<ul style="list-style-type: none"> <li>Required effective date: Annual financial statements for the year ending December 31, 2025.</li> <li>The guidance can be applied on a prospective basis with the option to apply the standard retrospectively.</li> <li>The Firm is evaluating the potential impact on the Consolidated Financial Statements disclosures.</li> </ul>
<p>Income Statement - Reporting Comprehensive Income - Expense Disaggregation Disclosures: Disaggregation of Income Statement Expenses</p> <p><i>Issued November 2024</i></p>	<ul style="list-style-type: none"> <li>Requires additional annual and interim disclosures about specific types of expenses presented in the Consolidated statements of income.</li> </ul>	<ul style="list-style-type: none"> <li>Required effective date: Annual financial statements for the year ending December 31, 2027, and interim financial statements for the year ending December 31, 2028. (a)</li> <li>The guidance can be applied on a prospective basis with the option to apply the standard retrospectively.</li> <li>The Firm is evaluating the potential impact on the Consolidated Financial Statements disclosures, as well as the Firm's planned date of adoption.</li> </ul>

(a) Early adoption is permitted.



## FORWARD-LOOKING STATEMENTS

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From time to time, the Firm has made and will make forward-looking statements. These statements can be identified by the fact that they do not relate strictly to historical or current facts. Forward-looking statements often use words such as "anticipate," "target," "expect," "estimate," "intend," "plan," "goal," "believe," or other words of similar meaning. Forward-looking statements provide JPMorganChase's current expectations or forecasts of future events, circumstances, results or aspirations. JPMorganChase's disclosures in this 2024 Form 10-K contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. The Firm also may make forward-looking statements in its other documents filed or furnished with the SEC. In addition, the Firm's senior management may make forward-looking statements orally to investors, analysts, representatives of the media and others.

All forward-looking statements are, by their nature, subject to risks and uncertainties, many of which are beyond the Firm's control.

JPMorganChase's actual future results may differ materially from those set forth in its forward-looking statements. While there is no assurance that any list of risks and uncertainties or risk factors is complete, below are certain factors which could cause actual results to differ from those in the forward-looking statements:

- Local, regional and global business, economic and political conditions and geopolitical events, including geopolitical tensions and hostilities;
- Changes in laws, rules and regulatory requirements, including capital and liquidity requirements affecting the Firm's businesses, and the ability of the Firm to address those requirements;
- Heightened regulatory and governmental oversight and scrutiny of JPMorganChase's business practices, including dealings with retail customers;

including, but not limited to, in the interest rate environment;

- Technology changes instituted by the Firm, its counterparties or competitors;
- The effectiveness of the Firm's control agenda;
- Ability of the Firm to develop or discontinue products and services, and the extent to which products or services previously sold by the Firm require the Firm to incur liabilities or absorb losses not contemplated at their initiation or origination;
- Acceptance of the Firm's new and existing products and services by the marketplace and the ability of the Firm to innovate and to increase market share;
- Ability of the Firm to attract and retain qualified employees;
- Ability of the Firm to control expenses;
- Competitive pressures;
- Changes in the credit quality of the Firm's clients, customers and counterparties;
- Adequacy of the Firm's risk management framework, disclosure controls and procedures and internal control over financial reporting;
- Adverse judicial or regulatory proceedings;
- Ability of the Firm to determine accurate values of certain assets and liabilities;
- Occurrence of natural or man-made disasters or calamities, including health emergencies, the spread of infectious diseases, epidemics or pandemics, an outbreak or escalation of hostilities or other geopolitical instabilities, the effects of climate change or extraordinary events beyond the Firm's control, and the Firm's ability to deal effectively with disruptions caused by the foregoing;
- Ability of the Firm to maintain the security of its financial, accounting, technology, data processing and other operational systems and facilities;
- Ability of the Firm to withstand disruptions that may be caused by





## **Management's report on internal control over financial reporting**

Management of JPMorgan Chase & Co. ("JPMorganChase" or the "Firm") is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is a process designed by, or under the supervision of, the Firm's principal executive and principal financial officers, or persons performing similar functions, and effected by JPMorganChase's Board of Directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP").

JPMorganChase's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records, that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the Firm's assets; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. GAAP, and that receipts and expenditures of the Firm are being made only in accordance with authorizations of JPMorganChase's management and directors; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Firm's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate. Management has completed an assessment of the effectiveness of

Based upon the assessment performed, management concluded that as of December 31, 2024, JPMorganChase's internal control over financial reporting was effective based upon the COSO 2013 framework. Additionally, based upon management's assessment, the Firm determined that there were no material weaknesses in its internal control over financial reporting as of December 31, 2024.

The effectiveness of the Firm's internal control over financial reporting as of December 31, 2024, has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which appears herein.

Jamie Dimon Signature.jpg

James Dimon  
Chairman and Chief Executive Officer

Jeremy's eSignature.jpg

Jeremy Barnum  
Executive Vice President and Chief Financial Officer

February 14, 2025



**Report of Independent Registered Public Accounting Firm**

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**To the Board of Directors and Shareholders of JPMorgan Chase & Co.:**

***Opinions on the Financial Statements and Internal Control over Financial Reporting***

We have audited the accompanying consolidated balance sheets of JPMorgan Chase & Co. and its subsidiaries (the "Firm") as of December 31, 2024 and 2023, and the related consolidated statements of income, comprehensive income, changes in stockholders' equity and cash flows for each of the three years in the period ended December 31, 2024, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Firm's internal control over financial reporting as of December 31, 2024, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Firm as of December 31, 2024 and 2023, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2024 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Firm maintained, in all material respects, effective internal control over financial reporting as of December 31, 2024, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the COSO.

***Basis for Opinions***

The Firm's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's report on internal control over financial reporting. Our responsibility is to

statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

***Definition and Limitations of Internal Control over Financial Reporting***

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in



**Report of Independent Registered Public Accounting Firm**

### **Critical Audit Matters**

The critical audit matters communicated below are matters arising from the current period audit of the consolidated financial statements that were communicated or required to be communicated to the audit committee and that (i) relate to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

#### *Allowance for Loan Losses - Portfolio-based component of Wholesale Loan and Credit Card Loan Portfolios*

As described in Note 13 to the consolidated financial statements, the allowance for loan losses for the portfolio-based component of the wholesale and credit card loan portfolios was \$22.0 billion on total portfolio-based retained loans of \$919.3 billion at December 31, 2024. The Firm's allowance for loan losses represents management's estimate of expected credit losses over the remaining expected life of the Firm's loan portfolios and considers expected future changes in macroeconomic conditions. The portfolio-based component of the Firm's allowance for loan losses for the wholesale and credit card retained loan portfolios begins with a quantitative calculation of expected credit losses over the expected life of the loan by applying credit loss factors to the estimated exposure at default. The credit loss factors applied are determined based on the weighted average of five internally developed macroeconomic scenarios that take into consideration the Firm's economic outlook as derived through forecast

judgment and estimation by management in determining the quantitative calculation utilized in their credit loss estimates and the adjustments to take into consideration model imprecision, emerging risk assessments, trends and other subjective factors that are not yet otherwise reflected in the credit loss estimate, which in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures and in evaluating audit evidence obtained relating to the credit loss estimates and the appropriateness of the adjustments to the credit loss estimates, and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the Firm's allowance for loan losses, including controls over model validation and generation of macroeconomic scenarios. These procedures also included, among others, testing management's process for estimating the allowance for loan losses, which involved (i) evaluating the appropriateness of the models and methodologies used in quantitative calculations; (ii) evaluating the reasonableness of forecasts of U.S. unemployment and U.S. real gross domestic product; (iii) testing the completeness and accuracy of data used in the estimate; and (iv) evaluating the reasonableness of management's adjustments to the quantitative output for the impacts of model imprecision, emerging risk assessments, trends and other subjective factors that are not yet otherwise reflected in the credit loss estimate. These procedures also included the use of professionals with specialized skill and knowledge to assist in evaluating the appropriateness of certain models, methodologies and macroeconomic variables.





**Report of Independent Registered Public Accounting Firm**

equity prices, equity-to-foreign exchange and equity-to-interest rate.

The principal considerations for our determination that performing procedures relating to the fair value of certain level 3 financial instruments is a critical audit matter are (i) the significant judgment and estimation by management in determining the inputs to estimate fair value, which in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures and in evaluating audit evidence obtained related to the fair value of these financial instruments, and (ii) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the Firm's determination of the fair value, including controls over models, inputs, and data. These procedures also included, among others, the involvement of professionals with specialized skill and knowledge to assist in developing an independent estimate of fair value for a sample of these financial instruments and comparing management's estimate to the independently developed estimate of fair value. Developing the independent estimate involved testing the completeness and accuracy of data provided by management, developing independent inputs and, as appropriate, evaluating and utilizing management's aforementioned unobservable inputs.

Dan's 2024 Signature - 10K.jpg

New York, New York

February 14, 2025

We have served as the Firm's auditor since 1965.



**JPMorgan Chase & Co.**  
**Consolidated statements of income**

Year ended December 31, (in millions, except per share data)	2024	2023	2022
<b>Revenue</b>			
Investment banking fees	\$ 8,910	\$ 6,519	\$ 6,686
Principal transactions	24,787	24,460	19,912
Lending- and deposit-related fees	7,606	7,413	7,098
Asset management fees	17,801	15,220	14,096
Commissions and other fees	7,530	6,836	6,581
Investment securities losses	(1,021)	(3,180)	(2,380)
Mortgage fees and related income	1,401	1,176	1,250
Card income	5,497	4,784	4,420
Other income	12,462	5,609	4,322
<b>Noninterest revenue</b>	<b>84,973</b>	<b>68,837</b>	<b>61,985</b>
Interest income	193,933	170,588	92,807
Interest expense	101,350	81,321	26,097
<b>Net interest income</b>	<b>92,583</b>	<b>89,267</b>	<b>66,710</b>
<b>Total net revenue</b>	<b>177,556</b>	<b>158,104</b>	<b>128,695</b>
Provision for credit losses	10,678	9,320	6,389
<b>Noninterest expense</b>			
Compensation expense	51,357	46,465	41,636
Occupancy expense	5,026	4,590	4,696
Technology, communications and equipment expense	9,831	9,246	9,358
Professional and outside services	11,057	10,235	10,174
Marketing	4,974	4,591	3,911
Other expense	9,552	12,045	6,365
<b>Total noninterest expense</b>	<b>91,797</b>	<b>87,172</b>	<b>76,140</b>
<b>Income before income tax expense</b>	<b>75,081</b>	<b>61,612</b>	<b>46,166</b>
Income tax expense	16,610	12,060	8,490
<b>Net income</b>	<b>\$ 58,471</b>	<b>\$ 49,552</b>	<b>\$ 37,676</b>
<b>Net income applicable to common stockholders</b>	<b>\$ 56,868</b>	<b>\$ 47,760</b>	<b>\$ 35,892</b>
<b>Net income per common share data</b>			
Basic earnings per share	\$ 19.79	\$ 16.25	\$ 12.10
Diluted earnings per share	19.75	16.23	12.09
<b>Weighted-average basic shares</b>	<b>2,873.9</b>	<b>2,938.6</b>	<b>2,965.8</b>
<b>Weighted-average diluted shares</b>	<b>2,879.0</b>	<b>2,943.1</b>	<b>2,970.0</b>

The Notes to Consolidated Financial Statements are an integral part of these statements.



**JPMorgan Chase & Co.**  
**Consolidated statements of comprehensive income**

Year ended December 31, (in millions)	2024	2023	2022
<b>Net income</b>	<b>\$ 58,471</b>	<b>\$ 49,552</b>	<b>\$ 37,676</b>
<b>Other comprehensive income/(loss), after-tax</b>			
Unrealized gains/(losses) on investment securities	(87)	5,381	(11,764)
Translation adjustments, net of hedges	(858)	329	(611)
Fair value hedges	(87)	(101)	98
Cash flow hedges	(882)	1,724	(5,360)
Defined benefit pension and OPEB plans	(63)	373	(1,241)
DVA on fair value option elected liabilities	(36)	(808)	1,621
<b>Total other comprehensive income/(loss), after-tax</b>	<b>(2,013)</b>	<b>6,898</b>	<b>(17,257)</b>
<b>Comprehensive income</b>	<b>\$ 56,458</b>	<b>\$ 56,450</b>	<b>\$ 20,419</b>

The Notes to Consolidated Financial Statements are an integral part of these statements.

**JPMorgan Chase & Co.**  
**Consolidated balance sheets**



December 31, (in millions, except share data)	2024	2023
<b>Assets</b>		
Cash and due from banks	\$ 23,372	\$ 29,066
Deposits with banks	445,945	595,085
Federal funds sold and securities purchased under resale agreements (included \$286,771 and \$259,813 at fair value)	295,001	276,152
Securities borrowed (included \$83,962 and \$70,086 at fair value)	219,546	200,436
Trading assets (included assets pledged of \$136,070 and \$128,994)	637,784	540,607
Available-for-sale securities (amortized cost of \$411,045 and \$205,456; included assets pledged of \$10,162 and \$9,219)	406,852	201,704
Held-to-maturity securities	274,468	369,848
Investment securities, net of allowance for credit losses	681,320	571,552
Loans (included \$41,350 and \$38,851 at fair value)	1,347,988	1,323,706
Allowance for loan losses	(24,345)	(22,420)
Loans, net of allowance for loan losses	1,323,643	1,301,286
Accrued interest and accounts receivable	101,223	107,363
Premises and equipment	32,223	30,157
Goodwill, MSRs and other intangible assets	64,560	64,381
Other assets (included \$15,122 and \$12,306 at fair value and assets pledged of \$6,288 and \$6,764)	178,197	159,308
<b>Total assets<sup>(a)</sup></b>	<b>\$4,002,814</b>	<b>\$3,875,393</b>
<b>Liabilities</b>		
Deposits (included \$33,768 and \$78,384 at fair value)	\$2,406,032	\$2,400,688
Federal funds purchased and securities loaned or sold under repurchase agreements (included \$226,329 and \$169,003 at fair value)	296,835	216,535
Short-term borrowings (included \$26,521 and \$20,042 at fair value)	52,893	44,712
Trading liabilities	192,883	180,428
Accounts payable and other liabilities (included \$5,893 and \$5,637 at fair value)	280,672	290,307
Beneficial interests issued by consolidated VIEs (included \$1 and \$1 at fair value)	27,323	23,020
Long-term debt (included \$100,780 and \$87,924 at fair value)	401,418	391,825
<b>Total liabilities<sup>(a)</sup></b>	<b>3,658,056</b>	<b>3,547,515</b>
Commitments and contingencies (refer to Notes 28, 29 and 30)		
<b>Stockholders' equity</b>		
Preferred stock (\$1 par value; authorized 200,000,000 shares: issued 2,005,375 and 2,740,375 shares)	20,050	27,404
Common stock (\$1 par value; authorized 9,000,000,000 shares; issued 4,104,933,895 shares)	4,105	4,105
Additional paid-in capital	90,911	90,128
Retained earnings	376,166	332,901
Accumulated other comprehensive losses	(12,456)	(10,443)
Treasury stock, at cost (1,307,313,494 and 1,228,275,301 shares)	(134,018)	(116,217)
<b>Total stockholders' equity</b>	<b>344,758</b>	<b>327,878</b>
<b>Total liabilities and stockholders' equity</b>	<b>\$4,002,814</b>	<b>\$3,875,393</b>

(a) The following table presents information on assets and liabilities related to VIEs that are consolidated by the Firm at December 31, 2024 and 2023. The assets of the consolidated VIEs are used to settle the liabilities of those entities. The holders of the beneficial interests do not have recourse to the general credit of JPMorganChase. The assets and liabilities in the table below include third-party assets and liabilities of consolidated VIEs and exclude intercompany balances that eliminate in consolidation. Refer to Note 14 for a further discussion.

December 31, (in millions)	2024	2023
<b>Assets</b>		
Trading assets	\$ 3,885	\$ 2,170
Loans	36,510	37,611
All other assets	681	591
<b>Total assets</b>	<b>\$ 41,076</b>	<b>\$ 40,372</b>
<b>Liabilities</b>		
Beneficial interests issued by consolidated VIEs	\$ 27,323	\$ 23,020
All other liabilities	454	263
<b>Total liabilities</b>	<b>\$ 27,777</b>	<b>\$ 23,283</b>

The Notes to Consolidated Financial Statements are an integral part of these statements.

**JPMorgan Chase & Co.**
**Consolidated statements of changes in stockholders' equity**

Year ended December 31, (in millions, except per share data)	2024	2023	2022
<b>Preferred stock</b>			
Balance at January 1	\$ 27,404	\$ 27,404	\$ 34,838
Issuance	2,496	—	—
Redemption	(9,850)	—	(7,434)
<b>Balance at December 31</b>	<b>20,050</b>	<b>27,404</b>	<b>27,404</b>
<b>Common stock</b>			
Balance at January 1 and December 31	4,105	4,105	4,105
<b>Additional paid-in capital</b>			
Balance at January 1	90,128	89,044	88,415
Shares issued and commitments to issue common stock for employee share-based compensation awards, and related tax effects	768	1,084	629
Other	15	—	—
<b>Balance at December 31</b>	<b>90,911</b>	<b>90,128</b>	<b>89,044</b>
<b>Retained earnings</b>			
Balance at January 1	332,901	296,456	272,268
Cumulative effect of change in accounting principles	(161)	449	—
Net income	58,471	49,552	37,676
Preferred stock dividends	(1,259)	(1,501)	(1,595)
Common stock dividends (\$4.80, \$4.10 and \$4.00 per share for 2024, 2023 and 2022, respectively)	(13,786)	(12,055)	(11,893)
<b>Balance at December 31</b>	<b>376,166</b>	<b>332,901</b>	<b>296,456</b>
<b>Accumulated other comprehensive income/(loss)</b>			
Balance at January 1	(10,443)	(17,341)	(84)
Other comprehensive income/(loss), after-tax	(2,013)	6,898	(17,257)
<b>Balance at December 31</b>	<b>(12,456)</b>	<b>(10,443)</b>	<b>(17,341)</b>
<b>Treasury stock, at cost</b>			
Balance at January 1	(116,217)	(107,336)	(105,415)
Repurchase	(19,007)	(9,980)	(3,122)
Reissuance	1,206	1,099	1,201
<b>Balance at December 31</b>	<b>(134,018)</b>	<b>(116,217)</b>	<b>(107,336)</b>
<b>Total stockholders' equity</b>	<b>\$344,758</b>	<b>\$327,878</b>	<b>\$292,332</b>

Effective January 1, 2024, the Firm adopted the Equity Method and Joint Ventures: Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method accounting guidance. Effective January 1, 2023, the Firm adopted the Financial Instruments – Credit Losses: Troubled Debt Restructurings, and Derivatives and Hedging: Fair Value Hedging – Portfolio Layer Method accounting guidance. Refer to Note 1 for further information.

The Notes to Consolidated Financial Statements are an integral part of these statements.



**JPMorgan Chase & Co.**  
**Consolidated statements of cash flows**

Year ended December 31, (in millions)	2024	2023	2022
<b>Operating activities</b>			
Net income	\$ 58,471	\$ 49,552	\$ 37,676
Adjustments to reconcile net income to net cash provided by operating activities:			
Provision for credit losses	10,678	9,320	6,389
Depreciation and amortization	7,938	7,512	7,051
Deferred tax (benefit)/expense	2,004	(4,534)	(2,738)
Estimated bargain purchase gain associated with the First Republic acquisition	(103)	(2,775)	—
Initial gain on the Visa share exchange	(7,990)	—	—
Other	1,985	4,301	5,174
Originations and purchases of loans held-for-sale	(212,238)	(115,245)	(149,167)
Proceeds from sales, securitizations and paydowns of loans held-for-sale	205,303	116,430	167,709
Net change in:			
Trading assets	(95,729)	(74,091)	(31,449)
Securities borrowed	(18,762)	(14,902)	20,203
Accrued interest and accounts receivable	5,735	19,928	(22,970)
Other assets	(7,650)	32,970	(2,882)
Trading liabilities	2,276	5,315	11,170
Accounts payable and other liabilities	(90)	(25,388)	58,614
Other operating adjustments	6,160	4,581	2,339
<b>Net cash (used in)/provided by operating activities</b>	<b>(42,012)</b>	<b>12,974</b>	<b>107,119</b>
<b>Investing activities</b>			
Net change in:			
Federal funds sold and securities purchased under resale agreements	(18,706)	39,740	(54,278)
Held-to-maturity securities:			
Proceeds from paydowns and maturities	99,363	53,056	48,626
Purchases	(4,709)	(4,141)	(33,676)
Available-for-sale securities:			
Proceeds from paydowns and maturities	38,499	53,744	39,159
Proceeds from sales	104,625	108,434	84,616
Purchases	(352,712)	(115,499)	(126,258)
Proceeds from sales and securitizations of loans held-for-investment	57,921	47,312	44,892
Other changes in loans, net	(83,176)	(88,343)	(128,968)
Net cash used in First Republic Acquisition	(2,362)	(9,920)	—
All other investing activities, net	(2,146)	(16,740)	(11,932)
<b>Net cash (used in)/provided by investing activities</b>	<b>(163,403)</b>	<b>67,643</b>	<b>(137,819)</b>
<b>Financing activities</b>			
Net change in:			
Deposits	3,299	(32,196)	(136,895)
Federal funds purchased and securities loaned or sold under repurchase agreements	80,288	13,801	8,455
Short-term borrowings	7,439	(1,934)	(8,984)
Beneficial interests issued by consolidated VIEs	1,543	9,029	2,205
Proceeds from long-term borrowings	109,915	75,417	78,442
Payments of long-term borrowings	(96,605)	(64,880)	(45,556)

The Notes to Consolidated Financial Statements are an integral part of these statements.

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## **Notes to consolidated financial statements**

### **Note 1 – Basis of presentation**



JPMorgan Chase & Co. ("JPMorganChase" or the "Firm"), a financial holding company incorporated under Delaware law in 1968, is a leading financial services firm based in the U.S., with operations worldwide. The Firm is a leader in investment banking, financial services for consumers and small businesses, commercial banking, financial transaction processing and asset management. Refer to Note 32 for further discussion of the Firm's reportable business segments.

The accounting and financial reporting policies of JPMorganChase and its subsidiaries conform to U.S. GAAP. Additionally, where applicable, the policies conform to the accounting and reporting guidelines prescribed by regulatory authorities.

### **Consolidation**

The Consolidated Financial Statements include the accounts of JPMorganChase and other entities in which the Firm has a controlling financial interest. All material intercompany balances and transactions have been eliminated.

Assets held for clients in an agency or fiduciary capacity by the Firm are not assets of JPMorganChase and are not included on the Consolidated balance sheets.

The Firm determines whether it has a controlling financial interest in an entity by first evaluating whether the entity is a voting interest entity or a variable interest entity.

#### *Voting interest entities*

Voting interest entities are entities that have sufficient equity and provide the equity investors voting rights that enable them to make significant decisions relating to the entity's operations. For these types of entities, the Firm's determination of whether it has a controlling interest is primarily based on the amount of voting equity interests held. Entities in which the Firm has a controlling financial interest, through ownership of the majority of the entities' voting equity interests, or through other contractual rights that give the Firm control, are consolidated by the

general partner or managing member, but the non-affiliated partners or members have the ability to remove the Firm as the general partner or managing member without cause (i.e., kick-out rights), based on a simple majority vote, or the non-affiliated partners or members have rights to participate in important decisions. Accordingly, the Firm does not consolidate these voting interest entities. However, in the limited cases where the non-managing partners or members do not have substantive kick-out or participating rights, the Firm evaluates the funds as VIEs and consolidates the funds if the Firm is the general partner or managing member and has both power and a potentially significant interest.

The Firm's investment companies and asset management funds have investments in both publicly-held and privately-held entities, including investments in buyouts, growth equity and venture opportunities. These investments are accounted for under investment company guidelines and, accordingly, irrespective of the percentage of equity ownership interests held, are carried on the Consolidated balance sheets at fair value, and are recorded in other assets, with income or loss included in noninterest revenue. If consolidated, the Firm retains the accounting under such specialized investment company guidelines.

#### *Variable interest entities*

VIEs are entities that, by design, either (1) lack sufficient equity to permit the entity to finance its activities without additional subordinated financial support from other parties, or (2) have equity investors that do not have the ability to make significant decisions relating to the entity's operations through voting rights, or do not have the obligation to absorb the expected losses, or do not have the right to receive the residual returns of the entity.

The most common type of VIE is an SPE. SPEs are commonly used in securitization transactions in order to isolate certain assets and



**Notes to consolidated financial statements**

primary beneficiary is the party that has both (1) the power to direct the activities of the VIE that most significantly impact the VIE's economic performance; and (2) through its interests in the VIE, the obligation to absorb losses or the right to receive benefits from the VIE that could potentially be significant to the VIE.

To assess whether the Firm has the power to direct the activities of a VIE that most significantly impact the VIE's economic performance, the Firm considers all the facts and circumstances, including its role in establishing the VIE and its ongoing rights and responsibilities. This assessment includes, first, identifying the activities that most significantly impact the VIE's economic performance; and second, identifying which party, if any, has power over those activities. In general, the parties that make the most significant decisions affecting the VIE (such as asset managers, collateral managers, servicers, or owners of call options or liquidation rights over the VIE's assets) or have the right to unilaterally remove those decision-makers are deemed to have the power to direct the activities of a VIE.

To assess whether the Firm has the obligation to absorb losses of the VIE or the right to receive benefits from the VIE that could potentially be significant to the VIE, the Firm considers all of its economic interests, including debt and equity investments, servicing fees, and derivatives or other arrangements deemed to be variable interests in the VIE. This assessment requires that the Firm apply judgment in determining whether these interests, in the aggregate, are considered potentially significant to the VIE. Factors considered in assessing significance include: the design of the VIE, including its capitalization structure; subordination of interests; payment priority; relative share of interests held across various classes within the VIE's capital structure; and the reasons

*Revenue from contracts with customers*  
JPMorganChase recognizes noninterest revenue from certain contracts with customers, in investment banking fees, deposit-related fees, asset management fees, commissions and other fees, and components of card income, when the Firm's related performance obligations are satisfied. Refer to Note 6 for further discussion of the Firm's revenue from contracts with customers.

*Principal transactions revenue*  
JPMorganChase carries a portion of its assets and liabilities at fair value. Changes in fair value are reported primarily in principal transactions revenue. Refer to Notes 2 and 3 for further discussion of fair value measurement. Refer to Note 6 for further discussion of principal transactions revenue.

**Use of estimates in the preparation of consolidated financial statements**  
The preparation of the Consolidated Financial Statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, revenue and expense, and disclosures of contingent assets and liabilities. Actual results could be different from these estimates.

**Foreign currency translation**  
JPMorganChase revalues assets, liabilities, revenue and expense denominated in non-U.S. currencies into U.S. dollars using applicable exchange rates.

Gains and losses relating to translating functional currency financial statements for U.S. reporting are included in the Consolidated statements of comprehensive income. Gains and losses relating to nonfunctional currency transactions, including non-U.S. operations where the functional currency is the U.S. dollar, are reported in the Consolidated statements of income.

**Offsetting assets and liabilities**  
U.S. GAAP permits entities to present derivative receivables and derivative payables with the same counterparty





agreements. A master netting agreement is a single agreement with a counterparty that permits multiple transactions governed by that agreement to be terminated or accelerated and settled through a single payment in a single currency in the event of a default (e.g., bankruptcy, failure to make a required payment or securities transfer or deliver collateral or margin when due). Upon the exercise of derivatives termination rights by the non-defaulting party (i) all transactions are terminated, (ii) all transactions are valued and the positive values of "in the money" transactions are netted against the negative values of "out of the money" transactions and (iii) the only remaining payment obligation is of one of the parties to pay the netted termination amount. Upon exercise of default rights under repurchase agreements and securities loan agreements in general (i) all transactions are terminated and accelerated, (ii) all values of securities or cash held or to be delivered are calculated, and all such sums are netted against each other and (iii) the only remaining payment obligation is of one of the parties to pay the netted termination amount.

Typical master netting agreements for these types of transactions also often contain a collateral/margin agreement that provides for a security interest in, or title transfer of, securities or cash collateral/margin to the party that has the right to demand margin (the "demanding party"). The collateral/margin agreement typically requires a party to transfer collateral/margin to the demanding party with a value equal to the amount of the margin deficit on a net basis across all transactions governed by the master netting agreement, less any threshold. The collateral/margin agreement grants to the demanding party, upon default by the counterparty, the right to set-off any amounts payable by the counterparty against any posted collateral or the cash equivalent of

## **Accounting standard adopted January 1, 2024**

### ***Equity Method and Joint Ventures: Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method***

The guidance expanded the types of tax-oriented investments, beyond affordable housing tax credit investments, that the Firm can elect on a program by program basis, to be accounted for using the proportional amortization method. This method requires the cost of eligible investments, within an elected program, to be amortized in proportion to the tax benefits received with the resulting amortization reported directly in income tax expense, which aligns with the associated tax credits and other tax benefits. Eligible investments must meet certain criteria, including that substantially all of the return is from income tax credits and other income tax benefits.

This guidance was adopted on January 1, 2024 under the modified retrospective method. The adoption of this guidance resulted in a change to the classification and timing of the amortization associated with certain of the Firm's alternative energy tax-oriented investments. As a result of the adoption, the amortization of these investments that was previously recognized in other income is now recognized in income tax expense. The change in accounting resulted in a decrease to retained earnings of \$161 million and increased the Firm's income tax expense and the effective tax rate by approximately \$450 million and two percentage points, respectively, in the first quarter of 2024, with no material impact to net income.

The guidance requires additional disclosure for all investments that generate income tax credits and other income tax benefits from a tax-oriented investment program for which the Firm has elected to apply the proportional amortization method. The guidance also requires a reevaluation of eligible investments when significant modifications or events





**Notes to consolidated financial statements**

**Financial Instruments - Credit Losses: Troubled Debt Restructurings ("TDRs")**

The adoption of this guidance eliminated the requirement to measure the allowance for TDRs using a discounted cash flow ("DCF") methodology and allowed the option of a non-DCF portfolio-based approach for modified loans to troubled borrowers. The Firm elected this option for all portfolios of modified loans to troubled borrowers except collateral-dependent loans and nonaccrual risk-rated loans, for which the Firm elected to continue applying a DCF methodology. The adoption of this guidance under the modified retrospective method on January 1, 2023, resulted in a \$446 million increase to retained earnings.

**Significant accounting policies**

The following table identifies JPMorganChase's other significant accounting policies and the Note and page where a detailed description of each policy can be found.

		page
Fair value measurement	Note 2	181
		page
Fair value option	Note 3	203
		page
Derivative instruments	Note 5	209
Noninterest revenue and noninterest expense	Note 6	225
Interest income and Interest expense	Note 7	229
Pension and other postretirement employee benefit plans	Note 8	230
Employee share-based incentives	Note 9	233
		page
Investment securities	Note 10	235
Securities financing activities	Note 11	240
		page
Loans	Note 12	243
		page
Allowance for credit losses	Note 13	266
		page
Variable interest entities	Note 14	271
Goodwill, mortgage servicing rights, and other intangible assets	Note 15	280
		page
Premises and equipment	Note 16	285
		page
Leases	Note 18	286
Accounts payable & other liabilities	Note 19	288
		page
Long-term debt	Note 20	289
		page
Earnings per share	Note 23	294
		page
Income taxes	Note 25	296
Off-balance sheet lending-related financial instruments, guarantees and other commitments	Note 28	302
		page
Litigation	Note 30	309



**Note 2 – Fair value measurement**

JPMorganChase carries a portion of its assets and liabilities at fair value. These assets and liabilities are predominantly carried at fair value on a recurring basis (i.e., assets and liabilities that are measured and reported at fair value on the Firm's Consolidated balance sheets). Certain assets, liabilities and unfunded lending-related commitments are measured at fair value on a nonrecurring basis; that is, they are not measured at fair value on an ongoing basis but are subject to fair value adjustments only in certain circumstances (for example, when there is evidence of impairment).

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Fair value is based on quoted market prices or inputs, where available. If prices or quotes are not available, fair value is based on valuation models and other valuation techniques that consider relevant transaction characteristics (such as maturity) and use, as inputs, observable or unobservable market parameters, including yield curves, interest rates, volatilities, prices (such as commodity, equity or debt prices), correlations, foreign exchange rates and credit curves. Fair value may also incorporate valuation adjustments.

The level of precision in estimating unobservable market inputs or other factors can affect the amount of gain or loss recorded for a particular position. Furthermore, while the Firm believes its valuation methods are appropriate and consistent with those of other market participants, the methods and assumptions used reflect management judgment and may vary across the Firm's businesses and portfolios.

The Firm uses various methodologies and assumptions in the determination of fair value. The use of different methodologies or assumptions by other market participants compared with those used by the Firm could result

head of the VCG (under the direction of the Firm's Controller), and includes sub-forums covering the CIB, CCB, AWM and certain corporate functions including Treasury and CIO.

#### *Price verification process*

The VCG verifies fair value estimates provided by the risk-taking functions by leveraging independently derived prices, valuation inputs and other market data, where available. Where independent prices or inputs are not available, the VCG performs additional review to ensure the reasonableness of the estimates. The additional review may include evaluating the limited market activity including client unwinds, benchmarking valuation inputs to those used for similar instruments, decomposing the valuation of structured instruments into individual components, comparing expected to actual cash flows, reviewing profit and loss trends, and reviewing trends in collateral valuation. There are also additional levels of management review for more significant or complex positions.

The VCG determines any valuation adjustments that may be required to the estimates provided by the risk-taking functions. No adjustments to quoted prices are applied for instruments classified within level 1 of the fair value hierarchy (refer to the discussion of the fair value hierarchy on page 182 for further information). For other positions, judgment is required to assess the need for valuation adjustments to appropriately reflect liquidity considerations, unobservable parameters, and, for certain portfolios that meet specified criteria, the size of the net open risk position. The determination of such adjustments follows a consistent framework across the Firm:

- Liquidity valuation adjustments are considered where an observable external price or valuation parameter exists but is of lower reliability, potentially due to lower market activity. Liquidity valuation adjustments are made based on current market conditions.



**Notes to consolidated financial statements**

based on factors that a relevant market participant would consider in the transfer of the net open risk position, including the size of the adverse market move that is likely to occur during the period required to sufficiently reduce the net open risk position.

- Uncertainty adjustments related to unobservable parameters may be made when positions are valued using prices or input parameters to valuation models that are unobservable due to a lack of market activity or because they cannot be implied from observable market data. Such prices or parameters must be estimated and are, therefore, subject to management judgment. Adjustments are made to reflect the uncertainty inherent in the resulting valuation estimate.
- Where appropriate, the Firm also applies adjustments to its estimates of fair value in order to appropriately reflect counterparty credit quality (CVA), the Firm's own creditworthiness (DVA) and the impact of funding (FVA), using a consistent framework across the Firm. Refer to Credit and funding adjustments on page 198 of this Note for more information on such adjustments.

#### **Valuation model review and approval**

If prices or quotes are not available for an instrument or a similar instrument, fair value is generally determined using valuation models that consider relevant transaction terms such as maturity and use as inputs market-based or independently sourced parameters. Where this is the case the price verification process described above is applied to the inputs in those models.

Under the Firm's Estimations and Model Risk Management Policy, MRGR reviews and approves new models, as well as material changes to existing models, prior to implementation in the operating environment. In certain circumstances exceptions may be granted to the Firm's policy to allow a model to be used prior to review or approval. MRGR may also require the

#### **Fair value hierarchy**

A three-level fair value hierarchy has been established under U.S. GAAP for disclosure of fair value measurements. The fair value hierarchy is based on the observability of inputs to the valuation of an asset or liability as of the measurement date. The three levels are defined as follows.

- Level 1 – inputs to the valuation methodology are quoted prices (unadjusted) for identical assets or liabilities in active markets.
- Level 2 – inputs to the valuation methodology include quoted prices for similar assets and liabilities in active markets, and inputs that are observable for the asset or liability, either directly or indirectly, for substantially the full term of the financial instrument.
- Level 3 – one or more inputs to the valuation methodology are unobservable and significant to the fair value measurement.

A financial instrument's categorization within the fair value hierarchy is based on the lowest level of input that is significant to the fair value measurement.





The following table describes the valuation methodologies generally used by the Firm to measure its significant products/instruments at fair value, including the general classification of such instruments pursuant to the fair value hierarchy.

Product/instrument	Valuation methodology	Classifications in the fair value hierarchy
Securities financing agreements	<p>Valuations are based on discounted cash flows, which consider:</p> <ul style="list-style-type: none"> <li>• Derivative features: refer to the discussion of derivatives below for further information</li> <li>• Market rates for the respective maturity</li> <li>• Collateral characteristics</li> </ul>	Predominantly level 2
<p>Loans and lending-related commitments – wholesale</p> <p>Loans carried at fair value (trading loans and non-trading loans) and associated lending-related commitments</p>	<p>Where observable market data is available, valuations are based on:</p> <ul style="list-style-type: none"> <li>• Observed market prices (circumstances are infrequent)</li> <li>• Relevant broker quotes</li> <li>• Observed market prices for similar instruments</li> </ul> <p>Where observable market data is unavailable or limited, valuations are based on discounted cash flows, which consider the following:</p> <ul style="list-style-type: none"> <li>• Credit spreads derived from the cost of CDS; or benchmark credit curves developed by the Firm, by industry and credit rating</li> <li>• Prepayment speed</li> </ul> <ul style="list-style-type: none"> <li>• Collateral characteristics</li> </ul>	Level 2 or 3
<p>Loans – consumer</p> <p>Loans carried at fair value – residential mortgage loans expected to be sold</p>	<p>Fair value is based on observable market prices for mortgage-backed securities with similar collateral and incorporates adjustments to these prices to account for differences between the securities and the value of the underlying loans, which include credit characteristics, portfolio composition, and liquidity.</p>	Predominantly level 2
Investment and trading securities	<p>Quoted market prices</p> <p>In the absence of quoted market prices, securities are valued based on:</p>	<p>Level 1</p> <p>Level 2 or 3</p>



**Notes to consolidated financial statements**

Product/instrument	Valuation methodology	Classifications in the fair value hierarchy
Derivatives	Actively traded derivatives, e.g., exchange-traded derivatives, that are valued using quoted prices.	Level 1
	<p>Derivatives that are valued using models such as the Black-Scholes option pricing model, simulation models, or a combination of models that may use observable or unobservable valuation inputs as well as considering the contractual terms.</p> <p>The key valuation inputs used will depend on the type of derivative and the nature of the underlying instruments and may include equity prices, commodity prices, foreign exchange rates, volatilities, correlations, CDS spreads, recovery rates and prepayment speed.</p> <p>In addition, specific inputs used for derivatives that are valued based on models with significant unobservable inputs are as follows:</p> <p>Interest rate and FX exotic derivatives specific inputs include:</p> <ul style="list-style-type: none"> <li>• Interest rate curve</li> <li>• Interest rate volatility</li> <li>• Interest rate spread volatility</li> <li>• Bermudan switch value</li> <li>• Interest rate correlation</li> <li>• Interest rate-FX correlation</li> <li>• Foreign exchange correlation</li> </ul> <p>Credit derivatives specific inputs include:</p> <ul style="list-style-type: none"> <li>• Credit correlation between the underlying debt instruments</li> </ul> <p>Equity derivatives specific inputs include:</p> <ul style="list-style-type: none"> <li>• Forward equity price</li> <li>• Equity volatility</li> <li>• Equity correlation</li> <li>• Equity-FX correlation</li> <li>• Equity-IR correlation</li> </ul> <p>Commodity derivatives specific inputs include:</p> <ul style="list-style-type: none"> <li>• Forward commodity price</li> <li>• Commodity volatility</li> <li>• Commodity correlation</li> </ul> <p>Additionally, adjustments are made to reflect counterparty credit quality (CVA) and the impact of funding (FVA). Refer to page 198 of this Note.</p>	Level 2 or 3
Mortgage servicing rights	Refer to Mortgage servicing rights in Note 15	Level 3



Product/instrument	Valuation methodology	Classification in the fair value hierarchy
Fund investments (e.g., mutual/collective investment funds, private equity funds, hedge funds, and real estate funds)	<p>Net asset value</p> <ul style="list-style-type: none"> <li>NAV is supported by the ability to redeem and purchase at the NAV level</li> <li>Adjustments to the NAV as required, for restrictions on redemption (e.g., lock-up periods or withdrawal limitations) or where observable activity is limited</li> </ul>	<p>Level 1</p> <p>Level 2 or 3<sup>(a)</sup></p>
Beneficial interests issued by consolidated VIEs	<p>Valued using observable market information, where available.</p> <p>In the absence of observable market information, valuations are based on the fair value of the underlying assets held by the VIE.</p>	Level 2 or 3
Structured notes (included in deposits, short-term borrowings and long-term debt)	<p>Valuations are based on discounted cash flow analyses that consider the embedded derivative and the terms and payment structure of the note.</p> <p>The embedded derivative features are considered using models such as the Black-Scholes option pricing model, simulation models, or a combination of models that may use observable or unobservable valuation inputs, depending on the embedded derivative. The specific inputs used vary according to the nature of the embedded derivative features, as described in the discussion above regarding derivatives valuation. Adjustments are then made to this base valuation to reflect the Firm's own credit risk (DVA). Refer to page 198 of this Note.</p>	Level 2 or 3

(a) Excludes certain investments that are measured at fair value using the net asset value per share (or its equivalent) as a practical expedient.



**Notes to consolidated financial statements**

The following table presents the assets and liabilities reported at fair value as of December 31, 2024 and 2023, by major product category and fair value hierarchy.

## Assets and liabilities measured at fair value on a recurring basis

December 31, 2024 (in millions)	Fair value hierarchy			Derivative netting adjustments <sup>(e)</sup>	Total fair value
	Level 1	Level 2	Level 3		
Federal funds sold and securities purchased under resale agreements	\$ —	\$ 286,771	\$ —	\$ —	\$ 286,771
Securities borrowed	—	83,962	—	—	83,962
Trading assets:					
Debt instruments:					
Mortgage-backed securities:					
U.S. GSEs and government agencies <sup>(a)</sup>	—	104,312	488	—	104,800
Residential - nonagency	—	2,282	5	—	2,287
Commercial - nonagency	—	1,283	10	—	1,293
<b>Total mortgage-backed securities</b>	—	107,877	503	—	108,380
U.S. Treasury, GSEs and government agencies <sup>(a)</sup>	150,580	11,702	—	—	162,282
Obligations of U.S. states and municipalities	—	6,100	1	—	6,101
Certificates of deposit, bankers' acceptances and commercial paper	—	3,950	—	—	3,950
Non-U.S. government debt securities	34,108	54,335	152	—	88,595
Corporate debt securities	—	33,591	390	—	33,981
Loans	—	10,228	1,088	—	11,316
Asset-backed securities	—	2,813	10	—	2,823
<b>Total debt instruments</b>	184,688	230,596	2,144	—	417,428
Equity securities	130,307	1,359	62	—	131,728
Physical commodities <sup>(b)</sup>	5,957	1,533	26	—	7,516
Other	—	19,935	210	—	20,145
<b>Total debt and equity instruments<sup>(c)</sup></b>	320,952	253,423	2,442	—	576,817
Derivative receivables:					
Interest rate	4,934	282,019	3,781	(265,789)	24,945
Credit	—	10,379	708	(10,273)	814
Foreign exchange	196	261,520	1,204	(237,608)	25,312
Equity	—	82,855	2,365	(79,935)	5,285
Commodity	—	15,232	394	(11,015)	4,611
<b>Total derivative receivables</b>	5,130	652,005	8,452	(604,620)	60,967
<b>Total trading assets<sup>(d)</sup></b>	326,082	905,428	10,894	(604,620)	637,784
Available-for-sale securities:					
Mortgage-backed securities:					
U.S. GSEs and government agencies <sup>(a)</sup>	—	91,893	—	—	91,893
Residential - nonagency	—	4,811	—	—	4,811
Commercial - nonagency	—	4,057	8	—	4,065
<b>Total mortgage-backed securities</b>	—	100,761	8	—	100,769
U.S. Treasury and government agencies	234,491	288	—	—	234,779
Obligations of U.S. states and municipalities	—	17,913	—	—	17,913
Non-U.S. government debt securities	23,973	12,272	—	—	36,245
Corporate debt securities	—	70	—	—	70
Asset-backed securities:					





December 31, 2023 (in millions)	Fair value hierarchy			Derivative netting adjustments <sup>(e)</sup>	Total fair value					
	Level 1	Level 2	Level 3							
Federal funds sold and securities purchased under resale agreements										
	\$	–	\$ 259,813	\$	–	\$ 259,813				
Securities borrowed										
		–	70,086		–	70,086				
Trading assets:										
Debt instruments:										
Mortgage-backed securities:										
U.S. GSEs and government agencies <sup>(a)</sup>		–	73,840		758	–	74,598			
Residential – nonagency		–	1,921		5	–	1,926			
Commercial – nonagency		–	1,362		12	–	1,374			
Total mortgage-backed securities						–	77,123	775	–	77,898
U.S. Treasury, GSEs and government agencies <sup>(a)</sup>		133,997		9,998		–	–		143,995	
Obligations of U.S. states and municipalities		–		5,858		10	–		5,868	
Certificates of deposit, bankers’ acceptances and commercial paper		–		756		–	–		756	
Non-U.S. government debt securities		24,846		55,557		179	–		80,582	
Corporate debt securities		–		32,854		484	–		33,338	
Loans		–		7,872		684	–		8,556	
Asset-backed securities		–		2,199		6	–		2,205	
Total debt instruments						158,843	192,217	2,138	–	353,198
Equity securities		107,926		679		127	–		108,732	
Physical commodities <sup>(b)</sup>		2,479		3,305		7	–		5,791	
Other		–		17,879		101	–		17,980	
Total debt and equity instruments <sup>(c)</sup>						269,248	214,080	2,373	–	485,701
Derivative receivables:										
Interest rate		2,815		243,578		4,298	(224,367)		26,324	
Credit		–		8,644		1,010	(9,103)		551	
Foreign exchange		149		204,737		889	(187,756)		18,019	
Equity		–		55,167		2,522	(52,761)		4,928	
Commodity		–		15,234		205	(10,397)		5,042	
Total derivative receivables						2,964	527,360	8,924	(484,384)	54,864
Total trading assets <sup>(d)</sup>						272,212	741,440	11,297	(484,384)	540,565
Available-for-sale securities:										
Mortgage-backed securities:										
U.S. GSEs and government agencies <sup>(a)</sup>		–		85,170		–	–		85,170	
Residential – nonagency		–		3,639		–	–		3,639	
Commercial – nonagency		–		2,803		–	–		2,803	
Total mortgage-backed securities						–	91,612	–	–	91,612
U.S. Treasury and government agencies		57,683		122		–	–		57,805	
Obligations of U.S. states and municipalities		–		21,367		–	–		21,367	
Non-U.S. government debt securities		13,095		8,187		–	–		21,282	
Corporate debt securities		–		100		–	–		100	
Asset-backed securities:										
Collateralized loan obligations		–		6,752		–	–		6,752	

- (a) At December 31, 2024 and 2023, included total U.S. GSE obligations of \$120.1 billion and \$78.5 billion, respectively, which were mortgage-related.
- (b) Physical commodities inventories are generally accounted for at the lower of cost or net realizable value. "Net realizable value" is a term defined in U.S. GAAP as not exceeding fair value less costs to sell ("transaction costs"). Transaction costs for the Firm's physical commodities inventories are either not applicable or immaterial to the value of the inventory. Therefore, net realizable value approximates fair value for the Firm's physical commodities inventories. When fair value hedging has been applied (or when net realizable value is below cost), the carrying value of physical commodities approximates fair value, because under fair value hedge accounting, the cost basis is adjusted for changes in fair value. Refer to Note 5 for a further discussion of the Firm's hedge accounting relationships. To provide consistent fair value disclosure information, all physical commodities inventories have been included in each period presented.

## Notes to consolidated financial statements

- (c) Balances reflect the reduction of securities owned (long positions) by the amount of identical securities sold but not yet purchased (short positions).
- (d) Certain investments that are measured at fair value using the net asset value per share (or its equivalent) as a practical expedient are not required to be classified in the fair value hierarchy. At both December 31, 2024 and 2023, the fair values of these investments, which include certain hedge funds, private equity funds, real estate and other funds, were \$1.0 billion, primarily reported in other assets.
- (e) As permitted under U.S. GAAP, the Firm has elected to net derivative receivables and derivative payables and the related cash collateral received and paid when a legally enforceable master netting agreement exists. The level 3 balances would be reduced if netting were applied, including the netting benefit associated with cash collateral.

**Level 3 valuations**



The Firm has established well-structured processes for determining fair value, including for instruments where fair value is estimated using significant unobservable inputs (level 3). Refer to pages 181-185 of this Note for further information on the Firm's valuation process and a detailed discussion of the determination of fair value for individual financial instruments.

Estimating fair value requires the application of judgment. The type and level of judgment required is largely dependent on the amount of observable market information available to the Firm. For instruments valued using internally developed valuation models and other valuation techniques that use significant unobservable inputs and are therefore classified within level 3 of the fair value hierarchy, judgments used to estimate fair value are more significant than those required when estimating the fair value of instruments classified within levels 1 and 2.

In arriving at an estimate of fair value for an instrument within level 3, management must first determine the appropriate valuation model or other valuation technique to use. Second, due to the lack of observability of significant inputs, management must assess relevant empirical data in deriving valuation inputs including transaction details, yield curves, interest rates, prepayment speed, default rates, volatilities, correlations, prices (such as commodity, equity or debt prices), valuations of comparable instruments, foreign exchange rates and credit curves.

The following table presents the Firm's primary level 3 financial instruments, the valuation techniques used to measure the fair value of those financial instruments, the significant unobservable inputs, the range of values for those inputs and the weighted or arithmetic averages of such inputs. While the determination to classify an instrument within level 3 is based on the significance of the unobservable inputs to the overall fair value

In the Firm's view, the input range, weighted and arithmetic average values do not reflect the degree of input uncertainty or an assessment of the reasonableness of the Firm's estimates and assumptions. Rather, they reflect the characteristics of the various instruments held by the Firm and the relative distribution of instruments within the range of characteristics. For example, two option contracts may have similar levels of market risk exposure and valuation uncertainty, but may have significantly different implied volatility levels because the option contracts have different underlyings, tenors, or strike prices. The input range and weighted and arithmetic average values will therefore vary from period-to-period and parameter-to-parameter based on the characteristics of the instruments held by the Firm at each balance sheet date.



**Notes to consolidated financial statements**

**Level 3 inputs<sup>(a)</sup>**

December 31, 2024

Product/Instrument	Fair value (in millions)	Principal valuation technique	Unobservable inputs <sup>(g)</sup>	Range of input values		Average <sup>(i)</sup>
Residential mortgage-backed securities and loans <sup>(b)</sup>	\$ 861	Discounted cash flows	Yield	0%	103%	8%
			Prepayment speed	3%	13%	8%
			Conditional default rate	0%	7%	0%
			Loss severity	0%	110%	5%
Commercial mortgage-backed securities and loans <sup>(c)</sup>	1,424	Market comparables	Price	\$0	\$90	\$81
Corporate debt securities	390	Market comparables	Price	\$0	\$148	\$95
Loans <sup>(d)</sup>	1,730	Market comparables	Price	\$0	\$107	\$79
Non-U.S. government debt securities	152	Market comparables	Price	\$0	\$103	\$95
Net interest rate derivatives	293	Option pricing	Interest rate volatility	9bps	1,097bps	115bps
			Interest rate spread volatility	37bps	77bps	64bps
			Bermudan switch value	0%	45%	17%
			Interest rate correlation	(82)%	97%	64%
			IR-FX correlation	(35)%	60%	8%
	8	Discounted cash flows	Prepayment speed	0%	21%	7%
Net credit derivatives	(393)	Discounted cash flows	Credit correlation	31%	79%	47%
			Credit spread	0bps	2,717bps	331bps
			Recovery rate	10%	90%	61%
	30	Market comparables	Price	\$0	\$115	\$74
Net foreign exchange derivatives	62	Option pricing	IR-FX correlation	(40)%	60%	22%
	(42)	Discounted cash flows	Prepayment speed	11%		11%
			Interest rate curve	1%	27%	7%
Net equity derivatives	(2,866)	Option pricing	Forward equity price <sup>(h)</sup>	76%	153%	100%
			Equity volatility	5%	135%	32%
			Equity correlation	17%	100%	56%
			Equity-FX correlation	(80)%	65%	(32)%
			Equity-IR correlation	5%	25%	14%
Net commodity derivatives	(73)	Option pricing	Oil commodity forward	\$87 / BBL	BBL	\$160 / BBL
			Natural gas commodity forward	\$2 / MMBTU	\$7 / MMBTU	\$4 / MMBTU

\$291 /

- (a) The categories presented in the table have been aggregated based upon the product type, which may differ from their classification on the Consolidated balance sheets. Furthermore, the inputs presented for each valuation technique in the table are, in some cases, not applicable to every instrument valued using the technique as the characteristics of the instruments can differ.
- (b) Comprises U.S. GSE and government agency securities of \$488 million, nonagency securities of \$5 million and non-trading loans of \$368 million.
- (c) Comprises nonagency securities of \$18 million, trading loans of \$65 million and non-trading loans of \$1.3 billion.
- (d) Comprises trading loans of \$1.0 billion and non-trading loans of \$707 million.
- (e) Long-term debt, short-term borrowings and deposits include structured notes issued by the Firm that are financial instruments that typically contain embedded derivatives. The estimation of the fair value of structured notes includes the derivative features embedded within the instrument. The significant unobservable inputs are broadly consistent with those presented for derivative receivables.
- (f) Includes equity securities of \$734 million including \$672 million in Other assets, for which quoted prices are not readily available and the fair value is generally based on internal valuation techniques such as EBITDA multiples and comparable analysis. All other level 3 assets and liabilities are insignificant both individually and in aggregate.
- (g) Price is a significant unobservable input for certain instruments. When quoted market prices are not readily available, reliance is generally placed on price-based internal valuation techniques. The price input is expressed assuming a par value of \$100.
- (h) Forward equity price is expressed as a percentage of the current equity price.
- (i) Amounts represent weighted averages except for derivative related inputs where arithmetic averages are used.



### Changes in and ranges of unobservable inputs

The following discussion provides a description of the impact on a fair value measurement of a change in each unobservable input in isolation, and the interrelationship between unobservable inputs, where relevant and significant. The impact of changes in inputs may not be independent, as a change in one unobservable input may give rise to a change in another unobservable input. Where relationships do exist between two unobservable inputs, those relationships are discussed below. Relationships may also exist between observable and unobservable inputs (for example, as observable interest rates rise, unobservable prepayment rates decline); such relationships have not been included in the discussion below. In addition, for each of the individual relationships described below, the inverse relationship would also generally apply.

The following discussion also provides a description of attributes of the underlying instruments and external market factors that affect the range of inputs used in the valuation of the Firm's positions.

**Yield** – The yield of an asset is the interest rate used to discount future cash flows in a discounted cash flow calculation. An increase in the yield, in isolation, would result in a decrease in a fair value measurement.

**Credit spread** – The credit spread is the amount of additional annualized return over the market interest rate that a market participant would demand for taking exposure to the credit risk of an instrument. The credit spread for an instrument forms part of the discount rate used in a discounted cash flow calculation. Generally, an increase in the credit spread would result in a decrease in a fair value measurement.

The yield and the credit spread of a particular mortgage-backed security primarily reflect the risk inherent in the instrument. The yield is also impacted by the absolute level of the

**Prepayment speed** – The prepayment speed is a measure of the voluntary unscheduled principal repayments of a prepayable obligation in a collateralized pool. Prepayment speeds generally decline as borrower delinquencies rise. An increase in prepayment speeds, in isolation, would result in a decrease in a fair value measurement of assets valued at a premium to par and an increase in a fair value measurement of assets valued at a discount to par.

Prepayment speeds may vary from collateral pool to collateral pool, and are driven by the type and location of the underlying borrower, and the remaining tenor of the obligation as well as the level and type (e.g., fixed or floating) of interest rate being paid by the borrower. Typically collateral pools with higher borrower credit quality have a higher prepayment rate than those with lower borrower credit quality, all other factors being equal.

**Conditional default rate** – The conditional default rate is a measure of the reduction in the outstanding collateral balance underlying a collateralized obligation as a result of defaults. While there is typically no direct relationship between conditional default rates and prepayment speeds, collateralized obligations for which the underlying collateral has high prepayment speeds will tend to have lower conditional default rates. An increase in conditional default rates would generally be accompanied by an increase in loss severity and an increase in credit spreads. An increase in the conditional default rate, in isolation, would result in a decrease in a fair value measurement. Conditional default rates reflect the quality of the collateral underlying a securitization and the structure of the securitization itself. Based on the types of securities owned in the Firm's market-making portfolios, conditional default rates are most typically at the lower end of the range presented.

**Loss severity** – The loss severity





**Notes to consolidated financial statements**

**Correlation** – Correlation is a measure of the relationship between the movements of two variables. Correlation is a pricing input for a derivative product where the payoff is driven by one or more underlying risks. Correlation inputs are related to the type of derivative (e.g., interest rate, credit, equity, foreign exchange and commodity) due to the nature of the underlying risks. When parameters are positively correlated, an increase in one parameter will result in an increase in the other parameter. When parameters are negatively correlated, an increase in one parameter will result in a decrease in the other parameter. An increase in correlation can result in an increase or a decrease in a fair value measurement. Given a short correlation position, an increase in correlation, in isolation, would generally result in a decrease in a fair value measurement.

The level of correlation used in the valuation of derivatives with multiple underlying risks depends on a number of factors including the nature of those risks. For example, the correlation between two credit risk exposures would be different than that between two interest rate risk exposures. Similarly, the tenor of the transaction may also impact the correlation input, as the relationship between the underlying risks may be different over different time periods. Furthermore, correlation levels are dependent on market conditions and could have a relatively wide range of levels within or across asset classes over time, particularly in volatile market conditions.

**Volatility** – Volatility is a measure of the variability in possible returns for an instrument, parameter or market index given how much the particular instrument, parameter or index changes in value over time. Volatility is a pricing input for options, including equity options, commodity options, and interest rate options. Given a long position in an option, an increase in volatility, in

**Interest rate curve** – The interest rate curve represents the relationship of interest rates over differing tenors. The interest rate curve is used to set interest rate and foreign exchange derivative cash flows and is also a pricing input used in the discounting of any derivative cash flow.

**Forward price** – The forward price is the price at which the buyer agrees to purchase the asset underlying a forward contract on the predetermined future delivery date, and is such that the value of the contract is zero at inception.

The forward price is used as an input in the valuation of certain derivatives and depends on a number of factors including interest rates, the current price of the underlying asset, and the expected income to be received and costs to be incurred by the seller as a result of holding that asset until the delivery date. An increase in the forward can result in an increase or a decrease in a fair value measurement.

### **Changes in level 3 recurring fair value measurements**

The following tables include a rollforward of the Consolidated balance sheets amounts (including changes in fair value) for financial instruments classified by the Firm within level 3 of the fair value hierarchy for the years ended December 31, 2024, 2023 and 2022. When a determination is made to classify a financial instrument within level 3, the determination is based on the significance of the unobservable inputs to the overall fair value measurement. However, level 3 financial instruments typically include, in addition to the unobservable or level 3 components, observable components (that is, components that are actively quoted and can be validated to external sources); accordingly, the gains and losses in the table below include changes in fair value due in part to observable factors that are part of the valuation methodology. The Firm risk-manages the observable components of level 3 financial





Fair value measurements using significant unobservable inputs										
Year ended	Fair value	Total realized/unrealized					Transfers into level 3	Transfers (out of) level 3	Fair value at Dec. 31, 2024	Change in unrealized gains/(losses) related to financial instruments held at Dec. 31, 2024
December 31, 2024	at Jan. 1, 2024	gains/(losses)	Purchases <sup>(g)</sup>	Sales	Settlements <sup>(h)</sup>					
(in millions)	1, 2024	(losses)								
Assets: <sup>(a)</sup>										
Federal funds sold and securities purchased under resale agreements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Trading assets:										
Debt instruments:										
Mortgage-backed securities:										
U.S. GSEs and government agencies	758	18	46	(260)	(81)	7	-	488	(3)	
Residential - nonagency	5	7	-	(5)	(2)	4	(4)	5	-	
Commercial - nonagency	12	(2)	-	-	-	-	-	10	(1)	
Total mortgage-backed securities										
	775	23	46	(265)	(83)	11	(4)	503	(4)	
Obligations of U.S. states and municipalities	10	-	-	-	(3)	-	(6)	1	-	
Non-U.S. government debt securities	179	(6)	175	(183)	-	17	(30)	152	(10)	
Corporate debt securities	484	36	459	(354)	(181)	13	(67)	390	45	
Loans	684	63	800	(642)	(74)	839	(582)	1,088	29	
Asset-backed securities	6	-	9	(5)	(8)	8	-	10	-	
Total debt instruments										
	2,138	116	1,489	(1,449)	(349)	888	(689)	2,144	60	
Equity securities	127	(21)	138	(123)	(1)	85	(143)	62	(308)	
Physical commodities	7	17	3	-	(1)	-	-	26	16	



**Notes to consolidated financial statements**

Fair value measurements using significant unobservable inputs										
Year ended	Fair value	Total realized/unrealized gains/losses	Purchases <sup>(g)</sup>	Sales	Settlements <sup>(h)</sup>	Transfers into level 3	Transfers (out of) level 3	Fair value at Dec. 31, 2023	Change in unrealized gains/losses related to financial instruments held at Dec. 31, 2023	
(in millions)	at Jan. 1, 2023	(losses)						2023	2023	2023
<b>Assets:<sup>(a)</sup></b>										
Federal funds sold and securities purchased under resale agreements	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Trading assets:										
Debt instruments:										
Mortgage-backed securities:										
U.S. GSEs and government agencies	759	4	249	(133)	(107)	—	(14)	758	1	
Residential – nonagency	5	6	—	(6)	(1)	1	—	5	1	
Commercial – nonagency	7	6	—	—	(1)	8	(8)	12	7	
<b>Total mortgage-backed securities</b>	<b>771</b>	<b>16</b>	<b>249</b>	<b>(139)</b>	<b>(109)</b>	<b>9</b>	<b>(22)</b>	<b>775</b>	<b>9</b>	
Obligations of U.S. states and municipalities	7	—	1	—	(1)	3	—	10	—	
Non-U.S. government debt securities										
	155	74	217	(254)	—	22	(35)	179	74	
Corporate debt securities	463	36	322	(172)	(41)	114	(238)	484	35	
Loans	759	(15)	1,027	(499)	(441)	382	(529)	684	30	
Asset-backed securities	23	—	7	(12)	(1)	5	(16)	6	—	
<b>Total debt instruments</b>	<b>2,178</b>	<b>111</b>	<b>1,823</b>	<b>(1,076)</b>	<b>(593)</b>	<b>535</b>	<b>(840)</b>	<b>2,138</b>	<b>148</b>	
Equity securities	665	(53)	164	(239)	(384)	192	(218)	127	(422)	
Physical commodities	2	—	7	—	(2)	—	—	7	—	











## Notes to consolidated financial statements

- (a) Level 3 assets at fair value as a percentage of total Firm assets at fair value (including assets measured at fair value on a nonrecurring basis) were 2% at December 31, 2024, 2023 and 2022. Level 3 liabilities at fair value as a percentage of total Firm liabilities at fair value (including liabilities measured at fair value on a nonrecurring basis) were 9% at December 31, 2024, and 8% at both December 31, 2023 and 2022.
- (b) All level 3 derivatives are presented on a net basis, irrespective of the underlying counterparty.
- (c) Primarily reported in principal transactions revenue, except for changes in fair value for CCB mortgage loans and lending-related commitments originated with the intent to sell, and mortgage loan purchase commitments, which are reported in mortgage fees and related income.
- (d) Realized gains/(losses) on AFS securities are reported in investment securities gains/(losses). Unrealized gains/(losses) are reported in OCI. Realized and unrealized gains/(losses) recorded on level 3 AFS securities were not material for the years ended December 31, 2024, 2023 and 2022.
- (e) Changes in fair value for MSRs are reported in mortgage fees and related income.
- (f) Realized (gains)/losses due to DVA for fair value option elected liabilities are reported in principal transactions revenue, and were not material for the years ended December 31, 2024, 2023 and 2022. Unrealized (gains)/losses are reported in OCI, and were \$(50) million, \$(158) million and \$(529) million for the years ended December 31, 2024, 2023 and 2022, respectively.
- (g) Loan originations are included in purchases.
- (h) Includes financial assets and liabilities that have matured, been partially or fully repaid, impacts of modifications, deconsolidations associated with beneficial interests in VIEs and other items.

### Level 3 analysis

#### *Consolidated balance sheets changes*

The following describes significant changes to level 3 assets since December 31, 2023, for those items measured at fair value on a recurring basis. Refer to Assets and liabilities measured at fair value on a nonrecurring basis on page 199 for further information on changes impacting items measured at fair value on a nonrecurring basis.

*For the year ended December 31, 2024*  
Level 3 assets were \$23.8 billion at December 31, 2024, reflecting an increase of \$127 million from December 31, 2023.

The increase for the year ended December 31, 2024 was driven by:

- \$599 million increase in MSRs.
- \$586 million increase in other assets primarily due to purchases, offset by:
- \$472 million decrease in gross derivative receivables due to sales and settlements predominantly offset by gains, purchases and net transfers.
- \$663 million decrease in non-trading loans due to sales and settlements largely offset by gains, purchases and net transfers.

Refer to Note 15 for information on MSRs.

Refer to the sections below for additional information.

#### **Transfers between levels for instruments carried at fair value on a recurring basis**

During the year ended December 31, 2024, significant transfers from level 2 into level 3 included the following:

- \$1.0 billion of total debt and equity instruments, predominantly trading loans, driven by a decrease in observability.
- \$959 million of gross interest rate derivative receivables and \$1.1 billion of gross interest rate derivative payables as a result of a decrease in observability and an increase in the significance of unobservable inputs.
- \$1.6 billion of gross equity

result of a decrease in observability and an increase in the significance of unobservable inputs.

- \$816 million of non-trading loans driven by a decrease in observability.

During the year ended December 31, 2024, significant transfers from level 3 into level 2 included the following:

- \$880 million of total debt and equity instruments, predominantly trading loans and equity securities, driven by an increase in observability.
- \$1.4 billion of gross equity derivative receivables and \$2.0 billion of gross equity derivative payables as a result of an increase in observability and a decrease in the significance of unobservable inputs.
- \$863 million of long-term debt as a result of an increase in observability and a decrease in the significance of unobservable inputs.

During the year ended December 31, 2023, significant transfers from level 2 into level 3 included the following:

- \$951 million of gross interest rate derivative receivables as a result of a decrease in observability and an increase in the significance of unobservable inputs and \$2.1 billion of gross interest rate derivative payables as a result of transition to term SOFR for certain interest rate options.
- \$1.5 billion of gross equity derivative receivables and \$829 million of gross equity derivative payables as a result of a decrease in observability and an increase in the significance of unobservable inputs.
- \$1.3 billion of non-trading loans driven by a decrease in observability.







During the year ended December 31, 2023, significant transfers from level 3 into level 2 included the following:

- \$1.1 billion of total debt and equity instruments, partially due to trading loans, driven by an increase in observability.
- \$921 million of gross interest rate derivative receivables as a result of an increase in observability and a decrease in the significance of unobservable inputs.
- \$2.3 billion of gross equity derivative receivables and \$1.7 billion of gross equity derivative payables as a result of an increase in observability and a decrease in the significance of unobservable inputs.
- \$1.1 billion of non-trading loans as a result of an increase in observability and a decrease in the significance of unobservable inputs.

During the year ended December 31, 2022, significant transfers from level 2 into level 3 included the following:

- \$2.4 billion of total debt and equity instruments, predominantly due to equity securities of \$1.1 billion driven by a decrease in observability predominantly as a result of restricted access to certain markets and trading loans of \$925 million driven by a decrease in observability.
- \$1.6 billion of gross interest rate derivative receivables and \$878 million of gross interest rate derivative payables as a result of a decrease in observability and an increase in the significance of unobservable inputs.
- \$1.6 billion of gross equity derivative receivables and \$2.3 billion of gross equity derivative payables as a result of a decrease in observability and an increase in the significance of unobservable inputs.
- \$1.1 billion of non-trading loans driven by a decrease in observability.

- \$831 million of non-trading loans driven by an increase in observability.
- \$1.0 billion of long-term debt driven by an increase in observability and a decrease in the significance of unobservable inputs for structured notes.

All transfers are based on changes in the observability and/or significance of the valuation inputs and are assumed to occur at the beginning of the quarterly reporting period in which they occur.

#### *Gains and losses*

The following describes significant components of total realized/unrealized gains/(losses) for instruments measured at fair value on a recurring basis for the years ended December 31, 2024, 2023 and 2022. These amounts exclude any effects of the Firm's risk management activities where the financial instruments are classified as level 1 and 2 of the fair value hierarchy. Refer to Changes in level 3 recurring fair value measurements rollforward tables on pages 192-196 for further information on these instruments.

#### **2024**

- \$1.9 billion of net gains on assets, predominantly driven by gains in net interest rate derivative receivables due to market movements and gains in MSRs reflecting lower prepayment speeds on higher rates.
- \$1.6 billion of net losses on liabilities, predominantly driven by losses in long-term debt due to market movements.

#### **2023**

- \$1.8 billion of net gains on assets, largely driven by gains in net interest rate derivative receivables due to market movements and gains in MSRs reflecting lower prepayment speeds on higher rates.
- \$3.3 billion of net losses on liabilities, predominantly driven by losses in long-term debt due to market movements.

#### **2022**

- \$7.7 billion of net gains on assets, predominantly driven by gains in



**Notes to consolidated financial statements**

### Credit and funding adjustments – derivatives

Derivatives are generally valued using models that use as their basis observable market parameters. These market parameters generally do not consider factors such as counterparty nonperformance risk, the Firm's own credit quality, and funding costs. Therefore, it is generally necessary to make adjustments to the base estimate of fair value to reflect these factors.

CVA represents the adjustment, relative to the relevant benchmark interest rate, necessary to reflect counterparty nonperformance risk. The Firm estimates CVA using a scenario analysis to estimate the expected positive credit exposure across all of the Firm's existing positions with each counterparty, and then estimates losses based on the probability of default and estimated recovery rate as a result of a counterparty credit event considering contractual factors designed to mitigate the Firm's credit exposure, such as collateral and legal rights of offset. The key inputs to this methodology are (i) the probability of a default event occurring for each counterparty, as derived from observed or estimated CDS spreads; and (ii) estimated recovery rates implied by CDS spreads, adjusted to consider the differences in recovery rates as a derivative creditor relative to those reflected in CDS spreads, which generally reflect senior unsecured creditor risk.

FVA represents the adjustment to reflect the impact of funding and is recognized where there is evidence that a market participant in the principal market would incorporate it in a transfer of the instrument. The Firm's FVA framework, applied to uncollateralized (including partially collateralized) over-the-counter ("OTC") derivatives incorporates key inputs such as: (i) the expected funding requirements arising from the Firm's positions with each counterparty and collateral arrangements; and (ii) the estimated market funding cost in the principal

The following table provides the impact of credit and funding adjustments on principal transactions revenue in the respective periods, excluding the effect of any associated hedging activities. The FVA presented below includes the impact of the Firm's own credit quality on the inception value of liabilities as well as the impact of changes in the Firm's own credit quality over time.

Year ended December 31, (in millions)			
	2024	2023	2022
Credit and funding adjustments:			
Derivatives CVA	\$ 29	\$ 221	\$ 22
Derivatives FVA	99	114	42

### Valuation adjustments on fair value option elected liabilities

The valuation of the Firm's liabilities for which the fair value option has been elected requires consideration of the Firm's own credit risk. DVA on fair value option elected liabilities reflects changes (subsequent to the issuance of the liability) in the Firm's probability of default and LGD, which are estimated based on changes in the Firm's credit spread observed in the bond market. Realized (gains)/losses due to DVA for fair value option elected liabilities are reported in principal transactions revenue. Unrealized (gains)/losses are reported in OCI. Refer to page 196 in this Note and Note 24 for further information.



### Assets and liabilities measured at fair value on a nonrecurring basis

The following tables present the assets held as of December 31, 2024 and 2023, for which nonrecurring fair value adjustments were recorded during the years ended December 31, 2024 and 2023, by major product category and fair value hierarchy. There were no liabilities measured at fair value on a nonrecurring basis at both December 31, 2024 and 2023.

December 31, 2024 (in millions)	Fair value hierarchy			Total fair value
	Level 1	Level 2	Level 3	
Loans	\$ —	\$ 738	\$ 694	\$ 1,432
Other assets <sup>(a)</sup>	—	9	1,048	1,057
<b>Total assets measured at fair value on a nonrecurring basis</b>	<b>\$ —</b>	<b>\$ 747</b>	<b>\$ 1,742</b>	<b>\$ 2,489</b>

December 31, 2023 (in millions)	Fair value hierarchy			Total fair value
	Level 1	Level 2	Level 3	
Loans	\$ —	\$ 599	\$ 1,156	\$ 1,755
Other assets	—	52	1,334	1,386
<b>Total assets measured at fair value on a nonrecurring basis</b>	<b>\$ —</b>	<b>\$ 651</b>	<b>\$ 2,490</b>	<b>\$ 3,141</b>

(a) Included equity securities without readily determinable fair values that were adjusted based on observable price changes in orderly transactions from an identical or similar investment of the same issuer (measurement alternative). Of the \$1.0 billion in level 3 assets measured at fair value on a nonrecurring basis as of December 31, 2024, \$668 million related to equity securities adjusted based on the measurement alternative. These equity securities are classified as level 3 due to the infrequency of the observable prices and/or the restrictions on the shares. Also, included impairments on certain equity method investments.

### Nonrecurring fair value changes

The following table presents the total change in value of assets and liabilities for which fair value adjustments have been recognized for the years ended December 31, 2024, 2023 and 2022, related to assets and liabilities held at those dates.

December 31, (in millions)	2024	2023	2022
Loans	\$ (302)	\$ (276)	\$ (55)
Other assets <sup>(a)</sup>	(610)	(789)	(409)
Accounts payable and other liabilities	—	—	(83)
<b>Total nonrecurring fair value gains/ (losses)</b>	<b>\$ (912)</b>	<b>\$ (1,065)</b>	<b>\$ (547)</b>

(a) Included \$(197) million, \$(232) million and \$(338) million for the years ended December 31, 2024, 2023 and 2022, respectively, of net gains/(losses) as a result of the measurement alternative. The current period also included impairments on certain equity method investments.

## Notes to consolidated financial statements

### Equity securities without readily determinable fair values

The Firm measures certain equity securities without readily determinable fair values at cost less impairment (if any), plus or minus observable price changes from an identical or similar investment of the same issuer (i.e., measurement alternative), with such changes recognized in other income.

In its determination of the new carrying values upon observable price changes, the Firm may adjust the prices if deemed necessary to arrive at the Firm's estimated fair values. Such adjustments may include adjustments to reflect the different rights and obligations of similar securities, and other adjustments that are consistent with the Firm's valuation techniques for private equity direct investments.

The following table presents the carrying value of equity securities without readily determinable fair values held as of December 31, 2024 and 2023, that are measured under the measurement alternative and the related adjustments recorded during the periods presented for those securities with observable price changes. These securities are included in the nonrecurring fair value tables when applicable price changes are observable.

As of or for the year ended December 31,			
(in millions)		2024	2023
<b>Other assets</b>			
Carrying value <sup>(a)</sup>	\$	3,737	\$ 4,457
Upward carrying value changes <sup>(b)</sup>		89	93
Downward carrying value changes/impairment <sup>(c)</sup>		(286)	(325)

(a) The period-end carrying values reflect cumulative purchases and sales in addition to upward and downward carrying value changes.

(b) The cumulative upward carrying value changes between January 1, 2018 and December 31, 2024 were \$1.1 billion.

(c) The cumulative downward carrying value changes/impairment between January 1, 2018 and December 31, 2024 were \$(1.5) billion.

Included in other assets above is the Firm's interest in approximately 18.6 million Visa Class B-2 common shares ("Visa B-2 shares") and 37.2 million Visa Class B common shares ("Visa B shares") reflected in the Firm's principal investment portfolio as of December 31, 2024 and 2023, respectively.

The Visa B shares were redenominated to Visa Class B-1 common shares ("Visa B-1 shares") on January 24, 2024. On April 8, 2024, Visa commenced an initial exchange offer for any and all outstanding Visa B-1 shares. On May 6, 2024, the Firm announced that Visa had accepted the Firm's tender of its 37.2 million Visa B-1 shares in exchange for a combination of Visa B-2 shares and Visa Class C common shares ("Visa C shares"), resulting in an initial gain of \$8.0 billion based on the fair value of the Visa C shares. In addition, the second quarter of 2024 also reflected other Visa-related activity, including the fair value changes of the Visa C shares and derivative instruments, as well as dividends, resulting in the \$7.9 billion net gain on Visa shares in the quarter. As of September 30, 2024, the Firm had disposed of all of its Visa C shares through sales in the second and third quarters of 2024 and



through a \$1.0 billion contribution to the Firm's Foundation in the second quarter of 2024.

The Visa B-2 shares are subject to certain transfer restrictions and are convertible into Visa Class A common shares ("Visa A shares") at a specified conversion rate upon final resolution of certain litigation matters involving Visa. The conversion rate of Visa B-2 shares to Visa A shares was 1.5430 at December 31, 2024 and may be adjusted by Visa depending on developments related to the litigation matters. The outcome of those litigation matters, and the effect that the resolution of those matters may have on the conversion rate, is unknown. Accordingly, as of December 31, 2024, there is significant uncertainty regarding when the transfer restrictions on Visa B-2 shares may be terminated and what the final conversion rate for the Visa B-2 shares will be. As a result of these considerations, as well as differences in voting rights, Visa B-2 shares are not considered to be similar to Visa A shares, and are held at their nominal carryover basis.

Separately, in connection with sales of Visa B shares prior to 2024, the Firm has entered into derivative instruments with the purchasers of the shares under which the Firm retains the risk associated with changes in the conversion rate. Under the terms of the derivative instruments, the Firm will (a) make or receive payments based on subsequent changes in the conversion rate and (b) make periodic interest payments to the purchasers of the Visa B shares. The payments under the derivative instruments will continue as long as the Visa B-2 shares associated with the previously sold Visa B shares remain subject to transfer restrictions. The derivative instruments are accounted for at fair value using a discounted cash flow methodology based upon the Firm's estimate of the timing and magnitude of final resolution of the litigation matters. The derivative instruments are recorded in trading liabilities, and changes in fair value are recognized in other income. The notional amount of shares associated with those derivative instruments has been adjusted as a result of the Visa exchange offer. As of December 31, 2024, the Firm held derivative instruments associated with 11.6 million Visa B-2 shares related to Visa B share sales prior to 2024, which are all subject to similar terms and conditions.

**Additional disclosures about the fair value of financial instruments that are not carried on the Consolidated balance sheets at fair value**

U.S. GAAP requires disclosure of the estimated fair value of certain financial instruments, which are included in the following table. However, this table does not include other items, such as nonfinancial assets, intangible assets, certain financial instruments, and customer relationships. In the opinion of management, these items, in the aggregate, add significant value to JPMorganChase.

*Financial instruments for which carrying value approximates fair value*

Certain financial instruments that are not carried at fair value on the Consolidated balance sheets are carried

at amounts that approximate fair value, due to their short-term nature and generally negligible credit risk. These instruments include cash and due from banks, deposits with banks, federal funds sold, securities purchased under resale agreements and securities borrowed, short-term receivables and accrued interest receivable, short-term borrowings, federal funds purchased, securities loaned and sold under repurchase agreements, accounts payable, and accrued liabilities. In addition, U.S. GAAP requires that the fair value of deposit liabilities with no stated maturity (i.e., demand, savings and certain money market deposits) be equal to their carrying value; recognition of the inherent funding value of these instruments is not permitted.

The following table presents, by fair value hierarchy classification, the carrying values and estimated fair values at December 31, 2024 and 2023, of financial assets and liabilities, excluding financial instruments that are carried at fair value on a recurring basis, and their classification within the fair value hierarchy.

[illegible]

- (a) Fair value is typically estimated using a discounted cash flow model that incorporates the characteristics of the underlying loans (including principal, contractual interest rate and contractual fees) and other key inputs, including expected lifetime credit losses, interest rates, prepayment rates, and primary origination or secondary market spreads. For certain loans, the fair value is measured based on the value of the underlying collateral. Carrying value of the loan takes into account the loan's allowance for loan losses, which represents the loan's expected credit losses over its remaining expected life. The difference between the estimated fair value and carrying value of a loan is generally attributable to changes in market interest rates, including credit spreads, market liquidity premiums and other factors that affect the fair value of a loan but do not affect its carrying value.
- (b) Excludes lending-related commitments disclosed in the table below.

## Notes to consolidated financial statements

The majority of the Firm's lending-related commitments are not carried at fair value on a recurring basis on the Consolidated balance sheets. The carrying value and the estimated fair value of these wholesale lending-related commitments were as follows for the periods indicated.

December 31, 2024						December 31, 2023					
Estimated fair value hierarchy						Estimated fair value hierarchy					
Carrying value <sup>(a)</sup>		Total estimated fair value				Carrying value <sup>(a)</sup>		Total estimated fair value			
(in billions)	(b)(c)	Level 1	Level 2	Level 3	value	(b)(c)	Level 1	Level 2	Level 3	value	
Wholesale lending-related commitments	\$ 2.7	\$ —	\$ —	\$ 4.4	\$ 4.4	\$ 3.0	\$ —	\$ —	\$ 4.8	\$ 4.8	

(a) Excludes the current carrying values of the guarantee liability and the offsetting asset, each of which is recognized at fair value at the inception of the guarantees.

(b) Includes the wholesale allowance for lending-related commitments.

(c) As of December 31, 2024 and 2023, included fair value adjustments associated with First Republic for other unfunded commitments to extend credit totaling \$699 million and \$1.1 billion, respectively, recorded in accounts payable and other liabilities on the Consolidated balance sheets. Refer to Notes 28 and 34 for additional information.

The Firm does not estimate the fair value of consumer off-balance sheet lending-related commitments. In many cases, the Firm can reduce or cancel these commitments with or without notice to the borrower, as permitted by law, or in accordance with the contract. Refer to page 183 of this Note for a further discussion of the valuation of lending-related commitments.

### **Note 3 – Fair value option**

The fair value option provides an option to elect fair value for selected financial assets, financial liabilities, unrecognized firm commitments, and written loan commitments.

The Firm has elected to measure certain instruments at fair value for several reasons including to mitigate income statement volatility caused by the differences between the measurement basis of elected instruments (e.g., certain instruments that otherwise would be accounted for on an accrual basis) and the associated risk management arrangements that are accounted for on a fair value basis, as well as to better reflect those instruments that are managed on a fair value basis.

The Firm's election of fair value includes the following instruments:

- Loans purchased or originated as part of securitization warehousing activity, subject to bifurcation accounting, or managed on a fair value basis, including lending-related commitments
- Certain securities financing agreements
- Owned beneficial interests in securitized financial assets that contain embedded credit derivatives, which would otherwise be required to be separately accounted for as a derivative instrument
- Structured notes and other hybrid instruments, which are predominantly financial instruments that contain embedded derivatives, that are issued or transacted as part of client-driven activities
- Certain long-term beneficial interests issued by CIB's consolidated securitization trusts where the underlying assets are carried at fair value

**Notes to consolidated financial statements**

**Changes in fair value under the fair value option election**

The following table presents the changes in fair value included in the Consolidated statements of income for the years ended December 31, 2024, 2023 and 2022, for items for which the fair value option was elected. The profit and loss information presented below only includes the financial instruments that were elected to be measured at fair value; related risk management instruments, which are required to be measured at fair value, are not included in the table.





- (a) Unrealized gains/(losses) due to instrument-specific credit risk (DVA) for liabilities for which the fair value option has been elected are recorded in OCI, while realized gains/(losses) are recorded in principal transactions revenue. Realized gains/(losses) due to instrument-specific credit risk recorded in principal transactions revenue were not material for the years ended December 31, 2024, 2023 and 2022.
- (b) Long-term debt measured at fair value predominantly relates to structured notes. Although the risk associated with the structured notes is actively managed, the gains/(losses) reported in this table do not include the income statement impact of the risk management instruments used to manage such risk.
- (c) Reported in mortgage fees and related income.
- (d) Reported in other income.
- (e) Changes in fair value exclude contractual interest, which is included in interest income and interest expense for all instruments other than certain hybrid financial instruments in CIB. Refer to Note 7 for further information regarding interest income and interest expense.

**Determination of instrument-specific credit risk for items for which the fair value option was elected**

The following describes how the gains and losses that are attributable to changes in instrument-specific credit risk, were determined.

- Loans and lending-related commitments: For floating-rate instruments, all changes in value are attributed to instrument-specific credit risk. For fixed-rate instruments, an allocation of the changes in value for the period is made between those changes in value that are interest rate-related and changes in value that are credit-related. Allocations are generally based on an analysis of borrower-specific credit spread and recovery information,

where available, or benchmarking to similar entities or industries.

- Long-term debt: Changes in value attributable to instrument-specific credit risk were derived principally from observable changes in the Firm's credit spread as observed in the bond market.
- Securities financing agreements: Generally, for these types of agreements, there is a requirement that collateral be maintained with a market value equal to or in excess of the principal amount loaned; as a result, there would be no adjustment or an immaterial adjustment for instrument-specific credit risk related to these agreements.

**Difference between aggregate fair value and aggregate remaining contractual principal balance outstanding**

The following table reflects the difference between the aggregate fair value and the aggregate remaining contractual principal balance outstanding as of December 31, 2024 and 2023, for loans, long-term debt and long-term beneficial interests for which the fair value option has been elected.

		2024			2023		
		Contractual	Fair	Fair value	Contractual	Fair	Fair value
December	31,	(in principal	value	over/	principal	value	over/
millions)		outstanding		(under)	outstanding		(under)
				contractual			contractual
				principal	principal	principal	principal
				outstanding	outstanding	outstanding	outstanding
Loans							
Nonaccrual loans							
Loans reported as							
trading assets		\$	3,429	\$	464	\$	(2,965)
Loans			1,711		1,492		(219)
						838	
						732	(106)
Subtotal			5,140		1,956		(3,184)
						3,825	
						1,320	(2,505)
90 or more days past due							
and government							
guaranteed							
Loans <sup>(a)</sup>			50		45		(5)
						65	
						59	(6)
All other performing							
loans <sup>(b)</sup>							
Loans reported as							
trading assets			12,171		10,852		(1,319)
						9,547	
						7,968	(1,579)
Loans <sup>(c)</sup>			40,342		39,813		(529)
						38,948	
						38,060	(888)
Subtotal			52,513		50,665		(1,848)
						48,495	
						46,028	(2,467)
Total loans		\$	57,703	\$	52,666	\$	(5,037)
						52,385	
						\$ 47,407	\$ (4,978)
Long-term debt							
Principal-protected							
debt		\$	57,414 <sup>(e)</sup>	\$	47,780	\$	(9,634)
						\$ 47,768 <sup>(e)</sup>	\$ 38,882
							\$ (8,886)
Nonprincipal-protected							
debt <sup>(d)</sup>			NA		53,000		NA
						NA	
						49,042	NA
Total long-term debt			NA		\$100,780		NA
						NA	
						\$ 87,924	NA
Long-term beneficial							
interests							
Nonprincipal-protected							
debt <sup>(d)</sup>			NA	\$	1		NA
						NA	
						\$ 1	NA
Total long-term							
beneficial interests			NA	\$	1		NA
						NA	
						\$ 1	NA

(a) These balances are excluded from nonaccrual loans as the loans are insured and/or guaranteed by U.S. government agencies.

(b) There were no performing loans that were ninety days or more past due as of December 31, 2024 and 2023.

(c) Includes loans insured and/or guaranteed by U.S. government agencies less than 90 days past due.

(d) Remaining contractual principal is not applicable to nonprincipal-protected structured notes and long-term beneficial interests. Unlike principal-protected structured notes and long-term beneficial interests, for which the Firm is obligated to return a stated amount of principal at maturity, nonprincipal-protected structured notes and long-term beneficial interests do not obligate the Firm to return a stated amount of principal at maturity, but for structured notes

to return an amount based on the performance of an underlying variable or derivative feature embedded in the note. However, investors are exposed to the credit risk of the Firm as issuer for both nonprincipal-protected and principal-protected notes.

(e) Where the Firm issues principal-protected zero-coupon or discount notes, the balance reflects the contractual principal payment at maturity or, if applicable, the contractual principal payment at the Firm's next call date.

At December 31, 2024 and 2023, the contractual amount of lending-related commitments for which the fair value option was elected was \$12.2 billion and \$9.7 billion, respectively, with a corresponding fair value of \$50 million and \$97 million, respectively. Refer to Note 28 for further information regarding off-balance sheet lending-related financial instruments.

## Notes to consolidated financial statements

### Structured note products by balance sheet classification and risk component

The following table presents the fair value of structured notes, by balance sheet classification and the primary risk type.

(in millions)	December 31, 2024				December 31, 2023			
	Long-term debt	Short-term borrowings	Deposits	Total	Long-term debt	Short-term borrowings	Deposits	Total
<b>Risk exposure</b>								
Interest rate	\$ 46,220	\$ 1,065	\$28,871	\$ 76,156	\$38,604	\$ 654	\$74,526	\$113,784
Credit	6,213	1,242	—	7,455	5,444	350	—	5,794
Foreign exchange	2,309	1,058	416	3,783	2,605	941	187	3,733
Equity	44,149	7,881	2,986	55,016	38,685	5,483	2,905	47,073
Commodity	1,331	62	1 <sup>(a)</sup>	1,394	1,862	11	1 <sup>(a)</sup>	1,874
<b>Total structured notes</b>	<b>\$100,222</b>	<b>\$ 11,308</b>	<b>\$32,274</b>	<b>\$143,804</b>	<b>\$87,200</b>	<b>\$ 7,439</b>	<b>\$77,619</b>	<b>\$172,258</b>

(a) Excludes deposits linked to precious metals for which the fair value option has not been elected of \$869 million and \$627 million for the years ended December 31, 2024 and 2023, respectively.

## Note 4 – Credit risk concentrations

Concentrations of credit risk arise when a number of clients, counterparties or customers are engaged in similar business activities or activities in the same geographic region, or when they have similar economic features that would cause their ability to meet contractual obligations to be similarly affected by changes in economic conditions.

JPMorganChase regularly monitors various segments of its credit portfolios to assess potential credit risk concentrations and to obtain additional collateral when deemed necessary and permitted under the Firm's agreements. Senior management is significantly involved in the credit approval and review process, and risk levels are adjusted as needed to reflect the Firm's risk appetite.

In the Firm's consumer portfolio, concentrations are managed primarily by product and by U.S. geographic region, with a key focus on trends and concentrations at the portfolio level, where potential credit risk concentrations can be remedied through changes in underwriting policies and portfolio guidelines. Refer to Note 12 for additional information on the geographic composition of the Firm's consumer loan portfolios. In the wholesale portfolio, credit risk concentrations are evaluated primarily by industry and monitored regularly on both an aggregate portfolio level and on an individual client or counterparty basis.

The Firm's wholesale exposure is managed through loan syndications and participations, loan sales, securitizations, credit derivatives, master netting agreements, collateral and other risk-reduction techniques. Refer to Note 12 for additional information on loans.

The Firm does not believe that its exposure to any particular loan product or industry segment results in a significant concentration of credit risk.

Terms of loan products and collateral coverage are included in the Firm's assessment when extending credit and establishing its allowance for credit losses. Refer to Note 13 for additional information on the allowance for credit losses.

**Notes to consolidated financial statements**

The table below presents both on-balance sheet and off-balance sheet consumer and wholesale credit exposure by the Firm’s three credit portfolio segments as of December 31, 2024 and 2023. The wholesale industry of risk category is generally based on the client or counterparty’s primary business activity.

December 31, (in millions)	2024				2023			
	Credit exposure <sup>(h)</sup>	On-balance sheet		Off-balance sheet <sup>(i)</sup>	Credit exposure <sup>(h)</sup>	On-balance sheet		Off-balance sheet <sup>(i)</sup>
		Loans	Derivatives			Loans	Derivatives	
<b>Consumer, excluding credit card</b>	\$ 437,654	\$ 392,810	\$ —	\$ 44,844	\$ 455,496	\$ 410,093	\$ —	\$ 45,403
<b>Credit card<sup>(a)</sup></b>	<b>1,234,171</b>	<b>232,860</b>	<b>—</b>	<b>1,001,311</b>	<b>1,126,781</b>	<b>211,123</b>	<b>—</b>	<b>915,658</b>
<b>Total consumer<sup>(a)</sup></b>	<b>1,671,825</b>	<b>625,670</b>	<b>—</b>	<b>1,046,155</b>	<b>1,582,277</b>	<b>621,216</b>	<b>—</b>	<b>961,061</b>
<b>Wholesale<sup>(b)</sup></b>								
Real Estate	207,050	169,506	310	37,234	208,261	166,372	420	41,469
Individuals and Individual Entities <sup>(c)</sup>	144,145	130,317	1,259	12,569	145,849	126,339	725	18,785
Asset Managers	135,541	58,720	15,695	61,126	129,574	52,178	9,925	67,471
Consumer & Retail	129,815	46,509	1,608	81,698	127,086	46,274	2,013	78,799
Technology, Media & Telecommunications	84,716	21,449	2,448	60,819	77,296	22,450	2,451	52,395
Industrials	72,530	24,011	2,035	46,484	75,092	26,548	1,335	47,209
Healthcare	64,224	23,243	616	40,365	65,025	23,169	1,577	40,279
Banks & Finance Companies	61,287	40,239	3,890	17,158	57,177	33,941	2,898	20,338
Utilities	35,871	6,172	2,631	27,068	36,061	7,067	3,396	25,598
State & Municipal Govt <sup>(d)</sup>	35,039	19,279	372	15,388	35,986	20,019	442	15,525
Automotive	34,336	17,696	794	15,846	33,977	17,459	428	16,090
Oil & Gas	31,724	7,226	1,153	23,345	34,475	8,480	705	25,290
Insurance	24,267	2,533	9,703	12,031	20,501	2,535	7,138	10,828
Chemicals & Plastics	20,782	6,176	267	14,339	20,773	6,458	441	13,874
Transportation	17,019	5,380	769	10,870	16,060	5,080	555	10,425
Metals & Mining	15,860	4,425	564	10,871	15,508	4,655	274	10,579
Central Govt	13,862	4,715	6,285	2,862	17,704	5,463	10,669	1,572
Securities Firms	9,443	1,878	3,197	4,368	8,689	865	3,285	4,539
Financial Markets Infrastructure	4,446	16	2,410	2,020	4,251	86	2,155	2,010
All other <sup>(e)</sup>	140,873	100,906	4,961	35,006	134,777	97,034	4,032	33,711
<b>Subtotal</b>	<b>1,282,830</b>	<b>690,396</b>	<b>60,967</b>	<b>531,467</b>	<b>1,264,122</b>	<b>672,472</b>	<b>54,864</b>	<b>536,786</b>
Loans held-for-sale and loans at fair value	31,922	31,922	—	—	30,018	30,018	—	—
Receivables from customers <sup>(f)</sup>	51,929	—	—	—	47,625	—	—	—
<b>Total wholesale</b>	<b>1,366,681</b>	<b>722,318</b>	<b>60,967</b>	<b>531,467</b>	<b>1,341,765</b>	<b>702,490</b>	<b>54,864</b>	<b>536,786</b>
<b>Total exposure<sup>(g)</sup></b>	<b>\$3,038,506</b>	<b>\$1,347,988</b>	<b>\$ 60,967</b>	<b>\$1,577,622</b>	<b>\$2,924,042</b>	<b>\$1,323,706</b>	<b>\$ 54,864</b>	<b>\$1,497,847</b>



- (a) Also includes commercial card lending-related commitments primarily in CIB.
- (b) The industry rankings presented in the table as of December 31, 2023, are based on the industry rankings of the corresponding exposures at December 31, 2024, not actual rankings of such exposures at December 31, 2023.
- (c) Individuals and Individual Entities predominantly consists of Global Private Bank clients within AWM and J.P. Morgan Wealth Management within CCB, and includes exposure to personal investment companies and personal and testamentary trusts.
- (d) In addition to the credit risk exposure to states and municipal governments (both U.S. and non-U.S.) at December 31, 2024 and 2023, noted above, the Firm held: \$6.1 billion and \$5.9 billion, respectively, of trading assets; \$17.9 billion and \$21.4 billion, respectively, of AFS securities; and \$9.3 billion and \$9.9 billion, respectively, of HTM securities, issued by U.S. state and municipal governments. Refer to Note 2 and Note 10 for further information.
- (e) All other includes: SPEs and Private education and civic organizations, representing approximately 94% and 6%, respectively, at both December 31, 2024 and 2023. Refer to Note 14 for more information on exposures to SPEs.
- (f) Receivables from customers reflect held-for-investment margin loans to brokerage clients in CIB, CCB and AWM that are collateralized by assets maintained in the clients' brokerage accounts (including cash on deposit, and primarily liquid and readily marketable debt or equity securities).
- (g) Excludes cash placed with banks of \$459.2 billion and \$614.1 billion, at December 31, 2024 and 2023, respectively, which is predominantly placed with various central banks, primarily Federal Reserve Banks.
- (h) Credit exposure is net of risk participations and excludes the benefit of credit derivatives used in credit portfolio management activities held against derivative receivables or loans and liquid securities and other cash collateral held against derivative receivables.
- (i) Represents lending-related financial instruments.

**Note 5 - Derivative instruments**

Derivative contracts derive their value from underlying asset prices, indices, reference rates, other inputs or a combination of these factors and may expose counterparties to risks and rewards of an underlying asset or liability without having to initially invest in, own or exchange the asset or liability. JPMorganChase makes markets in derivatives for clients and also uses derivatives to hedge or manage its own risk exposures. Predominantly all of the Firm's derivatives are entered into for market-making or risk management purposes.

#### *Market-making derivatives*

The majority of the Firm's derivatives are entered into for market-making purposes. Clients use derivatives to mitigate or modify interest rate, credit, foreign exchange, equity and commodity risks. The Firm actively manages the risks from its exposure to these derivatives by entering into other derivative contracts or by purchasing or selling other financial instruments that partially or fully offset the exposure from client derivatives.

#### *Risk management derivatives*

The Firm manages certain market and credit risk exposures using derivative instruments, including derivatives in hedge accounting relationships and other derivatives that are used to manage risks associated with specified assets and liabilities.

The Firm generally uses interest rate derivatives to manage the risk associated with changes in interest rates. Fixed-rate assets and liabilities appreciate or depreciate in market value as interest rates change. Similarly, interest income and expense increase or decrease as a result of variable-rate assets and liabilities resetting to current market rates, and as a result of the repayment and subsequent origination or issuance of fixed-rate assets and liabilities at current market rates. Gains and losses on the derivative instruments related to these assets and liabilities are expected to

substantially offset the depreciation or appreciation of the related inventory.

Credit derivatives are used to manage the counterparty credit risk associated with loans and lending-related commitments. Credit derivatives compensate the purchaser when the entity referenced in the contract experiences a credit event, such as bankruptcy or a failure to pay an obligation when due. Credit derivatives primarily consist of CDS. Refer to the Credit derivatives section on pages 222-224 of this Note for a further discussion of credit derivatives.

Refer to the risk management derivatives gains and losses table on page 221 and the hedge accounting gains and losses tables on pages 218-221 of this Note for more information about risk management derivatives.

#### *Derivative counterparties and settlement types*

The Firm enters into OTC derivatives, which are negotiated and settled bilaterally with the derivative counterparty. The Firm also enters into, as principal, certain ETD such as futures and options, and OTC-cleared derivative contracts with CCPs. ETD contracts are generally standardized contracts traded on an exchange and cleared by the CCP, which is the Firm's counterparty from the inception of the transactions. OTC-cleared derivatives are traded on a bilateral basis and then novated to the CCP for clearing.

#### *Derivative clearing services*

The Firm provides clearing services for clients in which the Firm acts as a clearing member at certain exchanges and clearing houses. The Firm does not reflect the clients' derivative contracts in its Consolidated Financial Statements. Refer to Note 28 for further information on the Firm's clearing services.

#### **Accounting for derivatives**

All free-standing derivatives that the Firm executes for its own account are required to be recorded on the Consolidated balance sheets at fair



**Notes to consolidated financial statements**

#### *Derivatives designated as hedges*

The Firm applies hedge accounting to certain derivatives executed for risk management purposes – generally interest rate, foreign exchange and commodity derivatives. However, JPMorganChase does not seek to apply hedge accounting to all of the derivatives associated with the Firm's risk management activities. For example, the Firm does not apply hedge accounting to purchased CDS used to manage the credit risk of loans and lending-related commitments, because of the difficulties in qualifying such contracts as hedges. For the same reason, the Firm does not apply hedge accounting to certain interest rate, foreign exchange, and commodity derivatives used for risk management purposes.

To qualify for hedge accounting, a derivative must be highly effective at reducing the risk associated with the exposure being hedged. In addition, for a derivative to be designated as a hedge, the risk management objective and strategy must be documented. Hedge documentation must identify the derivative hedging instrument, the asset or liability or forecasted transaction and type of risk to be hedged, and how the effectiveness of the derivative is assessed prospectively and retrospectively. To assess effectiveness, the Firm uses statistical methods such as regression analysis, nonstatistical methods such as dollar-value comparisons of the change in the fair value of the derivative to the change in the fair value or cash flows of the hedged item, and qualitative comparisons of critical terms and the evaluation of any changes in those terms. The extent to which a derivative has been, and is expected to continue to be, highly effective at offsetting changes in the fair value or cash flows of the hedged item must be assessed and documented at least quarterly. If it is determined that a derivative is not highly effective at hedging the designated exposure, hedge accounting is discontinued.

The Firm employs the portfolio layer method to manage the interest rate risk of portfolios of fixed-rate assets. Throughout the life of the open hedge, basis adjustments are maintained at the portfolio level and are only allocated to individual assets under certain circumstances. These include instances where the portfolio amount falls below the hedged layer amounts, or in cases of voluntary de-designation.

JPMorganChase uses cash flow hedges primarily to hedge the exposure to variability in forecasted cash flows from floating-rate assets and liabilities and foreign currency-denominated revenue and expense. For qualifying cash flow hedges, changes in the fair value of the derivative are recorded in OCI and recognized in earnings as the hedged item affects earnings. Derivative amounts affecting earnings are recognized consistent with the classification of the hedged item – primarily noninterest revenue, net interest income and compensation expense. If the hedge relationship is terminated, then the change in value of the derivative recorded in AOCI is recognized in earnings when the cash flows that were hedged affect earnings. For hedge relationships that are discontinued because a forecasted transaction is expected to not occur according to the original hedge forecast, any related derivative values recorded in AOCI are immediately recognized in earnings.

JPMorganChase uses net investment hedges to protect the value of the Firm's net investments in certain non-U.S. subsidiaries or branches whose functional currencies are not the U.S. dollar. For qualifying net investment hedges, changes in the fair value of the derivatives due to changes in spot foreign exchange rates are recorded in OCI as translation adjustments. Amounts excluded from the assessment of effectiveness are recorded directly in earnings.



The following table outlines the Firm's primary uses of derivatives and the related hedge accounting designation or disclosure category.

Type of Derivative	Use of Derivative	Designation and disclosure	Affected segment or unit	Page reference
Manage specifically identified risk exposures in qualifying hedge accounting relationships:				
• Interest rate	Hedge fixed rate assets and liabilities	Fair value hedge	Corporate	218-219
• Interest rate	Hedge floating-rate assets and liabilities	Cash flow hedge	Corporate	220
• Foreign exchange	Hedge foreign currency-denominated assets and liabilities	Fair value hedge	Corporate	218-219
• Foreign exchange	Hedge foreign currency-denominated forecasted revenue and expense	Cash flow hedge	Corporate	220
• Foreign exchange	Hedge the value of the Firm's investments in non-U.S. dollar functional currency entities	Net investment hedge	Corporate	221
• Commodity	Hedge commodity inventory	Fair value hedge	CIB, AWM	218-219
Manage specifically identified risk exposures not designated in qualifying hedge accounting relationships:				
• Interest rate	Manage the risk associated with mortgage commitments, warehouse loans and MSR	Specified risk management	CCB	221
• Credit	Manage the credit risk associated with wholesale lending exposures	Specified risk management	CIB, AWM	221
• Interest rate and foreign exchange	Manage the risk associated with certain other specified assets and liabilities	Specified risk management	Corporate, CIB	221
Market-making derivatives and other activities:				
• Various	Market-making and related risk management	Market-making and other	CIB	221
• Various	Other derivatives	Market-making and other	CIB, AWM, Corporate	221



**Notes to consolidated financial statements**

*Notional amount of derivative contracts*

The following table summarizes the notional amount of free-standing derivative contracts outstanding as of December 31, 2024 and 2023.

December 31, (in billions)	Notional amounts <sup>(b)</sup>	
	2024	2023
<b>Interest rate contracts</b>		
Swaps	\$ 20,437	\$ 23,251
Futures and forwards	3,067	2,690
Written options	3,067	3,370
Purchased options	3,089	3,362
<b>Total interest rate contracts</b>	<b>29,660</b>	<b>32,673</b>
<b>Credit derivatives<sup>(a)</sup></b>	<b>1,191</b>	<b>1,045</b>
<b>Foreign exchange contracts</b>		
Cross-currency swaps	4,509	4,721
Spot, futures and forwards	7,005	6,957
Written options	1,015	830
Purchased options	984	798
<b>Total foreign exchange contracts</b>	<b>13,513</b>	<b>13,306</b>
<b>Equity contracts</b>		
Swaps	850	639
Futures and forwards	206	157
Written options	914	778
Purchased options	788	698
<b>Total equity contracts</b>	<b>2,758</b>	<b>2,272</b>
<b>Commodity contracts</b>		
Swaps	148	115
Spot, futures and forwards	191	157
Written options	137	130
Purchased options	125	115
<b>Total commodity contracts</b>	<b>601</b>	<b>517</b>
<b>Total derivative notional amounts</b>	<b>\$ 47,723</b>	<b>\$ 49,813</b>

(a) Refer to the Credit derivatives discussion on pages 222-224 for more information on volumes and types of credit derivative contracts.

(b) Represents the sum of gross long and gross short third-party notional derivative contracts.



**Impact of derivatives on the Consolidated balance sheets**

The following table summarizes information on derivative receivables and payables (before and after netting adjustments) that are reflected on the Firm's Consolidated balance sheets as of December 31, 2024 and 2023, by accounting designation (e.g., whether the derivatives were designated in qualifying hedge accounting relationships or not) and contract type.

*Free-standing derivative receivables and payables<sup>(a)</sup>*

December 31, 2024 (in millions)	Gross derivative receivables				Gross derivative payables			
	Not designated as hedges	Designated as hedges	Total derivative receivables	Net derivative receivables <sup>(b)</sup>	Not designated as hedges	Designated as hedges	Total derivative payables	Net derivative payables <sup>(b)</sup>
<b>Trading assets and liabilities</b>								
Interest rate	\$ 290,734	\$ —	\$ 290,734	\$ 24,945	\$ 274,226	\$ 2	\$ 274,228	\$ 9,239
Credit	11,087	—	11,087	814	13,796	—	13,796	1,898
Foreign exchange	261,035	1,885	262,920	25,312	253,289	1,278	254,567	15,597
Equity	85,220	—	85,220	5,285	96,139	—	96,139	8,648
Commodity	15,490	136	15,626	4,611	14,415	73	14,488	4,279
<b>Total fair value of trading assets and liabilities</b>	<b>\$ 663,566</b>	<b>\$ 2,021</b>	<b>\$ 665,587</b>	<b>\$ 60,967</b>	<b>\$ 651,865</b>	<b>\$ 1,353</b>	<b>\$ 653,218</b>	<b>\$ 39,661</b>

December 31, 2023 (in millions)	Gross derivative receivables				Gross derivative payables			
	Not designated as hedges	Designated as hedges	Total derivative receivables	Net derivative receivables <sup>(b)</sup>	Not designated as hedges	Designated as hedges	Total derivative payables	Net derivative payables <sup>(b)</sup>
<b>Trading assets and liabilities</b>								
Interest rate	\$ 250,689	\$ 2	\$ 250,691	\$ 26,324	\$ 240,482	\$ —	\$ 240,482	\$ 11,896
Credit	9,654	—	9,654	551	12,038	—	12,038	1,089
Foreign exchange	205,010	765	205,775	18,019	210,623	1,640	212,263	12,620
Equity	57,689	—	57,689	4,928	65,811	—	65,811	9,368
Commodity	15,228	211	15,439	5,042	16,286	92	16,378	5,874
<b>Total fair value of trading assets and liabilities</b>	<b>\$ 538,270</b>	<b>\$ 978</b>	<b>\$ 539,248</b>	<b>\$ 54,864</b>	<b>\$ 545,240</b>	<b>\$ 1,732</b>	<b>\$ 546,972</b>	<b>\$ 40,847</b>

(a) Balances exclude structured notes for which the fair value option has been elected. Refer to Note 3 for further information.

(b) As permitted under U.S. GAAP, the Firm has elected to net derivative receivables and derivative payables and the related cash collateral receivables and payables when a legally enforceable master netting agreement exists.



## Notes to consolidated financial statements

### Derivatives netting

The following tables present, as of December 31, 2024 and 2023, gross and net derivative receivables and payables by contract and settlement type.

Derivative receivables and payables, as well as the related cash collateral from the same counterparty, have been netted on the Consolidated balance sheets where the Firm has obtained an appropriate legal opinion with respect to the master netting agreement. Where such a legal opinion has not been either sought or obtained, amounts are not eligible for netting on the Consolidated balance sheets, and those derivative receivables and payables are shown separately in the tables.

In addition to the cash collateral received and transferred that is presented on a net basis with derivative receivables and payables, the Firm receives and transfers additional collateral (financial instruments and cash). These amounts mitigate counterparty credit risk associated with the Firm's derivative instruments, but are not eligible for net presentation:

- collateral that consists of liquid securities and other cash collateral held at third-party custodians, which are shown separately as "Collateral not nettable on the Consolidated balance sheets" in the tables, up to the fair value exposure amount. For the purpose of this disclosure, the definition of liquid securities is consistent with the definition of high quality liquid assets as defined in the LCR rule;
- the amount of collateral held or transferred that exceeds the fair value exposure at the individual counterparty level, as of the date presented, which is excluded from the tables; and
- collateral held or transferred that relates to derivative receivables or payables where an appropriate legal opinion has not been either sought or obtained with respect to the master netting agreement, which is excluded from the tables.





	2024			2023		
	Amounts netted on the			Amounts netted on the		
	Gross	Consolidated	Net	Gross	Consolidated	Net
December 31, (in millions)	derivative receivables	balance sheets	derivative receivables	derivative receivables	balance sheets	derivative receivables
<b>U.S. GAAP nettable derivative receivables</b>						
<b>Interest rate contracts:</b>						
OTC	\$ 158,202	\$ (134,791)	\$ 23,411	\$ 176,901	\$ (152,703)	\$ 24,198
OTC-cleared	130,989	(130,810)	179	71,419	(71,275)	144
Exchange-traded <sup>(a)</sup>	190	(188)	2	402	(389)	13
<b>Total interest rate contracts</b>	<b>289,381</b>	<b>(265,789)</b>	<b>23,592</b>	<b>248,722</b>	<b>(224,367)</b>	<b>24,355</b>
<b>Credit contracts:</b>						
OTC	8,680	(8,030)	650	7,637	(7,226)	411
OTC-cleared	2,267	(2,243)	24	1,904	(1,877)	27
<b>Total credit contracts</b>	<b>10,947</b>	<b>(10,273)</b>	<b>674</b>	<b>9,541</b>	<b>(9,103)</b>	<b>438</b>
<b>Foreign exchange contracts:</b>						
OTC	259,608	(236,931)	22,677	203,624	(187,295)	16,329
OTC-cleared	685	(677)	8	469	(459)	10
Exchange-traded <sup>(a)</sup>	34	—	34	6	(2)	4
<b>Total foreign exchange contracts</b>	<b>260,327</b>	<b>(237,608)</b>	<b>22,719</b>	<b>204,099</b>	<b>(187,756)</b>	<b>16,343</b>
<b>Equity contracts:</b>						
OTC	33,269	(30,742)	2,527	25,001	(23,677)	1,324
Exchange-traded <sup>(a)</sup>	51,040	(49,193)	1,847	30,462	(29,084)	1,378
<b>Total equity contracts</b>	<b>84,309</b>	<b>(79,935)</b>	<b>4,374</b>	<b>55,463</b>	<b>(52,761)</b>	<b>2,702</b>
<b>Commodity contracts:</b>						
OTC	8,340	(5,848)	2,492	8,049	(5,084)	2,965
OTC-cleared	126	(84)	42	133	(123)	10
Exchange-traded <sup>(a)</sup>	5,179	(5,083)	96	5,214	(5,190)	24
<b>Total commodity contracts</b>	<b>13,645</b>	<b>(11,015)</b>	<b>2,630</b>	<b>13,396</b>	<b>(10,397)</b>	<b>2,999</b>
<b>Derivative receivables with appropriate legal opinion</b>	<b>658,609</b>	<b>(604,620)</b>	<b>53,989</b>	<sup>(d)</sup> 531,221	(484,384)	46,837 <sup>(d)</sup>
<b>Derivative receivables where an appropriate legal opinion has not been either sought or obtained</b>	<b>6,978</b>		<b>6,978</b>	8,027		8,027
<b>Total derivative receivables</b>						



**Notes to consolidated financial statements**



- (a) Exchange-traded derivative balances that relate to futures contracts are settled daily.
- (b) Includes liquid securities and other cash collateral held at third-party custodians related to derivative instruments where an appropriate legal opinion has been obtained. For some counterparties, the collateral amounts of financial instruments may exceed the derivative receivables and derivative payables balances. Where this is the case, the total amount reported is limited to the net derivative receivables and net derivative payables balances with that counterparty.
- (c) Derivative collateral relates only to OTC and OTC-cleared derivative instruments.
- (d) Net derivatives receivable included cash collateral netted of \$51.9 billion and \$48.3 billion at December 31, 2024 and 2023, respectively. Net derivatives payable included cash collateral netted of \$60.8 billion and \$70.0 billion at December 31, 2024 and 2023, respectively. Derivative cash collateral relates to OTC and OTC-cleared derivative instruments.

### Liquidity risk and credit-related contingent features

In addition to the specific market risks introduced by each derivative contract type, derivatives expose JPMorganChase to credit risk – the risk that derivative counterparties may fail to meet their payment obligations under the derivative contracts and the collateral, if any, held by the Firm proves to be of insufficient value to cover the payment obligation. It is the policy of JPMorganChase to actively pursue, where possible, the use of legally enforceable master netting arrangements and collateral agreements to mitigate derivative counterparty credit risk inherent in derivative receivables.

While derivative receivables expose the Firm to credit risk, derivative payables expose the Firm to liquidity risk, as the derivative contracts typically require the Firm to post cash or securities collateral with counterparties as the fair value of the contracts moves in the counterparties' favor or upon specified downgrades in the Firm's and its subsidiaries' respective credit ratings. Certain derivative contracts also provide for termination of the contract, generally upon a downgrade of either the Firm or the counterparty, at the fair value of the derivative contracts. The following table shows the aggregate fair value of net derivative payables related to OTC and OTC-cleared derivatives that contain contingent collateral or termination features that may be triggered upon a ratings downgrade, and the associated collateral the Firm has posted in the normal course of business, at December 31, 2024 and 2023.

#### *OTC and OTC-cleared derivative payables containing downgrade triggers*

(in millions)	December 31, 2024	December 31, 2023
Aggregate fair value of net derivative payables	\$ 15,371	\$ 14,655
Collateral posted	15,204	14,673

The following table shows the impact of a single-notch and two-notch downgrade of the long-term issuer ratings of JPMorgan Chase & Co. and its subsidiaries, predominantly JPMorgan Chase Bank, N.A., at December 31, 2024 and 2023, related to OTC and OTC-cleared derivative contracts with contingent collateral or termination features that may be triggered upon a ratings downgrade. Derivatives contracts generally require additional collateral to be posted or terminations to be triggered when the predefined rating threshold is breached. A downgrade by a single rating agency that does not result in a rating lower than a preexisting corresponding rating provided by another major rating agency will generally not result in additional collateral (except in certain instances in which additional initial margin may be required upon a ratings downgrade), nor in termination payment requirements. The liquidity impact in the table is calculated based upon a downgrade below the lowest current rating of the rating agencies referred to in the derivative contract.

*Liquidity impact of downgrade triggers on OTC and OTC-cleared derivatives*

	December 31, 2024		December 31, 2023	
	Single-notch downgrade	Two-notch downgrade	Single-notch downgrade	Two-notch downgrade
(in millions)				
Amount of additional collateral to be posted upon downgrade <sup>(a)</sup>	\$ 119	\$ 1,205	\$ 75	\$ 1,153
Amount required to settle contracts with termination triggers upon downgrade <sup>(b)</sup>	78	458	93	592

(a) Includes the additional collateral to be posted for initial margin.

(b) Amounts represent fair values of derivative payables, and do not reflect collateral posted.

*Derivatives executed in contemplation of a sale of the underlying financial asset*

In certain instances the Firm enters into transactions in which it transfers financial assets but maintains the economic exposure to the transferred assets by entering into a derivative with the same counterparty in contemplation of the initial transfer. The Firm generally accounts for such transfers as collateralized financing transactions as described in Note 11, but in limited circumstances they may qualify to be accounted for as a sale and a derivative under U.S. GAAP. The amount of such transfers accounted for as a sale where the associated derivative was outstanding was not material at December 31, 2024 and 2023.

## Notes to consolidated financial statements

### Impact of derivatives on the Consolidated statements of income

The following tables provide information related to gains and losses recorded on derivatives based on their hedge accounting designation or purpose.

#### *Fair value hedge gains and losses*

The following tables present derivative instruments, by contract type, used in fair value hedge accounting relationships, as well as pre-tax gains/(losses) recorded on such derivatives and the related hedged items for the years ended December 31, 2024, 2023 and 2022, respectively. The Firm includes gains/(losses) on the hedging derivative in the same line item in the Consolidated statements of income as the related hedged item.



Year ended December 31, 2024 (in millions)	Gains/(losses) recorded in income			Income statement impact of excluded components <sup>(e)</sup>		OCI impact
	Derivatives	Hedged items	Income statement impact	Amortization approach	Changes in fair value	Derivatives - Gains/ (losses) recorded in OCI <sup>(f)</sup>
<b>Contract type</b>						
Interest rate <sup>(a)(b)</sup>	\$ 711	\$ (65)	\$ 646	\$ —	\$ 699	\$ —
Foreign exchange <sup>(c)</sup>	(177)	402	225	(532)	225	(115)
Commodity <sup>(d)</sup>	293	(160)	133	—	122	—
<b>Total</b>	<b>\$ 827</b>	<b>\$ 177</b>	<b>\$ 1,004</b>	<b>\$ (532)</b>	<b>\$ 1,046</b>	<b>\$ (115)</b>

Year ended December 31, 2023 (in millions)	Gains/(losses) recorded in income			Income statement impact of excluded components <sup>(e)</sup>		OCI impact
	Derivatives	Hedged items	Income statement impact	Amortization approach	Changes in fair value	Derivatives - Gains/ (losses) recorded in OCI <sup>(f)</sup>
<b>Contract type</b>						
Interest rate <sup>(a)(b)</sup>	\$ 1,554	\$ (1,248)	\$ 306	\$ —	\$ 157	\$ —
Foreign exchange <sup>(c)</sup>	722	(483)	239	(601)	239	(134)
Commodity <sup>(d)</sup>	1,227	(706)	521	—	525	—
<b>Total</b>	<b>\$ 3,503</b>	<b>\$ (2,437)</b>	<b>\$ 1,066</b>	<b>\$ (601)</b>	<b>\$ 921</b>	<b>\$ (134)</b>

Year ended December 31, 2022 (in millions)	Gains/(losses) recorded in income			Income statement impact of excluded components <sup>(e)</sup>		OCI impact
	Derivatives	Hedged items	Income statement impact	Amortization approach	Changes in fair value	Derivatives - Gains/ (losses) recorded in OCI <sup>(f)</sup>
<b>Contract type</b>						
Interest rate <sup>(a)(b)</sup>	\$ (14,352)	\$ 14,047	\$ (305)	\$ —	\$ (262)	\$ —
Foreign exchange <sup>(c)</sup>	(1,317)	1,423	106	(528)	106	130
Commodity <sup>(d)</sup>	106	(70)	36	—	48	—
<b>Total</b>	<b>\$ (15,563)</b>	<b>\$ 15,400</b>	<b>\$ (163)</b>	<b>\$ (528)</b>	<b>\$ (108)</b>	<b>\$ 130</b>

(a) Primarily consists of hedges of the benchmark (e.g., Secured Overnight Financing Rate (“SOFR”)) interest rate risk of fixed-rate long-term debt and AFS securities. Gains and losses were recorded in net interest income.

(b) Includes the amortization of income/expense associated with the inception hedge accounting adjustment applied to the hedged item. Excludes the accrual of interest on interest rate swaps and the related hedged items.

- (c) Primarily consists of hedges of the foreign currency risk of long-term debt and AFS securities for changes in spot foreign currency rates. Gains and losses related to the derivatives and the hedged items due to changes in foreign currency rates and the income statement impact of excluded components were recorded primarily in principal transactions revenue and net interest income.
- (d) Consists of overall fair value hedges of physical commodities inventories that are generally carried at the lower of cost or net realizable value (net realizable value approximates fair value). Gains and losses were recorded in principal transactions revenue.
- (e) The assessment of hedge effectiveness excludes certain components of the changes in fair values of the derivatives and hedged items such as forward points on foreign exchange forward contracts, time values and cross-currency basis spreads. Excluded components may impact earnings either through amortization of the initial amount over the life of the derivative or through fair value changes recognized in the current period.
- (f) Represents the change in value of amounts excluded from the assessment of effectiveness under the amortization approach, predominantly cross-currency basis spreads. The amount excluded at inception of the hedge is recognized in earnings over the life of the derivative.

As of December 31, 2024 and 2023, the following amounts were recorded on the Consolidated balance sheets related to certain cumulative fair value hedge basis adjustments that are expected to reverse through the income statement in future periods as an adjustment to yield.

December 31, 2024 (in millions)	Carrying amount of the hedged items <sup>(a)(b)</sup>	Cumulative amount of fair value hedging adjustments included in the carrying amount of hedged items: <sup>(d)</sup>			
		Active hedging relationships	Discontinued hedging relationships <sup>(e)</sup>	Total	
<b>Assets</b>					
Investment securities - AFS	\$ 203,141 <sup>(c)</sup>	\$ (1,675)	\$ (1,959)	\$ (3,634)	
<b>Liabilities</b>					
Long-term debt	\$ 211,288	\$ (3,711)	\$ (9,332)	\$ (13,043)	
Beneficial interests issued by consolidated VIEs	\$ 5,312	\$ (30)	\$ (5)	\$ (35)	

December 31, 2023 (in millions)	Carrying amount of the hedged items <sup>(a)(b)</sup>	Cumulative amount of fair value hedging adjustments included in the carrying amount of hedged items: <sup>(d)</sup>			
		Active hedging relationships	Discontinued hedging relationships <sup>(e)</sup>	Total	
<b>Assets</b>					
Investment securities - AFS	\$ 151,752 <sup>(c)</sup>	\$ 549	\$ (2,010)	\$ (1,461)	
<b>Liabilities</b>					
Long-term debt	\$ 195,455	\$ (2,042)	\$ (9,727)	\$ (11,769)	
Beneficial interests issued by consolidated VIEs	\$ —	\$ —	\$ —	\$ —	

- (a) Excludes physical commodities with a carrying value of \$6.2 billion and \$5.6 billion at December 31, 2024 and 2023, respectively, to which the Firm applies fair value hedge accounting. As a result of the application of hedge accounting, these inventories are carried at fair value, thus recognizing unrealized gains and losses in current periods. Since the Firm exits these positions at fair value, there is no incremental impact to net income in future periods.
- (b) Excludes hedged items where only foreign currency risk is the designated hedged risk, as basis adjustments related to foreign currency hedges will not reverse through the income statement in future periods. At December 31, 2024 and 2023, the carrying amount excluded for AFS securities was \$28.7 billion and \$19.3 billion, respectively. At December 31, 2024 and 2023, the carrying amount excluded for long-term debt was \$518 million and zero, respectively.
- (c) Carrying amount represents the amortized cost, net of allowance if applicable. At December 31, 2024 and December 31, 2023, the amortized cost of the portfolio layer method closed portfolios was \$72.8 billion and \$83.9 billion, of which \$41.2 billion and \$68.0 billion was designated as

hedged, respectively. The amount designated as hedged is the sum of the notional amounts of all outstanding layers in each portfolio, which includes both spot starting and forward starting layers. At December 31, 2024 and December 31, 2023, the cumulative amount of basis adjustments was \$(1.7) billion and \$(165) million, which is comprised of \$(1.2) billion and \$73 million for active hedging relationships, and \$(566) million and \$(238) million for discontinued hedging relationships, respectively. Refer to Note 10 for additional information.

(d) Positive (negative) amounts related to assets represent cumulative fair value hedge basis adjustments that will reduce (increase) net interest income in future periods. Positive (negative) amounts related to liabilities represent cumulative fair value hedge basis adjustments that will increase (reduce) net interest income in future periods.

(e) Represents basis adjustments existing on the balance sheet date associated with hedged items that have been de-designated from qualifying fair value hedging relationships.

## Notes to consolidated financial statements

### Cash flow hedge gains and losses

The following tables present derivative instruments, by contract type, used in cash flow hedge accounting relationships, and the pre-tax gains/(losses) recorded on such derivatives, for the years ended December 31, 2024, 2023 and 2022, respectively. The Firm includes the gains/(losses) on the hedging derivative in the same line item in the Consolidated statements of income as the change in cash flows on the related hedged item.

Year ended December 31, 2024 (in millions)	Derivatives gains/(losses) recorded in income and other comprehensive income/(loss)		
	Amounts reclassified from AOCI to income	Amounts recorded in OCI	Total change in OCI for period
<b>Contract type</b>			
Interest rate <sup>(a)</sup>	\$ (2,668)	\$ (3,603)	\$ (935)
Foreign exchange <sup>(b)</sup>	89	(139)	(228)
<b>Total</b>	<b>\$ (2,579)</b>	<b>\$ (3,742)</b>	<b>\$ (1,163)</b>

Year ended December 31, 2023 (in millions)	Derivatives gains/(losses) recorded in income and other comprehensive income/(loss)		
	Amounts reclassified from AOCI to income	Amounts recorded in OCI	Total change in OCI for period
<b>Contract type</b>			
Interest rate <sup>(a)</sup>	\$ (1,839)	\$ 274	\$ 2,113
Foreign exchange <sup>(b)</sup>	64	209	145
<b>Total</b>	<b>\$ (1,775)</b>	<b>\$ 483</b>	<b>\$ 2,258</b>

Year ended December 31, 2022 (in millions)	Derivatives gains/(losses) recorded in income and other comprehensive income/(loss)		
	Amounts reclassified from AOCI to income	Amounts recorded in OCI	Total change in OCI for period
<b>Contract type</b>			
Interest rate <sup>(a)</sup>	\$ (153)	\$ (7,131)	\$ (6,978)
Foreign exchange <sup>(b)</sup>	(267)	(342)	(75)
<b>Total</b>	<b>\$ (420)</b>	<b>\$ (7,473)</b>	<b>\$ (7,053)</b>

(a) Primarily consists of hedges of SOFR-indexed floating-rate assets. Gains and losses were recorded in net interest income.

(b) Primarily consists of hedges of the foreign currency risk of non-U.S. dollar-denominated revenue and expense. The income statement classification of gains and losses follows the hedged item – primarily noninterest revenue and compensation expense.

The Firm did not experience any forecasted transactions that failed to occur for the years ended 2024, 2023 and 2022.

Over the next 12 months, the Firm expects that approximately \$(1.6) billion (after-tax) of net losses recorded in AOCI at December 31, 2024, related to

cash flow hedges will be recognized in income. For cash flow hedges that have been terminated, the maximum length of time over which the derivative results recorded in AOCI will be recognized in earnings is approximately seven years, corresponding to the timing of the originally hedged forecasted cash flows. For open cash flow hedges, the maximum length of time over which forecasted transactions are hedged is approximately seven years. The Firm's longer-dated forecasted transactions relate to core lending and borrowing activities.

*Net investment hedge gains and losses*

The following table presents hedging instruments, by contract type, that were used in net investment hedge accounting relationships, and the pre-tax gains/(losses) recorded on such instruments for the years ended December 31, 2024, 2023 and 2022.

	2024		2023		2022	
	Amounts recorded	Amounts recorded	Amounts recorded	Amounts recorded	Amounts recorded	Amounts recorded
	in income <sup>(a)(b)</sup>	in OCI	in income <sup>(a)(b)</sup>	in OCI	in income <sup>(a)(b)</sup>	in OCI
Year ended December 31, (in millions)						
Foreign exchange derivatives	<b>\$467</b>	<b>\$4,411</b>	\$384	\$(1,732)	\$(123)	\$3,591

(a) Certain components of hedging derivatives are permitted to be excluded from the assessment of hedge effectiveness, such as forward points on foreign exchange forward contracts. The Firm elects to record changes in fair value of these amounts directly in other income.

(b) Excludes amounts reclassified from AOCI to income on the sale or liquidation of hedged entities. During the year ended December 31, 2024, the Firm reclassified a net pre-tax gain of \$89 million to other income/expense. During the year ended December 31, 2023, the Firm reclassified a net pre-tax loss of \$(35) million to other revenue including the impact of the acquisition of CIFM. During the year ended December 31, 2022, the Firm reclassified net pre-tax gains of \$38 million to other income/expense related to the liquidation of certain legal entities. Refer to Note 24 for further information.

*Gains and losses on derivatives used for specified risk management purposes*

The following table presents pre-tax gains/(losses) recorded on a limited number of derivatives, not designated in hedge accounting relationships, that are used to manage risks associated with certain specified assets and liabilities, including certain risks arising from mortgage commitments, warehouse loans, MSRs, wholesale lending exposures, and foreign currency denominated assets and liabilities.

Year ended December 31, (in millions)	Derivatives gains/ (losses) recorded in income		
	2024	2023	2022
<b>Contract type</b>			
Interest rate <sup>(a)</sup>	\$ (425)	\$ (135)	\$ (827)
Credit <sup>(b)</sup>	(604)	(441)	51
Foreign exchange <sup>(c)</sup>	(10)	(2)	(48)
<b>Total</b>	<b>\$ (1,039)</b>	<b>\$ (578)</b>	<b>\$ (824)</b>

(a) Primarily represents interest rate derivatives used to hedge the interest rate risk inherent in mortgage commitments, warehouse loans and MSRs, as well as written commitments to originate warehouse loans. Gains and losses were recorded predominantly in mortgage fees and related income.

(b) Relates to credit derivatives used to mitigate credit risk associated with lending exposures in the Firm's wholesale businesses. These derivatives do not include credit derivatives used to mitigate counterparty credit risk arising from derivative receivables, which is included in gains and losses on derivatives related to market-making activities and other derivatives. Gains and losses were recorded in principal transactions revenue.

(c) Primarily relates to derivatives used to mitigate foreign exchange risk of specified foreign currency-denominated assets and liabilities. Gains and losses were recorded in principal transactions revenue.

*Gains and losses on derivatives related to market-making activities and other derivatives*

The Firm makes markets in derivatives in order to meet the needs of customers and uses derivatives to manage certain risks associated with net open risk positions from its market-making activities, including the counterparty credit risk arising from derivative receivables. All derivatives not included in the hedge accounting or specified risk management categories above are included in this category. Gains and losses on these derivatives are primarily recorded in principal transactions revenue. Refer to Note 6 for information on principal transactions revenue.





**Notes to consolidated financial statements**

## Credit derivatives

Credit derivatives are financial instruments whose value is derived from the credit risk associated with the debt of a third-party issuer (the reference entity) and which allow one party (the protection purchaser) to transfer that risk to another party (the protection seller). Credit derivatives expose the protection purchaser to the creditworthiness of the protection seller, as the protection seller is required to make payments under the contract when the reference entity experiences a credit event, such as a bankruptcy, a failure to pay its obligation or a restructuring. The seller of credit protection receives a premium for providing protection but has the risk that the underlying instrument referenced in the contract will be subject to a credit event.

The Firm is both a purchaser and seller of protection in the credit derivatives market and uses these derivatives for two primary purposes. First, in its capacity as a market-maker, the Firm actively manages a portfolio of credit derivatives by purchasing and selling credit protection, predominantly on corporate debt obligations, to meet the needs of customers. Second, as an end-user, the Firm uses credit derivatives to manage credit risk associated with lending exposures (loans and unfunded commitments) in its wholesale and consumer businesses and derivatives counterparty exposures in its wholesale businesses, and to manage the credit risk arising from certain financial instruments in the Firm's market-making businesses. Following is a summary of various types of credit derivatives.

### *Credit default swaps*

Credit derivatives may reference the credit of either a single reference entity ("single-name"), broad-based index or portfolio. The Firm purchases and sells protection on both single-name and index-reference obligations. Single-name CDS and index CDS contracts are either OTC or OTC-cleared derivative contracts.

\$10 million portfolio of exposure. Such structures are commonly known as tranche CDS.

For both single-name CDS contracts and index CDS contracts, upon the occurrence of a credit event, under the terms of a CDS contract neither party to the CDS contract has recourse to the reference entity. The protection purchaser has recourse to the protection seller for the difference between the face value of the CDS contract and the fair value of the reference obligation at settlement of the credit derivative contract, also known as the recovery value. The protection purchaser does not need to hold the debt instrument of the underlying reference entity in order to receive amounts due under the CDS contract when a credit event occurs.

### *Credit-related notes*

A credit-related note is a funded derivative with a credit risk component where the issuer of the credit-related note purchases from the note investor credit protection on a reference entity or an index. Under the contract, the investor pays the issuer the par value of the note at the inception of the transaction, and in return, the issuer makes periodic payments to the investor, based on the credit risk of the referenced entity. The issuer also repays the investor the par value of the note at maturity unless the reference entity (or one of the entities that makes up a reference index) experiences a specified credit event. If a credit event occurs, the issuer is not obligated to repay the par value of the note, but rather, the issuer pays the investor the difference between the par value of the note and the fair value of the defaulted reference obligation at the time of settlement. Neither party to the credit-related note has recourse to the defaulting reference entity.

The following tables present a summary of the notional amounts of credit derivatives and credit-related notes the Firm sold and purchased as of December 31, 2024 and 2023. Upon a credit event, the Firm as a seller of



The Firm does not use notional amounts of credit derivatives as the primary measure of risk management for such derivatives, because the notional amount does not take into account the probability of the occurrence of a credit event, the recovery value of the reference obligation, or related cash instruments and economic hedges, each of which reduces, in the Firm's view, the risks associated with such derivatives.

### Total credit derivatives and credit-related notes

December 31, 2024 (in millions)	Maximum payout/Notional amount			
	Protection sold	Protection purchased with identical underlyings <sup>(c)</sup>	Net protection (sold)/purchased <sup>(d)</sup>	Other protection purchased <sup>(e)</sup>
<b>Credit derivatives</b>				
Credit default swaps	\$ (450,184)	\$ 474,554	\$ 24,370	\$ 6,858
Other credit derivatives <sup>(a)</sup>	(110,913)	137,927	27,014	10,169
<b>Total credit derivatives</b>	<b>(561,097)</b>	<b>612,481</b>	<b>51,384</b>	<b>17,027</b>
Credit-related notes <sup>(b)</sup>	—	—	—	10,471
<b>Total</b>	<b>\$ (561,097)</b>	<b>\$ 612,481</b>	<b>\$ 51,384</b>	<b>\$ 27,498</b>

December 31, 2023 (in millions)	Maximum payout/Notional amount			
	Protection sold	Protection purchased with identical underlyings <sup>(c)</sup>	Net protection (sold)/purchased <sup>(d)</sup>	Other protection purchased <sup>(e)</sup>
<b>Credit derivatives</b>				
Credit default swaps	\$ (450,172)	\$ 473,823	\$ 23,651	\$ 7,517
Other credit derivatives <sup>(a)</sup>	(38,846)	45,416	6,570	29,206
<b>Total credit derivatives</b>	<b>(489,018)</b>	<b>519,239</b>	<b>30,221</b>	<b>36,723</b>
Credit-related notes <sup>(b)</sup>	—	—	—	9,788
<b>Total</b>	<b>\$ (489,018)</b>	<b>\$ 519,239</b>	<b>\$ 30,221</b>	<b>\$ 46,511</b>

(a) Other credit derivatives predominantly consist of credit swap options and total return swaps.

(b) Predominantly represents Other protection purchased by CIB.

(c) Represents the total notional amount of protection purchased where the underlying reference instrument is identical to the reference instrument on protection sold; the notional amount of protection purchased for each individual identical underlying reference instrument may be greater or lower than the notional amount of protection sold.

(d) Does not take into account the fair value of the reference obligation at the time of settlement, which would generally reduce the amount the seller of protection pays to the buyer of protection in determining settlement value.

(e) Represents protection purchased by the Firm on referenced instruments (single-name, portfolio or index) where the Firm has not sold any protection on the identical reference instrument. Also includes credit protection against certain loans and lending-related commitments in the retained lending portfolio through the issuance of credit derivatives and credit-related notes.



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The following tables summarize the notional amounts by the ratings, maturity profile, and total fair value, of credit derivatives as of December 31, 2024 and 2023, where JPMorganChase is the seller of protection. The maturity profile is based on the remaining contractual maturity of the credit derivative contracts. The ratings profile is based on the rating of the reference entity on which the credit derivative contract is based. The ratings and maturity profile of credit derivatives where JPMorganChase is the purchaser of protection are comparable to the profile reflected below.

### Protection sold – credit derivatives ratings<sup>(a)</sup>/maturity profile

December 31, 2024 (in millions)				Total notional amount	Fair value of receivables <sup>(b)</sup>	Fair value of payables <sup>(b)</sup>	Net fair value
<1 year	1–5 years	>5 years					
<b>Risk rating of reference entity</b>							
Investment-grade	\$(135,950)	\$(277,052)	\$(33,379)	\$(446,381)	\$ 4,593	\$ (904)	\$ 3,689
Noninvestment-grade	(42,149)	(70,525)	(2,042)	(114,716)	1,889	(1,738)	151
<b>Total</b>	<b>\$(178,099)</b>	<b>\$(347,577)</b>	<b>\$(35,421)</b>	<b>\$(561,097)</b>	<b>\$ 6,482</b>	<b>\$ (2,642)</b>	<b>\$ 3,840</b>

December 31, 2023 (in millions)				Total notional amount	Fair value of receivables <sup>(b)</sup>	Fair value of payables <sup>(b)</sup>	Net fair value
<1 year	1–5 years	>5 years					
<b>Risk rating of reference entity</b>							
Investment-grade	\$ (89,981)	\$(263,834)	\$(29,470)	\$(383,285)	\$ 3,659	\$ (1,144)	\$ 2,515
Noninvestment-grade	(31,419)	(69,515)	(4,799)	(105,733)	2,466	(1,583)	883
<b>Total</b>	<b>\$(121,400)</b>	<b>\$(333,349)</b>	<b>\$(34,269)</b>	<b>\$(489,018)</b>	<b>\$ 6,125</b>	<b>\$ (2,727)</b>	<b>\$ 3,398</b>

(a) The ratings scale is primarily based on external credit ratings defined by S&P and Moody's.

(b) Amounts are shown on a gross basis, before the benefit of legally enforceable master netting agreements including cash collateral netting.

**Note 6 – Noninterest revenue and noninterest expense**



## Noninterest revenue

The Firm records noninterest revenue from certain contracts with customers in investment banking fees, deposit-related fees, asset management fees, commissions and other fees, and components of card income. The related contracts are often terminable on demand and the Firm has no remaining obligation to deliver future services. For arrangements with a fixed term, the Firm may commit to deliver services in the future. Revenue associated with these remaining performance obligations typically depends on the occurrence of future events or underlying asset values, and is not recognized until the outcome of those events or values are known.

### Investment banking fees

This revenue category includes debt and equity underwriting and advisory fees. As an underwriter, the Firm helps clients raise capital via public offering and private placement of various types of debt and equity instruments. Underwriting fees are primarily based on the issuance price and quantity of the underlying instruments, and are recognized as revenue typically upon execution of the client's transaction. The Firm also manages and syndicates loan arrangements. Credit arrangement and syndication fees, included within debt underwriting fees, are recorded as revenue after satisfying certain retention, timing and yield criteria. The Firm also provides advisory services by assisting its clients with mergers and acquisitions, divestitures, restructuring and other complex transactions. Advisory fees are recognized as revenue typically upon execution of the client's transaction.

The following table presents the components of investment banking fees.

Year ended December 31, (in millions)	2024	2023	2022
<b>Underwriting</b>			
Equity	\$ 1,687	\$ 1,149	\$ 975
Debt	2,045	2,610	2,732

## Principal transactions

Principal transactions revenue is driven by many factors, including:

- the bid-offer spread, which is the difference between the price at which a market participant is willing and able to sell an instrument to the Firm and the price at which another market participant is willing and able to buy it from the Firm, and vice versa; and
- realized and unrealized gains and losses on financial instruments and commodities transactions, including those accounted for under the fair value option, primarily used in client-driven market-making activities.
  - Realized gains and losses result from the sale of instruments, closing out or termination of transactions, or interim cash payments.
  - Unrealized gains and losses result from changes in valuation.

In connection with its client-driven market-making activities, the Firm transacts in debt and equity instruments, derivatives and commodities, including physical commodities inventories and financial instruments that reference commodities.

Principal transactions revenue also includes realized and unrealized gains and losses related to:

- derivatives designated in qualifying hedge accounting relationships, primarily fair value hedges of commodity and foreign exchange risk;
- derivatives used for specific risk management purposes, primarily to mitigate credit, foreign exchange and interest rate risks.

Refer to Note 5 for further information on the income statement classification of gains and losses from derivatives activities.

In the financial commodity markets, the Firm transacts in OTC derivatives (e.g., swaps, forwards, options) and ETD that reference a wide range of underlying commodities. In the physical commodity markets, the Firm



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types in connection with their market-making and related risk-management activities; accordingly, the trading revenue presented in the table below is not representative of the total revenue of any individual LOB.

Year ended December 31, (in millions)	2024	2023	2022
<b>Trading revenue by instrument type</b>			
Interest rate <sup>(a)</sup>	\$ 3,631	\$ 5,607	\$ 3,010
Credit <sup>(b)</sup>	1,545	1,434	1,412 <sup>(c)</sup>
Foreign exchange	4,874	5,082	5,119
Equity	13,476	10,229	8,068
Commodity	1,194	2,202	2,348
<b>Total trading revenue</b>	<b>24,720</b>	<b>24,554</b>	<b>19,957</b>
Private equity gains/(losses)	67	(94)	(45)
<b>Principal transactions</b>	<b>\$24,787</b>	<b>\$24,460</b>	<b>\$19,912</b>

(a) Includes the impact of changes in funding valuation adjustments on derivatives.

(b) Includes the impact of changes in credit valuation adjustments on derivatives, net of the associated hedging activities.

(c) Includes net markdowns on held-for-sale positions, primarily unfunded commitments, in the bridge financing portfolio.

Principal transactions revenue is earned primarily by CIB.

#### **Lending- and deposit-related fees**

Lending-related fees include fees earned from loan commitments, standby letters of credit, financial guarantees, and other loan-servicing activities. Deposit-related fees include fees earned from performing cash management activities, and providing overdraft and other deposit account services. Deposit-related fees also include the impact of credits earned by clients that reduce such fees. Lending- and deposit-related fees are recognized over the period in which the related service is provided. Refer to Note 28 for further information on lending-related commitments.

#### **Asset management fees**

Investment management fees include fees associated with assets the Firm manages on behalf of its clients, including investors in Firm-sponsored funds and owners of separately managed investment accounts.

Management fees are typically based on the value of assets under management and are collected and recognized at the end of each period over which the management services are provided and the value of the managed assets is known. The Firm also receives performance-based management fees, which are earned based on exceeding certain benchmarks or other performance targets and are accrued and recognized when the probability of reversal is remote, typically at the end of the related billing period.

All other asset management fees include commissions earned on the sales or distribution of mutual funds to clients. These fees are recorded as revenue at the time the service is rendered or, in the case of certain distribution fees, based on the underlying fund's asset value or investor redemption activity.

The following table presents the components of asset management fees.

Year ended December 31, (in millions)	2024	2023	2022
<b>Asset management fees</b>			
Investment management fees	\$17,425	\$14,908	\$13,765
All other asset management fees	376	312	331
<b>Total asset management fees</b>	<b>\$17,801</b>	<b>\$15,220</b>	<b>\$14,096</b>

Asset management fees earned primarily by AWM and CCB.

#### **Commissions and other fees**

This revenue category includes commissions and fees from brokerage and custody services, and other products.

Brokerage commissions represents commissions earned when the Firm acts as a broker, by facilitating its





The following table presents the components of commissions and other fees.

Year ended December 31, (in millions)	2024	2023	2022
<b>Commissions and other fees</b>			
Brokerage commissions and fees	\$ 3,119	\$ 2,820	\$ 2,831
Administration fees	2,526	2,310	2,348
All other commissions and fees <sup>(a)</sup>	1,885	1,706	1,402
<b>Total commissions and other fees</b>	<b>\$ 7,530</b>	<b>\$ 6,836</b>	<b>\$ 6,581</b>

(a) Includes annuity sales commissions, depository receipt-related service fees and travel-related sales commissions, as well as other service fees, which are recognized as revenue when the services are rendered.

Commissions and other fees are earned primarily by CIB, CCB and AWM.

### **Mortgage fees and related income**

This revenue category reflects CCB's Home Lending production and net mortgage servicing revenue.

Production revenue includes fees and income recognized as earned on mortgage loans originated with the intent to sell, and the impact of risk management activities associated with the mortgage pipeline and warehouse loans. Production revenue also includes gains and losses on sales and lower of cost or fair value adjustments on mortgage loans held-for-sale (excluding certain repurchased loans insured by U.S. government agencies), and changes in the fair value of financial instruments measured under the fair value option. Net mortgage servicing revenue includes operating revenue earned from servicing third-party mortgage loans, which is recognized over the period in which the service is provided; changes in the fair value of MSR; the impact of risk management activities associated with MSR; and gains and losses on securitization of excess mortgage servicing. Net mortgage servicing

Certain credit card products offer the cardholder the ability to earn points based on account activity, which the cardholder can choose to redeem for cash and non-cash rewards. The cost to the Firm related to these proprietary rewards programs varies based on multiple factors including the terms and conditions of the rewards programs, cardholder activity, cardholder reward redemption rates and cardholder reward selections. The Firm maintains a liability for its obligations under its rewards programs and reports the current-period cost as a reduction of card income.

### *Credit card revenue sharing agreements*

The Firm has contractual agreements with numerous co-brand partners that grant the Firm exclusive rights to issue co-branded credit card products and market them to the customers of such partners. These partners endorse the co-brand credit card programs and provide their customer or member lists to the Firm. The partners may also conduct marketing activities and provide rewards redeemable under their own loyalty programs that the Firm will grant to co-brand credit cardholders based on account activity. The terms of these agreements generally range from five to ten years.

The Firm typically makes payments to the co-brand credit card partners based on the cost of partners' marketing activities and loyalty program rewards provided to credit cardholders, new account originations and sales volumes. Payments to partners based on marketing efforts undertaken by the partners are expensed by the Firm as incurred and reported as marketing expense. Payments for partner loyalty program rewards are reported as a reduction of card income when incurred. Payments to partners based on new credit card account originations are accounted for as direct loan origination costs and are deferred and recognized as a reduction of card income on a straight-line basis over a 12-month period. Payments to





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### Other income

This revenue category includes operating lease income, as well as losses associated with the Firm's tax-oriented investments, predominantly alternative energy equity-method investments in CIB. The losses associated with these tax-oriented investments are more than offset by lower income tax expense from the associated tax credits.

The following table presents certain components of other income:

Year ended December 31, (in millions)	2024	2023	2022
Operating lease income	\$2,795	\$2,843	\$3,654
Losses on tax-oriented investments	(97)	(1,538)	(1,491)
Gain on Visa shares	7,990 <sup>(b)</sup>	—	914 <sup>(c)</sup>
Estimated bargain purchase gain associated with the First Republic acquisition	103	2,775	—
Gain related to the acquisition of CIFM <sup>(a)</sup>	—	339	—

(a) Gain on the original minority interest in CIFM upon the Firm's acquisition of the remaining 51% of the entity.

(b) Relates to the initial gain recognized on May 6, 2024 on the Visa C shares. Refer to Note 2 for additional information.

(c) Relates to the sale of Visa B shares.

Refer to Note 18 for additional information on operating leases.

### Proportional Amortization Method:

Effective January 1, 2024, as a result of adopting updates to the Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method guidance, the amortization of certain

### Noninterest expense

#### Other expense

Other expense on the Firm's Consolidated statements of income included:

Year ended December 31, (in millions)	2024	2023	2022
Legal expense	\$ 740	\$1,436	\$ 266
FDIC-related expense	1,893 <sup>(c)</sup>	4,203 <sup>(c)</sup>	860
Operating losses	1,417	1,228	1,101
Contribution of Visa shares <sup>(a)</sup>	1,000	—	—
First Republic-related expense <sup>(b)</sup>	777	1,060	—

(a) Represents the contribution of a portion of Visa C shares to the JPMorgan Chase Foundation recorded in the second quarter of 2024. Refer to Note 2 for additional information.

(b) Reflects the expenses classified within other expense, including \$488 million and \$360 million of integration and restructuring costs associated with First Republic for the full years ended December 31, 2024 and 2023, respectively. Additionally, the second quarter of 2023 included payments to the FDIC for the First Republic individuals who were not employees of the Firm until July 2, 2023. Refer to Note 34 for additional information on the First Republic acquisition.

(c) The first quarter of 2024 included an increase of \$725 million to the FDIC special assessment reflecting the FDIC's revised estimate of Deposit Insurance Fund losses. The fourth quarter of 2023 included the \$2.9 billion FDIC special assessment.

Refer to Note 32 for additional information on noninterest revenue and expense by segment.



**Note 7 - Interest income and interest expense**

Interest income and interest expense are recorded in the Consolidated statements of income and classified based on the nature of the underlying asset or liability.

Interest income and interest expense includes the current-period interest accruals for financial instruments measured at fair value, except for derivatives and certain financial instruments containing embedded derivatives; for those instruments, all changes in fair value including any interest elements, are primarily reported in principal transactions revenue. For financial instruments that are not measured at fair value, the related interest is included within interest income or interest expense, as applicable. Interest income and interest expense also includes the effect of derivatives that qualify for hedge accounting where applicable.

Interest income on loans and securities include the amortization and accretion of purchase premiums and discounts, as well as net deferred fees and costs on loans. These amounts are deferred in loans and investment securities, respectively, and recognized on a level-yield basis.

Refer to Notes 5, 10, 11, 12, and 20 for further information on accounting for interest income and interest expense related to hedge accounting, investment securities, securities financing activities (i.e., securities purchased or sold under resale or repurchase agreements; securities borrowed; and securities loaned), loans and long-term debt, respectively.

The following table presents the components of interest income and interest expense:

Year ended December 31, (in millions)			
	2024	2023	2022
<b>Interest income</b>			
Loans	\$ 92,353 <sup>(d)</sup>	\$ 83,384 <sup>(d)</sup>	\$52,736
Taxable securities	21,947	17,390	10,372
Non-taxable securities <sup>(a)</sup>	1,197	1,336	975
Total investment securities	(d) 23,144	(d) 18,726	11,347
Trading assets - debt instruments	20,327	15,950	9,053
Federal funds sold and securities purchased under resale agreements	18,299	15,079	4,632
Securities borrowed	9,208	7,983	2,237
Deposits with banks	22,297	21,797	9,039
All other interest-earning assets <sup>(b)</sup>	8,305	7,669	3,763
<b>Total interest income</b>	<b>\$193,933</b>	<b>\$170,588</b>	<b>\$92,807</b>
<b>Interest expense</b>			
Interest bearing deposits	\$ 49,559	\$ 40,016	\$10,082
Federal funds purchased and securities loaned or sold under repurchase agreements	19,149	13,259	3,721
Short-term borrowings	2,101	1,894	747
Trading			



## Notes to consolidated financial statements

### Note 8 – Pension and other postretirement employee benefit plans

The Firm has various defined benefit pension plans and OPEB plans that provide benefits to its employees in the U.S. and certain non-U.S. locations. Substantially all the defined benefit pension plans are closed to new participants. The principal defined benefit pension plan in the U.S., which covered substantially all U.S. employees, was closed to new participants and frozen for existing participants on January 1, 2020, (and January 1, 2019 for new hires on or after December 2, 2017). Interest credits continue to accrue to participants' accounts based on their accumulated balances.

The Firm maintains funded and unfunded postretirement benefit plans that provide medical and life insurance for certain eligible employees and retirees

as well as their dependents covered under these programs. None of these plans have a material impact on the Firm's Consolidated Financial Statements.

The Firm also provides a qualified defined contribution plan in the U.S. and maintains other similar arrangements in certain non-U.S. locations. The most significant of these plans is the JPMorgan Chase 401(k) Savings Plan ("the 401(k) Savings Plan"), which covers substantially all U.S. employees. Employees can contribute to the 401(k) Savings Plan on a pretax and/or Roth 401(k) after-tax basis. The Firm makes annual matching and pay credit contributions to the 401(k) Savings Plan on behalf of eligible participants.

The following table presents the pretax benefit obligations, plan assets, the net funded status, and the amounts recorded in AOCI on the Consolidated balance sheets for the Firm's significant defined benefit pension and OPEB plans.

As of or for the year ended December 31, (in millions)	2024	2023
Projected benefit obligations	\$ (14,459)	\$ (14,740)
Fair value of plan assets	22,201	22,013
Net funded status	7,742	7,273
Accumulated other comprehensive income/(loss)	(1,649)	(1,517)

The weighted-average discount rate used to value the benefit obligations as of December 31, 2024 and 2023, was 5.49% and 5.16%, respectively.

#### Gains and losses

Gains or losses resulting from changes in the benefit obligation and the fair value of plan assets are recorded in OCI. Amortization of net gains or losses are recognized as part of the net periodic benefit cost over subsequent periods, if, as of the beginning of the year, the net gain or loss exceeds 10% of the greater of the projected benefit obligation or the fair value of the plan assets. Amortization is generally over the average expected remaining lifetime of plan participants, given the frozen status of most plans. For the year ended

December 31, 2024, the net loss was attributable to lower than expected returns on plan assets, partially offset by projected benefit obligation net gains primarily related to changes in the discount rate. For the year ended December 31, 2023, the net gain was attributable to market-driven increases in the fair value of plan assets, partially offset by changes in the discount rate and interest crediting rate.

The following table presents the net periodic benefit costs reported in the Consolidated statements of income for the Firm's defined benefit pension, defined contribution and OPEB plans, and in other comprehensive income for the defined benefit pension and OPEB plans.

Year ended December 31, (in millions)	2024	2023	2022
Total net periodic defined benefit plan cost/(credit) <sup>(a)</sup>	\$ (462)	\$ (393)	\$ (192) <sup>(b)</sup>
Total defined contribution plans	1,733	1,609	1,408
<b>Total pension and OPEB cost included in noninterest expense</b>	<b>\$ 1,271</b>	<b>\$ 1,216</b>	<b>\$ 1,216</b>
<b>Total recognized in other comprehensive (income)/loss</b>	<b>\$ 131</b>	<b>\$ (421)</b>	<b>\$ 1,459</b>

(a) The service cost component of net periodic defined benefit cost is reported in compensation expense; all other components of net periodic defined benefit costs are reported in other expense in the Consolidated statements of income.

(b) Includes pension settlement losses of \$92 million for the year ended December 31, 2022.



The following table presents the weighted-average actuarial assumptions used to determine the net periodic benefit costs for the defined benefit pension and OPEB plans.

Year ended December 31,	2024	2023	2022
Discount rate	5.16 %	5.14 %	2.54 %
Expected long-term rate of return on plan assets	6.15 %	5.74 %	3.68 %

#### Plan assumptions

The Firm's expected long-term rate of return is a blended weighted average, by asset allocation of the projected long-term returns for the various asset classes, taking into consideration local market conditions and the specific allocation of plan assets. Returns on asset classes are developed using a forward-looking approach and are not strictly based on historical returns, with consideration given to current market conditions and the portfolio mix of each plan.

The discount rates used in determining the benefit obligations are generally provided by the Firm's actuaries, with the Firm's principal defined benefit pension plan using a rate that was selected by reference to the yields on portfolios of bonds with maturity dates and coupons that closely match the plan's projected annual cash flows.

#### Investment strategy and asset allocation

The assets of the Firm's defined benefit pension plans are held in various trusts and are invested in well-diversified portfolios of equity and fixed income securities, cash and cash equivalents, and alternative investments. The Firm regularly reviews the asset allocations and asset managers, as well as other factors that could impact the portfolios, which are rebalanced when deemed necessary. As of December 31, 2024, the approved asset allocation ranges by asset class for the Firm's principal defined benefit plan are 41-100% debt securities, 0-40% equity securities, 0-1% real estate, and 0-8% alternatives.

Assets held by the Firm's defined benefit pension and OPEB plans do not include securities issued by JPMorganChase or its affiliates, except through indirect exposures through investments in exchange traded funds, mutual funds and collective investment funds managed by third-parties. The defined benefit pension and OPEB plans hold investments that are sponsored or managed by affiliates of JPMorganChase in the amount of \$1.8 billion as of both December 31, 2024 and 2023.

#### Fair value measurement of the plans' assets and liabilities

Refer to Note 2 for information on fair value measurements, including descriptions of level 1, 2, and 3 of the fair value hierarchy and the valuation methods employed by the Firm.

**Defined benefit pension and OPEB plans assets and liabilities measured at fair value**

December 31, (in millions)	2024				2023			
	Level 1 <sup>(a)</sup>	Level 2 <sup>(b)</sup>	Level 3 <sup>(c)</sup>	Total fair value	Level 1 <sup>(a)</sup>	Level 2 <sup>(b)</sup>	Level 3 <sup>(c)</sup>	Total fair value
Assets measured at fair value classified in the fair value hierarchy	\$ 6,910	\$ 9,693	\$ 3,956	\$ 20,559	\$ 6,521	\$ 10,713	\$ 3,124	\$ 20,358
Assets measured at fair value using NAV as a practical expedient				2,101				2,097
Net defined benefit pension plan payables				(459)				(442)
<b>Total fair value of plan assets</b>				<b>\$ 22,201</b>				<b>\$ 22,013</b>

(a) Consists predominantly of equity securities, U.S. federal, state, and local and non-U.S. government debt securities, and cash equivalents.

(b) Consists of corporate debt securities, fund investments, mortgage-backed securities, and U.S. federal, state, and local and non-U.S. government debt securities.

(c) Consists predominantly of corporate-owned life insurance policies.

Notes to consolidated financial statements

Changes in level 3 fair value measurements using significant unobservable inputs

Investments classified in level 3 of the fair value hierarchy increased in 2024 to \$4.0 billion, due to \$536 million of transfers in and \$415 million in unrealized gains, partially offset by \$123 million in settlements. The net increase in 2023 was due to \$400 million in unrealized gains and \$173 million of transfers in, partially offset by \$59 million in settlements.

Estimated future benefit payments

The following table presents benefit payments expected to be paid for the defined benefit pension and OPEB plans for the years indicated.

Year ended December 31, (in millions)		
2025	\$	1,186
2026		1,155
2027		1,134
2028		1,095
2029		1,093
Years 2030-2034		5,229

**Note 9 – Employee share-based incentives**

### Employee share-based awards

In 2024, 2023 and 2022, JPMorganChase granted long-term share-based awards to certain employees under its LTIP, as amended and restated effective May 18, 2021, and subsequently amended effective May 21, 2024. Under the terms of the LTIP, as of December 31, 2024, 81 million shares of common stock were available for issuance through May 2028. The LTIP is the only active plan under which the Firm is currently granting share-based incentive awards. In the following discussion, the LTIP constitutes the Firm's share-based incentive plans.

RSUs are awarded at no cost to the recipient upon their grant.

Generally, RSUs are granted annually and vest at a rate of 50% after two years and 50% after three years and are converted into shares of common stock as of the vesting date. In addition, RSUs typically include full-career eligibility provisions, which allow employees to continue to vest upon voluntary termination based on age and/or service-related requirements, subject to post-employment and other restrictions. All RSU awards are subject to forfeiture until vested and contain clawback provisions that may result in cancellation under certain specified circumstances.

Predominantly all RSUs entitle the recipient to receive cash payments equivalent to any dividends paid on the underlying common stock during the period the RSUs are outstanding.

Performance share units ("PSUs") are granted annually, and approved by the Firm's Board of Directors, to members of the Firm's Operating Committee under the variable compensation program. PSUs are subject to the Firm's achievement of specified performance criteria over a three-year period. The number of awards that vest can range from zero to 150% of the grant amount. In addition, dividends that accrue during the vesting period are reinvested in dividend equivalent share units. PSUs and the related dividend equivalent share units are converted into shares of common stock after vesting.

Once the PSUs and dividend equivalent share units have vested, the shares of common stock that are delivered, after applicable tax withholding, must be retained for an additional holding period, for a total combined vesting and holding period of approximately five to eight years from the grant date depending on regulations in certain countries.

Under the LTI Plans, stock appreciation rights ("SARs") were granted with an exercise price equal to the fair value of JPMorganChase's common stock on the grant date. SARs expire ten years after the grant date. There were no grants of SARs in 2024, 2023 or 2022.

The Firm separately recognizes compensation expense for each tranche of each award, net of estimated forfeitures, as if it were a separate award with its own vesting date. Generally, for each tranche granted, compensation expense is recognized on a straight-line basis from the grant date until the vesting date of the respective tranche, provided that the employees will not become full-career eligible during the vesting period. For awards with full-career eligibility provisions and awards granted with no future substantive service requirement, the Firm accrues the estimated value of awards expected to be awarded to employees as of the grant date without giving consideration to the impact of post-employment restrictions. For each tranche granted to employees who will become full-career eligible during the vesting period, compensation expense is recognized on a straight-line basis from the grant date until the earlier of the employee's full-career eligibility date or the vesting date of the respective tranche.

The Firm's policy for issuing shares upon settlement of employee share-based incentive awards is to issue either new shares of common stock or treasury shares. During 2024, 2023 and 2022, the Firm settled all of its employee share-based awards by issuing treasury shares.

Refer to Note 23 for further



## Notes to consolidated financial statements

### RSUs, PSUs and SARs activity

Generally, compensation expense for RSUs and PSUs is measured based on the number of units granted multiplied by the stock price at the grant date, and for SARs, is measured at the grant date using the Black-Scholes valuation model. Compensation expense for these awards is recognized in net income as described previously. The following table summarizes JPMorganChase's RSUs, PSUs and SARs activity for 2024.

Year ended December 31, 2024	RSUs/PSUs			SARs		
	(in thousands, except weighted-average data, and where otherwise stated)	Number of units	Weighted- average grant date fair value	Number of awards	Weighted- average exercise price	Weighted- average remaining contractual life (in years) Aggregate intrinsic value
Outstanding, January 1	52,243	\$	141.31	2,250	\$	152.19
Granted	20,020		166.74	—	—	
Exercised or vested	(19,542)		143.02	—	—	
Forfeited	(2,112)		147.41	—	—	
Canceled	NA		NA	—	—	
<b>Outstanding, December 31</b>	<b>50,609</b>	<b>\$</b>	<b>150.41</b>	<b>2,250</b>	<b>\$</b>	<b>152.19</b>
Exercisable, December 31	NA		NA	—	—	6.7 \$198,113

The total fair value of RSUs and PSUs that vested during the years ended December 31, 2024, 2023 and 2022, was \$3.5 billion, \$2.5 billion and \$3.2 billion, respectively. There were no SARs exercised in 2024. The total intrinsic value of SARs exercised during the years ended December 31, 2023 and 2022, was \$24 million and \$75 million, respectively.

### Compensation expense

The Firm recognized the following noncash compensation expense related to its various employee share-based incentive plans in its Consolidated statements of income.

Year ended December 31, (in millions)	2024	2023	2022
Cost of prior grants of RSUs, PSUs and SARs that are amortized over their applicable vesting periods	\$1,622	\$1,510	\$1,253
Accrual of estimated costs of share-based awards to be granted in future periods, predominantly those to full-career eligible employees	1,882	1,607	1,541
<b>Total noncash compensation expense related to employee share-based incentive plans</b>	<b>\$3,504</b>	<b>\$3,117</b>	<b>\$2,794</b>

At December 31, 2024, approximately \$963 million (pretax) of compensation expense related to unvested awards had not yet been charged to net income. That cost is expected to be amortized into compensation expense over a weighted-average period of 1.6 years. The Firm does not capitalize any compensation expense related to share-based compensation awards to employees.

### Tax benefits

Income tax benefits (including tax benefits from dividends or dividend equivalents) related to share-based incentive arrangements recognized in the Firm's Consolidated statements of income for the years ended December 31, 2024, 2023 and 2022, were \$1.0 billion, \$836 million and \$901 million, respectively.



## **Note 10 - Investment securities**

Investment securities consist of debt securities that are classified as AFS or HTM. Debt securities classified as trading assets are discussed in Note 2. Predominantly all of the Firm's AFS and HTM securities are held by Treasury and CIO in connection with its asset-liability management activities.

AFS securities are carried at fair value on the Consolidated balance sheets. Unrealized gains and losses, after any applicable hedge accounting adjustments or allowance for credit losses, are reported in AOCI. The specific identification method is used to determine realized gains and losses on AFS securities, which are included in investment securities gains/(losses) on the Consolidated statements of income. HTM securities, which the Firm has the intent and ability to hold until maturity, are carried at amortized cost, net of allowance for credit losses, on the Consolidated balance sheets.

For both AFS and HTM securities, purchase discounts or premiums are generally amortized into interest income on a level-yield basis over the contractual life of the security. However, premiums on certain callable debt securities are amortized to the earliest call date.

## **Notes to consolidated financial statements**

The amortized costs and estimated fair values of the investment securities portfolio were as follows for the dates indicated.

	2024				2023			
	Amortized cost <sup>(d)(e)</sup>	Gross gains	Gross unrealized losses	Fair value	Amortized cost <sup>(d)(e)</sup>	Gross gains	Gross unrealized losses	Fair value
December 31, (in millions)								
<b>Available-for-sale securities</b>								
Mortgage-backed securities:								
U.S. GSEs and government agencies	\$ 95,671	\$ 251	\$ 4,029	\$ 91,893	\$ 88,377	\$ 870	\$ 4,077	\$ 85,170
Residential:								
U.S.	4,242	16	50	4,208	2,086	10	68	2,028
Non-U.S.	600	3	—	603	1,608	4	1	1,611
Commercial	4,115	20	70	4,065	2,930	12	139	2,803
<b>Total mortgage-backed securities</b>	<b>104,628</b>	<b>290</b>	<b>4,149</b>	<b>100,769</b>	<b>95,001</b>	<b>896</b>	<b>4,285</b>	<b>91,612</b>
U.S. Treasury and government agencies	235,495	545	1,261	234,779	58,051	276	522	57,805
Obligations of U.S. states and municipalities	18,337	110	534	17,913	21,243	390	266	21,367
Non-U.S. government debt securities	36,655	94	504	36,245	21,387	254	359	21,282
Corporate debt securities	71	—	1	70	128	—	28	100
Asset-backed securities:								
Collateralized loan obligations	14,887	59	3	14,943	6,769	11	28	6,752
Other	2,125	17	9	2,133	2,804	8	26	2,786
Unallocated portfolio layer fair value basis adjustments <sup>(a)</sup>	(1,153)	—	(1,153)	NA	73	(73)	—	NA
<b>Total available-for-sale securities</b>	<b>411,045</b>	<b>1,115</b>	<b>5,308</b>	<b>406,852</b>	<b>205,456</b>	<b>1,762</b>	<b>5,514</b>	<b>201,704</b>
<b>Held-to-maturity securities<sup>(b)</sup></b>								
Mortgage-backed securities:								
U.S. GSEs and government agencies	97,177	6	13,531	83,652	105,614	39	11,643	94,010
U.S. Residential	8,605	4	904	7,705	9,709	4	970	8,743

- (a) Represents the amount of portfolio layer method basis adjustments related to AFS securities hedged in a closed portfolio. Under U.S. GAAP portfolio layer method basis adjustments are not allocated to individual securities, however the amounts impact the unrealized gains or losses in the table for the types of securities being hedged. Refer to Note 1 and Note 5 for additional information.
- (b) The Firm purchased \$4.7 billion, \$4.1 billion and \$33.7 billion of HTM securities for the years ended December 31, 2024, 2023 and 2022, respectively.
- (c) Effective January 1, 2023, the Firm adopted the portfolio layer method hedge accounting guidance which permitted a transfer of HTM securities to AFS upon adoption. The Firm transferred obligations of U.S. states and municipalities with a carrying value of \$7.1 billion resulting in the recognition of \$38 million net pre-tax unrealized losses in AOCI. This transfer was a non-cash transaction. Refer to Note 24 for additional information.
- (d) The amortized cost of investment securities is reported net of allowance for credit losses of \$152 million, \$128 million and \$96 million at December 31, 2024, 2023 and 2022, respectively.
- (e) Excludes \$3.7 billion and \$2.8 billion of accrued interest receivable at December 31, 2024 and 2023, respectively, included in accrued interest and accounts receivable on the Consolidated balance sheets. The Firm generally does not recognize an allowance for credit losses on accrued interest receivable, consistent with its policy to write them off no later than 90 days past due by reversing interest income. The Firm did not reverse through interest income any accrued interest receivable for the years ended December 31, 2024 and 2023.

At December 31, 2024, the investment securities portfolio consisted of debt securities with an average credit rating of AA+ (based upon external ratings where available, and where not available, based primarily upon internal risk ratings). Risk ratings are used to identify the credit quality of securities and differentiate risk within the portfolio. The Firm's internal risk ratings generally align with the qualitative characteristics (e.g., borrower capacity to meet financial commitments and vulnerability to changes in the economic environment) defined by S&P and

Moody's, however the quantitative characteristics (e.g., probability of default ("PD") and loss given default ("LGD")) may differ as they reflect internal historical experiences and assumptions. Risk ratings are assigned at acquisition, reviewed on a regular and ongoing basis by Credit Risk Management and adjusted as necessary over the life of the investment for updated information affecting the issuer's ability to fulfill its obligations.

#### **AFS securities impairment**

The following tables present the fair value and gross unrealized losses by aging category for AFS securities at December 31, 2024 and 2023. The tables exclude U.S. Treasury and government agency securities and U.S. GSE and government agency MBS with unrealized losses of \$5.3 billion and \$4.6 billion, at December 31, 2024 and 2023, respectively; changes in the value of these securities are generally driven by changes in interest rates rather than changes in their credit profile given the explicit or implicit guarantees provided by the U.S. government.

			Available-for-sale securities with gross unrealized losses			
			Less than 12 months		12 months or more	
Year ended December 31, 2024 (in millions)	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses	Total fair value	Total gross unrealized losses
Available-for-sale securities						
Mortgage-backed securities:						
Residential:						
U.S.	\$ 1,505	\$ 6	\$ 925	\$ 44	\$ 2,430	\$ 50
Non-U.S.	—	—	30	—	30	—
Commercial	763	8	1,184	62	1,947	70
Total mortgage-backed securities	2,268	14	2,139	106	4,407	120
Obligations of U.S. states and municipalities	10,037	233	2,412	301	12,449	534
Non-U.S. government debt securities	14,234	234	4,184	270	18,418	504
Corporate debt securities	9	—	30	1	39	1
Asset-backed securities:						
Collateralized loan obligations	2	—	375	3	377	3
Other	214	1	200	8	414	9
Total available-for-sale securities with gross unrealized losses	\$ 26,764	\$ 482	\$ 9,340	\$ 689	\$ 36,104	\$ 1,171

Year ended December 31, 2023 (in millions)	Available-for-sale securities with gross unrealized losses					
	Less than 12 months		12 months or more		Total fair value	Total gross unrealized losses
	Fair value	Gross unrealized losses	Fair value	Gross unrealized losses		
<b>Available-for-sale securities</b>						
Mortgage-backed securities:						
Residential:						
U.S.	\$ 81	\$ —	\$ 1,160	\$ 68	\$ 1,241	\$ 68
Non-U.S.	—	—	722	1	722	1
Commercial	228	3	1,775	136	2,003	139
<b>Total mortgage-backed securities</b>	309	3	3,657	205	3,966	208
Obligations of U.S. states and municipalities	2,134	20	2,278	246	4,412	266
Non-U.S. government debt securities	7,145	23	4,987	336	12,132	359
Corporate debt securities	9	—	79	28	88	28
Asset-backed securities:						
Collateralized loan obligations	932	2	3,744	26	4,676	28
Other	208	1	1,288	25	1,496	26
<b>Total available-for-sale securities with gross unrealized losses</b>	<b>\$ 10,737</b>	<b>\$ 49</b>	<b>\$ 16,033</b>	<b>\$ 866</b>	<b>\$ 26,770</b>	<b>\$ 915</b>

**Notes to consolidated financial statements**



AFS securities are considered impaired if the fair value is less than the amortized cost.

The Firm recognizes impairment losses in earnings if the Firm has the intent to sell the debt security, or if it is more likely than not that the Firm will be required to sell the debt security before recovery of its amortized cost. In these circumstances the impairment loss is recognized in investment securities gains/(losses) in the Consolidated Statements of Income and is equal to the full difference between the amortized cost (net of allowance if applicable) and the fair value of the security.

For impaired debt securities that the Firm has the intent and ability to hold, the securities are evaluated to determine if a credit loss exists. If it is determined that a credit loss exists, that loss is recognized as an allowance for credit losses through the provision for credit losses in the Consolidated Statements of Income, limited by the amount of impairment. Any impairment on debt securities that the Firm has the intent and ability to hold not due to credit losses is recorded in OCI.

Factors considered in evaluating credit losses include adverse conditions specifically related to the industry, geographic area or financial condition of the issuer or underlying collateral of a security; and payment structure of the security.

When assessing securities issued in a securitization for credit losses, the Firm estimates cash flows considering relevant market and economic data, underlying loan-level data, and structural features of the securitization, such as subordination, excess spread, overcollateralization or other forms of credit enhancement, and compares the losses projected for the underlying collateral ("pool losses") against the level of credit enhancement in the securitization structure to determine whether these features are sufficient to absorb the pool losses, or whether a credit loss

to the amortized cost. The credit loss factors are derived using a weighted average of five internally developed eight-quarter macroeconomic scenarios, followed by a single year straight-line interpolation to revert to long run historical information for periods beyond the forecast period. Refer to Note 13 for further information on the eight-quarter macroeconomic forecast.

The allowance for credit losses on HTM collateralized loan obligations and U.S. residential mortgage-backed securities is calculated as the difference between the amortized cost and the present value of the cash flows expected to be collected, discounted at the security's effective interest rate. These cash flow estimates are developed based on expectations of underlying collateral performance derived using the eight-quarter macroeconomic forecast and the single year straight-line interpolation, as well as considering the structural features of the security.

The application of different inputs and assumptions into the calculation of the allowance for credit losses is subject to significant management judgment, and emphasizing one input or assumption over another, or considering other inputs or assumptions, could affect the estimate of the allowance for credit losses on HTM securities.

#### *Credit quality indicator*

The primary credit quality indicator for HTM securities is the risk rating assigned to each security. At both December 31, 2024 and 2023, all HTM securities were rated investment grade and were current and accruing, with approximately 99% rated at least AA+ (based upon external ratings where available, and where not available, based primarily upon internal risk ratings).

#### **Allowance for credit losses on investment securities**

The allowance for credit losses on investment securities was \$152 million, \$128 million and \$96 million as of December 31, 2024,



**Contractual maturities and yields**

The following table presents the amortized cost and estimated fair value at December 31, 2024, of JPMorganChase’s investment securities portfolio by contractual maturity.

By remaining maturity	Due after one		Due after five			
December 31, 2024 (in	Due in one	year through	years through	Due after		
millions)	year or less	five years	10 years	10 years <sup>(c)</sup>	Total	
Available-for-sale securities						
Mortgage-backed securities						
Amortized cost	\$ 132	\$ 9,410	\$ 4,059	\$ 91,027	\$ 104,628	
Fair value	130	9,345	4,041	87,253	100,769	
Average yield <sup>(a)</sup>	3.32 %	4.58 %	5.25 %	4.75 %	4.75 %	
U.S. Treasury and government agencies						
Amortized cost	\$ 20,685	\$ 169,162	\$ 38,667	\$ 6,981	\$ 235,495	
Fair value	20,730	169,145	38,619	6,285	234,779	
Average yield <sup>(a)</sup>	4.50 %	4.57 %	4.96 %	5.53 %	4.65 %	
Obligations of U.S. states and municipalities						
Amortized cost	\$ 4	\$ 16	\$ 92	\$ 18,225	\$ 18,337	
Fair value	4	16	90	17,803	17,913	
Average yield <sup>(a)</sup>	1.59 %	3.95 %	4.46 %	5.32 %	5.32 %	
Non-U.S. government debt securities						
Amortized cost	\$ 13,331	\$ 11,769	\$ 7,609	\$ 3,946	\$ 36,655	
Fair value	13,327	11,701	7,403	3,814	36,245	
Average yield <sup>(a)</sup>	4.24 %	4.32 %	2.82 %	4.15 %	3.96 %	
Corporate debt securities						
Amortized cost	\$ 106	\$ 9	\$ 5	\$ —	\$ 120	
Fair value	57	9	4	—	70	
Average yield <sup>(a)</sup>	14.09 %	4.06 %	4.19 %	— %	12.92 %	
Asset-backed securities						
Amortized cost	\$ —	\$ 368	\$ 1,609	\$ 15,035	\$ 17,012	
Fair value	—	370	1,619	15,087	17,076	
Average yield <sup>(a)</sup>	— %	6.14 %	6.04 %	5.96 %	5.97 %	
Total available-for-sale securities						
Amortized cost <sup>(b)</sup>	\$ 34,258	\$ 190,734	\$ 52,041	\$ 135,214	\$ 412,247	
Fair value	34,248	190,586	51,776	130,242	406,852	
Average yield <sup>(a)</sup>	4.42 %	4.56 %	4.70 %	4.98 %	4.70 %	
Held-to-maturity securities						
Mortgage-backed securities						
Amortized cost	\$ 104	\$ 7,994	\$ 6,077	\$ 100,495	\$ 114,670	
Fair value	101	7,453	5,352	86,903	99,809	
Average yield <sup>(a)</sup>	0.97 %	2.63 %	2.67 %	2.95 %	2.92 %	
U.S. Treasury and government agencies						
Amortized cost	\$ 20,083	\$ 40,497	\$ 48,052	\$ —	\$ 108,632	
Fair value	19,500	37,715	40,205	—	97,420	
Average yield <sup>(a)</sup>	0.43 %	1.23 %	1.25 %	— %	1.09 %	
Obligations of U.S. states and municipalities						
Amortized cost	\$ —	\$ —	\$ 227	\$ 2,222	\$ 2,449	
Fair value	—	—	—	—	—	
Average yield <sup>(a)</sup>	— %	— %	— %	— %	— %	

- (a) Average yield is computed using the effective yield of each security owned at the end of the period, weighted based on the amortized cost of each security. The effective yield considers the contractual coupon, amortization of premiums and accretion of discounts, and the effect of related hedging derivatives, including closed portfolio hedges. Taxable-equivalent amounts are used where applicable. The effective yield excludes unscheduled principal prepayments; and accordingly, actual maturities of securities may differ from their contractual or expected maturities as certain securities may be prepaid. However, for certain callable debt securities, the average yield is calculated to the earliest call date.
- (b) For purposes of this table, the amortized cost of available-for-sale securities excludes the allowance for credit losses of \$49 million and the portfolio layer fair value hedge basis adjustments of \$(1.2) billion at December 31, 2024. The amortized cost of held-to-maturity securities also excludes the allowance for credit losses of \$103 million at December 31, 2024.
- (c) Substantially all of the Firm's U.S. residential MBS and collateralized mortgage obligations are due in 10 years or more, based on contractual maturity. The estimated weighted-average life, which reflects anticipated future prepayments, is approximately eight years for agency residential MBS, six years for agency residential collateralized mortgage obligations, and five years for nonagency residential collateralized mortgage obligations.

## **Notes to consolidated financial statements**

### **Note 11 - Securities financing activities**

JPMorganChase enters into resale, repurchase, securities borrowed and securities loaned agreements (collectively, "securities financing agreements") primarily to finance the Firm's inventory positions, acquire securities to cover short sales, accommodate customers' financing needs, settle other securities obligations and to deploy the Firm's excess cash.

Securities financing agreements are treated as collateralized financings on the Firm's Consolidated balance sheets. Where appropriate under applicable accounting guidance, securities financing agreements with the same counterparty are reported on a net basis. Refer to Note 1 for further discussion of the offsetting of assets and liabilities. Fees received and paid in connection with securities financing agreements are recorded over the life of the agreement in interest income and interest expense on the Consolidated statements of income.

The Firm has elected the fair value option for certain securities financing agreements. Refer to Note 3 for further information regarding the fair value option. The securities financing agreements for which the fair value option has been elected are reported within securities purchased under resale agreements, securities loaned or sold under repurchase agreements, and securities borrowed on the Consolidated balance sheets. Generally, for agreements carried at fair value, current-period interest accruals are recorded within interest income and interest expense, with changes in fair value reported in principal transactions revenue. However, for financial instruments containing embedded derivatives that would be separately accounted for in accordance with accounting guidance for hybrid instruments, all changes in fair value, including any interest elements, are reported in principal transactions revenue.

Securities financing agreements not elected under the fair value option are measured at amortized cost. As a result of the Firm's credit risk

### **Credit risk mitigation practices**

Securities financing agreements expose the Firm primarily to credit and liquidity risk. To manage these risks, the Firm monitors the value of the underlying securities (predominantly high-quality securities collateral, including government-issued debt and U.S. GSEs and government agencies MBS) that it has received from or provided to its counterparties compared to the value of cash proceeds and exchanged collateral, and either requests additional collateral or returns securities or collateral when appropriate. Margin levels are initially established based upon the counterparty, the type of underlying securities, and the permissible collateral, and are monitored on an ongoing basis.

In resale and securities borrowed agreements, the Firm is exposed to credit risk to the extent that the value of the securities received is less than initial cash principal advanced and any collateral amounts exchanged. In repurchase and securities loaned agreements, credit risk exposure arises to the extent that the value of underlying securities advanced exceeds the value of the initial cash principal received, and any collateral amounts exchanged.

Additionally, the Firm typically enters into master netting agreements and other similar arrangements with its counterparties, which provide for the right to liquidate the underlying securities and any collateral amounts exchanged in the event of a counterparty default. It is also the Firm's policy to take possession, where possible, of the securities underlying resale and securities borrowed agreements. Refer to Note 29 for further information regarding assets pledged and collateral received in securities financing agreements.





The table below summarizes the gross and net amounts of the Firm's securities financing agreements, as of December 31, 2024 and 2023. When the Firm has obtained an appropriate legal opinion with respect to a master netting agreement with a counterparty and where other relevant netting criteria under U.S. GAAP are met, the Firm nets, on the Consolidated balance sheets, the balances outstanding under its securities financing agreements with the same counterparty. In addition, the Firm exchanges securities and/or cash collateral with its counterparty to reduce the economic exposure with the counterparty, but such collateral is not eligible for net Consolidated balance sheet presentation. Where the Firm has obtained an appropriate legal opinion with respect to the counterparty master netting agreement, such

collateral, along with securities financing balances that do not meet all these relevant netting criteria under U.S. GAAP, is presented in the table below as "Amounts not nettable on the Consolidated balance sheets," and reduces the "Net amounts" presented. Where a legal opinion has not been either sought or obtained, the securities financing balances are presented gross in the "Net amounts" below. In transactions where the Firm is acting as the lender in a securities-for-securities lending agreement and receives securities that can be pledged or sold as collateral, the Firm recognizes the securities received at fair value within other assets and the obligation to return those securities within accounts payable and other liabilities on the Consolidated balance sheets.

	December 31, 2024				
		Amounts	Amounts	Amounts not	
		netted on	presented on	nettable on	
		the	the	the	
		Consolidated	Consolidated	Consolidated	
	Gross	balance	balance	balance	Net
(in millions)	amounts	sheets	sheets	sheets <sup>(b)</sup>	amounts <sup>(c)</sup>
<b>Assets</b>					
Securities purchased under resale agreements	\$ 607,154	\$ (312,183)	\$ 294,971	\$ (282,220)	\$ 12,751
Securities borrowed	267,917	(48,371)	219,546	(170,702)	48,844
<b>Liabilities</b>					
Securities sold under repurchase agreements	\$ 603,683	\$ (312,183)	\$ 291,500	\$ (249,763)	\$ 41,737
Securities loaned and other <sup>(a)</sup>	58,989	(48,371)	10,618	(10,557)	61

	December 31, 2023				
		Amounts netted on the Consolidated balance sheets	Amounts presented on the Consolidated balance sheets	Amounts not nettable on the Consolidated balance sheets <sup>(b)</sup>	Net amounts <sup>(c)</sup>
(in millions)	Gross amounts				
<b>Assets</b>					
Securities purchased under resale agreements	\$ 523,308	\$ (247,181)	\$ 276,127	\$ (267,582)	\$ 8,545
Securities borrowed	244,046	(43,610)	200,436	(144,543)	55,893
<b>Liabilities</b>					
Securities sold under repurchase agreements	\$ 459,985	\$ (247,181)	\$ 212,804	\$ (182,011)	\$ 30,793
Securities loaned and other <sup>(a)</sup>	52,142	(43,610)	8,532	(8,501)	31

(a) Includes securities-for-securities lending agreements of \$5.9 billion and \$5.6 billion at December 31, 2024 and 2023, respectively, accounted for at fair value, where the Firm is acting as lender.

(b) In some cases, collateral exchanged with a counterparty exceeds the net asset or liability balance with that counterparty. In such cases, the amounts reported in this column are limited to the related net asset or liability with that counterparty.

(c) Includes securities financing agreements that provide collateral rights, but where an appropriate legal opinion with respect to the master netting agreement has not been either sought or obtained. At December 31, 2024 and 2023, included \$8.7 billion and \$7.1 billion, respectively, of securities purchased under resale agreements; \$42.9 billion and \$50.7 billion, respectively, of securities borrowed; \$40.9 billion and \$30.0 billion, respectively, of securities sold under repurchase agreements; and securities loaned and other which were not material.

## Notes to consolidated financial statements

The tables below present as of December 31, 2024 and 2023 the types of financial assets pledged in securities financing agreements and the remaining contractual maturity of the securities financing agreements.

December 31, (in millions)	Gross liability balance			
	2024		2023	
	Securities sold under repurchase agreements	Securities loaned and other	Securities sold under repurchase agreements	Securities loaned and other
Mortgage-backed securities:				
U.S. GSEs and government agencies	\$ 82,645	\$ —	\$ 71,064	\$ —
Residential - nonagency	2,610	—	2,292	—
Commercial - nonagency	2,344	—	2,669	—
U.S. Treasury, GSEs and government agencies	300,022	759	216,467	1,034
Obligations of U.S. states and municipalities	1,872	—	2,323	—
Non-U.S. government debt	117,614	1,852	97,400	1,455
Corporate debt securities	44,495	4,033	39,247	2,025
Asset-backed securities	4,619	—	2,703	—
Equity securities	47,462	52,345	25,820	47,628
<b>Total</b>	<b>\$ 603,683</b>	<b>\$ 58,989</b>	<b>\$ 459,985</b>	<b>\$ 52,142</b>

December 31, 2024 (in millions)	Remaining contractual maturity of the agreements				
	Overnight and continuous	Up to 30 days	30 - 90 days	Greater than 90 days	Total
Total securities sold under repurchase agreements	\$ 308,392	\$ 171,346	\$ 19,932	\$ 104,013	\$ 603,683
Total securities loaned and other	54,066	1,463	1	3,459	58,989

December 31, 2023 (in millions)	Remaining contractual maturity of the agreements				
	Overnight and continuous	Up to 30 days	30 - 90 days	Greater than 90 days	Total
Total securities sold under repurchase agreements	\$ 259,048	\$ 102,941	\$ 20,960	\$ 77,036	\$ 459,985
Total securities loaned and other	49,610	1,544	—	988	52,142

### Transfers not qualifying for sale accounting

At December 31, 2024 and 2023, the Firm held \$805 million and \$505 million, respectively, of financial assets for which the rights have been transferred to third parties; however, the transfers did not qualify as a sale in

accordance with U.S. GAAP. These transfers have been recognized as collateralized financing transactions. The transferred assets are recorded in trading assets and loans, and the corresponding liabilities are recorded primarily in short-term borrowings and long-term debt on the Consolidated balance sheets.

**Note 12 - Loans**

### **Loan accounting framework**

The accounting for a loan depends on management's strategy for the loan. The Firm accounts for loans based on the following categories:

- Originated or purchased loans held-for-investment (i.e., "retained")
- Loans held-for-sale
- Loans at fair value

The following provides a detailed accounting discussion of the Firm's loans by category:

#### ***Loans held-for-investment***

Originated or purchased loans held-for-investment, including PCD, are recorded at amortized cost, reflecting the principal amount outstanding, net of the following: unamortized deferred loan fees, costs, premiums or discounts; charge-offs; collection of cash; and foreign exchange. Credit card loans also include billed finance charges and fees.

#### ***Interest income***

Interest income on performing loans held-for-investment is accrued and recognized as interest income at the contractual rate of interest.

Purchase price discounts or premiums, as well as net deferred loan fees or costs, are recognized in interest income over the contractual life of the loan as an adjustment of yield.

The Firm classifies accrued interest on loans, including accrued but unbilled interest on credit card loans, in accrued interest and accounts receivables on the Consolidated balance sheets. For credit card loans, accrued interest once billed is then recognized in the loan balances, with the related allowance recorded in the allowance for credit losses. Changes in the allowance for credit losses on accrued interest on credit card loans are recognized in the provision for credit losses and charge-offs are recognized by reversing interest income. For other loans, the Firm generally does not recognize an allowance for credit losses on accrued interest receivables, consistent with its policy to write them off no later than 90 days past

the borrower by the contractually specified due date or for certain loans (e.g., residential real estate loans), when a monthly payment is due and unpaid for 30 days or more. Finally, collateral-dependent loans are typically maintained on nonaccrual status.

On the date a loan is placed on nonaccrual status, all interest accrued but not collected is reversed against interest income. In addition, the amortization of deferred amounts is suspended. Interest income on nonaccrual loans may be recognized as cash interest payments are received (i.e., on a cash basis) if the recorded loan balance is deemed fully collectible; however, if there is doubt regarding the ultimate collectibility of the recorded loan balance, all interest cash receipts are applied to reduce the carrying value of the loan (the cost recovery method). For consumer loans, application of this policy typically results in the Firm recognizing interest income on nonaccrual consumer loans on a cash basis.

A loan may be returned to accrual status when repayment is reasonably assured and there has been demonstrated performance under the terms of the loan or, if applicable, the terms of the restructured loan.

As permitted by regulatory guidance, credit card loans are generally exempt from being placed on nonaccrual status; accordingly, interest and fees related to credit card loans continue to accrue until the loan is charged off or paid in full.

#### ***Allowance for loan losses***

The allowance for loan losses represents the estimated expected credit losses in the held-for-investment loan portfolio at the balance sheet date and is recognized on the balance sheet as a contra asset, which brings the amortized cost to the net carrying value. Changes in the allowance for loan losses resulting from lending-related activity, macroeconomic variables, changes in credit and other inputs are recorded in the provision for



**Notes to consolidated financial statements**



accounts placed on a fixed payment plan, are charged off no later than 120 days past due.

Certain consumer loans are charged off or charged down to their net realizable value earlier than the FFIEC charge-off standards in the following circumstances:

- Loans modified to borrowers experiencing financial difficulty that are determined to be collateral-dependent.
- Loans to borrowers who have experienced an event that suggests a loss is either known or highly certain are subject to accelerated charge-off standards (e.g., residential real estate and auto loans are charged off or charged down within 60 days of receiving notification of a bankruptcy filing).
- Auto loans upon repossession of the automobile.

Other than in certain limited circumstances, the Firm typically does not recognize charge-offs on the government-guaranteed portion of loans.

Wholesale loans are charged off when it is highly certain that a loss has been realized. The determination of whether to recognize a charge-off includes many factors, including the prioritization of the Firm's claim in bankruptcy, expectations of the workout/restructuring of the loan and valuation of the borrower's equity or the loan collateral.

When a loan is charged down to the lower of its amortized cost or the estimated net realizable value of the underlying collateral, the determination of the fair value of the collateral depends on the type of collateral (e.g., securities, real estate). In cases where the collateral is in the form of liquid securities, the fair value is based on quoted market prices or broker quotes. For illiquid securities or other financial assets, the fair value of the collateral is generally estimated using a discounted cash flow model.

For residential real estate loans

For commercial real estate loans, collateral values are generally based on appraisals from internal and external valuation sources.

Collateral values are typically updated every six to twelve months, either by obtaining a new appraisal or by performing an internal analysis, in accordance with the Firm's policies. The Firm also considers both borrower- and market-specific factors, which may result in obtaining appraisal updates or broker price opinions at more frequent intervals.

### ***Loans held-for-sale***

Loans held-for-sale are measured at the lower of cost or fair value, with valuation changes recorded in noninterest revenue. For consumer loans, the valuation is performed on a portfolio basis. For wholesale loans, the valuation is performed on an individual loan basis.

Interest income on loans held-for-sale is accrued and recognized based on the contractual rate of interest.

Loan origination fees or costs and purchase price discounts or premiums are deferred in a contra loan account until the related loan is sold. The deferred fees or costs and discounts or premiums are an adjustment to the basis of the loan and therefore are included in the periodic determination of the lower of cost or fair value adjustments and/or the gain or loss recognized at the time of sale.

Because these loans are recognized at the lower of cost or fair value, the Firm's allowance for loan losses and charge-off policies do not apply to these loans. However, loans held-for-sale are subject to the Firm's nonaccrual policies.

### ***Loans at fair value***

Loans for which the fair value option has been elected are measured at fair value, with changes in fair value recorded in noninterest revenue.

Interest income on these loans is accrued and recognized based on the contractual rate of interest. Changes in fair value are recognized in noninterest revenue. Loan origination





### **Loan classification changes**

Loans in the held-for-investment portfolio that management decides to sell are transferred to the held-for-sale portfolio at the lower of cost or fair value on the date of transfer. Credit-related losses are charged against the allowance for loan losses; non-credit related losses such as those due to changes in interest rates or foreign currency exchange rates are recognized in noninterest revenue.

In the event that management decides to retain a loan in the held-for-sale portfolio, the loan is transferred to the held-for-investment portfolio at amortized cost on the date of transfer. These loans are subsequently assessed for impairment based on the Firm's allowance methodology. Refer to Note 13 for a further discussion of the methodologies used in establishing the Firm's allowance for loan losses.

### **Loan modifications**

The Firm seeks to modify certain loans in conjunction with its loss mitigation activities. Through the modification, JPMorganChase grants one or more concessions to a borrower who is experiencing financial difficulty in order to minimize the Firm's economic loss and avoid foreclosure or repossession of the collateral, and to ultimately maximize payments received by the Firm from the borrower. The concessions granted vary by program and by borrower-specific characteristics, and may include interest rate reductions, term extensions, other-than-insignificant payment delays or principal forgiveness.

Loans, except for credit card loans, reported as FDMs are generally placed on nonaccrual status, although in many cases such loans were already on nonaccrual status prior to modification. These loans may be returned to performing status (the accrual of interest is resumed) if the following criteria are met: (i) the borrower has performed under the modified terms for a minimum of six months and/or six payments, and (ii)

### **Foreclosed property**

The Firm acquires property from borrowers through loan restructurings, workouts, and foreclosures. Property acquired may include real property (e.g., residential real estate, land, and buildings) and other commercial and personal property (e.g., automobiles, aircraft, railcars, and ships).

The Firm recognizes foreclosed property upon receiving assets in satisfaction of a loan (e.g., by taking legal title or physical possession). For loans collateralized by real property, the Firm generally recognizes the asset received at foreclosure sale or upon the execution of a deed in lieu of foreclosure transaction with the borrower. Foreclosed assets are reported in other assets on the Consolidated balance sheets and initially recognized at fair value less estimated costs to sell. Each quarter the fair value of the acquired property is reviewed and adjusted, if necessary, to the lower of cost or fair value. Subsequent adjustments to fair value are charged/credited to noninterest revenue. Operating expense, such as real estate taxes and maintenance, are charged to other expense.



## Notes to consolidated financial statements

### Loan portfolio

The Firm's loan portfolio is divided into three portfolio segments, which are the same segments used by the Firm to determine the allowance for loan losses: Consumer, excluding credit card; Credit card; and Wholesale. Within each portfolio segment the Firm monitors and assesses the credit risk in the following classes of loans, based on the risk characteristics of each loan class.

Consumer, excluding credit card	Credit card	Wholesale <sup>(c)(d)</sup>
<ul style="list-style-type: none"><li>• Residential real estate<sup>(a)</sup></li><li>• Auto and other<sup>(b)</sup></li></ul>	<ul style="list-style-type: none"><li>• Credit card loans</li></ul>	<ul style="list-style-type: none"><li>• Secured by real estate</li><li>• Commercial and industrial</li><li>• Other<sup>(e)</sup></li></ul>

(a) Includes scored mortgage and home equity loans held in CCB and AWM, and scored mortgage loans held in CIB.

(b) Includes scored auto, business banking and consumer unsecured loans as well as overdrafts, primarily in CCB.

(c) Includes loans held in CIB, AWM, Corporate, and risk-rated exposure held in CCB, for which the wholesale methodology is applied when determining the allowance for loan losses.

(d) The wholesale portfolio segment's classes align with loan classifications as defined by the bank regulatory agencies, based on the loan's collateral, purpose, and type of borrower.

(e) Includes loans to financial institutions, SPEs, personal investment companies and trusts, individuals and individual entities (predominantly Global Private Bank clients within AWM and J.P. Morgan Wealth Management within CCB), states and political subdivisions, as well as loans to nonprofits. Refer to Note 14 for more information on SPEs.

The following tables summarize the Firm's loan balances by portfolio segment.

December 31, 2024				
(in millions)	Consumer, excluding credit card	Credit card	Wholesale	Total <sup>(a)(b)</sup>
Retained	\$ 376,334	\$ 232,860	\$690,396	\$1,299,590
Held-for-sale	945	—	6,103	7,048
At fair value	15,531	—	25,819	41,350
<b>Total</b>	<b>\$ 392,810</b>	<b>\$ 232,860</b>	<b>\$722,318</b>	<b>\$1,347,988</b>

December 31, 2023				
(in millions)	Consumer, excluding credit card	Credit card	Wholesale	Total <sup>(a)(b)</sup>
Retained	\$ 397,275	\$ 211,123	\$672,472	\$1,280,870
Held-for-sale	487	—	3,498	3,985
At fair value	12,331	—	26,520	38,851
<b>Total</b>	<b>\$ 410,093</b>	<b>\$ 211,123</b>	<b>\$702,490</b>	<b>\$1,323,706</b>

(a) Excludes \$6.6 billion and \$6.8 billion of accrued interest receivable at December 31, 2024 and 2023, respectively. The Firm wrote off accrued interest receivable of \$84 million and \$49 million for the years ended December 31, 2024 and 2023, respectively.

(b) Loans (other than those for which the fair value option has been elected) are presented net of unamortized discounts and premiums and net deferred loan fees or costs. These amounts were not material as of December 31, 2024 and 2023. For the discount associated with First Republic loans, refer to Note 34 on pages 319-321.

The following tables provide information about the carrying value of retained loans purchased, sold and reclassified to held-for-sale during the periods indicated. Loans that were reclassified to held-for-sale and sold in a subsequent period are excluded from the sales line of these tables.

2024				
Year ended December 31, (in millions)	Consumer, excluding credit card	Credit card	Wholesale	Total
Purchases	\$ 647 <sup>(b)(c)</sup>	\$ —	\$ 1,432	\$ 2,079
Sales	10,440	—	45,147	55,587
Retained loans reclassified to held-for-sale <sup>(a)</sup>	1,656	—	749	2,405

2023				
Year ended December 31, (in millions)	Consumer, excluding credit card	Credit card	Wholesale	Total
	(b)(c)			
Purchases	\$ 92,205 <sup>(d)</sup>	\$ —	\$ 60,300 <sup>(d)</sup>	\$ 152,505
Sales	2,202	—	43,949	46,151
Retained loans reclassified to held-for-sale <sup>(a)</sup>	274	—	1,486	1,760





Year ended December 31, (in millions)	2022			
	Consumer, excluding credit card	Credit card	Wholesale	Total
Purchases	\$ 1,625 <sup>(b)(c)</sup>	\$ —	\$ 1,088	\$ 2,713
Sales	2,884	—	41,934	44,818
Retained loans reclassified to held-for-sale <sup>(a)</sup>	229	—	1,055	1,284

(a) Reclassifications of loans to held-for-sale are non-cash transactions.

(b) Includes purchases of residential real estate loans, including the Firm's voluntary repurchases of certain delinquent loans from loan pools as permitted by Government National Mortgage Association ("Ginnie Mae") guidelines for the years ended December 31, 2024, 2023 and 2022. The Firm typically elects to repurchase these delinquent loans as it continues to service them and/or manage the foreclosure process in accordance with applicable requirements of Ginnie Mae, FHA, RHS, and/or VA.

(c) Excludes purchases of retained loans of \$902 million, \$5.1 billion and \$12.4 billion for the years ended December 31, 2024, 2023 and 2022, respectively, which are predominantly sourced through the correspondent origination channel and underwritten in accordance with the Firm's standards.

(d) Includes loans acquired in the First Republic acquisition consisting of \$91.9 billion in Consumer, excluding credit card and \$59.2 billion in Wholesale. Refer to Note 34 for additional information.

### Gains and losses on sales of loans

Net gains/(losses) on sales of loans and lending-related commitments (including adjustments to record loans and lending-related commitments held-for-sale at the lower of cost or fair value) recognized in noninterest revenue were \$154 million for the year ended December 31, 2024, of which \$113 million were related to loans. Net gains/(losses) on sales of loans and lending-related commitments were \$56 million for the year ended December 31, 2023, of which \$62 million were related to loans. Net gains/(losses) on sales of loans and lending-related commitments were \$(186) million for the year ended December 31, 2022, of which \$(48) million were related to loans. In addition, the sale of loans may also result in write downs, recoveries or changes in the allowance recognized in the provision for credit losses.

## **Notes to consolidated financial statements**

### **Consumer, excluding credit card loan portfolio**

Consumer loans, excluding credit card loans, consist primarily of scored residential mortgages, home equity loans and lines of credit, auto and business banking loans, with a focus on serving the prime consumer credit market. These loans include home equity loans secured by junior liens, prime mortgage loans with an interest-only payment period, and certain payment-option loans that may result in negative amortization.

The following table provides information about retained consumer loans, excluding credit card, by class.

December 31, (in millions)	2024	2023
Residential real estate	\$ 309,513	\$ 326,409
Auto and other	66,821	70,866
<b>Total retained loans</b>	<b>\$ 376,334</b>	<b>\$ 397,275</b>

Delinquency rates are the primary credit quality indicator for consumer loans. Loans that are more than 30 days past due provide an early warning of borrowers who may be experiencing financial difficulties and/or who may be unable or unwilling to repay the loan. As the loan continues to age, it becomes more clear whether the borrower is likely to be unable or unwilling to pay. In the case of residential real estate loans, late-stage delinquencies (greater than 150 days past due) are a strong indicator of loans that will ultimately result in a foreclosure or similar liquidation transaction. In addition to delinquency rates, other credit quality indicators for consumer loans vary based on the class of loan, as follows:

- For residential real estate loans, the current estimated LTV ratio, or the combined LTV ratio in the case of junior lien loans, is an indicator of the potential loss severity in the event of default. Additionally, LTV or combined LTV ratios can provide insight into a borrower's continued willingness to pay, as the delinquency rate of high-LTV loans tends to be greater than that for loans where the borrower has equity in the collateral. The geographic distribution of the loan collateral also provides insight as to the credit quality of the portfolio, as factors such as the regional economy, home price changes and specific events such as natural disasters, will affect credit quality. The borrower's current or "refreshed" FICO score is a secondary credit quality indicator for certain loans, as FICO scores are an indication of the borrower's credit payment history. Thus, a loan to a borrower with a low FICO score (less than 660) is considered to be of higher risk than a loan to a borrower with a higher FICO score. Further, a loan to a borrower with a high LTV ratio and a low FICO score is at greater risk of default than a loan to a borrower that has both a high LTV ratio and a high FICO score.



## Residential real estate

Delinquency is the primary credit quality indicator for retained residential real estate loans. The following tables provide information on delinquency and gross charge-offs.

(in millions, except ratios)	December 31, 2024								
	Term loans by origination year <sup>(c)</sup>						Revolving loans		
							Within	Converted	
	2024	2023	2022	2021	2020	Prior to	the revolving	to term	Total
						2020	period	loans	
<b>Loan delinquency<sup>(a)</sup></b>									
Current	\$12,301	\$17,280	\$61,337	\$79,760	\$52,289	\$70,270	\$ 6,974	\$ 7,088	\$307,299
30-149 days past due	13	54	139	110	59	747	53	204	1,379
150 or more days past due	—	11	71	68	49	501	8	127	835
<b>Total retained loans</b>	<b>\$12,314</b>	<b>\$17,345</b>	<b>\$61,547</b>	<b>\$79,938</b>	<b>\$52,397</b>	<b>\$71,518</b>	<b>\$ 7,035</b>	<b>\$ 7,419</b>	<b>\$309,513</b>
% of 30+ days past due to total retained loans <sup>(b)</sup>	0.11 %	0.37 %	0.34 %	0.22 %	0.21 %	1.72 %	0.87 %	4.46 %	0.71 %
<b>Gross charge-offs</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 1</b>	<b>\$ 1</b>	<b>\$ —</b>	<b>\$ 176</b>	<b>\$ 21</b>	<b>\$ 7</b>	<b>\$ 206</b>

(in millions, except ratios)	December 31, 2023								
	Term loans by origination year <sup>(c)</sup>						Revolving loans		
	2023	2022	2021	2020	2019	Prior to 2019	Within	Converted	Total
							the revolving period	to term loans	
<b>Loan delinquency<sup>(a)</sup></b>									
Current	\$23,216	\$64,366	\$84,496	\$55,546	\$21,530	\$59,563	\$ 7,479	\$ 8,151	\$324,347
30-149 days past due	33	74	89	70	41	801	49	223	1,380
150 or more days past due	1	10	17	8	21	456	5	164	682
<b>Total retained loans</b>	<b>\$23,250</b>	<b>\$64,450</b>	<b>\$84,602</b>	<b>\$55,624</b>	<b>\$21,592</b>	<b>\$60,820</b>	<b>\$ 7,533</b>	<b>\$ 8,538</b>	<b>\$326,409</b>
% of 30+ days past due to total retained loans <sup>(b)</sup>	0.15 %	0.13 %	0.13 %	0.14 %	0.29 %	2.04 %	0.72 %	4.53 %	0.63 %
<b>Gross charge-offs</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 4</b>	<b>\$ 167</b>	<b>\$ 26</b>	<b>\$ 7</b>	<b>\$ 204</b>

(a) Individual delinquency classifications include mortgage loans insured by U.S. government agencies which were not material at December 31, 2024 and 2023.

(b) Excludes mortgage loans that are 30 or more days past due insured by U.S. government agencies which were not material at December 31, 2024 and 2023. These amounts have been excluded based upon the government guarantee.

(c) Purchased loans are included in the year in which they were originated.

Approximately 38% of the total revolving loans are senior lien loans; the remaining balance are junior lien loans. The lien position the Firm holds is considered in the Firm's allowance for credit losses. Revolving loans that have been converted to term loans have higher delinquency rates than those that are still within the revolving period. That is primarily because the fully-amortizing payment that is generally required for those products is higher than the minimum payment options available for revolving loans within the revolving period.

## Notes to consolidated financial statements

### Nonaccrual loans and other credit quality indicators

The following table provides information on nonaccrual and other credit quality indicators for retained residential real estate loans.

(in millions, except weighted-average data)	December 31, 2024	December 31, 2023
Nonaccrual loans <sup>(a)(b)(c)(d)</sup>	\$ 2,984	\$ 3,466
<b>Current estimated LTV ratios<sup>(e)(f)(g)</sup></b>		
Greater than 125% and refreshed FICO scores:		
Equal to or greater than 660	\$ 72	\$ 72
Less than 660	3	—
101% to 125% and refreshed FICO scores:		
Equal to or greater than 660	161	223
Less than 660	5	4
80% to 100% and refreshed FICO scores:		
Equal to or greater than 660	4,962	6,491
Less than 660	73	102
Less than 80% and refreshed FICO scores:		
Equal to or greater than 660	294,797	309,251
Less than 660	8,534	9,277
No FICO/LTV available <sup>(h)</sup>	906	989
Total retained loans	\$ 309,513	\$ 326,409
Weighted-average LTV ratio <sup>(e)(i)</sup>	47 %	49 %
Weighted-average FICO <sup>(f)(i)</sup>	774	770
<b>Geographic region<sup>(h)(j)</sup></b>		
California	\$ 120,944	\$ 127,072
New York	46,854	48,815
Florida	21,820	22,778
Texas	14,531	15,506
Massachusetts	13,511	14,213
Colorado	10,465	10,800
Illinois	9,835	10,856
Washington	9,372	9,923
New Jersey	7,554	8,050
Connecticut	6,854	7,163
All other	47,773	51,233
Total retained loans	\$ 309,513	\$ 326,409

(a) Includes collateral-dependent residential real estate loans that are charged down to the fair value of the underlying collateral less costs to sell. The Firm reports, in accordance with regulatory guidance, residential real estate loans that have been discharged under Chapter 7 bankruptcy and not reaffirmed by the borrower ("Chapter 7 loans") as collateral-dependent nonaccrual loans, regardless

of their delinquency status. At December 31, 2024, approximately 8% of Chapter 7 residential real estate loans were 30 days or more past due.

- (b) Mortgage loans insured by U.S. government agencies excluded from nonaccrual loans were not material at December 31, 2024 and 2023.
- (c) Generally, all consumer nonaccrual loans have an allowance. In accordance with regulatory guidance, certain nonaccrual loans that are considered collateral-dependent have been charged down to the lower of amortized cost or the fair value of their underlying collateral less costs to sell. If the value of the underlying collateral improves subsequent to charge down, the related allowance may be negative.
- (d) Interest income on nonaccrual loans recognized on a cash basis was \$160 million and \$180 million for the years ended December 31, 2024 and 2023, respectively.
- (e) Represents the aggregate unpaid principal balance of loans divided by the estimated current property value. Current property values are estimated, at a minimum, quarterly, based on home valuation models using nationally recognized home price index valuation estimates incorporating actual data to the extent available and forecasted data where actual data is not available. Current estimated combined LTV for junior lien home equity loans considers all available lien positions, as well as unused lines, related to the property.
- (f) Refreshed FICO scores represent each borrower's most recent credit score, which is obtained by the Firm on at least a quarterly basis.
- (g) Includes residential real estate loans, primarily held in LLCs in AWM that did not have a refreshed FICO score. These loans have been included in a FICO band based on management's estimation of the borrower's credit quality.
- (h) Included U.S. government-guaranteed loans as of December 31, 2024 and 2023.
- (i) Excludes loans with no FICO and/or LTV data available.
- (j) The geographic regions presented in the table are ordered based on the magnitude of the corresponding loan balances at December 31, 2024.





### Loan modifications

The Firm grants certain modifications of residential real estate loans to borrowers experiencing financial difficulty. The Firm's proprietary modification programs as well as government programs, including U.S. GSE programs, that generally provide various modifications to borrowers experiencing financial difficulty including, but not limited to, interest rate reductions, term extensions, other-than-insignificant payment deferral and principal forgiveness that would otherwise have been required under the terms of the original agreement, are considered FDMs.

In addition, the Firm offers trial modifications of residential real estate loans, which generally include a three-month trial payment period during which the borrower makes monthly payments under the proposed modified loan terms. Loans in a trial payment period continue to age and accrue interest in accordance with the original contractual terms. At the completion of a trial period, the loan modification is considered permanent.

### Financial effects of FDMs

For the year ended December 31, 2024, retained residential real estate FDMs were \$206 million. The financial effects of the FDMs, which were predominantly in the form of term extensions and interest rate reductions, included extending the weighted-average life of the loans by 15 years, and reducing the weighted-average contractual interest rate from 7.53% to 5.44% for the year ended December 31, 2024.

For the year ended December 31, 2023, retained residential real estate FDMs were \$136 million. The financial effects of the FDMs, which were predominantly in the form of term extensions and interest rate reductions, included extending the weighted-average life of the loans by 20 years, and reducing the weighted-average contractual interest rate from 7.21% to 4.44% for the year ended December 31, 2023.

### Payment status of FDMs

The following table provides information on the payment status of retained residential real estate FDMs during the years ended December 31, 2024 and 2023.

Year ended December 31, (in millions)	Amortized cost basis	
	2024	2023
Current	\$ 139	\$ 107
30-149 days past due	47	13
150 or more days past due	20	16
<b>Total</b>	<b>\$ 206</b>	<b>\$ 136</b>

### Defaults of FDMs

Retained residential real estate FDMs that defaulted during the year ended December 31, 2024 and that were reported as FDMs in the twelve months prior to the default were \$93 million. Retained residential real estate FDMs that defaulted during the year ended December 31, 2023 and that were reported as FDMs on or after January 1, 2023, the date that the Firm adopted the changes to the TDR accounting guidance were not material. Refer to Note 1 for further information.



**Notes to consolidated financial statements**

### Nature and extent of TDRs

For periods ending prior to January 1, 2023, modifications of residential real estate loans where the Firm granted concessions to borrowers who were experiencing financial difficulty were generally accounted for and reported as TDRs. Loans with short-term or other insignificant modifications that were not considered concessions were not TDRs. For the year ended December 31, 2022, new TDRs were \$362 million, and there were no additional commitments to lend to borrowers whose residential real estate loans were modified in TDRs.

The Firm's proprietary modification programs as well as government programs, including U.S. GSE programs, generally provide various concessions to financially troubled borrowers including, but not limited to, interest rate reductions, term or payment extensions and delays of principal and/or interest payments that would otherwise have been required under the terms of the original agreement.

The following table provides information about how residential real estate loans were modified in TDRs during the period presented. This table excludes loans with short-term or other insignificant modifications that are not considered concessions.

Year ended December 31,	2022
Number of loans approved for a trial modification	3,902
Number of loans permanently modified	4,182
<b>Concession granted:<sup>(a)</sup></b>	
Interest rate reduction	54 %
Term or payment extension	67
Principal and/or interest deferred	10
Principal forgiveness	1
Other <sup>(b)</sup>	37

(a) Represents concessions granted in permanent modifications as a percentage of the number of loans permanently modified. The sum of the percentages exceeds 100% because predominantly all of the modifications

### Financial effects of TDRs and defaults

The following table provides information about the financial effects of the various concessions granted in modifications of residential real estate loans and about defaults of certain loans modified in TDRs for the period presented. The following table presents only the financial effects of permanent modifications and does not include temporary concessions offered through trial modifications. This table also excludes loans with short-term or other insignificant modifications that were not considered concessions.

Year ended December 31, (in millions, except weighted - average data)	2022
Weighted-average interest rate of loans with interest rate reductions - before TDR	4.75 %
Weighted-average interest rate of loans with interest rate reductions - after TDR	3.35
Weighted-average remaining contractual term (in years) of loans with term or payment extensions - before TDR	22
Weighted-average remaining contractual term (in years) of loans with term or payment extensions - after TDR	38
Charge-offs recognized upon permanent modification	\$ 1
Principal deferred	16
Principal forgiven	2
Balance of loans that defaulted within one year of permanent modification <sup>(a)</sup>	\$ 147

(a) Represents loans permanently modified in TDRs that experienced a payment default in the periods presented, and for which the payment default occurred within one year of the modification. The dollar amounts presented represent the balance of such loans at the end of the reporting period in which such loans defaulted.

### Active and suspended foreclosure

At December 31, 2024 and 2023, the Firm had retained residential real estate loans, excluding those insured



### Auto and other

Delinquency is the primary credit quality indicator for retained auto and other loans. The following tables provide information on delinquency and gross charge-offs.

(in millions, except ratios)	December 31, 2024								
	Term loans by origination year						Revolving loans		
							Within		Total
	2024	2023	2022	2021	2020	Prior to 2020	the revolving period	Converted to term loans	
<b>Loan delinquency</b>									
Current	\$26,165	\$15,953	\$9,201	\$7,014	\$2,895	\$ 624	\$ 3,714	\$ 148	\$65,714
30-119 days past due	190	283	259	179	53	23	40	34	1,061
120 or more days past due	1	1	—	5	6	—	3	30	46
<b>Total retained loans</b>	<b>\$26,356</b>	<b>\$16,237</b>	<b>\$9,460</b>	<b>\$7,198</b>	<b>\$2,954</b>	<b>\$ 647</b>	<b>\$ 3,757</b>	<b>\$ 212</b>	<b>\$66,821</b>
% of 30+ days past due to total retained loans	0.72 %	1.75 %	2.74	2.50 %	1.76 %	3.55 %	1.14 %	30.19 %	1.64 %
<b>Gross charge-offs</b>	<b>\$ 269</b>	<b>\$ 348</b>	<b>\$ 224</b>	<b>\$ 126</b>	<b>\$ 37</b>	<b>\$ 82</b>	<b>\$ 1</b>	<b>\$ 6</b>	<b>\$ 1,093</b>

(in millions, except ratios)	December 31, 2023								
	Term loans by origination year						Revolving loans		
							Within		Total
	2023	2022	2021	2020	2019	Prior to 2019	the revolving period	Converted to term loans	
<b>Loan delinquency</b>									
Current	\$30,328	\$14,797	\$12,825	\$6,538	\$1,777	\$ 511	\$ 2,984	\$ 102	\$69,862
30-119 days past due	276	279	231	78	43	17	19	24	967
120 or more days past due	1	1	7	8	—	—	3	17	37
<b>Total retained loans</b>	<b>\$30,605</b>	<b>\$15,077</b>	<b>\$13,063</b>	<b>\$6,624</b>	<b>\$1,820</b>	<b>\$ 528</b>	<b>\$ 3,006</b>	<b>\$ 143</b>	<b>\$70,866</b>
% of 30+ days past due to total retained loans	0.91 %	1.86 %	1.75 %	1.15 %	2.36 %	3.22 %	0.73 %	28.67 %	1.39 %
<b>Gross charge-offs</b>	<b>\$ 333</b>	<b>\$ 297</b>	<b>\$ 161</b>	<b>\$ 53</b>	<b>\$ 35</b>	<b>\$ 64</b>	<b>\$ —</b>	<b>\$ 4</b>	<b>\$ 947</b>



## Notes to consolidated financial statements

### *Nonaccrual loans and other credit quality indicators*

The following table provides information on nonaccrual and geographic region as a credit quality indicator for retained auto and other consumer loans.

(in millions)	Total Auto and other	
	December 31, 2024	December 31, 2023
<b>Nonaccrual loans<sup>(a)(b)</sup></b>	<b>\$ 249</b>	<b>\$ 177</b>
<b>Geographic region<sup>(c)</sup></b>		
California	\$ 10,321	\$ 10,959
Texas	7,772	8,502
Florida	5,428	5,684
New York	4,905	4,938
Illinois	2,890	3,147
New Jersey	2,468	2,609
Pennsylvania	2,012	1,900
Georgia	1,716	1,912
Arizona	1,643	1,779
North Carolina	1,597	1,714
All other	26,069	27,722
<b>Total retained loans</b>	<b>\$ 66,821</b>	<b>\$ 70,866</b>

- (a) Generally, all consumer nonaccrual loans have an allowance. In accordance with regulatory guidance, certain nonaccrual loans that are considered collateral-dependent have been charged down to the lower of amortized cost or the fair value of their underlying collateral less costs to sell. If the value of the underlying collateral improves subsequent to charge down, the related allowance may be negative.
- (b) Interest income on nonaccrual loans recognized on a cash basis was not material for the years ended December 31, 2024 and 2023.
- (c) The geographic regions presented in this table are ordered based on the magnitude of the corresponding loan balances at December 31, 2024.

### **Loan modifications**

The Firm grants certain modifications of auto and other loans to borrowers experiencing financial difficulty.

For the years ended December 31, 2024 and 2023, retained auto and other FDMs were not material.

As of December 31, 2024 and 2023, there were no additional commitments to lend to borrowers modified as FDMs.

For periods ending prior to January 1, 2023, modifications of auto and other loans where the Firm granted concessions to borrowers who were experiencing financial difficulty were generally accounted for and reported as TDRs. Loans with short-term or other insignificant modifications that were not considered concessions were not TDRs. For the year ended December 31, 2022, auto and other TDRs were not material.



## Credit card loan portfolio

The credit card portfolio segment includes credit card loans originated and purchased by the Firm.

Delinquency rates are the primary credit quality indicator for credit card loans as they provide an early warning that borrowers may be experiencing difficulties (30 days past due); information on those borrowers that have been delinquent for a longer period of time (90 days past due) is also considered. In addition to delinquency rates, the geographic distribution of the loans provides insight as to the credit quality of the portfolio based on the regional economy.

While the borrower's credit score is another general indicator of credit quality, the Firm does not view credit scores as a primary indicator of credit quality because the borrower's credit score tends to be a

lagging indicator. The distribution of such scores provides a general indicator of credit quality trends within the portfolio; however, the score does not capture all factors that would be predictive of future credit performance. Refreshed FICO score information, which is obtained at least quarterly, for a statistically significant random sample of the credit card portfolio is indicated in other credit quality indicators. FICO is considered to be the industry benchmark for credit scores.

The Firm generally originates new credit card accounts to prime consumer borrowers. However, certain cardholders' FICO scores may decrease over time, depending on the performance of the cardholder and changes in the credit score calculation.

The following tables provide information on delinquency and gross charge-offs.

(in millions, except ratios)	December 31, 2024		
	Within the revolving period	Converted to term loans	Total
<b>Loan delinquency</b>			
Current and less than 30 days past due			
and still accruing	\$ 226,532	\$ 1,284	\$ 227,816
30-89 days past due and still accruing	2,291	109	2,400
90 or more days past due and still accruing	2,591	53	2,644
<b>Total retained loans</b>	<b>\$ 231,414</b>	<b>\$ 1,446</b>	<b>\$ 232,860</b>
<b>Loan delinquency ratios</b>			
% of 30+ days past due to total retained loans	2.11 %	11.20 %	2.17 %
% of 90+ days past due to total retained loans	1.12	3.67	1.14
<b>Gross charge-offs</b>	<b>\$ 7,951</b>	<b>\$ 247</b>	<b>\$ 8,198</b>

(in millions, except ratios)	December 31, 2023		
	Within the revolving period	Converted to term loans	Total
<b>Loan delinquency</b>			
Current and less than 30 days past due and still accruing	\$ 205,731	\$ 882	\$ 206,613
30-89 days past due and still accruing	2,217	84	2,301
90 or more days past due and still accruing	2,169	40	2,209
<b>Total retained loans</b>	<b>\$ 210,117</b>	<b>\$ 1,006</b>	<b>\$ 211,123</b>
<b>Loan delinquency ratios</b>			
% of 30+ days past due to total retained loans	2.09 %	12.33 %	2.14 %
% of 90+ days past due to total retained loans	1.03	3.98	1.05
<b>Gross charge-offs</b>	<b>\$ 5,325</b>	<b>\$ 166</b>	<b>\$ 5,491</b>

## Notes to consolidated financial statements

### Other credit quality indicators

The following table provides information on other credit quality indicators for retained credit card loans.

(in millions, except ratios)	December 31, 2024		December 31, 2023	
Geographic region <sup>(a)</sup>				
California	\$	36,385	\$	32,652
Texas		24,423		22,086
New York		18,525		16,915
Florida		17,236		15,103
Illinois		12,442		11,364
New Jersey		9,644		8,688
Ohio		6,976		6,424
Colorado		6,962		6,307
Pennsylvania		6,558		6,088
Arizona		5,796		5,209
All other		87,913		80,287
Total retained loans	\$	232,860	\$	211,123
Percentage of portfolio based on carrying value with estimated refreshed FICO scores				
Equal to or greater than 660		85.5 %		85.8 %
Less than 660		14.3		14.0
No FICO available		0.2		0.2

(a) The geographic regions presented in the table are ordered based on the magnitude of the corresponding loan balances at December 31, 2024.

### Loan modifications

The Firm grants certain modifications of credit card loans to borrowers experiencing financial difficulty. These modifications may involve placing the customer's credit card account on a fixed payment plan, generally for 60 months, which typically includes reducing the interest rate on the credit card account. If the borrower does not make the contractual payments when due under the modified payment terms, the credit card loan continues to age and will be charged-off in accordance with the Firm's standard charge-off policy. In most cases, the Firm does not reinstate the borrower's line of credit.

### Financial effects of FDMs

The following table provides information on retained credit card FDMs.

Year ended December 31, (in millions)	Loan modifications	
	2024	2023
<b>Term extension and interest rate reduction<sup>(a)(b)</sup></b>		
Amortized cost basis	\$ 926	\$ 648
% of total modifications to total retained credit card loans	0.40 %	0.31 %
	Term extension with a reduction in the weighted average contractual interest rate from 23.64% to 3.20%	Term extension with a reduction in the weighted average contractual interest rate from 23.19% to 3.64%
Financial effect of loan modifications		

(a) Term extension includes credit card loans whose terms have been modified under long-term programs by placing the customer's credit card account on a fixed payment plan.

(b) The interest rates represent weighted average at the time of modification.



### Payment status of FDMs

The following table provides information on the payment status of retained credit card FDMs during the years ended December 31, 2024 and 2023.

Year ended December 31, (in millions)	Amortized cost basis	
	2024	2023
Current and less than 30 days past due and still accruing	\$ 811	\$ 558
30-89 days past due and still accruing	74	59
90 or more days past due and still accruing	41	31
<b>Total</b>	<b>\$ 926</b>	<b>\$ 648</b>

### Defaults of FDMs

Retained credit card FDMs that defaulted during the year ended December 31, 2024 and that were reported as FDMs in the twelve months prior to the default were not material. Retained credit card FDMs that defaulted during the year ended December 31, 2023 and that were reported as FDMs on or after January 1, 2023, the date that the Firm adopted the changes to the TDR accounting guidance were not material. Refer to Note 1 for further information.

For credit card loans modified as FDMs, payment default is deemed to have occurred when the borrower misses two consecutive contractual payments. Defaulted modified credit card loans remain in the modification program and continue to be charged off in accordance with the Firm's standard charge-off policy.

### Financial effects of TDRs and defaults

For periods ending prior to January 1, 2023, modifications of credit card loans where the Firm granted concessions to borrowers who were experiencing financial difficulty were generally accounted for and reported as TDRs. The Firm granted concessions for most of the credit card loans under long-term programs. These concessions involved placing the customer's credit card account on a fixed payment plan, generally for 60 months, and typically included reducing the interest rate on the credit card account. Substantially all modifications under the Firm's long-term programs were considered to be TDRs. Loans with short-term or other insignificant modifications that were not considered concessions were not reported as TDRs.

The following table provides information about the financial effects of the concessions granted on credit card loans modified in TDRs and defaults for the periods presented. For the period disclosed, new enrollments were less than 1% of total retained credit card loans.

Year ended December 31, (in millions, except weighted-average data)	2022
Balance of new TDRs <sup>(a)</sup>	\$ 418
Weighted-average interest rate of loans - before TDR	19.86 %
Weighted-average interest rate of loans - after TDR	4.13
Balance of loans that defaulted within one year of modification <sup>(b)</sup>	\$ 34

(a) Represents the outstanding balance prior to modification.

(b) Represents loans modified in TDRs that experienced a payment default in the periods presented, and for which the payment default occurred within one year of the modification. The amounts presented represent the balance of such loans as of the end of the quarter in which they defaulted.

For credit card loans modified in TDRs, payment default was deemed to have occurred when the borrower





## **Notes to consolidated financial statements**

### **Wholesale loan portfolio**

Wholesale loans include loans made to a variety of clients, ranging from large corporate and institutional clients to small businesses and high-net-worth individuals.

The primary credit quality indicator for wholesale loans is the internal risk rating assigned to each loan. Risk ratings are used to identify the credit quality of loans and differentiate risk within the portfolio. Risk ratings on loans consider the PD and the LGD. The PD is the likelihood that a loan will default. The LGD is the estimated loss on the loan that would be realized upon the default of the borrower and takes into consideration collateral and structural support for each credit facility.

Management considers several factors to determine an appropriate internal risk rating, including the obligor's debt capacity and financial flexibility, the level of the obligor's earnings, the amount and sources for repayment, the level and nature of contingencies, management strength, and the industry and geography in which the obligor operates. The Firm's internal risk ratings generally align with the qualitative characteristics (e.g., borrower capacity to meet financial commitments and vulnerability to changes in the economic environment) defined by S&P and Moody's, however the quantitative characteristics (e.g., PD and LGD) may differ as they reflect internal historical experiences and assumptions. The Firm generally considers internal ratings with qualitative characteristics equivalent to BBB-/Baa3 or higher as investment grade, and these ratings have a lower PD and/or lower LGD than non-investment grade ratings.

loans, representing management's assessment of the collectibility of principal and interest. Criticized loans have a higher PD than noncriticized loans. The Firm's definition of criticized aligns with the U.S. banking regulatory definition of criticized exposures, which consist of special mention, substandard and doubtful categories. Refer to Note 1 for additional information.

Risk ratings are reviewed on a regular and ongoing basis by Credit Risk Management and are adjusted as necessary for updated information affecting the obligor's ability to fulfill its obligations.

As noted above, the risk rating of a loan considers the industry in which the obligor conducts its operations. As part of the overall credit risk management framework, the Firm focuses on the management and diversification of its industry and client exposures, with particular attention paid to industries with an actual or potential credit concern. Refer to Note 4 for further detail on industry concentrations.



Internal risk rating is the primary credit quality indicator for retained wholesale loans. The following tables provide information on internal risk rating and gross charge-offs for the year ended December 31, 2024.

December 31, (in millions, except ratios)	Secured by real estate		Commercial and industrial		Other <sup>(a)</sup>		Total retained loans	
	2024	2023	2024	2023	2024	2023	2024	2023
<b>Loans by risk ratings</b>								
Investment-grade	<b>\$114,280</b>	\$120,405	<b>\$ 70,862</b>	\$ 72,624	<b>\$286,528</b>	\$265,809	<b>\$471,670</b>	\$458,838
Noninvestment-grade:								
Noncriticized	<b>37,422</b>	34,241	<b>83,191</b>	80,637	<b>72,743</b>	75,178	<b>193,356</b>	190,056
Criticized performing	<b>9,291</b>	7,291	<b>10,977</b>	12,684	<b>1,160</b>	1,257	<b>21,428</b>	21,232
Criticized nonaccrual	<b>1,439</b>	401	<b>1,760</b>	1,221	<b>743</b>	724	<b>3,942</b>	2,346
Total noninvestment-grade	<b>48,152</b>	41,933	<b>95,928</b>	94,542	<b>74,646</b>	77,159	<b>218,726</b>	213,634
<b>Total retained loans</b>	<b>\$162,432</b>	\$162,338	<b>\$166,790</b>	\$167,166	<b>\$361,174</b>	\$342,968	<b>\$690,396</b>	\$672,472
% of investment-grade to total retained loans	<b>70.36 %</b>	74.17 %	<b>42.49 %</b>	43.44 %	<b>79.33 %</b>	77.50 %	<b>68.32 %</b>	68.23 %
% of total criticized to total retained loans	<b>6.61</b>	4.74	<b>7.64</b>	8.32	<b>0.53</b>	0.58	<b>3.67</b>	3.51
% of criticized nonaccrual to total retained loans	<b>0.89</b>	0.25	<b>1.06</b>	0.73	<b>0.21</b>	0.21	<b>0.57</b>	0.35

(a) Includes loans to financial institutions, SPEs, personal investment companies and trusts, individuals and individual entities (predominantly Global Private Bank clients within AWM and J.P. Morgan Wealth Management within CCB), states and political subdivisions, as well as loans to nonprofits. As of December 31, 2024, predominantly consisted of \$114.8 billion to individuals and individual entities, \$94.0 billion to financial institutions, and \$92.5 billion to SPEs. Refer to Note 14 for more information on SPEs.

Secured by real estate									
December 31, 2024									
(in millions)	Term loans by origination year					Revolving loans			
	2024	2023	2022	2021	2020	Prior to 2020	Within the revolving period		Converted to term loans
<b>Loans by risk ratings</b>									
Investment-grade	\$10,002	\$ 9,834	\$25,284	\$22,796	\$15,548	\$29,488	\$ 1,328	\$ —	\$114,280
Noninvestment-grade	4,238	5,366	14,717	8,567	3,462	10,392	1,317	93	48,152
<b>Total retained loans</b>	<b>\$14,240</b>	<b>\$15,200</b>	<b>\$40,001</b>	<b>\$31,363</b>	<b>\$19,010</b>	<b>\$39,880</b>	<b>\$ 2,645</b>	<b>\$ 93</b>	<b>\$162,432</b>
<b>Gross charge-offs</b>	<b>\$ 72</b>	<b>\$ 18</b>	<b>\$ 43</b>	<b>\$ 2</b>	<b>\$ 109</b>	<b>\$ 80</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 324</b>

Secured by real estate									
December 31, 2023									
(in millions)	Term loans by origination year					Revolving loans			
	2023	2022	2021	2020	2019	Prior to 2019	Within the revolving period		Converted to term loans
<b>Loans by risk ratings</b>									
Investment-grade	\$10,687	\$28,874	\$25,784	\$16,820	\$15,677	\$21,108	\$ 1,455	\$ —	\$120,405
Noninvestment-grade	4,477	12,579	7,839	3,840	3,987	7,918	1,291	2	41,933
<b>Total retained loans</b>	<b>\$15,164</b>	<b>\$41,453</b>	<b>\$33,623</b>	<b>\$20,660</b>	<b>\$19,664</b>	<b>\$29,026</b>	<b>\$ 2,746</b>	<b>\$ 2</b>	<b>\$162,338</b>
<b>Gross charge-offs</b>	<b>\$ 20</b>	<b>\$ 48</b>	<b>\$ 22</b>	<b>\$ —</b>	<b>\$ 23</b>	<b>\$ 78</b>	<b>\$ —</b>	<b>\$ 1</b>	<b>\$ 192</b>



## Notes to consolidated financial statements

Commercial and industrial									
December 31, 2024									
(in millions)	Term loans by origination year						Revolving loans		Total
	2024	2023	2022	2021	2020	Prior to 2020	Within the revolving period	Converted to term loans	
<b>Loans by risk ratings</b>									
Investment-grade	\$11,564	\$ 6,285	\$ 6,588	\$ 3,119	\$ 1,067	\$ 1,139	\$ 41,099	\$ 1	\$ 70,862
Noninvestment-grade	21,251	11,350	10,942	5,322	783	975	45,181	124	95,928
<b>Total retained loans</b>	<b>\$32,815</b>	<b>\$17,635</b>	<b>\$17,530</b>	<b>\$ 8,441</b>	<b>\$ 1,850</b>	<b>\$ 2,114</b>	<b>\$ 86,280</b>	<b>\$ 125</b>	<b>\$166,790</b>
<b>Gross charge-offs</b>	<b>\$ 25</b>	<b>\$ 22</b>	<b>\$ 128</b>	<b>\$ 24</b>	<b>\$ 1</b>	<b>\$ 50</b>	<b>\$ 270</b>	<b>\$ 5</b>	<b>\$ 525</b>

Commercial and industrial									
December 31, 2023									
(in millions)	Term loans by origination year						Revolving loans		Total
	2023	2022	2021	2020	2019	Prior to 2019	Within the revolving period	Converted to term loans	
<b>Loans by risk ratings</b>									
Investment-grade	\$14,875	\$10,642	\$ 4,276	\$ 2,291	\$ 1,030	\$ 1,115	\$ 38,394	\$ 1	\$ 72,624
Noninvestment-grade	18,890	16,444	9,299	1,989	1,144	1,006	45,696	74	94,542
<b>Total retained loans</b>	<b>\$33,765</b>	<b>\$27,086</b>	<b>\$13,575</b>	<b>\$ 4,280</b>	<b>\$ 2,174</b>	<b>\$ 2,121</b>	<b>\$ 84,090</b>	<b>\$ 75</b>	<b>\$167,166</b>
<b>Gross charge-offs</b>	<b>\$ 25</b>	<b>\$ 8</b>	<b>\$ 110</b>	<b>\$ 55</b>	<b>\$ 2</b>	<b>\$ 12</b>	<b>\$ 259</b>	<b>\$ 8</b>	<b>\$ 479</b>



Other <sup>(a)</sup>									
December 31, 2024									
(in millions)	Term loans by origination year						Revolving loans		Total
	2024	2023	2022	2021	2020	Prior to 2020	Within the	Converted	
							revolving period	to term loans	
<b>Loans by risk ratings</b>									
Investment-grade	\$30,484	\$17,039	\$13,272	\$ 6,288	\$ 8,632	\$ 7,382	\$ 201,949	\$ 1,482	\$286,528
Noninvestment-grade	11,784	7,248	5,918	3,296	1,366	1,886	42,954	194	74,646
<b>Total retained loans</b>	<b>\$42,268</b>	<b>\$24,287</b>	<b>\$19,190</b>	<b>\$ 9,584</b>	<b>\$ 9,998</b>	<b>\$ 9,268</b>	<b>\$ 244,903</b>	<b>\$ 1,676</b>	<b>\$361,174</b>
<b>Gross charge-offs</b>	<b>\$ —</b>	<b>\$ 38</b>	<b>\$ 3</b>	<b>\$ 36</b>	<b>\$ 40</b>	<b>\$ 50</b>	<b>\$ 6</b>	<b>\$ —</b>	<b>\$ 173</b>

Other <sup>(a)</sup>									
December 31, 2023									
(in millions)	Term loans by origination year						Revolving loans		Total
	2023	2022	2021	2020	2019	Prior to 2019	Within the	Converted	
							revolving period	to term loans	
<b>Loans by risk ratings</b>									
Investment-grade	\$38,338	\$18,034	\$10,033	\$10,099	\$ 3,721	\$ 6,662	\$ 176,728	\$ 2,194	\$265,809
Noninvestment-grade	14,054	8,092	6,169	2,172	811	2,001	43,801	59	77,159
<b>Total retained loans</b>	<b>\$52,392</b>	<b>\$26,126</b>	<b>\$16,202</b>	<b>\$12,271</b>	<b>\$ 4,532</b>	<b>\$ 8,663</b>	<b>\$ 220,529</b>	<b>\$ 2,253</b>	<b>\$342,968</b>
<b>Gross charge-offs</b>	<b>\$ 5</b>	<b>\$ 298</b>	<b>\$ 8</b>	<b>\$ 8</b>	<b>\$ —</b>	<b>\$ 8</b>	<b>\$ 13</b>	<b>\$ —</b>	<b>\$ 340</b>

(a) Includes loans to financial institutions, SPEs, personal investment companies and trusts, individuals and individual entities (predominantly Global Private Bank clients within AWM and J.P. Morgan Wealth Management within CCB), states and political subdivisions, as well as loans to nonprofits. Refer to Note 14 for more information on SPEs.

The following table presents additional information on retained loans secured by real estate, which consists of loans secured wholly or substantially by a lien or liens on real property at origination. Multifamily lending includes financing for acquisition, leasing and construction of apartment buildings. Other commercial lending largely includes financing for acquisition, leasing and construction, largely for office, retail and industrial real estate. Included in secured by real estate loans were \$12.2 billion and \$10.2 billion as of December 31, 2024 and 2023, respectively, of construction and development loans made to finance land development and on-site construction of commercial, industrial, residential, or farm buildings.

	Multifamily		Other Commercial		Total retained loans secured by real estate	
December 31, (in millions, except ratios)	2024	2023	2024	2023	2024	2023
Retained loans secured by real estate	<b>\$101,114</b>	\$100,725	<b>\$61,318</b>	\$61,613	<b>\$162,432</b>	\$162,338
Criticized	<b>4,700</b>	3,596	<b>6,030</b>	4,096	<b>10,730</b>	7,692
% of criticized to total retained loans secured by real estate	<b>4.65 %</b>	3.57 %	<b>9.83 %</b>	6.65 %	<b>6.61 %</b>	4.74 %
Criticized nonaccrual	<b>\$ 337</b>	\$ 76	<b>\$ 1,102</b>	\$ 325	<b>\$ 1,439</b>	\$ 401
% of criticized nonaccrual loans to total retained loans secured by real estate	<b>0.33 %</b>	0.08 %	<b>1.80 %</b>	0.53 %	<b>0.89 %</b>	0.25 %

#### *Geographic distribution and delinquency*

The following table provides information on the geographic distribution and delinquency for retained wholesale loans.

	Secured by real estate		Commercial and industrial		Other		Total retained loans	
December 31, (in millions)	2024	2023	2024	2023	2024	2023	2024	2023
<b>Loans by geographic distribution<sup>(a)</sup></b>								
Total U.S.	\$159,209	\$159,499	\$127,626	\$127,638	\$278,077	\$262,499	\$564,912	\$549,636
Total non-U.S.	3,223	2,839	39,164	39,528	83,097	80,469	125,484	122,836
<b>Total retained loans</b>	<b>\$162,432</b>	<b>\$162,338</b>	<b>\$166,790</b>	<b>\$167,166</b>	<b>\$361,174</b>	<b>\$342,968</b>	<b>\$690,396</b>	<b>\$672,472</b>
<b>Loan delinquency</b>								
Current and less than 30 days past due and still accruing	\$159,949	\$161,314	\$164,104	\$164,899	\$359,191	\$341,128	\$683,244	\$667,341
30-89 days past due and still accruing	918	473	868	884	1,152	1,090	2,938	2,447
90 or more days past due and still accruing <sup>(b)</sup>	126	150	58	162	88	26	272	338
Criticized nonaccrual	1,439	401	1,760	1,221	743	724	3,942	2,346
<b>Total retained loans</b>	<b>\$162,432</b>	<b>\$162,338</b>	<b>\$166,790</b>	<b>\$167,166</b>	<b>\$361,174</b>	<b>\$342,968</b>	<b>\$690,396</b>	<b>\$672,472</b>

(a) The U.S. and non-U.S. distribution is determined based predominantly on the domicile of the borrower.

(b) Represents loans that are considered well-collateralized and therefore still accruing interest.

### Nonaccrual loans

The following table provides information on retained wholesale nonaccrual loans.

	Secured by real estate		Commercial and industrial		Other		Total retained loans	
December 31, (in millions)	2024	2023	2024	2023	2024	2023	2024	2023
<b>Nonaccrual loans</b>								
With an allowance	\$ 366	\$ 129	\$ 1,362	\$ 776	\$ 555	\$ 492	\$ 2,283	\$ 1,397
Without an allowance <sup>(a)</sup>	1,073	272	398	445	188	232	1,659	949
<b>Total nonaccrual loans<sup>(b)</sup></b>	<b>\$ 1,439</b>	<b>\$ 401</b>	<b>\$ 1,760</b>	<b>\$ 1,221</b>	<b>\$ 743</b>	<b>\$ 724</b>	<b>\$ 3,942</b>	<b>\$ 2,346</b>

(a) When the discounted cash flows or collateral value equals or exceeds the amortized cost of the loan, the loan does not require an allowance. This typically occurs when the loans have been partially charged off and/or there have been interest payments received and applied to the loan balance.

(b) Interest income on nonaccrual loans recognized on a cash basis was \$51 million and \$19 million for the years ended December 31, 2024 and 2023, respectively.

## Notes to consolidated financial statements

### Loan modifications

The Firm grants certain modifications of wholesale loans to borrowers experiencing financial difficulty.

#### Financial effects of FDMs

The following tables provide information on retained wholesale loan modifications considered FDMs.

(in millions, except ratios)	Secured by real estate		
	Year ended December 31, 2024		
		% of loan modifications to total retained	
	Amortized cost basis	Secured by real estate loans	Financial effect of loan modifications
<b>Single modifications</b>			
Term extension	\$ 271	0.17	Extended loans by a weighted-average % of 21 months
Other-than-insignificant payment deferral	37	0.02	Provided payment deferrals with delayed amounts re-amortized over the remaining tenor
<b>Multiple modifications</b>			
Other-than-insignificant payment deferral and interest rate reduction	46	0.03	Provided payment deferrals with delayed amounts recaptured at maturity and reduced weighted- average contractual interest by 162 bps
<b>Total</b>	<b>\$ 354</b>		

Secured by real estate			
Year ended December 31, 2023			
(in millions, except ratios)	% of loan modifications to total retained		
	Amortized cost basis	Secured by real estate loans	Financial effect of loan modifications
<b>Single modifications</b>			
Term extension	\$ 149	0.09 %	Extended loans by a weighted-average of 14 months
Other-than-insignificant payment deferral	3	–	Provided payment deferrals with delayed amounts primarily re- amortized over the remaining life of the loan
<b>Multiple modifications</b>			
Other-than-insignificant payment deferral and interest rate reduction	5	–	Provided payment deferrals with delayed amounts primarily recaptured at maturity and reduced weighted- average contractual interest by 184 bps
Other <sup>(a)</sup>	3	–	NM
<b>Total</b>	<b>\$ 160</b>		

(a) Includes a loan with multiple modifications.

Commercial and industrial			
Year ended December 31, 2024			
(in millions, except ratios)	Amortized cost basis	% of loan modifications to total retained Commercial and industrial loans	Financial effect of loan modifications
Single modifications			
Term extension	\$ 1,180	0.71	Extended loans by a weighted-average % of 20 months
Other-than-insignificant payment deferral	464	0.28	Provided payment deferrals with delayed amounts primarily re-amortized over the remaining tenor
Multiple modifications			
Other-than-insignificant payment deferral and term extension	175	0.10	Provided payment deferrals with delayed amounts recaptured at maturity and extended loans by a weighted-average of 18 months
Interest rate reduction and term extension	51	0.03	Reduced weighted-average contractual interest by 434 bps and extended loans by a weighted-average of 36 months
Other <sup>(a)</sup>	30	0.02	NM
Total	\$ 1,900		

(a) Includes loans with single and multiple modifications.

Commercial and industrial			
Year ended December 31, 2023			
(in millions, except ratios)	% of loan		
	Amortized	modifications to	
	cost	total retained	
	basis	Commercial and	Financial effect of loan
		industrial loans	modifications
<b>Single modifications</b>			
Term extension	\$ 916	0.55	Extended loans by a weighted-average % of 17 months
Other-than-insignificant payment deferral	402	0.24	Provided payment deferrals with delayed amounts primarily recaptured at the end of the deferral period
<b>Multiple modifications</b>			
Other-than-insignificant payment deferral and term extension	35	0.02	Provided payment deferrals with delayed amounts primarily re-amortized over the remaining life of the loan and extended loans by a weighted-average of 7 months
Interest rate reduction and term extension	1	—	Reduced weighted average contractual interest rate over the life of the loan as a result of converting from variable to fixed rate and extended loans by a weighted-average of 16 months
Other <sup>(a)</sup>	9	—	NM
<b>Total</b>	<b>\$ 1,363</b>		

(a) Include loans with multiple modifications.



## Notes to consolidated financial statements

(in millions, except ratios)	Other		
	Year ended December 31, 2024		
	Amortized	% of loan modifications to total retained	Financial effect of loan
	cost basis	Other loans	modification
<b>Single modifications</b>			
Term extension	\$ 268	0.07 %	Extended loans by a weighted-average of 28 months
<b>Multiple modifications</b>			
Other-than-insignificant payment deferral and term extension	2	–	Provided payment deferrals with delayed amounts recaptured at maturity and extended loans by a weighted-average of 6 months
Other <sup>(a)</sup>	5	–	NM
<b>Total</b>	<b>\$ 275</b>		

(a) Includes loans with a single modification.

(in millions, except ratios)	Other		
	Year ended December 31, 2023		
	Amortized	% of loan modifications to total retained	Financial effect of loan
	cost basis	Other loans	modifications
<b>Single modifications</b>			
Term extension	\$ 355	0.10 %	Extended loans by a weighted-average of 23 months
<b>Multiple modifications</b>			
Other-than-insignificant payment deferral and term extension	245	0.07	Provided payment deferrals with delayed amounts primarily recaptured at the end of the deferral period and extended loans by a weighted-average of 137 months
Other <sup>(a)</sup>	\$ 9	–	NM
<b>Total</b>	<b>\$ 609</b>		

(a) Includes a loan with a single modification.

### Payment status of FDMs

The following table provides information on the payment status of retained wholesale FDMs during the year ended December 31, 2024 and 2023.

(in millions)	Amortized cost basis					
	Secured by Commercial			Secured by Commercial		
	real estate	and industrial	Other	real estate	and industrial	Other
	Year ended December 31, 2024			Year ended December 31, 2023		
Current and less than 30 days past due and still accruing	\$ 264	\$ 1,215	\$ 240	\$ 118	\$ 947	\$ 400
30-89 days past due and still accruing	3	13	9	2	42	—
Criticized nonaccrual	87	672	26	40	374	209
<b>Total</b>	<b>\$ 354</b>	<b>\$ 1,900</b>	<b>\$ 275</b>	<b>\$ 160</b>	<b>\$ 1,363</b>	<b>\$ 609</b>

### Defaults of FDMs

The following table provides information on retained wholesale FDMs that defaulted during the year ended December 31, 2024 that were reported as FDMs in the twelve months prior to the default, and FDMs that defaulted during the year ended December 31, 2023 that were reported as FDMs on or after January 1, 2023, the date that the Firm adopted the changes to the TDR accounting guidance.

(in millions)	Amortized cost basis					
	Secured by Commercial			Secured by Commercial		
	real estate	and industrial	Other	real estate	and industrial	Other
	Year ended December 31, 2024			Year ended December 31, 2023		
Term extension	\$ 3	\$ 92	\$ 22	\$ 1	\$ 49	\$ 31
Other-than-insignificant payment deferral	—	118	—	2	—	—
Interest rate reduction and term extension	—	—	—	3	1	—
<b>Total<sup>(a)</sup></b>	<b>\$ 3</b>	<b>\$ 210</b>	<b>\$ 22</b>	<b>\$ 6</b>	<b>\$ 50</b>	<b>\$ 31</b>

(a) Represents FDMs that were 30 days or more past due.

As of December 31, 2024 and 2023, additional unfunded commitments on modified loans to borrowers experiencing financial difficulty were \$1.8 billion at each period in Commercial and industrial, and \$69 million and \$4 million, respectively, in Other loan class. Additional commitments on modified loans to borrowers experiencing financial difficulty whose loans have been modified as FDMs in Secured by real estate were not material at each period.

### Nature and extent of TDRs

Prior to January 1, 2023, certain loan modifications were considered TDRs. These loan modifications provided various concessions to borrower who were experiencing financial difficulty. Loans with short-term or other

insignificant modifications that were not considered concessions were not TDRs nor were loans for which the Firm elected to suspend TDR accounting guidance under the option provided by the CARES Act.

For the year ended December 31, 2022, new TDRs were \$801 million. New TDRs for the year ended December 31, 2022 reflected extended maturity dates and covenant waivers primarily in the Commercial and Industrial loan class. For the year ended December 31, 2022, the impact of these modifications resulting in new TDRs was not material to the Firm.

As a result of the elimination of the requirement to assess whether a modification is reasonably expected or involves a concession, the population of loans considered FDMs is greater than the population previously considered TDRs.

## **Notes to consolidated financial statements**

### **Note 13 - Allowance for credit losses**

The Firm's allowance for credit losses represents management's estimate of expected credit losses over the remaining expected life of the Firm's financial assets measured at amortized cost and certain off-balance sheet lending-related commitments. The allowance for credit losses generally comprises:

- the allowance for loan losses, which covers the Firm's retained loan portfolios (scored and risk-rated),
- the allowance for lending-related commitments, which is presented on the Consolidated balance sheets in accounts payable and other liabilities, and
- the allowance for credit losses on investment securities, which is reflected in investment securities on the Consolidated balance sheets.

The income statement effect of all changes in the allowance for credit losses is recognized in the provision for credit losses.

Determining the appropriateness of the allowance for credit losses is complex and requires significant judgment by management about the effect of matters that are inherently uncertain. At least quarterly, the allowance for credit losses is reviewed by the CRO, the CFO and the Controller of the Firm. Subsequent evaluations of credit exposures, considering the macroeconomic conditions, forecasts and other factors then prevailing, may result in significant changes in the allowance for credit losses in future periods.

The Firm's policies used to determine its allowance for loan losses and its allowance for lending-related commitments are described in the following paragraphs. Refer to Note 10 for a description of the policies used to determine the allowance for credit losses on investment securities.

#### **Methodology for allowances for loan losses and lending-related commitments**

The allowance for loan losses and allowance for lending-related commitments represents expected credit losses over the remaining

of the balance sheet date) versus other account activity. This allocation is made using an approach that incorporates the payment application requirements of the Credit Card Accountability Responsibility and Disclosure Act of 2009, generally paying down the highest interest rate balances first.

The estimate of expected credit losses includes expected recoveries of amounts previously charged off or expected to be charged off, even if such recoveries result in a negative allowance.

#### *Collective and Individual Assessments*

When calculating the allowance for loan losses and the allowance for lending-related commitments, the Firm assesses whether exposures share similar risk characteristics. If similar risk characteristics exist, the Firm estimates expected credit losses collectively, considering the risk associated with a particular pool and the probability that the exposures within the pool will deteriorate or default. The assessment of risk characteristics is subject to significant management judgment. Emphasizing one characteristic over another or considering additional characteristics could affect the allowance.

- Relevant risk characteristics for the consumer portfolio include product type, delinquency status, current FICO scores, geographic distribution, and, for collateralized loans, current LTV ratios.
- Relevant risk characteristics for the wholesale portfolio include risk rating, delinquency status, tenor, level and type of collateral, LOB, geography, industry, credit enhancement, product type, facility purpose, and payment terms.

The majority of the Firm's credit exposures share risk characteristics with other similar exposures, and as a result are collectively assessed for impairment ("portfolio-based component"). The portfolio-based component covers consumer loans, performing risk-rated loans and





probability of borrower default as well as loss severity in the event of default. They are derived using a weighted average of five internally developed macroeconomic scenarios over an eight-quarter forecast period, followed by a single year straight-line interpolation to revert to long run historical information for periods beyond the eight-quarter forecast period. The five macroeconomic scenarios consist of a central, relative adverse, extreme adverse, relative upside and extreme upside scenario, and are updated by the Firm's central forecasting team. The scenarios take into consideration the Firm's macroeconomic outlook, internal perspectives from subject matter experts across the Firm, and market consensus and involve a governed process that incorporates feedback from senior management across LOBs, Corporate Finance and Risk Management.

The quantitative calculation is adjusted to take into consideration model imprecision, emerging risk assessments, trends and other subjective factors that are not yet reflected in the calculation. These adjustments are accomplished in part by analyzing the historical loss experience, including during stressed periods, for each major product or model. Management applies judgment in making this adjustment, including taking into account uncertainties associated with the economic and political conditions, quality of underwriting standards, borrower behavior, credit concentrations or deterioration within an industry, product or portfolio, as well as other relevant internal and external factors affecting the credit quality of the portfolio. In certain instances, the interrelationships between these factors create further uncertainties.

The application of different inputs into the quantitative calculation, and the assumptions used by management to adjust the quantitative calculation, are subject to significant management judgment, and emphasizing one input or assumption

difference between the amortized cost of the loan and the present value of the cash flows expected to be collected, discounted at the loan's effective interest rate. Subsequent changes in impairment are generally recognized as an adjustment to the allowance for loan losses. The asset-specific component of the allowance for non-collateral dependent loans incorporates the effect of the modification on the loan's expected cash flows including changes in interest rates, principal forgiveness, and other concessions, as well as management's expectation of the borrower's ability to repay under the modified terms.

Estimating the timing and amounts of future cash flows is highly judgmental as these cash flow projections rely upon estimates such as loss severities, asset valuations, the amounts and timing of interest or principal payments (including any expected prepayments) or other factors that are reflective of current and expected market conditions. These estimates are, in turn, dependent on factors such as the duration of current overall economic conditions, industry, portfolio, or borrower-specific factors, the expected outcome of insolvency proceedings as well as, in certain circumstances, other economic factors. All of these estimates and assumptions require significant management judgment and certain assumptions are highly subjective.

#### *Other financial assets*

In addition to loans and investment securities, the Firm holds other financial assets that are measured at amortized cost on the Consolidated balance sheets, including credit exposures arising from lending activities subject to collateral maintenance requirements. Management estimates the allowance for other financial assets using various techniques considering historical losses and current economic conditions.

Credit risk arising from lending activities subject to collateral maintenance requirements is generally





## Notes to consolidated financial statements

### Allowance for credit losses and related information

The table below summarizes information about the allowances for credit losses and includes a breakdown of loans and lending-related commitments by impairment methodology. Refer to Note 10 for further information on the allowance for credit losses on investment securities.

(Table continued on next page)

Year ended December 31, (in millions)	2024			
	Consumer, excluding credit card	Credit card	Wholesale	Total
<b>Allowance for loan losses</b>				
Beginning balance at January 1,	\$ 1,856	\$ 12,450	\$ 8,114	\$ 22,420
Cumulative effect of a change in accounting principle <sup>(a)</sup>	NA	NA	NA	NA
Gross charge-offs	1,299	8,198	1,022	10,519
Gross recoveries collected	(625)	(1,056)	(200)	(1,881)
<b>Net charge-offs</b>	<b>674</b>	<b>7,142</b>	<b>822</b>	<b>8,638</b>
Provision for loan losses	624	9,292	578	10,494
Other	1	—	68	69
<b>Ending balance at December 31,</b>	<b>\$ 1,807</b>	<b>\$ 14,600</b>	<b>\$ 7,938</b>	<b>\$ 24,345</b>
<b>Allowance for lending-related commitments</b>				
Beginning balance at January 1,	\$ 75	\$ —	\$ 1,899	\$ 1,974
Provision for lending-related commitments	7	—	121	128
Other	—	—	(1)	(1)
<b>Ending balance at December 31,</b>	<b>\$ 82</b>	<b>\$ —</b>	<b>\$ 2,019</b>	<b>\$ 2,101</b>
<b>Total allowance for investment securities</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>\$ 152</b>
<b>Total allowance for credit losses<sup>(b)</sup></b>	<b>\$ 1,889</b>	<b>\$ 14,600</b>	<b>\$ 9,957</b>	<b>\$ 26,598</b>
<b>Allowance for loan losses by impairment methodology</b>				
Asset-specific <sup>(c)</sup>	\$ (728)	\$ —	\$ 526	\$ (202)
Portfolio-based	2,535	14,600	7,412	24,547
<b>Total allowance for loan losses</b>	<b>\$ 1,807</b>	<b>\$ 14,600</b>	<b>\$ 7,938</b>	<b>\$ 24,345</b>
<b>Loans by impairment methodology</b>				
Asset-specific <sup>(c)</sup>	\$ 2,805	\$ —	\$ 3,912	\$ 6,717
Portfolio-based	373,529	232,860	686,484	1,292,873
<b>Total retained loans</b>	<b>\$ 376,334</b>	<b>\$ 232,860</b>	<b>\$ 690,396</b>	<b>\$1,299,590</b>
<b>Collateral-dependent loans</b>				
Net charge-offs	\$ 1	\$ —	\$ 324	\$ 325
Loans measured at fair value of collateral less cost to sell	2,696	—	1,834	4,530
<b>Allowance for lending-related commitments by impairment methodology</b>				
Asset-specific	\$ —	\$ —	\$ 109	\$ 109
Portfolio-based	82	—	1,910	1,992
<b>Total allowance for lending-related commitments<sup>(d)</sup></b>	<b>\$ 82</b>	<b>\$ —</b>	<b>\$ 2,019</b>	<b>\$ 2,101</b>
<b>Lending-related commitments by impairment methodology</b>				
Asset-specific	\$ —	\$ —	\$ 737	\$ 737
Portfolio-based <sup>(e)</sup>	25,608	19	510,254	535,881
<b>Total lending-related commitments</b>	<b>\$ 25,608</b>	<b>\$ 19</b>	<b>\$ 510,991</b>	<b>\$ 536,618</b>

- (a) Represents the impact to the allowance for loan losses upon the adoption of the Financial Instruments - Credit Losses: Troubled Debt Restructurings accounting guidance. Refer to Note 1 for further information.
- (b) At December 31, 2024 and 2023 and 2022, in addition to the allowance for credit losses in the table above, the Firm also had an allowance for credit losses of \$268 million, \$243 million and \$21 million, respectively, associated with certain accounts receivable in CIB.
- (c) Includes collateral-dependent loans, including those for which foreclosure is deemed probable, and nonaccrual risk-rated loans.
- (d) The allowance for lending-related commitments is reported in accounts payable and other liabilities on the Consolidated balance sheets.
- (e) At December 31, 2024, 2023 and 2022, lending-related commitments excluded \$19.2 billion, \$17.2 billion and \$13.1 billion, respectively, for the consumer, excluding credit card portfolio segment; \$1.0 trillion, \$915.7 billion and \$821.3 billion, respectively, for the credit card portfolio segment; and \$20.5 billion, \$19.7 billion and \$9.8 billion, respectively, for the wholesale portfolio segment, which were not subject to the allowance for lending-related commitments.



(table continued from previous page)

2023				2022			
Consumer, excluding credit card	Credit card	Wholesale	Total	Consumer, excluding credit card	Credit card	Wholesale	Total
\$ 2,040	\$ 11,200	\$ 6,486	\$ 19,726	\$ 1,765	\$ 10,250	\$ 4,371	\$ 16,386
(489)	(100)	2	(587)	NA	NA	NA	NA
1,151	5,491	1,011	7,653	812	3,192	322	4,326
(519)	(793)	(132)	(1,444)	(543)	(789)	(141)	(1,473)
632	4,698	879	6,209	269	2,403	181	2,853
936	6,048	2,484	9,468	543	3,353	2,293	6,189
1	—	21	22	1	—	3	4
\$ 1,856	\$ 12,450	\$ 8,114	\$ 22,420	\$ 2,040	\$ 11,200	\$ 6,486	\$ 19,726
\$ 76	\$ —	\$ 2,306	\$ 2,382	\$ 113	\$ —	\$ 2,148	\$ 2,261
(1)	—	(407)	(408)	(37)	—	157	120
—	—	—	—	—	—	1	1
\$ 75	\$ —	\$ 1,899	\$ 1,974	\$ 76	\$ —	\$ 2,306	\$ 2,382
NA	NA	NA	\$ 128	NA	NA	NA	\$ 96
\$ 1,931	\$ 12,450	\$ 10,013	\$ 24,522	\$ 2,116	\$ 11,200	\$ 8,792	\$ 22,204
\$ (876)	\$ —	\$ 392	\$ (484)	\$ (624)	\$ 223	\$ 467	\$ 66
2,732	12,450	7,722	22,904	2,664	10,977	6,019	19,660
\$ 1,856	\$ 12,450	\$ 8,114	\$ 22,420	\$ 2,040	\$ 11,200	\$ 6,486	\$ 19,726
\$ 3,287	\$ —	\$ 2,338	\$ 5,625	\$ 11,978	\$ 796	\$ 2,189	\$ 14,963
393,988	211,123	670,134	1,275,245	288,775	184,379	601,481	1,074,635
\$ 397,275	\$ 211,123	\$ 672,472	\$ 1,280,870	\$ 300,753	\$ 185,175	\$ 603,670	\$ 1,089,598
\$ 6	\$ —	\$ 180	\$ 186	\$ (33)	\$ —	\$ 16	\$ (17)
3,216	—	1,012	4,228	3,585	—	464	4,049
\$ —	\$ —	\$ 89	\$ 89	\$ —	\$ —	\$ 90	\$ 90
75	—	1,810	1,885	76	—	2,216	2,292
\$ 75	\$ —	\$ 1,899	\$ 1,974	\$ 76	\$ —	\$ 2,306	\$ 2,382
\$ —	\$ —	\$ 464	\$ 464	\$ —	\$ —	\$ 455	\$ 455
28,248	—	516,577	544,825	20,423	—	461,688	482,111
\$ 28,248	\$ —	\$ 517,041	\$ 545,289	\$ 20,423	\$ —	\$ 462,143	\$ 482,566



## **Notes to consolidated financial statements**

*Discussion of changes in the allowance*



The allowance for credit losses as of December 31, 2024 was \$26.9 billion, reflecting a net addition of \$2.1 billion from December 31, 2023.

The net addition to the allowance for credit losses included:

- \$2.1 billion in **consumer**, reflecting:
  - a \$2.2 billion net addition in Card Services, predominantly driven by loan growth, reflecting higher revolving balances, including the seasoning of vintages originated in recent years,
- partially offset by
  - a \$125 million net reduction in Home Lending in the first quarter of 2024, and
- a net reduction of \$30 million in **wholesale**, reflecting:
  - changes in certain macroeconomic variables, an update to loss assumptions on certain loans in Markets, and a reduction due to charge-offs largely from collateral-dependent loans,
- predominantly offset by
  - net downgrade activity, primarily in Real Estate, and the impact of incorporating the First Republic portfolio into the Firm's modeled credit loss estimates in the second quarter of 2024.

The Firm's qualitative adjustments continued to include additional weight placed on the adverse scenarios to reflect ongoing uncertainties and downside risks related to the geopolitical and macroeconomic environment.

The Firm's allowance for credit losses is estimated using a weighted average of five internally developed macroeconomic scenarios. The adverse scenarios incorporate more punitive macroeconomic factors than the central case assumptions provided in the table below, resulting in:

- a weighted average U.S. unemployment rate peaking at 5.5% in the fourth quarter of 2025, and
- a weighted average U.S. real GDP level that is 1.9% lower than the central case at the end of the

The following table presents the Firm's central case assumptions for the periods presented:

	Central case assumptions at December 31, 2024		
	2Q25	4Q25	2Q26
U.S. unemployment rate <sup>(a)</sup>	4.5 %	4.3 %	4.3 %
YoY growth in U.S. real GDP <sup>(b)</sup>	2.0 %	1.9 %	1.8 %
	Central case assumptions at December 31, 2023		
	2Q24	4Q24	2Q25
U.S. unemployment rate <sup>(a)</sup>	4.1 %	4.4 %	4.1 %
YoY growth in U.S. real GDP <sup>(b)</sup>	1.8 %	0.7 %	1.0 %

(a) Reflects quarterly average of forecasted U.S. unemployment rate.

(b) The year over year growth in U.S. real GDP in the forecast horizon of the central scenario is calculated as the percentage change in U.S. real GDP levels from the prior year.

Subsequent changes to this forecast and related estimates will be reflected in the provision for credit losses in future periods.

Refer to Note 12 for additional information on the consumer and wholesale credit portfolios.

Refer to Critical Accounting Estimates Used by the Firm on pages 161-164 for further information on the allowance for credit losses and related management judgments.



## Note 14 - Variable interest entities

Refer to Note 1 on page 177 for a further description of the Firm's accounting policies regarding consolidation of and involvement with VIEs.

The following table summarizes the most significant types of Firm-sponsored VIEs by business segment. The Firm considers a "Firm-sponsored" VIE to include any entity where: (1) JPMorganChase is the primary beneficiary of the structure; (2) the VIE is used by JPMorganChase to securitize Firm assets; (3) the VIE issues financial instruments with the JPMorganChase name; or (4) the entity is a JPMorganChase-administered asset-backed commercial paper conduit.

Line of Business	Transaction Type	Activity	2024 Form 10-K page references
CCB	Credit card securitization trusts	Securitization of originated credit card receivables	pages 271-272
	Mortgage securitization trusts	Servicing and securitization of both originated and purchased residential mortgages	pages 272-274
CIB	Mortgage and other securitization trusts	Securitization of both originated and purchased residential and commercial mortgages, and other consumer loans	pages 272-274
	Multi-seller conduits	Assisting clients in accessing the financial markets in a cost-efficient manner and structuring transactions to meet investor needs	page 274
	Municipal bond vehicles	Financing of municipal bond investments	pages 274-275

The Firm's other business segments and Corporate are also involved with VIEs (both third-party and Firm-sponsored), but to a lesser extent, as follows:

- **Asset & Wealth Management:** AWM sponsors and manages certain funds that are deemed VIEs. As asset manager of the funds, AWM earns a fee based on assets managed; the fee varies with each fund's investment objective and is competitively priced. For fund entities that qualify as VIEs, AWM's interests are, in certain cases, considered to be significant variable interests that result in consolidation of the financial results of these entities.
- **Corporate:** Corporate is involved with entities that may meet the definition of VIEs; however these entities are generally subject to specialized investment company accounting, which does not require the consolidation of investments, including VIEs. In addition, Treasury and CIO invest in securities generally issued by third parties which may meet the definition of VIEs (e.g., issuers of asset-backed securities). In general, the Firm does not have the power to direct the significant activities of these entities and therefore does not consolidate these entities. Refer to Note 10 for further information on the Firm's investment securities portfolio.

In addition, CIB also invests in and provides financing, lending-related services and other services to VIEs sponsored by third parties. Refer to page 276 of this Note for more information on the VIEs sponsored by third parties.

### **Significant Firm-sponsored VIEs**

#### ***Credit card securitizations***

CCB's Card Services business may securitize originated credit card loans, primarily through the Chase Issuance Trust (the "Trust"). The Firm's continuing involvement in credit card securitizations includes servicing the receivables, retaining an undivided seller's interest in the receivables, retaining certain senior and subordinated securities and maintaining escrow accounts.

The Firm consolidates the assets and liabilities of its sponsored credit card trusts as it is considered to be the primary beneficiary of these securitization trusts based on the Firm's ability to direct the activities of these VIEs through its servicing responsibilities and other duties, including making decisions as to the receivables that are transferred into those trusts and as to any related modifications and workouts. Additionally, the nature and extent of the Firm's other

continuing involvement with the trusts, as indicated above, obligates the Firm to absorb losses and gives the Firm the right to receive certain benefits from these VIEs that could potentially be significant.

The underlying securitized credit card receivables and other assets of the securitization trusts are available only for payment of the beneficial interests issued by the securitization trusts; they are not available to pay the Firm's other obligations or the claims of the Firm's creditors.

The agreements with the credit card securitization trusts require the Firm to maintain a minimum undivided interest in the credit card trusts (generally 5%). As of December 31, 2024 and 2023, the Firm held undivided interests in Firm-sponsored credit card securitization trusts of \$6.6 billion and \$4.9 billion, respectively. The Firm maintained an average undivided interest in principal receivables owned by

## Notes to consolidated financial statements

those trusts of approximately 45% and 65% for the years ended December 31, 2024 and 2023, respectively. The Firm did not retain any senior securities and retained \$1.5 billion of subordinated securities in certain of its credit card securitization trusts at both December 31, 2024 and 2023. The Firm's undivided interests in the credit card trusts and securities retained are eliminated in consolidation.

### ***Firm-sponsored mortgage and other securitization trusts***

The Firm securitizes (or has securitized) originated and purchased residential mortgages, commercial mortgages and other consumer loans primarily in its CCB and CIB businesses. Depending on the particular transaction, as well as the respective business involved, the Firm may act as the servicer of the loans and/or retain certain beneficial interests in the securitization trusts.

The following tables present the total unpaid principal amount of assets held in Firm-sponsored private-label securitization entities, including those in which the Firm has continuing involvement, and those that are consolidated by the Firm. Continuing involvement includes servicing the loans, holding senior interests or subordinated interests (including amounts required to be held pursuant to credit risk retention rules), recourse or guarantee arrangements, and derivative contracts. In certain instances, the Firm's only continuing involvement is servicing the loans. The Firm's maximum loss exposure from retained and purchased interests is the carrying value of these interests. Refer to page 279 of this Note for information on the securitization-related loan delinquencies and liquidation losses.

	Principal amount outstanding			JPMorganChase interest in securitized assets in nonconsolidated VIEs <sup>(c)(d)(e)</sup>			
	Total assets held by securitization VIEs	Assets held in consolidated securitization VIEs	Assets held in nonconsolidated securitization VIEs with continuing involvement	Trading assets	Investment securities	Other financial assets	Total interests held by JPMorganChase
<b>December 31, 2024</b> <b>(in millions)</b>							
<b>Securitization-related<sup>(a)</sup></b>							
Residential mortgage:							
Prime/Alt-A and option ARMs	\$ 71,085	\$ 615	\$ 50,846	\$ 613	\$ 1,850	\$ 614	\$ 3,077
Subprime	8,824	—	1,847	44	19	—	63
Commercial and other <sup>(b)</sup>	186,293	243	125,510	530	5,768	1,074	7,372
<b>Total</b>	<b>\$ 266,202</b>	<b>\$ 858</b>	<b>\$ 178,203</b>	<b>\$1,187</b>	<b>\$ 7,637</b>	<b>\$ 1,688</b>	<b>\$ 10,512</b>

	Principal amount outstanding			JPMorganChase interest in securitized assets in nonconsolidated VIEs <sup>(c)(d)(e)</sup>			
	Total assets held by securitization VIEs	Assets held in consolidated securitization VIEs	Assets held in nonconsolidated securitization VIEs with continuing involvement	Trading assets	Investment securities	Other financial assets	Total interests held by JPMorganChase
December 31, 2023 (in millions)							
<b>Securitization-related<sup>(a)</sup></b>							
Residential mortgage:							
Prime/Alt-A and option ARMs	\$ 58,570	\$ 675	\$ 39,319	\$ 595	\$ 1,981	\$ 60	\$ 2,636
Subprime	8,881	—	1,312	3	—	—	3
Commercial and other <sup>(b)</sup>	168,042	—	120,262	831	5,638	1,354	7,823
<b>Total</b>	<b>\$ 235,493</b>	<b>\$ 675</b>	<b>\$ 160,893</b>	<b>\$1,429</b>	<b>\$ 7,619</b>	<b>\$ 1,414</b>	<b>\$ 10,462</b>

(a) Excludes U.S. GSEs and government agency securitizations and re-securitizations, which are not Firm-sponsored.

(b) Consists of securities backed by commercial real estate loans and non-mortgage-related consumer receivables.

(c) Excludes the following: retained servicing; securities retained from loan sales and securitization activity related to U.S. GSEs and government agencies; interest rate and foreign exchange derivatives primarily used to manage interest rate and foreign exchange risks of securitization entities; senior securities of \$256 million and \$52 million at December 31, 2024 and 2023, respectively, and subordinated securities which were not material at December 31, 2024 and 2023, which the Firm purchased in connection with CIB's secondary market-making activities.

(d) Includes interests held in re-securitization transactions.

(e) At both December 31, 2024 and 2023, 77% of the Firm's retained securitization interests, which are predominantly carried at fair value and include amounts required to be held pursuant to credit risk retention rules, were risk-rated "A" or better, on an S&P-equivalent basis. The retained interests in prime residential mortgages consisted of \$2.9 billion and \$2.5 billion of investment-grade retained interests at December 31, 2024 and 2023, respectively, and \$216 million and \$88 million of noninvestment-grade retained interests at December 31, 2024 and 2023, respectively. The retained interests in commercial and other securitization trusts consisted of \$6.0 billion and \$6.1 billion of investment-grade retained interests, and \$1.4 billion and \$1.7 billion of noninvestment-grade retained interests at December 31, 2024 and 2023, respectively.



### *Residential mortgage*

The Firm securitizes residential mortgage loans originated by CCB, as well as residential mortgage loans purchased from third parties by either CCB or CIB. CCB generally retains servicing for all residential mortgage loans it originated or purchased, and for certain mortgage loans purchased by CIB. For securitizations of loans serviced by CCB, the Firm has the power to direct the significant activities of the VIE because it is responsible for decisions related to loan modifications and workouts. CCB may also retain an interest upon securitization.

In addition, CIB engages in underwriting and trading activities involving securities issued by Firm-sponsored securitization trusts. As a result, CIB at times retains senior and/or subordinated interests (including residual interests and amounts required to be held pursuant to credit risk retention rules) in residential mortgage securitizations at the time of securitization, and/or reacquires positions in the secondary market in the normal course of business. In certain instances, as a result of the positions retained or reacquired by CIB or held by Treasury and CIO or CCB, when considered together with the servicing arrangements entered into by CCB, the Firm is deemed to be the primary beneficiary of certain securitization trusts.

The Firm does not consolidate residential mortgage securitizations (Firm-sponsored or third-party-sponsored) when it is not the servicer (and therefore does not have the power to direct the most significant activities of the trust) or does not hold a beneficial interest in the trust that could potentially be significant to the trust.

### *Commercial mortgages and other consumer securitizations*

CIB originates and securitizes commercial mortgage loans, and engages in underwriting and trading

### *Re-securitizations*

The Firm engages in certain re-securitization transactions in which debt securities are transferred to a VIE in exchange for new beneficial interests. These transfers occur in connection with both U.S. GSEs and government agency sponsored VIEs, which are backed by residential mortgages. The Firm's consolidation analysis is largely dependent on the Firm's role and interest in the re-securitization trusts.

The following table presents the principal amount of securities transferred to re-securitization VIEs.

Year ended December 31, (in millions)	2024	2023	2022
<b>Transfers of securities to VIEs</b>			
U.S. GSEs and government agencies	<b>\$44,456</b>	\$18,864	\$16,128

Most re-securitizations with which the Firm is involved are client-driven transactions in which a specific client or group of clients is seeking a specific return or risk profile. For these transactions, the Firm has concluded that the decision-making power of the entity is shared between the Firm and its clients, considering the joint effort and decisions in establishing the re-securitization trust and its assets, as well as the significant economic interest the client holds in the re-securitization trust; therefore the Firm does not consolidate the re-securitization VIE.

The Firm did not transfer any private label securities to re-securitization VIEs during 2024, 2023 and 2022, and retained interests in any such Firm-sponsored VIEs as of December 31, 2024 and 2023 were not material.

Additionally, the Firm may invest in beneficial interests of third-party-sponsored re-securitizations and generally purchases these interests in the secondary market. In these circumstances, the Firm does not have





**Notes to consolidated financial statements**

The following table presents information on the Firm's interests in nonconsolidated re-securitization VIEs.

	Nonconsolidated re-securitization VIEs	
December 31, (in millions)	2024	2023
<b>U.S. GSEs and government agencies</b>		
Interest in VIEs	\$ 3,219	\$ 3,371

As of December 31, 2024 and 2023, the Firm did not consolidate any U.S. GSE and government agency re-securitization VIEs or any Firm-sponsored private-label re-securitization VIEs.

#### **Multi-seller conduits**

Multi-seller conduit entities are separate bankruptcy remote entities that provide secured financing, collateralized by pools of receivables and other financial assets, to customers of the Firm. The conduits fund their financing facilities through the issuance of highly rated commercial paper. The primary source of repayment of the commercial paper is the cash flows from the pools of assets. In most instances, the assets are structured with deal-specific credit enhancements provided to the conduits by the customers (i.e., sellers) or other third parties. Deal-specific credit enhancements are generally structured to cover a multiple of historical losses expected on the pool of assets, and are typically in the form of overcollateralization provided by the seller. The deal-specific credit enhancements mitigate the Firm's potential losses on its agreements with the conduits.

To ensure timely repayment of the commercial paper, and to provide the conduits with funding to provide financing to customers in the event that the conduits do not obtain funding in the commercial paper market, each asset pool financed by the conduits has a minimum 100% deal-specific liquidity facility associated with it provided by

credit enhancement provider, as well as the potential exposure created by the liquidity and credit enhancement facilities provided to the conduits.

In the normal course of business, JPMorganChase makes markets in and invests in commercial paper issued by the Firm-administered multi-seller conduits. The Firm held \$2.9 billion and \$9.8 billion of the commercial paper issued by the Firm-administered multi-seller conduits at December 31, 2024 and 2023, respectively, which have been eliminated in consolidation. The Firm's investments reflect the Firm's funding needs and capacity and were not driven by market illiquidity. Other than the amounts required to be held pursuant to credit risk retention rules, the Firm is not obligated under any agreement to purchase the commercial paper issued by the Firm-administered multi-seller conduits.

Deal-specific liquidity facilities, program-wide liquidity and credit enhancement provided by the Firm have been eliminated in consolidation. The Firm or the Firm-administered multi-seller conduits provide lending-related commitments to certain clients of the Firm-administered multi-seller conduits. The unfunded commitments were \$10.3 billion and \$10.8 billion at December 31, 2024 and 2023, respectively, and are reported as off-balance sheet lending-related commitments in other unfunded commitments to extend credit. Refer to Note 28 for more information on off-balance sheet lending-related commitments.

#### **Municipal bond vehicles**

Municipal bond vehicles or tender option bond ("TOB") trusts allow institutions to finance their municipal bond investments at short-term rates. In a typical TOB transaction, the trust purchases highly rated municipal bond(s) of a single issuer and funds the purchase by issuing two types of securities: (1) puttable floating-rate certificates ("floaters") and (2) inverse floating-rate residual interests ("residuals"). The floaters are typically purchased by money



placement and remarketing tendered floaters. The remarketing agent may, but is not obligated to, make markets in floaters. Floaters held by the Firm were not material during 2024 and 2023.

JPMorgan Chase Bank, N.A. or J.P. Morgan Securities LLC often serves as the sole liquidity or tender option provider for the TOB trusts. The liquidity provider's obligation to perform is conditional and is limited by certain events ("Termination Events"), which include bankruptcy or failure to pay by the municipal bond issuer or credit enhancement provider, an event of taxability on the municipal bonds or the immediate downgrade of the municipal bond to below investment grade. In addition, the liquidity provider's exposure is typically further limited by the high credit quality of the underlying municipal bonds, the excess collateralization in the vehicle, or, in certain

transactions, the reimbursement agreements with the Residual holders. Holders of the floaters may "put," or tender, their floaters to the TOB trust. If the remarketing agent cannot successfully remarket the floaters to another investor, the liquidity provider either provides a loan to the TOB trust for the TOB trust's purchase of the floaters, or it directly purchases the tendered floaters.

TOB trusts are considered to be variable interest entities. The Firm consolidates non-customer TOB trusts because as the Residual holder, the Firm has the right to make decisions that significantly impact the economic performance of the municipal bond vehicle, and it has the right to receive benefits and bear losses that could potentially be significant to the municipal bond vehicle.

#### **Consolidated VIE assets and liabilities**

The following table presents information on assets and liabilities related to VIEs consolidated by the Firm as of December 31, 2024 and 2023.

	Assets				Liabilities			
					Beneficial interests in			
December 31, 2024 (in millions)	Trading assets	Loans	Other <sup>(c)</sup>	Total assets <sup>(d)</sup>	VIE assets <sup>(e)</sup>	Other <sup>(f)</sup>	Total liabilities	
VIE program type								
Firm-sponsored credit card trusts	\$ —	\$ 13,531	\$ 168	\$ 13,699	\$ 5,312	\$ 10	\$ 5,322	
Firm-administered multi-seller conduits	1	20,383	133	20,517	18,228	26	18,254	
Municipal bond vehicles	3,388	—	22	3,410	3,617	15	3,632	
Mortgage securitization entities <sup>(a)</sup>	—	630	8	638	115	48	163	
Other	496	1,966	<sup>(b)</sup> 350	2,812	51	355	406	
Total	\$ 3,885	\$ 36,510	\$ 681	\$ 41,076	\$ 27,323	\$ 454	\$ 27,777	

December 31, 2023 (in millions)	Assets				Liabilities		
	Trading assets	Loans	Other <sup>(c)</sup>	Total assets <sup>(d)</sup>	Beneficial interests in VIE assets <sup>(e)</sup>		Total liabilities
						Other <sup>(f)</sup>	
VIE program type							
Firm-sponsored credit card trusts	\$ —	\$ 9,460	\$ 117	\$ 9,577	\$ 2,998	\$ 6	\$ 3,004
Firm-administered multi-seller conduits	1	27,372	194	27,567	17,781	30	17,811
Municipal bond vehicles	2,056	—	22	2,078	2,116	11	2,127
Mortgage securitization entities <sup>(a)</sup>	—	693	8	701	125	57	182
Other	113	86	250	449	—	159	159
Total	\$ 2,170	\$ 37,611	\$ 591	\$ 40,372	\$ 23,020	\$ 263	\$ 23,283

(a) Includes residential mortgage securitizations.

(b) Primarily includes consumer loans in CIB.

(c) Includes assets classified as cash and other assets on the Consolidated balance sheets.

(d) The assets of the consolidated VIEs included in the program types above are used to settle the liabilities of those entities. The assets and liabilities include third-party assets and liabilities of consolidated VIEs and exclude intercompany balances that eliminate in consolidation.

(e) The interest-bearing beneficial interest liabilities issued by consolidated VIEs are classified on the Consolidated balance sheets as “Beneficial interests issued by consolidated VIEs”. The holders of these beneficial interests generally do not have recourse to the general credit of JPMorganChase. Included in beneficial interests in VIE assets are long-term beneficial interests of \$5.5 billion and \$3.1 billion at December 31, 2024 and 2023, respectively.

(f) Includes liabilities classified as accounts payable and other liabilities on the Consolidated balance sheets.



**Notes to consolidated financial statements**



### VIEs sponsored by third parties

The Firm enters into transactions with VIEs structured by other parties. These include, for example, acting as a derivative counterparty, liquidity provider, investor, underwriter, placement agent, remarketing agent, trustee or custodian. These transactions are conducted at arm's-length, and individual credit decisions are based on the analysis of the specific VIE, taking into consideration the quality of the underlying assets. Where the Firm does not have the power to direct the activities of the VIE that most significantly impact the VIE's economic performance, or a variable interest that could potentially be significant, the Firm generally does not consolidate the VIE, but it records and reports these positions on its Consolidated balance sheets in the same manner it would record and report positions in respect of any other third-party transaction.

### Tax credit vehicles

The Firm holds investments in unconsolidated tax credit vehicles, which are limited partnerships and similar entities that own and operate affordable housing, alternative energy, and other projects. These entities are primarily considered VIEs. A third party is typically the general partner or managing member and has control over the significant activities of the tax credit vehicles, and accordingly the Firm does not consolidate tax credit vehicles. The Firm generally invests in these partnerships as a limited partner and earns a return primarily through the receipt of tax credits allocated to the projects. The maximum loss exposure, represented by equity investments and funding commitments, was \$35.2 billion and \$35.1 billion, of which \$15.0 billion and \$14.7 billion was unfunded at December 31, 2024 and 2023, respectively. The Firm assesses each project and to reduce the risk of loss, may withhold varying amounts of its capital investment until the project qualifies for tax credits. Refer to Note 28 for more information on off-balance sheet lending-related

including that substantially all of the return is from income tax credits and other income tax benefits.

In addition, under this method deferred taxes are generally not recorded as the investment is now amortized in proportion to the income tax credits and other income tax benefits received. Delayed equity contributions that are unconditional and legally binding or conditional and probable of occurring are recorded in other liabilities with a corresponding increase in the carrying value of the investment. The guidance also requires a reevaluation of eligible investments when significant modifications or events occur that result in a change in the nature of the investment or a change in the Firm's relationship with the underlying project. During the period, there were no significant modifications or events that resulted in a change in the nature of an eligible investment or a change in the Firm's relationship with the underlying project.

The following table provides information on tax-oriented investments for which the Firm elected to apply the proportional amortization method.

Year ended December 31, (in millions)	Alternative energy and affordable housing programs <sup>(d)</sup>		
	2024	2023	2022
<b>Programs for which the Firm elected proportional amortization:</b>			
Carrying value <sup>(a)</sup>	<b>\$31,978</b>	\$14,644	\$12,052
Tax credits and other tax benefits <sup>(b)</sup>	<b>6,379</b>	2,044	1,786
<b>Investments that qualify to be accounted for using proportional amortization:</b>			
Amortization losses recognized as a component of income			



#### *Customer municipal bond vehicles (TOB trusts)*

The Firm may provide various services to customer TOB trusts, including remarketing agent, liquidity or tender option provider. In certain customer TOB transactions, the Firm, as liquidity provider, has entered into a reimbursement agreement with the Residual holder. In those transactions, upon the termination of the vehicle, the Firm has recourse to the third-party Residual holders for any shortfall. The Firm does not have any intent to protect Residual holders from potential losses on any of the underlying municipal bonds. The Firm does not consolidate customer TOB trusts, since the Firm does not have the power to make decisions that significantly impact the economic performance of the municipal bond vehicle.

The Firm's maximum exposure as a liquidity provider to customer TOB trusts at December 31, 2024 and 2023, was \$5.8 billion and \$5.1 billion, respectively. The fair value of assets held by such VIEs at December 31, 2024 and 2023 was \$8.1 billion and \$7.3 billion, respectively.

#### **Loan securitizations**

The Firm has securitized and sold a variety of loans, including residential mortgages, credit card receivables, commercial mortgages and other consumer loans. The purposes of these securitization transactions were to satisfy investor demand and to generate liquidity for the Firm.

For loan securitizations in which the Firm is not required to consolidate the trust, the Firm records the transfer of the loan receivable to the trust as a sale when all of the following accounting criteria for a sale are met: (1) the transferred financial assets are legally isolated from the Firm's creditors; (2) the transferee or beneficial interest holder can pledge or exchange the transferred financial assets; and (3) the Firm does not maintain effective control over the transferred financial assets (e.g., the Firm cannot repurchase the transferred assets before their maturity and it does not have the ability to unilaterally cause the holder to return the transferred assets).

For loan securitizations accounted for as a sale, the Firm recognizes a gain or loss based on the difference between the value of proceeds received (including cash, beneficial interests, or servicing assets received) and the carrying value of the assets sold. Gains and losses on securitizations are reported in noninterest revenue.



## Notes to consolidated financial statements

### Securitization activity

The following table provides information related to the Firm's securitization activities for the years ended December 31, 2024, 2023 and 2022, related to assets held in Firm-sponsored securitization entities that were not consolidated by the Firm, and where sale accounting was achieved at the time of the securitization.

Year ended December 31, (in millions)	2024		2023		2022	
	Commercial		Commercial		Commercial	
	Residential mortgage <sup>(d)</sup>	and other <sup>(e)</sup>	Residential mortgage <sup>(d)</sup>	and other <sup>(e)</sup>	Residential mortgage <sup>(d)</sup>	and other <sup>(e)</sup>
Principal securitized	\$ 19,988	\$ 17,683	\$ 7,678	\$ 3,901	\$ 10,218	\$ 9,036
<b>All cash flows during the period:<sup>(a)</sup></b>						
Proceeds received from loan sales as financial instruments <sup>(b)(c)</sup>	\$ 19,870	\$ 17,346	\$ 7,251	\$ 3,896	\$ 9,783	\$ 8,921
Servicing fees collected	35	35	24	5	62	2
Cash flows received on interests	405	1,303	325	425	489	285

(a) Excludes re-securitization transactions.

(b) Primarily includes Level 2 assets.

(c) The carrying value of the loans accounted for at fair value approximated the proceeds received upon loan sale.

(d) Represents prime mortgages. Excludes loan securitization activity related to U.S. GSEs and government agencies.

(e) Includes commercial mortgages and auto loans.

Key assumptions used to value retained interests originated during the year are shown in the table below.

Year ended December 31,	2024	2023	2022
<b>Residential mortgage retained interest:</b>			
Weighted-average life (in years)	4.3	9.6	10.8
Weighted-average discount rate	7.1 %	4.8 %	4.0 %
<b>Commercial and other retained interest:</b>			
Weighted-average life (in years)	4.5	3.0	5.9
Weighted-average discount rate	6.2 %	4.6 %	2.9 %

#### Loans and excess MSR<sup>s</sup> sold to U.S. government-sponsored enterprises and loans in securitization transactions pursuant to Ginnie Mae guidelines

In addition to the amounts reported in the securitization activity tables above, the Firm, in the normal course of business, sells originated and purchased mortgage loans and certain originated excess MSR<sup>s</sup> on a nonrecourse basis, predominantly to U.S. GSEs. These loans and excess MSR<sup>s</sup> are sold primarily for the purpose of securitization by the U.S. GSEs, who provide certain guarantee provisions (e.g., credit enhancement of the loans). The Firm also sells loans into securitization transactions pursuant to Ginnie Mae guidelines; these loans are typically insured or guaranteed by another U.S. government agency. The Firm does not consolidate the securitization vehicles underlying these transactions as it is not the primary beneficiary. For a limited number of loan sales, the Firm is obligated to share a portion of the credit risk associated with the sold loans with the purchaser. Refer to Note 28 for additional information about the Firm's loan sales- and securitization-related indemnifications and Note 15 for additional information about the impact of the Firm's sale of certain excess MSR<sup>s</sup>.

The following table summarizes the activities related to loans sold to the U.S. GSEs, and loans in securitization transactions pursuant to Ginnie Mae guidelines.

Year ended December 31, (in millions)	2024	2023	2022
Carrying value of loans sold	\$ 25,765	\$ 19,906	\$ 48,891
Proceeds received from loan sales as cash	\$ 2,380	\$ 300	\$ 22
Proceeds from loan sales as securities <sup>(a)(b)</sup>	23,178	19,389	48,096
<b>Total proceeds received from loan sales<sup>(c)</sup></b>	<b>\$ 25,558</b>	<b>\$ 19,689</b>	<b>\$ 48,118</b>
Gains/(losses) on loan sales <sup>(d)(e)</sup>	\$ —	\$ —	\$ (25)

(a) Includes securities from U.S. GSEs and Ginnie Mae that are generally sold shortly after receipt or retained as part of the Firm's investment securities portfolio.

(b) Included in level 2 assets.

(c) Excludes the value of MSR<sup>s</sup> retained upon the sale of loans.

(d) Gains/(losses) on loan sales include the value of MSR<sup>s</sup>.

(e) The carrying value of the loans accounted for at fair value approximated the proceeds received upon loan sale.



### *Options to repurchase delinquent loans*

In addition to the Firm's obligation to repurchase certain loans due to material breaches of representations and warranties as discussed in Note 28, the Firm also has the option to repurchase delinquent loans that it services for Ginnie Mae loan pools, as well as for other U.S. government agencies under certain arrangements. The Firm typically elects to repurchase delinquent loans from Ginnie Mae loan pools as it continues to service them and/or manage the foreclosure process in accordance with the applicable requirements, and such loans continue to be insured or guaranteed. When the Firm's repurchase option becomes exercisable, such loans must be reported on the Consolidated balance sheets as a loan with a corresponding liability. Refer to Note 12 for additional information.

The following table presents loans the Firm repurchased or had an option to repurchase, real estate owned, and foreclosed government-guaranteed residential mortgage loans recognized on the Firm's Consolidated balance sheets as of December 31, 2024 and 2023. Substantially all of these loans and real estate are insured or guaranteed by U.S. government agencies.

December 31, (in millions)	2024	2023
Loans repurchased or option to repurchase <sup>(a)</sup>	\$ 577	\$ 597
Real estate owned	6	8
Foreclosed government-guaranteed residential mortgage loans <sup>(b)</sup>	10	22

(a) Primarily all of these amounts relate to loans that have been repurchased from Ginnie Mae loan pools.

(b) Relates to voluntary repurchases of loans, which are included in accrued interest and accounts receivable.

### **Loan delinquencies and liquidation losses**

The table below includes information about components of and delinquencies related to nonconsolidated securitized financial assets held in Firm-sponsored private-label securitization entities, in which the Firm has continuing involvement as of December 31, 2024 and 2023. For loans sold or securitized where servicing is the Firm's only form of continuing involvement, the Firm generally experiences a loss only if the Firm was required to repurchase a delinquent loan or foreclosed asset due to a breach in representations and warranties associated with its loan sale or servicing contracts.



As of or for the year ended December 31, (in millions)	Securitized assets		90 days past due		Net liquidation losses / (recoveries)	
	2024	2023	2024	2023	2024	2023
<b>Securitized loans</b>						
Residential mortgage:						
Prime/ Alt-A & option ARMs	\$ 50,846	\$ 39,319	\$ 501	\$ 440	\$ 10	\$ 14
Subprime	1,847	1,312	113	131	2	5
Commercial and other	125,510	120,262	1,715	2,874	77	60
<b>Total loans securitized</b>	<b>\$ 178,203</b>	<b>\$ 160,893</b>	<b>\$ 2,329</b>	<b>\$ 3,445</b>	<b>\$ 89</b>	<b>\$ 79</b>

## **Notes to consolidated financial statements**

### **Note 15 - Goodwill, mortgage servicing rights, and other intangible assets**

## Goodwill

Goodwill is recorded upon completion of a business combination as the difference between the purchase price and the fair value of the net assets acquired, and can be adjusted up to one year from the acquisition date as additional information pertaining to facts and circumstances that existed as of the acquisition date is obtained about the fair value of assets acquired and liabilities assumed. Subsequent to initial recognition, goodwill is not amortized but is tested for impairment during the fourth quarter of each fiscal year, or more often if events or circumstances, such as adverse changes in the business climate, indicate that there may be an impairment.

The goodwill associated with each business combination is allocated to the related reporting units, which are generally determined based on how the Firm's businesses are managed and how they are reviewed. The following table presents goodwill attributed to the reportable business segments and Corporate.

December 31, (in millions)	2024	2023	2022
Consumer & Community Banking	\$32,116	\$32,116	\$32,121
Commercial & Investment Bank	11,236	11,251	10,993
Asset & Wealth Management	8,521	8,582	7,902
Corporate	692	685	646
<b>Total goodwill</b>	<b>\$52,565</b>	<b>\$52,634</b>	<b>\$51,662</b>

The following table presents changes in the carrying amount of goodwill.

(in millions)	2024	2023	2022
Balance at beginning of period	\$52,634	\$51,662	\$50,315
Changes during the period from:			
Business combinations <sup>(a)</sup>	29	917	1,426
Other <sup>(b)</sup>	(98)	55	(79)
<b>Balance at December 31,</b>	<b>\$52,565</b>	<b>\$52,634</b>	<b>\$51,662</b>

## Goodwill impairment testing

The Firm's goodwill was not impaired at December 31, 2024, 2023 and 2022.

The goodwill impairment test is generally performed by comparing the current fair value of each reporting unit with its carrying value. If the fair value is in excess of the carrying value, then the reporting unit's goodwill is considered not to be impaired. If the fair value is less than the carrying value, then an impairment is recognized for the amount by which the reporting unit's carrying value exceeds its fair value, up to the amount of goodwill allocated to that reporting unit.

The Firm uses the reporting units' allocated capital plus goodwill and other intangible assets as a proxy for the carrying values of equity for the reporting units in the goodwill impairment testing. Reporting unit equity is determined on a similar basis as the allocation of capital to the LOBs which takes into consideration a variety of factors including capital levels of similarly rated peers and applicable regulatory capital requirements. LOB's allocated capital levels are incorporated into the Firm's annual budget process, which is reviewed by the Firm's Board of Directors and Operating Committee.

The primary method the Firm uses to estimate the fair value of its reporting units is the income approach. This approach projects cash flows for the forecast period and uses the perpetuity growth method to calculate terminal values. These cash flows and terminal values, which are based on the reporting units' annual budgets and forecasts are then discounted using an appropriate discount rate. The discount rate used for each reporting unit represents an estimate of the cost of equity for that reporting unit and is determined considering the Firm's overall estimated cost of equity (estimated using the Capital Asset Pricing Model), as adjusted for the risk characteristics specific to each reporting unit (for example, for higher levels of risk or uncertainty associated with the business or



naturally exist between the Firm's businesses and competitor institutions.

The Firm also takes into consideration a comparison between the aggregate fair values of the Firm's reporting units and JPMorganChase's market capitalization. In evaluating this comparison, the Firm considers several factors, including (i) a control premium that would exist in a market transaction, (ii) factors related to the level of execution risk that would exist at the Firmwide level that do not exist at the reporting unit level and (iii) short-term market volatility and other factors that do not directly affect the value of individual reporting units.

Unanticipated declines in business performance, increases in credit losses, increases in capital requirements, as well as deterioration in economic or market conditions, adverse regulatory or legislative changes or increases in the estimated market cost of equity, could cause the estimated fair values of the Firm's reporting units to decline in the future, which could result in a material impairment loss to earnings in a future period related to some portion of the associated goodwill.

### **Mortgage servicing rights**

MSRs represent the fair value of expected future cash flows for performing servicing activities for others. The fair value considers estimated future servicing fees and ancillary revenue, offset by estimated costs to service the loans, and generally declines over time as net servicing cash flows are received, effectively amortizing the MSR asset against contractual servicing and ancillary fee income. MSRs are either purchased from third parties or recognized upon sale or securitization of mortgage loans if servicing is retained.

As permitted by U.S. GAAP, the Firm has elected to account for its MSRs at fair value. The Firm treats its MSRs as a single class of servicing assets based on the availability of market inputs used to measure the fair value of its MSR asset and its treatment of MSRs as one aggregate pool for risk management purposes. The Firm estimates the fair value of MSRs using an option-adjusted spread ("OAS") model, which projects MSR cash flows over multiple interest rate scenarios in conjunction with the Firm's prepayment model, and then discounts these cash flows at risk-adjusted rates. The model considers portfolio characteristics, contractually specified servicing fees, prepayment assumptions, delinquency rates, costs to service, late charges and other ancillary revenue, and other economic factors. The Firm compares fair value estimates and assumptions to observable market data where available, and also considers recent market activity and actual portfolio experience.

## Notes to consolidated financial statements

The fair value of MSRs is sensitive to changes in interest rates, including their effect on prepayment speeds. MSRs typically decrease in value when interest rates decline because declining interest rates tend to increase prepayments and therefore reduce the expected life of the net servicing cash flows that comprise the MSR asset. Conversely, securities (e.g., mortgage-backed securities), and certain derivatives (e.g., those for which the Firm receives fixed-rate

interest payments) increase in value when interest rates decline. JPMorganChase uses combinations of derivatives and securities to manage the risk of changes in the fair value of MSRs. The intent is to offset any interest-rate related changes in the fair value of MSRs with changes in the fair value of the related risk management instruments.

The following table summarizes MSR activity for the years ended December 31, 2024, 2023 and 2022.

As of or for the year ended December 31, (in millions, except where otherwise noted)	2024	2023	2022
Fair value at beginning of period	\$ 8,522	\$ 7,973	\$ 5,494
MSR activity:			
Originations of MSRs	325	253	798
Purchase of MSRs <sup>(a)</sup>	601	1,028	1,400
Disposition of MSRs <sup>(b)</sup>	(21)	(188)	(822)
<b>Net additions/(dispositions)</b>	<b>905</b>	<b>1,093</b>	<b>1,376</b>
Changes due to collection/realization of expected cash flows	(1,068)	(1,011)	(936)
Changes in valuation due to inputs and assumptions:			
Changes due to market interest rates and other <sup>(c)</sup>	670	424	2,022
Changes in valuation due to other inputs and assumptions:			
Projected cash flows (e.g., cost to service)	102	(22)	14
Discount rates	14	14	—
Prepayment model changes and other <sup>(d)</sup>	(24)	51	3
<b>Total changes in valuation due to other inputs and assumptions</b>	<b>92</b>	<b>43</b>	<b>17</b>
<b>Total changes in valuation due to inputs and assumptions</b>	<b>762</b>	<b>467</b>	<b>2,039</b>
<b>Fair value at December 31,</b>	<b>\$ 9,121</b>	<b>\$ 8,522</b>	<b>\$ 7,973</b>
Change in unrealized gains/(losses) included in income related to MSRs held at December 31,	\$ 762	\$ 467	\$ 2,039
Contractual service fees, late fees and other ancillary fees included in income	1,606	1,590	1,535
Third-party mortgage loans serviced at December 31, (in billions)	652	632	584
Servicer advances, net of an allowance for uncollectible amounts, at December 31 <sup>(e)</sup>	577	659	758

- (a) Includes purchase price adjustments associated with MSRs purchased, primarily as a result of loans that prepaid within 90 days of settlement, allowing the Firm to recover the purchase price.
- (b) Includes excess MSRs transferred to agency-sponsored trusts in exchange for stripped mortgage-backed securities ("SMBS"). In each transaction, a portion of the SMBS was acquired by third parties at the transaction date; the Firm acquired the remaining balance of those SMBS as trading securities.
- (c) Represents both the impact of changes in estimated future prepayments due to changes in market interest rates, and the difference between actual and expected prepayments.
- (d) Represents changes in prepayments other than those attributable to changes in market interest rates.
- (e) Represents amounts the Firm pays as the servicer (e.g., scheduled principal and interest, taxes and insurance), which will generally be reimbursed within a short period of time after the advance from future cash flows from the trust or the underlying loans. The Firm's credit risk associated with these servicer advances is minimal because reimbursement of the advances is typically senior to all cash payments to investors. In addition, the Firm maintains the right to stop payment to investors if the collateral is insufficient to cover the advance. However, certain of these servicer advances may not be recoverable if they were not made in accordance with applicable rules and agreements.





The following table presents the components of mortgage fees and related income (including the impact of MSR risk management activities) for the years ended December 31, 2024, 2023 and 2022.

Year ended December 31, (in millions)	2024	2023	2022
<b>CCB mortgage fees and related income</b>			
Production revenue	\$ 627	\$ 421	\$ 497
<b>Net mortgage servicing revenue:</b>			
Operating revenue:			
Loan servicing revenue	1,659	1,634	1,582
Changes in MSR asset fair value due to collection/realization of expected cash flows	(1,067)	(1,011)	(936)
Total operating revenue	592	623	646
<b>Risk management:</b>			
Changes in MSR asset fair value due to market interest rates and other <sup>(a)</sup>	670	424	2,022
Other changes in MSR asset fair value due to other inputs and assumptions in model <sup>(b)</sup>	92	43	17
Change in derivative fair value and other	(603)	(336)	(1,946)
Total risk management	159	131	93
<b>Total net mortgage servicing revenue</b>	<b>751</b>	<b>754</b>	<b>739</b>
<b>Total CCB mortgage fees and related income</b>	<b>1,378</b>	<b>1,175</b>	<b>1,236</b>
All other	23	1	14
<b>Mortgage fees and related income</b>	<b>\$1,401</b>	<b>\$1,176</b>	<b>\$1,250</b>

(a) Represents both the impact of changes in

Changes in fair value based on variations in assumptions generally cannot be easily extrapolated, because the relationship of the change in the assumptions to the change in fair value are often highly interrelated and may not be linear. In the following table, the effect that a change in a particular assumption may have on the fair value is calculated without changing any other assumption. In reality, changes in one factor may result in changes in another, which would either magnify or counteract the impact of the initial change.

The table below outlines the key economic assumptions used to determine the fair value of the Firm's MSRs at December 31, 2024 and 2023, and outlines the sensitivities of those fair values to immediate adverse changes in those assumptions, as defined below.

December 31, (in millions, except rates)	2024	2023
<b>Weighted-average prepayment speed assumption (constant prepayment rate)</b>	<b>6.19 %</b>	<b>6.29 %</b>
Impact on fair value of 10% adverse change	\$ (209)	\$ (206)
Impact on fair value of 20% adverse change	(406)	(401)
<b>Weighted-average option adjusted spread<sup>(a)</sup></b>	<b>5.97 %</b>	<b>6.10 %</b>
Impact on fair value of 100 basis points adverse change	\$ (391)	\$ (369)
Impact on fair value of 200 basis points adverse change	(751)	(709)

(a) Includes the impact of operational risk and regulatory capital.



**Notes to consolidated financial statements**

### Other intangible assets

The Firm's finite-lived and indefinite-lived other intangible assets are initially recorded at their fair value primarily upon completion of a business combination. Subsequently, the Firm's finite-lived intangible assets, including core deposit intangibles, customer relationship intangibles, and certain other intangible assets, are amortized over their useful lives, estimated based on the expected future economic benefits to the Firm of the intangible asset. The Firm's intangible assets with indefinite lives, such as asset management contracts, are not subject to amortization and are assessed periodically for impairment.

As of December 31, 2024 and 2023, the gross carrying values of other intangible assets were \$3.8 billion and \$4.2 billion, respectively, and the accumulated amortization was \$879 million and \$994 million, respectively.

As of December 31, 2024 and 2023, the net carrying values consist of finite-lived intangible assets of \$1.7 billion and \$2.0 billion, respectively, as well as indefinite-lived intangible assets, which are not subject to amortization, of \$1.2 billion at both periods.

As of December 31, 2024, other intangible assets reflected core deposit and certain wealth management customer relationship intangibles related to the First Republic acquisition, and asset management contracts related to the Firm's acquisition of the remaining 51% interest in CIFM. Refer to Note 34 for additional information on the First Republic acquisition.

For the years ended December 31, 2024 and 2023, amortization expense was \$339 million and \$315 million, respectively.

The following table presents estimated future amortization expense.

	Finite-lived
December 31,	intangible
(in millions)	assets

### Impairment testing

The Firm's finite-lived and indefinite-lived other intangible assets are assessed for impairment annually or more often if events or changes in circumstances indicate that the asset might be impaired. Once the Firm determines that an impairment exists for an intangible asset, the impairment is recognized in other expense.





## Note 16 – Premises and equipment

Premises and equipment includes land carried at cost, as well as buildings, leasehold improvements, internal-use software and furniture and equipment carried at cost less accumulated depreciation and amortization. The Firm's operating lease right-of-use assets are also included in Premises and equipment. Refer to Note 18 for a further discussion of the Firm's right-of-use assets.

The following table presents certain components of Premises and equipment.

December 31, (in millions)	2024	2023
Land, buildings and leasehold improvements	\$ 16,874	\$ 14,862
Right-of-use assets <sup>(a)</sup>	7,930	7,917
Other premises and equipment <sup>(b)</sup>	7,419	7,378
<b>Total premises and equipment</b>	<b>\$ 32,223</b>	<b>\$ 30,157</b>

(a) Excluded \$564 million and \$514 million of right-of-use assets that were recorded in Other assets at December 31, 2024 and 2023, respectively.

(b) Other premises and equipment is comprised of internal-use software and furniture and equipment.

JPMorganChase computes depreciation using the straight-line method over the estimated useful life for buildings and furniture and equipment. The Firm depreciates leasehold improvements over the lesser of the remainder of the lease term or the estimated useful life. The Firm also capitalizes certain costs associated with the acquisition or development of internal-use software. Once the software is ready for its intended use, these costs are amortized on a straight-line basis over the software's expected useful life. The estimated useful lives range from 10 to 50 years for buildings and leasehold improvements, and 3 to 10 years for internal-use software and furniture and equipment. Impairment is assessed when events or changes in circumstances indicate

## Note 17 – Deposits

As of December 31, 2024 and 2023, noninterest-bearing and interest-bearing deposits were as follows:

December 31, (in millions)	2024	2023
<b>U.S. offices</b>		
Noninterest-bearing (included \$28,904 and \$75,393 at fair value) <sup>(a)</sup>	\$ 592,500	\$ 643,748
Interest-bearing (included \$1,101 and \$573 at fair value) <sup>(a)</sup>	1,345,914	1,303,100
<b>Total deposits in U.S. offices</b>	<b>1,938,414</b>	<b>1,946,848</b>
<b>Non-U.S. offices</b>		
Noninterest-bearing (included \$2,255 and \$1,737 at fair value) <sup>(a)</sup>	26,806	23,097
Interest-bearing (included \$1,508 and \$681 at fair value) <sup>(a)</sup>	440,812	430,743
<b>Total deposits in non-U.S. offices</b>	<b>467,618</b>	<b>453,840</b>
<b>Total deposits</b>	<b>\$2,406,032</b>	<b>\$2,400,688</b>

(a) Includes structured notes classified as deposits for which the fair value option has been elected. Refer to Note 3 for further discussion.

As of December 31, 2024 and 2023, time deposits in denominations that met or exceeded the insured limit were as follows:

December 31, (in millions)	2024	2023
U.S. offices	\$149,239	\$132,654
Non-U.S. offices <sup>(a)</sup>	92,639	90,187
<b>Total</b>	<b>\$241,878</b>	<b>\$222,841</b>

(a) Represents all time deposits in non-U.S. offices as these deposits typically exceed the insured limit.

As of December 31, 2024, the remaining maturities of interest-bearing time deposits were as follows:





## **Notes to consolidated financial statements**

### **Note 18 - Leases**

### Firm as lessee

At December 31, 2024, JPMorganChase and its subsidiaries were obligated under a number of noncancellable leases, predominantly operating leases for premises and equipment used primarily for business purposes. These leases generally have terms of 20 years or less, determined based on the contractual maturity of the lease, and include periods covered by options to extend or terminate the lease when the Firm is reasonably certain that it will exercise those options. All leases with lease terms greater than twelve months are reported as a lease liability with a corresponding right-of-use ("ROU") asset. None of these lease agreements impose restrictions on the Firm's ability to pay dividends, engage in debt or equity financing transactions or enter into further lease agreements. Certain of these leases contain escalation clauses that will increase rental payments based on maintenance, utility and tax increases, which are non-lease components. The Firm elected not to separate lease and non-lease components of a contract for its real estate leases. As such, real estate lease payments represent payments on both lease and non-lease components. Operating lease liabilities and ROU assets are recognized at the lease commencement date based on the present value of the future minimum lease payments over the lease term. The future lease payments are discounted at a rate that estimates the Firm's collateralized borrowing rate for financing instruments of a similar term and are included in accounts payable and other liabilities. The operating lease ROU assets, predominantly included in premises and equipment, also include any lease prepayments made, plus initial direct costs incurred, less any lease incentives received. Rental expense associated with operating leases is recognized on a straight-line basis over the lease term, and generally included in occupancy expense in the Consolidated statements of income.

The carrying values of the Firm's operating leases were as follows:

December 31, (in millions, except where otherwise noted)	2024	2023
Right-of-use assets	\$ 8,494	\$ 8,431
Lease liabilities	8,900	8,833
Weighted average remaining lease term (in years)	8.3	8.4
Weighted average discount rate	4.24 %	4.01 %

### Supplemental cash flow information

Cash paid for amounts included in the measurement of lease liabilities - operating cash flows	\$ 1,734	\$ 1,662
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### Supplemental non-cash information

Right-of-use assets obtained in exchange for operating lease obligations	\$ 1,565	\$ 2,094
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Year ended December 31, (in millions)	2024	2023
<b>Rental expense</b>		
Gross rental expense	\$ 2,231	\$ 2,079
Sublease rental income	(41)	(72)
<b>Net rental expense</b>	\$ 2,190	\$ 2,007

The following table presents future payments under operating leases as of December 31, 2024.

Year ended December 31, (in millions)	
2025	1,709
2026	1,553
2027	1,412
2028	1,248
2029	1,048
After 2029	3,721
<b>Total future minimum lease payments</b>	10,691
Less: Imputed interest	(1,791)
<b>Total</b>	\$ 8,900

In addition to the table above, as of December 31, 2024, the Firm had additional future operating lease commitments of \$887 million that were





### Firm as lessor

The Firm provides auto and equipment lease financing to its customers through lease arrangements with lease terms that may contain renewal, termination and/or purchase options. The Firm's lease financings are predominantly auto operating leases. These assets subject to operating leases are recognized in other assets on the Firm's Consolidated balance sheets and are depreciated on a straight-line basis over the lease term to reduce the asset to its estimated residual value.

Depreciation expense is included in technology, communications and equipment expense in the Consolidated statements of income. The Firm's lease income is generally recognized on a straight-line basis over the lease term and is included in other income in the Consolidated statements of income.

On a periodic basis, the Firm assesses leased assets for impairment, and if the carrying amount of the leased asset exceeds the undiscounted cash flows from the lease payments and the estimated residual value upon disposition of the leased asset, an impairment is recognized.

The risk of loss on auto and equipment leased assets relating to the residual value of the leased assets is monitored through projections of the asset residual values at lease origination and periodic review of residual values, and is mitigated through arrangements with certain manufacturers or lessees.

The following table presents the carrying value of assets subject to leases reported on the Consolidated balance sheets.

December 31, (in millions)	2024	2023
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Carrying value of assets subject to operating leases, net of accumulated depreciation	\$ 12,988	\$ 10,663
Accumulated depreciation	2,509	3,288

The following table presents future receipts under operating leases as of December 31, 2024.

Year ended December 31, (in millions)	
2025	\$ 2,381
2026	1,707
2027	704
2028	47
2029	5
After 2029	4
<b>Total future minimum lease receipts</b>	<b>\$ 4,848</b>



## Notes to consolidated financial statements

### Note 19 – Accounts payable and other liabilities

Accounts payable and other liabilities consist of brokerage payables, which include payables to customers and payables related to security purchases that did not settle, as well as other accrued expenses, such as compensation accruals, credit card rewards liability, merchant servicing payables, operating lease liabilities, accrued interest payables, income tax payables and litigation reserves.

The following table presents the components of accounts payable and other liabilities.

December 31, (in millions)	2024	2023
Brokerage payables	\$153,153	\$161,960
Other payables and liabilities <sup>(a)</sup>	127,519	128,347
<b>Total accounts payable and other liabilities</b>	<b>\$280,672</b>	<b>\$290,307</b>

(a) Includes credit card rewards liability of \$14.4 billion and \$13.2 billion at December 31, 2024 and 2023, respectively.

The credit card rewards liability represents the estimated cost of rewards points earned and expected to be redeemed by cardholders. The liability is accrued as the cardholder earns the benefit and is reduced when the cardholder redeems points. The redemption rate and cost per point assumptions are key assumptions to estimate the liability and the current period impact is recognized in Card Income.

Refer to Notes 7, 18, 25 and 30 for additional information on accrued interest, operating lease liabilities, income taxes and litigation reserves, respectively.

**Note 20 - Long-term debt**

JPMorganChase issues long-term debt denominated in various currencies, predominantly U.S. dollars, with both fixed and variable interest rates. Included in senior and subordinated debt below are various equity-linked or other indexed instruments, which the Firm has elected to measure at fair value. Changes in fair value are recorded in principal transactions revenue in the Consolidated statements of income, except for unrealized gains/(losses) due to DVA which are recorded in OCI. The following table is a summary of long-term debt carrying values (including unamortized premiums and discounts, issuance costs, valuation adjustments and fair value adjustments, where applicable) by remaining contractual maturity as of December 31, 2024.



		2024				2023
By remaining maturity at December 31, (in millions, except rates)		Under 1 year	1-5 years	After 5 years	Total	Total
Parent company						
Senior debt:	Fixed rate \$	7,112	\$ 90,132	\$ 117,667	\$ 214,911	\$ 200,984
	Variable rate	255	6,838	1,562	8,655	8,105
	Interest rates <sup>(f)</sup>	3.04 %	3.40 %	4.02 %	3.71 %	3.32 %
Subordinated debt:	Fixed rate \$	302	\$ 5,582	\$ 8,573	\$ 14,457	\$ 17,725
	Variable rate	—	—	—	—	—
	Interest rates <sup>(f)</sup>	7.75 %	4.72 %	4.69 %	4.76 %	4.62 %
Subtotal \$		7,669	\$ 102,552	\$ 127,802	\$ 238,023	\$ 226,814
Subsidiaries						
Federal Home Loan						
Banks advances:	Fixed rate \$	7,582	\$ 1,651	\$ 24	\$ 9,257	\$ 23,246
	Variable rate	4,000	16,000	—	20,000	18,000
	Interest rates <sup>(f)</sup>	4.42 %	4.84 %	5.91 %	4.67 %	4.89 %
Purchase Money Note <sup>(a)</sup> :	Fixed rate \$	—	\$ 49,208	\$ —	\$ 49,208	\$ 48,989
	Interest rates <sup>(f)</sup>	— %	3.40 %	— %	3.40 %	3.40 %
Senior debt:	Fixed rate \$	2,361	\$ 16,695	\$ 7,489	\$ 26,545	\$ 20,745
	Variable rate	19,350	30,981	6,451	56,782	52,048
	Interest rates <sup>(f)</sup>	5.39 %	5.18%	1.44 %	3.81 %	3.91 %
Subordinated debt:	Fixed rate \$	—	\$ —	\$ —	\$ —	\$ 255
	Variable rate	—	—	—	—	—
	Interest rates <sup>(f)</sup>	— %	— %	— %	— %	8.25 %
Subtotal \$		33,293	\$ 114,535	\$ 13,964	\$ 161,792	\$ 163,283
Junior subordinated debt:						
	Fixed rate \$	—	\$ —	\$ 488	\$ 488	\$ 518
	Variable rate	—	421	694	1,115	1,210
	Interest rates <sup>(f)</sup>	— %	5.35 %	7.01 %	6.58 %	7.14 %
Subtotal \$		—	\$ 421	\$ 1,182	\$ 1,603	\$ 1,728

- (a) Reflects the Purchase Money Note associated with First Republic. Refer to Note 34 for additional information.
- (b) Included long-term debt of \$80.9 billion and \$93.0 billion secured by assets totaling \$185.5 billion and \$218.5 billion at December 31, 2024 and 2023, respectively. The amount of long-term debt secured by assets does not include amounts related to hybrid instruments.
- (c) Included \$100.8 billion and \$87.9 billion of long-term debt accounted for at fair value at December 31, 2024 and 2023, respectively.
- (d) Included \$13.5 billion and \$12.5 billion of outstanding zero-coupon notes at December 31, 2024 and 2023, respectively. The aggregate principal amount of these notes at their respective maturities is \$50.2 billion and \$47.9 billion, respectively. The aggregate principal amount reflects the contractual principal payment at maturity, which may exceed the contractual principal payment at the Firm's next call date, if applicable.
- (e) Included on the Consolidated balance sheets in beneficial interests issued by consolidated VIEs. Also included amounts accounted for at fair value which were not material as of December 31, 2024 and 2023. Excluded short-term commercial paper and other short-term beneficial interests of \$21.8 billion and \$19.9 billion at December 31, 2024 and 2023, respectively.
- (f) The interest rates shown are the weighted average of contractual rates in effect at December 31, 2024 and 2023, respectively, including non-U.S. dollar fixed- and variable-rate issuances, which excludes the effects of the associated derivative instruments used in hedge accounting relationships, if applicable. The interest rates shown exclude structured notes accounted for at fair value.
- (g) As of December 31, 2024, long-term debt in the aggregate of \$297.1 billion was redeemable at the option of JPMorganChase, in whole or in part, prior to maturity, based on the terms specified in the respective instruments.
- (h) The aggregate carrying values of debt that matures in each of the five years subsequent to 2024 is \$41.0 billion in 2025, \$64.5 billion in 2026, \$32.7 billion in 2027, \$93.4 billion in 2028 and \$26.9 billion in 2029.

## Notes to consolidated financial statements

The weighted-average contractual interest rates for total long-term debt excluding structured notes accounted for at fair value were 3.82% and 3.65% as of December 31, 2024 and 2023, respectively. In order to modify exposure to interest rate and currency exchange rate movements, JPMorganChase utilizes derivative instruments, primarily interest rate and cross-currency interest rate swaps, in conjunction with some of its debt issuances. The use of these instruments modifies the Firm's interest expense on the associated debt. The modified weighted-average interest rates for total long-term debt, including the effects of related derivative instruments, were 5.15% and 5.20% as of December 31, 2024 and 2023, respectively.

JPMorgan Chase & Co. has guaranteed certain long-term debt of its subsidiaries, including structured notes. These guarantees rank pari passu with the Firm's other unsecured and unsubordinated indebtedness. The amount of such guaranteed long-term debt and structured notes was \$41.2 billion and \$41.1 billion at December 31, 2024 and 2023, respectively.

The Firm's unsecured debt does not contain requirements that would call for an acceleration of payments, maturities or changes in the structure of the existing debt, provide any limitations on future borrowings or require additional collateral, based on unfavorable changes in the Firm's credit ratings, financial ratios, earnings or stock price.

**Note 21 - Preferred stock**

At December 31, 2024 and 2023, JPMorganChase was authorized to issue 200 million shares of preferred stock, in one or more series, with a par value of \$1 per share. In the event of a liquidation or dissolution of the Firm, JPMorganChase's preferred stock then outstanding takes precedence over the Firm's common stock with respect to the payment of dividends and the distribution of assets.

The following is a summary of JPMorganChase's non-cumulative preferred stock outstanding as of December 31, 2024 and 2023, and the quarterly dividend declarations for the years ended December 31, 2024, 2023 and 2022.

	Shares <sup>(a)</sup>		Carrying value (in millions)		Issue date	Contractual rate in effect at December 31, 2024			Dividend declared per share <sup>(d)</sup> Year ended December 31,		
	December 31,		December 31,			Earliest redemption date <sup>(b)</sup>	Floating annualized rate <sup>(c)</sup>	2024	2023	2022	
	2024	2023	2024	2023							
Fixed-rate:											
Series DD	169,625	169,625	1,696	1,696	9/21/2018	5.750	12/1/2023	NA	575.00	575.00	575.00
Series EE	185,000	185,000	1,850	1,850	1/24/2019	6.000	3/1/2024	NA	600.00	600.00	600.00
Series GG	90,000	90,000	900	900	11/7/2019	4.750	12/1/2024	NA	475.00	475.00	475.00
Series JJ	150,000	150,000	1,500	1,500	3/17/2021	4.550	6/1/2026	NA	455.00	455.00	455.00
Series LL	185,000	185,000	1,850	1,850	5/20/2021	4.625	6/1/2026	NA	462.52	462.52	462.52
Series MM	200,000	200,000	2,000	2,000	7/29/2021	4.200	9/1/2026	NA	420.00	420.00	420.00
Fixed-to-floating rate:											
Series I	—	—	\$ —	\$ —	4/23/2008	—	% 4/30/2018	—	% \$ —	\$ —	\$375.03
Series Q	—	150,000	—	1,500	4/23/2013	—	5/1/2023	SOFR + 3.25	220.45	801.41 <sup>(g)</sup>	515.00
Series R	—	150,000	—	1,500	7/29/2013	—	8/1/2023	SOFR + 3.30	221.70	756.73 <sup>(h)</sup>	600.00
Series S	—	200,000	—	2,000	1/22/2014	—	2/1/2024	SOFR + 3.78	233.70 <sup>(e)</sup>	675.00	675.00
Series U	—	100,000	—	1,000	3/10/2014	—	4/30/2024	SOFR + 3.33	153.13	612.50	612.50
Series V	—	—	—	—	6/9/2014	—	7/1/2019	—	—	—	340.91
Series X	—	160,000	—	1,600	9/23/2014	—	10/1/2024	SOFR + 3.33	457.50	610.00	610.00
Series CC	125,750	125,750	1,258	1,258	10/20/2017	SOFR + 2.58	11/1/2022	SOFR + 2.58	812.73	804.08	526.27 <sup>(i)</sup>
Series FF	—	225,000	—	2,250	7/31/2019	—	8/1/2024	SOFR + 3.38	250.00	500.00	500.00
Series HH	300,000	300,000	3,000	3,000	1/23/2020	4.600	2/1/2025	SOFR + 3.125	460.00	460.00	460.00
Series II	150,000	150,000	1,500	1,500	2/24/2020	4.000	4/1/2025	SOFR + 2.745	400.00	400.00	400.00
Series KK	200,000	200,000	2,000	2,000	5/12/2021	3.650	6/1/2026	CMT + 2.85	365.00	365.00	365.00
Series NN	250,000	NA	2,496	NA	3/12/2024	6.875	6/1/2029	CMT + 2.737	494.63 <sup>(f)</sup>	NA	NA
Total preferred stock	2,005,375	2,740,375	\$20,950	\$27,404							

- (a) Represented by depositary shares.
- (b) Each series of fixed-to-floating rate preferred stock converts to a floating rate at the earliest redemption date.
- (c) Effective June 30, 2023, CME Term SOFR became the replacement reference rate for fixed-to-floating rate preferred stock issued by the Firm that formerly referenced U.S. dollar LIBOR. References in the table to "SOFR" mean a floating annualized rate equal to three-month term SOFR (plus a spread adjustment of 0.26% per annum) plus the spreads noted. References to "CMT" mean a floating annualized rate equal to the five-year Constant Maturity Treasury ("CMT") rate plus the spreads noted.
- (d) Dividends on preferred stock are discretionary and non-cumulative. When declared, dividends are declared quarterly. Dividends are payable quarterly on fixed-rate preferred stock. Dividends are payable semiannually on fixed-to-floating rate preferred stock while at a fixed rate, and payable quarterly after converting to a floating rate.
- (e) The dividend rate for Series S preferred stock became floating and payable quarterly starting on February 1, 2024; prior to which the dividend rate was fixed at 6.75% or \$337.50 per share payable semiannually. The dividend rate for each quarterly dividend period commencing on February 1, 2024 was three-month term SOFR (plus a spread adjustment of 0.26% per annum) plus the spread of 3.78%.
- (f) The initial dividend declared was prorated based on the number of days outstanding for the period. Dividends were declared quarterly thereafter at the contractual rate.
- (g) The dividend rate for Series Q preferred stock became floating and payable quarterly starting on May 1, 2023; prior to which the dividend rate was fixed at 5.15% or \$257.50 per share payable semiannually. The dividend rate for each quarterly dividend period commencing on August 1, 2023 was three-month term SOFR (plus a spread adjustment of 0.26% per annum) plus the spread of 3.25%.
- (h) The dividend rate for Series R preferred stock became floating and payable quarterly starting on August 1, 2023; prior to which the dividend rate was fixed at 6.00% or \$300.00 per share payable semiannually. The dividend rate for each quarterly dividend period commencing on August 1, 2023 was three-month term SOFR (plus a spread adjustment of 0.26% per annum) plus the spread of 3.30%.
- (i) The dividend rate for Series CC preferred stock became floating and payable quarterly starting on November 1, 2022; prior to which the dividend rate was fixed at 4.625% or \$231.25 per share payable semiannually. The dividend rate for each quarterly dividend period commencing on August 1, 2023 was three-month term SOFR (plus a spread adjustment of 0.26% per annum) plus the spread of 2.58%.

## Notes to consolidated financial statements

Each series of preferred stock has a liquidation value and redemption price per share of \$10,000, plus accrued but unpaid dividends. The aggregate liquidation value was \$20.2 billion at December 31, 2024.

### Issuances

On February 4, 2025, the Firm issued \$3.0 billion of fixed-rate reset non-cumulative preferred stock, Series 00.

On March 12, 2024, the Firm issued \$2.5 billion of fixed-rate reset non-cumulative preferred stock, Series NN.

### Redemptions

On February 1, 2025, the Firm redeemed all \$3.0 billion of its fixed-to-floating rate non-cumulative preferred stock, Series HH.

On October 1, 2024, the Firm redeemed all \$1.6 billion of its fixed-to-floating rate non-cumulative preferred stock, Series X.

On August 1, 2024, the Firm redeemed all \$2.3 billion of its fixed-to-floating rate non-cumulative preferred stock, Series FF.

On May 1, 2024, the Firm redeemed all \$5.0 billion of its fixed-to-floating rate non-cumulative preferred stock, Series Q, Series R and Series S.

On April 30, 2024, the Firm redeemed all \$1.0 billion of its fixed-to-floating rate non-cumulative preferred stock, Series U.

### *Redemption rights*

Each series of the Firm's preferred stock may be redeemed on any dividend payment date on or after the earliest redemption date for that series. All outstanding preferred stock series may also be redeemed following a "capital treatment event," as described in the terms of each series. Any redemption of the Firm's preferred stock is subject to non-objection from the Board of Governors of the Federal Reserve System (the "Federal Reserve").

**Note 22 - Common stock**



At December 31, 2024 and 2023, JPMorganChase was authorized to issue 9.0 billion shares of common stock with a par value of \$1 per share.

Common shares issued which were reissued from treasury by the Firm during the years ended December 31, 2024, 2023 and 2022 were as follows.

Year ended December 31, (in millions)	2024	2023	2022
<b>Total issued - balance at January 1</b>	<b>4,104.9</b>	4,104.9	4,104.9
Treasury - balance at January 1	(1,228.3)	(1,170.7)	(1,160.8)
Repurchase	(91.7)	(69.5)	(23.1)
Reissuance:			
Employee benefits and compensation plans	11.9	10.9	12.0
Employee stock purchase plans	0.8	1.0	1.2
<b>Total reissuance</b>	<b>12.7</b>	11.9	13.2
<b>Total treasury - balance at December 31</b>	<b>(1,307.3)</b>	(1,228.3)	(1,170.7)
<b>Outstanding at December 31</b>	<b>2,797.6</b>	2,876.6	2,934.2

On June 28, 2024, the Firm announced that its Board of Directors had authorized a new \$30 billion common share repurchase program, effective July 1, 2024. Through June 30, 2024, the Firm was authorized to purchase up to \$30 billion of common shares under its previously-approved common share repurchase program that was announced on April 13, 2022.

The following table sets forth the Firm's repurchases of common stock for the years ended December 31, 2024, 2023 and 2022.

Year ended December 31, (in millions)	2024	2023	2022 <sup>(b)</sup>
Total number of shares of common stock repurchased	91.7	69.5	23.1
Aggregate purchase price of common stock repurchases <sup>(a)</sup>	\$18,841	\$9,898	\$3,122

(a) Excludes excise tax and commissions. As part of the Inflation Reduction Act of 2022, a 1% excise tax is imposed on net share repurchases commencing January 1, 2023.

(b) In the second half of 2022, the Firm temporarily suspended share repurchases, which it resumed in the first quarter of 2023 under its common share repurchase program.

The Board of Directors' authorization to repurchase common shares is utilized at management's discretion. The \$30 billion common share repurchase program approved by the Board of Directors does not establish specific price targets or timetables. Management determines the amount and timing of common share repurchases based on various factors, including market conditions; legal and regulatory considerations affecting the amount and timing of repurchase activity; the Firm's capital position (taking into account goodwill and intangibles); organic capital generation; current and proposed future capital requirements; and other investment opportunities. The amount of common shares that the Firm repurchases in any period may be substantially more or less than the amounts estimated or actually repurchased in prior periods, reflecting the dynamic nature of the decision-making process. The Firm's common share repurchases may be suspended by management at any time; and may be executed through open market purchases or privately negotiated transactions, or utilizing Rule 10b5-1 plans which are written



## **Notes to consolidated financial statements**

### **Note 23 - Earnings per share**

Basic earnings per share ("EPS") is calculated using the two-class method. Under the two-class method, all earnings (distributed and undistributed) are allocated to common stock and participating securities. JPMorganChase grants RSUs under its share-based compensation programs, predominantly all of which entitle recipients to receive nonforfeitable dividends during the vesting period on a basis equivalent to dividends paid to holders of the Firm's common stock. These unvested RSUs meet the definition of participating securities based on their respective rights to receive nonforfeitable dividends, and they are treated as a separate class of securities in computing basic EPS. Participating securities are not included as incremental shares in computing diluted EPS; refer to Note 9 for additional information.

Diluted EPS incorporates the potential impact of contingently issuable shares, including awards which require future service as a condition of delivery of the underlying common stock. Diluted EPS is calculated under both the two-class and treasury stock methods, and the more dilutive amount is reported. For each of the periods presented in the table below, diluted EPS calculated under the two-class method was more dilutive.

The following table presents the calculation of net income applicable to common stockholders and basic and diluted EPS for the years ended December 31, 2024, 2023 and 2022.

Year ended December 31, (in millions, except per share amounts)	2024	2023	2022
<b>Basic earnings per share</b>			
Net income	\$58,471	\$49,552	\$37,676
Less: Preferred stock dividends	1,259	1,501	1,595
<b>Net income applicable to common equity</b>	<b>57,212</b>	<b>48,051</b>	<b>36,081</b>
Less: Dividends and undistributed earnings allocated to participating securities	344	291	189
<b>Net income applicable to common stockholders</b>	<b>\$56,868</b>	<b>\$47,760</b>	<b>\$35,892</b>
Total weighted-average basic shares outstanding	2,873.9	2,938.6	2,965.8
<b>Net income per share</b>	<b>\$ 19.79</b>	<b>\$ 16.25</b>	<b>\$ 12.10</b>
<b>Diluted earnings per share</b>			
<b>Net income applicable to common stockholders</b>	<b>\$56,868</b>	<b>\$47,760</b>	<b>\$35,892</b>
Total weighted-average basic shares outstanding	2,873.9	2,938.6	2,965.8
Add: Dilutive impact of unvested PSUs, nondividend-earning RSUs and SARs	5.1	4.5	4.2
<b>Total weighted-average diluted shares outstanding</b>	<b>2,879.0</b>	<b>2,943.1</b>	<b>2,970.0</b>
<b>Net income per share</b>	<b>\$ 19.75</b>	<b>\$ 16.23</b>	<b>\$ 12.09</b>



## Note 24 - Accumulated other comprehensive income/(loss)

AOCI includes the after-tax change in unrealized gains and losses on investment securities, foreign currency translation adjustments (including the impact of related derivatives), fair value changes of excluded components on fair value hedges, cash flow hedging activities, net gain/(loss) related to the Firm's defined benefit pension and OPEB plans, and fair value option-elected liabilities arising from changes in the Firm's own credit risk (DVA).

Year ended (in millions)	Unrealized gains/ (losses) on investment securities	Translation adjustments, net of hedges	Fair value hedges	Cash flow hedges	Defined benefit pension and OPEB plans	DVA on fair value option elected liabilities	Accumulated other comprehensive income/(loss)
Balance at December 31, 2021	\$ 2,640	\$ (934)	\$ (131)	\$ (296)	\$ (210)	\$ (1,153)	\$ (84)
Net change	(11,764)	(611)	98	(5,360)	(1,241)	1,621	(17,257)
Balance at December 31, 2022	\$ (9,124) <sup>(a)</sup>	\$ (1,545)	\$ (33)	\$ (5,656)	\$ (1,451)	\$ 468	\$ (17,341)
Net change	5,381	329	(101)	1,724	373	(808)	6,898
Balance at December 31, 2023	\$ (3,743) <sup>(a)</sup>	\$ (1,216)	\$ (134)	\$ (3,932)	\$ (1,078)	\$ (340)	\$ (10,443)
Net change	(87)	(858)	(87)	(882)	(63)	(36)	(2,013)
Balance at December 31, 2024	\$ (3,830) <sup>(a)</sup>	\$ (2,074)	\$ (221)	\$ (4,814)	\$ (1,141)	\$ (376)	\$ (12,456)

(a) Included after-tax net unamortized unrealized gains/(losses) of \$(651) million, \$(895) million, and \$(1.3) billion for the years ended 2024, 2023 and 2022, respectively, related to AFS securities that have been transferred to HTM. As of December 31, 2023 included after-tax net unamortized unrealized gains/(losses) of \$(29) million related to HTM securities that have been transferred to AFS as permitted by the new hedge accounting guidance adopted on January 1, 2023. Refer to Note 10 for further information.

The following table presents the pre-tax and after-tax changes in the components of OCI.

Year ended December 31, (in millions)	2024			2023			2022		
	Pre-tax	Tax effect	After-tax	Pre-tax	Tax effect	After-tax	Pre-tax	Tax effect	After-tax
<b>Unrealized gains/(losses) on investment securities:</b>									
Net unrealized gains/(losses) arising during the period	<b>\$(1,135)</b>	<b>\$ 274</b>	<b>\$ (861)</b>	\$3,891	\$ (922)	\$2,969	\$(17,862)	\$4,290	\$(13,572)
Reclassification adjustment for realized (gains)/losses included in net income <sup>(a)</sup>	<b>1,021</b>	<b>(247)</b>	<b>774</b>	3,180	(768)	2,412	2,380	(572)	1,808
<b>Net change</b>	<b>(114)</b>	<b>27</b>	<b>(87)</b>	7,071	(1,690)	5,381	(15,482)	3,718	(11,764)
<b>Translation adjustments<sup>(b)</sup>:</b>									
Translation	<b>(4,385)</b>	<b>250</b>	<b>(4,135)</b>	1,714	(95)	1,619	(3,574)	265	(3,309)
Hedges	<b>4,322</b>	<b>(1,045)</b>	<b>3,277</b>	(1,697)	407	(1,290)	3,553	(855)	2,698
<b>Net change</b>	<b>(63)</b>	<b>(795)</b>	<b>(858)</b>	17	312	329	(21)	(590)	(611)
<b>Fair value hedges, net change<sup>(c)</sup></b>	<b>(115)</b>	<b>28</b>	<b>(87)</b>	(134)	33	(101)	130	(32)	98
<b>Cash flow hedges:</b>									
Net unrealized gains/(losses) arising during the period	<b>(3,742)</b>	<b>904</b>	<b>(2,838)</b>	483	(114)	369	(7,473)	1,794	(5,679)
Reclassification adjustment for realized (gains)/losses included in net income <sup>(d)</sup>	<b>2,579</b>	<b>(623)</b>	<b>1,956</b>	1,775	(420)	1,355	420	(101)	319
<b>Net change</b>	<b>(1,163)</b>	<b>281</b>	<b>(882)</b>	2,258	(534)	1,724	(7,053)	1,693	(5,360)
<b>Defined benefit pension and OPEB plans, net change<sup>(e)</sup></b>	<b>(131)</b>	<b>68</b>	<b>(63)</b>	421	(48)	373	(1,459)	218	(1,241)
<b>DVA on fair value option elected liabilities, net change</b>	<b>(45)</b>	<b>9</b>	<b>(36)</b>	(1,066)	258	(808)	2,141	(520)	1,621
<b>Total other comprehensive income/(loss)</b>	<b>\$(1,631)</b>	<b>\$ (382)</b>	<b>\$(2,013)</b>	\$8,567	\$(1,669)	\$6,898	\$(21,744)	\$4,487	\$(17,257)

(a) The pre-tax amount is reported in Investment securities gains/(losses) in the Consolidated statements of income.

- (b) Reclassifications of pre-tax realized gains/(losses) on translation adjustments and related hedges are reported in other income/expense in the Consolidated statements of income. During the year ended December 31, 2024, the Firm reclassified a net pre-tax gain of \$7 million to other income/expense, of which \$89 million gain related to net investment hedges and \$ (82) million loss related to cumulative translation adjustments. During the year ended December 31, 2023, the Firm reclassified a net pre-tax loss of \$(3) million. During the year ended December 31, 2022, the Firm reclassified a net pre-tax loss of \$(8) million.
- (c) Represents changes in fair value of cross-currency swaps attributable to changes in cross-currency basis spreads, which are excluded from the assessment of hedge effectiveness and recorded in other comprehensive income. The initial cost of cross-currency basis spreads is recognized in earnings as part of the accrual of interest on the cross-currency swaps.
- (d) The pre-tax amounts are primarily recorded in noninterest revenue, net interest income and compensation expense in the Consolidated statements of income.
- (e) During the year ended December 31, 2022, a remeasurement of the Firm's U.S. principal defined benefit plan in the third quarter, was required as a result of a pension settlement. The remeasurement resulted in a net decrease of \$1.4 billion in pre-tax AOCI.



## **Notes to consolidated financial statements**

### **Note 25 - Income taxes**

JPMorganChase and its eligible subsidiaries file a consolidated U.S. federal income tax return. JPMorganChase uses the asset and liability method to provide for income taxes on all transactions recorded in the Consolidated Financial Statements. This method requires that income taxes reflect the expected future tax consequences of temporary differences between the carrying amounts of assets or liabilities for book and tax purposes. Accordingly, a deferred tax asset or liability for each temporary difference is determined based on the tax rates that the Firm expects to be in effect when the underlying items of income and expense are realized. JPMorganChase's expense for income taxes includes the current and deferred portions of that expense. A valuation allowance is established to reduce deferred tax assets to the amount the Firm expects to realize. Due to the inherent complexities arising from the nature of the Firm's businesses, and from conducting business and being taxed in a substantial number of jurisdictions, significant judgments and estimates are required to be made. Agreement of tax liabilities between JPMorganChase and the many tax jurisdictions in which the Firm files tax returns may not be finalized for several years. Thus, the Firm's final tax-related assets and liabilities may ultimately be different from those currently reported.

Effective January 1, 2024, the Firm adopted updates to the Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method guidance, under the modified retrospective method. Refer to Notes 1, 6 and 14 for additional information.

#### Effective tax rate and expense

The following table presents a reconciliation of the applicable statutory U.S. federal income tax rate to the effective tax rate.

#### Effective tax rate

Year ended December 31,	2024	2023	2022
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The following table reflects the components of income tax expense/ (benefit) included in the Consolidated statements of income.

#### Income tax expense/(benefit)

Year ended December 31,	2024	2023	2022
(in millions)			
<b>Current income tax expense/ (benefit)</b>			
U.S. federal	\$ 7,091	\$ 8,973	\$5,606
Non-U.S.	4,753	4,355	2,992
U.S. state and local	2,762	3,266	2,630
<b>Total current income tax expense/ (benefit)</b>	<b>14,606</b>	<b>16,594</b>	<b>11,228</b>
<b>Deferred income tax expense/ (benefit)</b>			
U.S. federal	1,771	(3,475)	(2,004)
Non-U.S.	72	35	(154)
U.S. state and local	161	(1,094)	(580)
<b>Total deferred income tax expense/ (benefit)</b>	<b>2,004</b>	<b>(4,534)</b>	<b>(2,738)</b>
<b>Total income tax expense</b>	<b>\$16,610</b>	<b>\$12,060</b>	<b>\$8,490</b>

Total income tax expense includes \$314 million, \$68 million and \$331 million of tax benefits in 2024, 2023, and 2022, respectively, resulting from the resolution of tax audits.

#### Tax effect of items recorded in stockholders' equity

The preceding table does not reflect the tax effect of certain items that are recorded each period directly in stockholders' equity, which are predominantly reflected in OCI as disclosed in Note 24. For the year ended December 31, 2024, stockholders' equity reflected the tax effect associated with the Firm's adoption of the Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method guidance. For the year ended December 31, 2023, stockholders' equity reflected the tax effect associated with the Firm's adoption of the TDR accounting guidance. Both of the respective adoptions were recognized in retained earnings.





## Deferred taxes

Deferred income tax expense/(benefit) reflects the differences between assets and liabilities measured for financial reporting purposes versus income tax return purposes. Deferred tax assets are recognized if, in management's judgment, their realizability is determined to be more likely than not. If a deferred tax asset is determined to be unrealizable, a valuation allowance is established. The significant components of deferred tax assets and liabilities are reflected in the following table, the net deferred tax assets are reflected in other assets on the Firm's Consolidated balance sheets.

December 31, (in millions)	2024	2023
<b>Deferred tax assets</b>		
Allowance for loan losses	\$ 6,117	\$ 5,809
Employee benefits	1,165	1,247
Accrued expenses and other	8,881	9,887 <sup>(a)</sup>
Depreciation and amortization	386	—
Non-U.S. operations	948	860
Tax attribute carryforwards	352	290
<b>Gross deferred tax assets</b>	<b>17,849</b>	<b>18,093</b>
Valuation allowance	(249)	(183)
<b>Deferred tax assets, net of valuation allowance</b>	<b>\$17,600</b>	<b>\$17,910</b>
<b>Deferred tax liabilities</b>		
Depreciation and amortization	\$ —	\$ 779
Mortgage servicing rights, net of hedges	1,912	1,794
Leasing transactions	2,249	2,254
Other, net	1,264	2,935
<b>Gross deferred tax liabilities</b>	<b>5,425</b>	<b>7,762</b>
<b>Net deferred tax assets</b>	<b>\$12,175</b>	<b>\$10,148</b>

(a) Includes the estimated net deferred tax asset associated with the First Republic acquisition.

JPMorganChase has recorded deferred tax assets of \$352 million at December 31, 2024 in connection with tax attribute carryforwards. State and local capital loss carryforwards were \$914 million, U.S. federal NOL carryforwards were \$496 million, non-U.S. NOL carryforwards were \$958 million, and other U.S. federal tax attributes were \$111 million. If not utilized, a portion of the U.S. federal NOL carryforwards and other U.S. federal tax attributes will expire between 2026 and 2036 whereas others have an unlimited carryforward period. Similarly, certain non-U.S. NOL carryforwards will expire between 2026 and 2041 whereas others have an unlimited carryforward period. The state and local capital loss carryforwards will expire in 2026. The valuation allowance at December 31, 2024, was predominantly driven by certain non-U.S. deferred tax assets, including NOL carryforwards.



**Notes to consolidated financial statements**

## Unrecognized tax benefits

At December 31, 2024, 2023 and 2022, JPMorganChase's unrecognized tax benefits, excluding related interest expense and penalties, were \$6.2 billion, \$5.4 billion and \$5.0 billion, respectively, of which \$4.4 billion, \$3.9 billion and \$3.8 billion, respectively, if recognized, would reduce the annual effective tax rate. Included in the amount of unrecognized tax benefits are certain items that would not affect the effective tax rate if they were recognized in the Consolidated statements of income. These unrecognized items include the tax effect of certain temporary differences, the portion of gross state and local unrecognized tax benefits that would be offset by the benefit from associated U.S. federal income tax deductions, and the portion of gross non-U.S. unrecognized tax benefits that would have offsets in other jurisdictions. JPMorganChase evaluates the need for changes in unrecognized tax benefits based on its anticipated tax return filing positions as part of its U.S. federal and state and local tax returns. In addition, the Firm is presently under audit by a number of taxing authorities, most notably by the Internal Revenue Service, as summarized in the Tax examination status table below. The evaluation of unrecognized tax benefits as well as the potential for audit settlements make it reasonably possible that over the next 12 months the gross balance of unrecognized tax benefits may increase or decrease by as much as approximately \$2.4 billion. The change in the unrecognized tax benefit would result in a payment or income statement recognition.

The following table presents a reconciliation of the beginning and ending amount of unrecognized tax benefits.

(in millions)	2024	2023	2022
Balance at			
January 1,	\$5,401	\$5,043	\$4,636
Increases based on			
tax positions			

## Tax examination status

JPMorganChase is continually under examination by the Internal Revenue Service, by taxing authorities throughout the world, and by many state and local jurisdictions throughout the U.S. The following table summarizes the status of tax years that remain subject to income tax examination of JPMorganChase and its consolidated subsidiaries by significant jurisdictions as of December 31, 2024.

	Periods under examination	Status
JPMorganChase - 2011 - 2013	Field	
U.S.		examination of amended returns; certain matters at Appellate level
JPMorganChase - 2014 - 2020	Field	
U.S.		examination of original and amended returns; certain matters at Appellate level
JPMorganChase - 2015 - 2018	Field	
New York City		Examination
JPMorganChase - 2017 - 2022	Field	
U.K.		examination of certain select entities







## Note 26 – Restricted cash, other restricted assets and intercompany funds transfers

### Restricted cash and other restricted assets

Certain of the Firm's cash and other assets are restricted as to withdrawal or usage. These restrictions are imposed by various regulatory authorities based on the particular activities of the Firm's subsidiaries.

The business of JPMorgan Chase Bank, N.A. is subject to examination and regulation by the OCC. The Bank is a member of the U.S. Federal Reserve System, and its deposits in the U.S. are insured by the FDIC, subject to applicable limits.

The Firm is required to maintain cash reserves at certain non-US central banks.

The Firm is also subject to rules and regulations established by other U.S. and non U.S. regulators. As part of its compliance with the respective regulatory requirements, the Firm's broker-dealer activities are subject to certain restrictions on cash and other assets.

The following table presents the components of the Firm's restricted cash:

December 31, (in billions)	2024	2023
Segregated for the benefit of securities and cleared derivative customers	18.7	10.3
Cash reserves at non-U.S. central banks and held for other general purposes	8.8	9.3
<b>Total restricted cash<sup>(a)</sup></b>	<b>\$ 27.5</b>	<b>\$ 19.6</b>

(a) Comprises \$26.1 billion and \$18.2 billion in deposits with banks, and \$1.4 billion and \$1.4 billion in cash and due from banks on the Consolidated balance sheets as of December 31, 2024 and 2023, respectively.

Also, as of December 31, 2024 and 2023, the Firm had the following other restricted assets:

- Cash and securities pledged with clearing organizations for the benefit of customers of \$40.7 billion and \$40.5 billion, respectively.

### Intercompany funds transfers

Restrictions imposed by U.S. federal law prohibit JPMorgan Chase Bank, N.A., and its subsidiaries, from lending to JPMorgan Chase & Co. ("Parent Company") and certain of its affiliates unless the loans are secured in specified amounts. Such secured loans provided by any banking subsidiary to the Parent Company or to any particular affiliate, together with certain other transactions with such affiliate (collectively referred to as "covered transactions"), must be made on terms and conditions that are consistent with safe and sound banking practices. In addition, unless collateralized with cash or US Government debt obligations, covered transactions are generally limited to 10% of the banking subsidiary's total capital, as determined by the risk-based capital guidelines; the aggregate amount of covered transactions between any banking subsidiary and all of its affiliates is limited to 20% of the banking subsidiary's total capital.

The Parent Company's two principal subsidiaries are JPMorgan Chase Bank, N.A. and JPMorgan Chase Holdings LLC, an intermediate holding company (the "IHC"). The IHC generally holds the stock of JPMorganChase's subsidiaries other than JPMorgan Chase Bank, N.A. and its subsidiaries. The IHC also owns other assets and provides intercompany loans to the Parent Company. The Parent Company is obligated to contribute to the IHC substantially all the net proceeds received from securities issuances (including issuances of senior and subordinated debt securities and of preferred and common stock).

The principal sources of income and funding for the Parent Company are dividends from JPMorgan Chase Bank, N.A. and dividends and extensions of credit from the IHC. In addition to dividend restrictions set forth in statutes and regulations, the Federal Reserve, the OCC and the FDIC have authority under the Financial Institutions Supervisory Act to prohibit or to limit the payment of dividends by the banking organizations



## **Notes to consolidated financial statements**

### **Note 27 - Regulatory capital**

The Federal Reserve establishes capital requirements, including well-capitalized standards, for the Firm as a consolidated financial holding company. The OCC establishes similar minimum capital requirements and standards for the Firm's principal IDI subsidiary, JPMorgan Chase Bank, N.A.

The capital rules under Basel III establish minimum capital ratios and overall capital adequacy standards for large and internationally active U.S. bank holding companies and banks, including the Firm and JPMorgan Chase Bank, N.A. Under the rules currently in effect, two comprehensive approaches are prescribed for calculating RWA: a standardized approach ("Basel III Standardized"), and an advanced approach ("Basel III Advanced"). For each of these risk-based capital ratios, the capital adequacy of the Firm and JPMorgan Chase Bank, N.A. is evaluated against the lower of the Standardized or Advanced approaches compared to their respective regulatory capital ratio requirements.

The three components of regulatory capital under the Basel III rules and their primary drivers are as illustrated below:

25\_note27\_01 v2.jpg

Under the risk-based capital and leverage-based guidelines of the Federal Reserve, JPMorgan Chase & Co. is required to maintain minimum ratios for CET1 capital, Tier 1 capital, Total capital, Tier 1 leverage and the SLR. Failure to meet these minimum requirements could cause the Federal Reserve to take action. JPMorgan Chase Bank, N.A. is also subject to these capital requirements established by its primary regulators.

The following table presents the risk-based regulatory capital ratio requirements and well-capitalized ratios to which the Firm and JPMorgan Chase Bank, N.A. were subject as of December 31, 2024 and 2023.

Standardized capital ratio requirements		Advanced capital ratio requirements		Well- capitalized ratios	
BHC <sup>(a)</sup>		BHC <sup>(a)</sup>			
(b)	IDI <sup>(c)</sup>	(b)	IDI <sup>(c)</sup>	BHC <sup>(d)</sup>	IDI <sup>(e)</sup>

#### Risk-based capital ratios

CET1	capital	12.3 %	7.0 %	11.5 %	7.0 %	NA	6.5 %
Tier 1	capital	13.8	8.5	13.0	8.5	6.0 %	8.0
Total	capital	15.8	10.5	15.0	10.5	10.0	10.0

Note: The table above is as defined by the regulations issued by the Federal Reserve, OCC and FDIC and to which the Firm and JPMorgan Chase Bank, N.A. are subject.

- (a) Represents the regulatory capital ratio requirements applicable to the Firm. The CET1, Tier 1 and Total capital ratio requirements each include a respective minimum requirement plus a GSIB surcharge of 4.5% as calculated under Method 2; plus a 3.3% SCB for Basel III Standardized ratios and a fixed 2.5% capital conservation buffer for Basel III Advanced ratios. The countercyclical buffer is currently set to 0% by the federal banking agencies.
- (b) For the period ended December 31, 2023, the CET1, Tier 1, and Total capital ratio requirements under Basel III Standardized applicable to the Firm were 11.4%, 12.9%, and 14.9%, respectively; the Basel III Advanced CET1, Tier 1, and Total capital ratio requirements applicable to the Firm were 11.0%, 12.5%, and 14.5%, respectively.
- (c) Represents requirements for JPMorgan Chase Bank, N.A. The CET1, Tier 1 and Total capital ratio requirements include a fixed capital conservation buffer requirement of 2.5% that is applicable to JPMorgan Chase Bank, N.A. JPMorgan Chase Bank, N.A. is not subject to the GSIB surcharge.
- (d) Represents requirements for bank holding companies pursuant to regulations issued by the Federal Reserve.
- (e) Represents requirements for JPMorgan Chase Bank, N.A. pursuant to regulations issued



**CECL Regulatory Capital Transition**  
Beginning January 1, 2022, the \$2.9 billion CECL capital benefit, provided by the Federal Reserve in response to the COVID-19 pandemic, is being phased out at 25% per year over a three-year period. As of December 31, 2024 and 2023, the Firm's CET1 capital reflected the remaining benefit of \$720 million and \$1.4 billion, respectively, associated with the CECL capital transition provisions.

Similarly, as of January 1, 2024, the Firm has phased out 75% of the other CECL capital transition provisions which impacted Tier 2 capital, adjusted average assets, total leverage exposure and RWA, as applicable.

The following tables present risk-based capital metrics under both the Basel III Standardized and Basel III Advanced approaches and leverage-based capital metrics for JPMorgan Chase & Co. and JPMorgan Chase Bank, N.A. As of December 31, 2024 and 2023, JPMorgan Chase & Co. and JPMorgan Chase Bank, N.A. were well-capitalized and met all capital requirements to which each was subject.

	Basel III Standardized		Basel III Advanced	
	JPMorgan Chase & Co.	JPMorgan Chase Bank, N.A.	JPMorgan Chase & Co.	JPMorgan Chase Bank, N.A.
December 31, 2024 (in millions, except ratios)				
<b>Risk-based capital metrics:<sup>(a)</sup></b>				
CET1 capital	\$ 275,513	\$ 275,732	\$ 275,513	\$ 275,732
Tier 1 capital	294,881	275,737	294,881	275,737
Total capital	325,589	296,041	311,898 (b)	282,328 (b)
Risk-weighted assets	1,757,460	1,718,777	1,740,429 (b)	1,594,072 (b)
CET1 capital ratio	15.7 %	16.0 %	15.8 %	17.3 %
Tier 1 capital ratio	16.8	16.0	16.9	17.3
Total capital ratio	18.5	17.2	17.9	17.7



December 31, 2023 (in millions, except ratios)	Basel III Standardized		Basel III Advanced	
	JPMorgan		JPMorgan	
	JPMorgan Chase & Co.	Chase Bank, N.A.	JPMorgan Chase & Co.	Chase Bank, N.A.
<b>Risk-based capital metrics:</b> <sup>(a)</sup>				
CET1 capital	\$ 250,585	\$ 262,030	\$ 250,585	\$ 262,030
Tier 1 capital	277,306	262,032	277,306	262,032
Total capital	308,497	281,308	295,417 (b)	268,392 (b)
Risk-weighted assets	1,671,995	1,621,789	1,669,156 (b)	1,526,952 (b)
CET1 capital ratio	15.0 %	16.2 %	15.0 %	17.2 %
Tier 1 capital ratio	16.6	16.2	16.6	17.2
Total capital ratio	18.5	17.3	17.7	17.6

(a) The capital metrics reflect the CECL capital transition provisions.

(b) Includes the impacts of certain assets associated with First Republic to which the Standardized approach has been applied as permitted by the transition provisions in the U.S. capital rules.

Three months ended (in millions, except ratios)	December 31, 2024		December 31, 2023	
	JPMorgan		JPMorgan	
	JPMorgan Chase & Co.	Chase Bank, N.A.	JPMorgan Chase & Co.	Chase Bank, N.A.
<b>Leverage-based capital metrics:</b> <sup>(a)</sup>				
Adjusted average assets <sup>(b)</sup>	\$ 4,070,499	\$ 3,491,283	\$ 3,831,200	\$ 3,337,842
Tier 1 leverage ratio	7.2 %	7.9 %	7.2 %	7.9 %
Total leverage exposure	\$ 4,837,568	\$ 4,246,516	\$ 4,540,465	\$ 4,038,739
SLR	6.1 %	6.5 %	6.1 %	6.5 %

(a) The capital metrics reflect the CECL capital transition provisions.

(b) Adjusted average assets, for purposes of calculating the leverage ratios, includes quarterly average assets adjusted for on-balance sheet assets that are subject to deduction from Tier 1 capital, predominantly goodwill, inclusive of estimated equity method goodwill, and other intangible assets.

## **Notes to consolidated financial statements**

### **Note 28 - Off-balance sheet lending-related financial instruments, guarantees, and other commitments**

JPMorganChase provides lending-related financial instruments (e.g., commitments and guarantees) to address the financing needs of its customers and clients. The contractual amount of these financial instruments represents the maximum possible credit risk to the Firm should the customer or client draw upon the commitment or the Firm be required to fulfill its obligation under the guarantee, and should the customer or client subsequently fail to perform according to the terms of the contract. Most of these commitments and guarantees have historically been refinanced, extended, cancelled, or expired without being drawn or a default occurring. As a result, the total contractual amount of these instruments is not, in the Firm's view, representative of its expected future credit exposure or funding requirements.

To provide for expected credit losses in wholesale and certain consumer lending-related commitments, an allowance for credit losses on lending-related commitments is maintained. Refer to Note 13 for further information regarding the allowance for credit losses on lending-related commitments.

The following table summarizes the contractual amounts and carrying values of off-balance sheet lending-related financial instruments, guarantees and other commitments at December 31, 2024 and 2023. The amounts in the table below for credit card, home equity and certain scored business banking lending-related commitments represent the total available credit for these products. The Firm has not experienced, and does not anticipate, that all available lines of credit for these commitments will be utilized at the same time. The Firm can reduce or cancel these commitments, in accordance with the contract, or to the extent otherwise permitted by law, including when there has been a demonstrable decline in the creditworthiness of the borrower or significant decrease in the value of underlying property.





**Off-balance sheet lending-related financial instruments, guarantees and other commitments**

	Contractual amount						Carrying value <sup>(h)</sup>	
							(i)	
	2024					2023	2024	2023
By remaining maturity as of December 31, (in millions)	Expires in 1 year or less	Expires after 1 year through 3 years	Expires after 3 years through 5 years	Expires after 5 years	Total	Total		
<b>Lending-related</b>								
Consumer, excluding credit card:								
Residential Real Estate <sup>(a)</sup>	\$ 10,838	\$ 7,240	\$ 4,601	\$ 7,670	\$ 30,349	\$ 30,125	\$ 534	\$ 678
Auto and other	10,833	14	5	3,643	14,495	15,278	37	148
<b>Total consumer, excluding credit card</b>	<b>21,671</b>	<b>7,254</b>	<b>4,606</b>	<b>11,313</b>	<b>44,844</b>	<b>45,403</b>	<b>571</b>	<b>826</b>
Credit card <sup>(b)</sup>	1,001,311	—	—	—	1,001,311	915,658	—	—
<b>Total consumer<sup>(c)</sup></b>	<b>1,022,982</b>	<b>7,254</b>	<b>4,606</b>	<b>11,313</b>	<b>1,046,155</b>	<b>961,061</b>	<b>571</b>	<b>826</b>
Wholesale:								
Other unfunded commitments to extend credit <sup>(d)</sup>	101,500	199,878	172,066	24,993	498,437	503,526	2,608	2,797
Standby letters of credit and other financial guarantees <sup>(d)</sup>	15,825	8,506	3,780	565	28,676	28,872	473	479
Other letters of credit <sup>(d)</sup>	3,958	278	21	97	4,354	4,388	37	37
<b>Total wholesale<sup>(c)</sup></b>	<b>121,283</b>	<b>208,662</b>	<b>175,867</b>	<b>25,655</b>	<b>531,467</b>	<b>536,786</b>	<b>3,118</b>	<b>3,313</b>
<b>Total lending-related</b>	<b>\$1,144,265</b>	<b>\$215,916</b>	<b>\$180,473</b>	<b>\$36,968</b>	<b>\$1,577,622</b>	<b>\$1,497,847</b>	<b>\$3,689</b>	<b>\$4,139</b>
<b>Other guarantees and commitments</b>								
Securities lending indemnification agreements and guarantees <sup>(e)</sup>	\$ 310,046	\$ —	\$ —	\$ —	\$ 310,046	\$ 283,664	\$ —	\$ —
Derivatives qualifying as guarantees	902	343	9,890	38,493	49,628	54,562	113	89
Unsettled resale and securities borrowed agreements	115,939	—	—	—	115,939	95,106	2	—
Unsettled repurchase and securities loaned								

- (a) Includes certain commitments to purchase loans from correspondents.
- (b) Also includes commercial card lending-related commitments primarily in CIB.
- (c) Predominantly all consumer and wholesale lending-related commitments are in the U.S.
- (d) As of December 31, 2024 and 2023, reflected the contractual amount net of risk participations totaling \$85 million and \$88 million, respectively, for other unfunded commitments to extend credit; \$9.5 billion and \$8.2 billion, respectively, for standby letters of credit and other financial guarantees; and \$556 million and \$589 million, respectively, for other letters of credit. In regulatory filings with the Federal Reserve these commitments are shown gross of risk participations.
- (e) As of December 31, 2024 and 2023, collateral held by the Firm in support of securities lending indemnification agreements was \$328.7 billion and \$300.3 billion, respectively. Securities lending collateral primarily consists of cash, G7 government securities, and securities issued by U.S. GSEs and government agencies.
- (f) As of December 31, 2024 and 2023, includes guarantees to the Fixed Income Clearing Corporation under the sponsored member repo program and commitments and guarantees associated with the Firm's membership in certain clearing houses.
- (g) As of December 31, 2024 and 2023, primarily includes unfunded commitments to purchase secondary market loans, other equity investment commitments, and unfunded commitments related to certain tax-oriented equity investments, and reflects the impact of adopting updates to the Accounting for Investments in Tax Credit Structures guidance effective January 1, 2024.
- (h) For lending-related products, the carrying value includes the allowance for lending-related commitments and the guarantee liability; for derivative-related products, and lending-related commitments for which the fair value option was elected, the carrying value represents the fair value.
- (i) For lending-related commitments, the carrying value also includes fees and any purchase discounts or premiums that are deferred and recognized in accounts payable and other liabilities on the Consolidated balance sheets. Deferred amounts for revolving commitments and commitments not expected to fund, are amortized to lending- and deposit-related fees on a straight line basis over the commitment period. For all other commitments the deferred amounts remain deferred until the commitment funds or is sold.
- (j) As of December 31, 2024 and 2023, includes fair value adjustments associated with First Republic for residential real estate lending-related commitments totaling \$459 million and \$630 million, respectively; for auto and other lending-related commitments totaling \$37 million and \$148 million, respectively; and for other unfunded commitments to extend credit totaling \$699 million and \$1.1 billion, respectively. Refer to Note 34 for additional information.

**Notes to consolidated financial statements**



### **Other unfunded commitments to extend credit**

Other unfunded commitments to extend credit generally consist of commitments for working capital and general corporate purposes, extensions of credit to support commercial paper facilities and bond financings in the event that those obligations cannot be remarketed to new investors, as well as committed liquidity facilities to clearing organizations. The Firm also issues commitments under multipurpose facilities which could be drawn upon in several forms, including the issuance of a standby letter of credit.

### **Guarantees**

U.S. GAAP requires that a guarantor recognize, at the inception of a guarantee, a liability in an amount equal to the fair value of the obligation undertaken in issuing the guarantee. U.S. GAAP defines a guarantee as a contract that contingently requires the guarantor to pay the guaranteed party based upon: (a) changes in an underlying asset, liability or equity security of the guaranteed party; or (b) a third party's failure to perform under a specified agreement. The Firm considers the following off-balance sheet arrangements to be guarantees under U.S. GAAP: standby letters of credit and other financial guarantees, securities lending indemnifications, certain indemnification agreements included within third-party contractual arrangements, certain derivative contracts and the guarantees under the sponsored member repo program.

As required by U.S. GAAP, the Firm initially records guarantees at the inception date fair value of the non-contingent obligation assumed (e.g., the amount of consideration received or the net present value of the premium receivable). For these obligations, the Firm records this fair value amount in other liabilities with an offsetting entry recorded in cash (for premiums received), or other assets (for premiums receivable). Any premium

reduced as cash is received under the contract, and the fair value of the liability recorded at inception is amortized into income as lending and deposit-related fees over the life of the guarantee contract. The lending-related contingent obligation is recognized based on expected credit losses in addition to, and separate from, any non-contingent obligation.

Non-lending-related contingent obligations are recognized when the liability becomes probable and reasonably estimable. These obligations are not recognized if the estimated amount is less than the carrying amount of any non-contingent liability recognized at inception (adjusted for any amortization). Examples of non-lending-related contingent obligations include indemnifications provided in sales agreements, where a portion of the sale proceeds is allocated to the guarantee, which adjusts the gain or loss that would otherwise result from the transaction. For these indemnifications, the initial liability is amortized to income as the Firm's risk is reduced (i.e., over time or when the indemnification expires).

The contractual amount and carrying value of guarantees and indemnifications are included in the table on page 303.

For additional information on the guarantees, see below.

#### *Standby letters of credit and other financial guarantees*

Standby letters of credit and other financial guarantees are conditional lending commitments issued by the Firm to guarantee the performance of a client or customer to a third party under certain arrangements, such as commercial paper facilities, bond financings, acquisition financings, trade financings and similar transactions.

The following table summarizes the contractual amount and carrying value of standby letters of credit and other financial guarantees and other letters of credit arrangements as of December 31, 2024 and 2023.

**Standby letters of credit, other financial guarantees and other letters of credit**

December 31, (in millions)	2024		2023	
	Standby letters of credit and other financial guarantees	Other letters of credit	Standby letters of credit and other financial guarantees	Other letters of credit
Investment-grade <sup>(a)</sup>	\$ 20,443	\$ 3,380	\$ 19,694	\$ 3,552
Noninvestment-grade <sup>(a)</sup>	8,233	974	9,178	836
<b>Total contractual amount</b>	<b>\$ 28,676</b>	<b>\$ 4,354</b>	<b>\$ 28,872</b>	<b>\$ 4,388</b>
Allowance for lending-related commitments	\$ 94	\$ 37	\$ 110	\$ 37
Guarantee liability	379	—	369	—
<b>Total carrying value</b>	<b>\$ 473</b>	<b>\$ 37</b>	<b>\$ 479</b>	<b>\$ 37</b>
<b>Commitments with collateral</b>	<b>\$ 16,805</b>	<b>\$ 357</b>	<b>\$ 16,861</b>	<b>\$ 539</b>

(a) The ratings scale is based on the Firm's internal risk ratings. Refer to Note 12 for further information on internal risk ratings.



### *Securities lending indemnifications*

Through the Firm's securities lending program, counterparties' securities, via custodial and non-custodial arrangements, may be lent to third parties. As part of this program, the Firm provides an indemnification in the lending agreements which protects the lender against the failure of the borrower to return the lent securities. To minimize its liability under these indemnification agreements, the Firm obtains cash or other highly liquid collateral with a market value exceeding 100% of the value of the securities on loan from the borrower. Collateral is marked to market daily to help assure that collateralization is adequate. Additional collateral is called from the borrower if a shortfall exists, or collateral may be released to the borrower in the event of overcollateralization. If a borrower defaults, the Firm would use the collateral held to purchase replacement securities in the market or to credit the lending client or counterparty with the cash equivalent thereof.

The cash collateral held by the Firm may be invested on behalf of the client in indemnified resale agreements, whereby the Firm indemnifies the client against the loss of principal invested. To minimize its liability under these agreements, the Firm obtains collateral with a market value exceeding 100% of the principal invested.

### *Derivatives qualifying as guarantees*

The Firm transacts in certain derivative contracts that have the characteristics of a guarantee under U.S. GAAP. These contracts include written put options that require the Firm to purchase assets upon exercise by the option holder at a specified price by a specified date in the future. The Firm may enter into written put option contracts in order to meet client needs, or for other trading purposes. The terms of written put options are typically five years or less.

Derivatives deemed to be guarantees

The fair value of derivative guarantees reflects the probability, in the Firm's view, of whether the Firm will be required to perform under the contract. The Firm reduces exposures to these contracts by entering into offsetting transactions, or by entering into contracts that hedge the market risk related to the derivative guarantees.

The following table summarizes the derivatives qualifying as guarantees as of December 31, 2024 and 2023.

	December	December
(in millions)	31, 2024	31, 2023
<b>Notional amounts</b>		
Derivative guarantees	\$ 49,628	\$ 54,562
Stable value contracts with contractually limited exposure	32,939	32,488
Maximum exposure of stable value contracts with contractually limited exposure	1,740	1,652
<b>Fair value</b>		
Derivative payables	113	89

In addition to derivative contracts that meet the characteristics of a guarantee, the Firm is both a purchaser and seller of credit protection in the credit derivatives market. Refer to Note 5 for a further discussion of credit derivatives.

### **Unsettled securities financing agreements**

In the normal course of business, the Firm enters into resale and securities borrowed agreements. At settlement, these commitments result in the Firm advancing cash to and receiving securities collateral from the counterparty. The Firm also enters into repurchase and securities loaned agreements. At settlement, these commitments result in the Firm receiving cash from and providing securities collateral to the counterparty. Such agreements settle at a future date. These agreements generally do not meet the definition of a derivative, and therefore, are not recorded on the Consolidated



**Notes to consolidated financial statements**

#### *Private label securitizations*

The liability related to repurchase demands associated with private label securitizations is separately evaluated by the Firm in establishing its litigation reserves.

Refer to Note 30 for additional information regarding litigation.

#### *Loans sold with recourse*

The Firm provides servicing for mortgages and certain commercial lending products on both a recourse and nonrecourse basis. In nonrecourse servicing, the principal credit risk to the Firm is the cost of temporary servicing advances of funds (i.e., normal servicing advances). In recourse servicing, the servicer agrees to share credit risk with the owner of the mortgage loans, such as Fannie Mae or Freddie Mac or a private investor, insurer or guarantor. Losses on recourse servicing predominantly occur when foreclosure sales proceeds of the property underlying a defaulted loan are less than the sum of the outstanding principal balance, plus accrued interest on the loan and the cost of holding and disposing of the underlying property. The Firm's securitizations are predominantly nonrecourse, thereby effectively transferring the risk of future credit losses to the purchaser of the mortgage-backed securities issued by the trust. The unpaid principal balance of loans sold with recourse as well as the carrying value of the related liability that the Firm has recorded in accounts payable and other liabilities on the Consolidated balance sheets, which is representative of the Firm's view of the likelihood it will have to perform under its recourse obligations, are disclosed in the table on page 303.

#### **Other off-balance sheet arrangements**

##### *Indemnification agreements – general*

In connection with issuing securities to investors outside the U.S., the Firm may agree to pay additional amounts to the holders of the securities in the event that, due to a change in tax law, certain types of withholding taxes are imposed on

be made against the Firm that have not yet occurred. However, based on historical experience, management expects the risk of loss to be remote.

#### *Merchant charge-backs*

Under the rules of payment networks, in its role as a merchant acquirer, the Firm's Merchant Services business in CIB Payments, retains a contingent liability for disputed processed credit and debit card transactions that result in a charge-back to the merchant. If a dispute is resolved in the cardholder's favor, the Firm will (through the cardholder's issuing bank) credit or refund the amount to the cardholder and will charge back the transaction to the merchant. If the Firm is unable to collect the amount from the merchant, the Firm will bear the loss for the amount credited or refunded to the cardholder. The Firm mitigates this risk by withholding future settlements, retaining cash reserve accounts or obtaining other collateral. In addition, the Firm recognizes a valuation allowance that covers the payment or performance risk related to charge-backs.

#### *Clearing Services – Client Credit Risk*

The Firm provides clearing services for clients by entering into securities purchases and sales and derivative contracts with CCPs, including ETDs such as futures and options, as well as OTC-cleared derivative contracts. As a clearing member, the Firm stands behind the performance of its clients, collects cash and securities collateral (margin) as well as any settlement amounts due from or to clients, and remits them to the relevant CCP or client in whole or part. There are two types of margin: variation margin is posted on a daily basis based on the value of clients' derivative contracts and initial margin is posted at inception of a derivative contract, generally on the basis of the potential changes in the variation margin requirement for the contract.

As a clearing member, the Firm is







The Firm reflects its exposure to nonperformance risk of the client through the recognition of margin receivables from clients and margin payables to CCPs; the clients' underlying securities or derivative contracts are not reflected in the Firm's Consolidated Financial Statements.

It is difficult to estimate the Firm's maximum possible exposure through its role as a clearing member, as this would require an assessment of transactions that clients may execute in the future. However, based upon historical experience, and the credit risk mitigants available to the Firm, management believes it is unlikely that the Firm will have to make any material payments under these arrangements and the risk of loss is expected to be remote.

Refer to Note 5 for information on the derivatives that the Firm executes for its own account and records in its Consolidated Financial Statements.

#### *Exchange & Clearing House Memberships*

The Firm is a member of several securities and derivative exchanges and clearing houses, both in the U.S. and other countries, and it provides clearing services to its clients. Membership in some of these organizations requires the Firm to pay a pro rata share of the losses incurred by the organization as a result of the default of another member. Such obligations vary with different organizations. These obligations may be limited to the amount (or a multiple of the amount) of the Firm's contribution to the guarantee fund maintained by a clearing house or exchange as part of the resources available to cover any losses in the event of a member default. Alternatively, these obligations may also include a pro rata share of the residual losses after applying the guarantee fund. Additionally, certain clearing houses require the Firm as a member to pay a pro rata share of losses that may result from the clearing house's investment of guarantee fund

#### *Sponsored member repo program*

The Firm acts as a sponsoring member to clear eligible overnight and term resale and repurchase agreements through the Government Securities Division of the Fixed Income Clearing Corporation ("FICC") on behalf of clients that become sponsored members under the FICC's rules. The Firm also guarantees to the FICC the prompt and full payment and performance of its sponsored member clients' respective obligations under the FICC's rules. The Firm minimizes its liability under these guarantees by obtaining a security interest in the cash or high-quality securities collateral that the clients place with the clearing house; therefore, the Firm expects the risk of loss to be remote. The Firm's maximum possible exposure, without taking into consideration the associated collateral, is included in the Exchange & clearing house guarantees and commitments line on page 303. Refer to Note 11 for additional information on credit risk mitigation practices on resale agreements and the types of collateral pledged under repurchase agreements.

#### *Guarantees of subsidiaries*

In the normal course of business, the Parent Company may provide counterparties with guarantees of certain of the trading and other obligations of its subsidiaries on a contract-by-contract basis, as negotiated with the Firm's counterparties. The obligations of the subsidiaries are included on the Firm's Consolidated balance sheets or are reflected as off-balance sheet commitments; therefore, the Parent Company has not recognized a separate liability for these guarantees. The Firm believes that the occurrence of any event that would trigger payments by the Parent Company under these guarantees is remote.

The Parent Company has guaranteed certain long-term debt and structured notes of its subsidiaries, including JPMorgan Chase Financial Company LLC ("JPMFC"), a 100%-owned finance subsidiary. All securities issued by JPMFC are fully and unconditionally



## **Notes to consolidated financial statements**

### **Note 29 - Pledged assets and collateral**

### Pledged assets

The Firm pledges financial assets that it owns to maintain potential borrowing capacity at discount windows with Federal Reserve banks, various other central banks and FHLBs. Additionally, the Firm pledges assets for other purposes, including to collateralize repurchase and other securities financing agreements, to cover short sales and to collateralize derivative contracts and deposits. Certain of these pledged assets may be sold or repledged or otherwise used by the secured parties and are parenthetically identified on the Consolidated balance sheets as assets pledged.

The following table presents the carrying value of the Firm's pledged assets.

December 31, (in billions)	2024	2023
Assets that may be sold or repledged or otherwise used by secured parties	\$ 152.5	\$ 145.0
Assets that may not be sold or repledged or otherwise used by secured parties	297.9	244.2
Assets pledged at Federal Reserve banks and FHLBs	724.0	675.6
<b>Total pledged assets</b>	<b>\$1,174.4</b>	<b>\$1,064.8</b>

Total pledged assets do not include assets of consolidated VIEs; these assets are used to settle the liabilities of those entities. Refer to Note 14 for additional information on assets and liabilities of consolidated VIEs. Refer to Note 11 for additional information on the Firm's securities financing activities. Refer to Note 20 for additional information on the Firm's long-term debt. The significant components of the Firm's pledged assets were as follows.

December 31, (in billions)	2024	2023
Investment securities	\$ 89.6	\$ 108.6
Loans	740.9	681.7
Trading assets and other	343.9	274.5

### Collateral

The Firm accepts financial assets as collateral that it is permitted to sell or repledge, deliver or otherwise use. This collateral is generally obtained under resale and other securities financing agreements, prime brokerage-related held-for-investment customer receivables and derivative contracts. Collateral is generally used under repurchase and other securities financing agreements, to cover short sales, and to collateralize derivative contracts and deposits.

The following table presents the fair value of collateral accepted.

December 31, (in billions)	2024	2023
Collateral permitted to be sold or repledged, delivered, or otherwise used	\$1,544.0	\$1,303.9
Collateral sold, repledged, delivered or otherwise used	1,210.7	982.8



**Note 30 - Litigation**  
**Contingencies**

As of December 31, 2024, the Firm and its subsidiaries and affiliates are defendants or respondents in numerous evolving legal proceedings, including private proceedings, public proceedings, government investigations, regulatory enforcement matters, and the matters described below. The litigations range from individual actions involving a single plaintiff to class action lawsuits with potentially millions of class members. Investigations and regulatory enforcement matters involve both formal and informal proceedings, by both governmental agencies and self-regulatory organizations. These legal proceedings are at varying stages of adjudication, arbitration or investigation, and involve each of the Firm's lines of business and several geographies and a wide variety of claims (including common law tort and contract claims and statutory antitrust, securities and consumer protection claims), some of which present novel legal theories.

The Firm believes the estimate of the aggregate range of reasonably possible losses, in excess of reserves established, for its legal proceedings is from \$0 to approximately \$1.4 billion at December 31, 2024. This estimated aggregate range of reasonably possible losses was based upon information available as of that date for those proceedings in which the Firm believes that an estimate of reasonably possible loss can be made. For certain matters, the Firm does not believe that such an estimate can be made, as of that date. The Firm's estimate of the aggregate range of reasonably possible losses involves significant judgment, given:

- the number, variety and varying stages of the proceedings, including the fact that many are in preliminary stages,
- the existence in many such proceedings of multiple defendants, including the Firm, whose share of liability (if any) has yet to be determined,
- the numerous yet-unresolved issues in many of the proceedings, including issues regarding class certification

*1MDB Litigation.* J.P. Morgan (Suisse) SA was named as a defendant in a civil litigation filed in May 2021 in Malaysia by 1Malaysia Development Berhad ("1MDB"), a Malaysian state-owned and controlled investment fund. The claim alleges "dishonest assistance" against J.P. Morgan (Suisse) SA in relation to payments of \$300 million and \$500 million, from 2009 and 2010, respectively, received from 1MDB and paid into an account at J.P. Morgan (Suisse) SA held by 1MDB PetroSaudi Limited, a joint venture company between 1MDB and PetroSaudi Holdings (Cayman) Limited. In March 2024, the Court upheld the Firm's challenge to the validity of service and the Malaysian Court's jurisdiction to hear the claim. That decision has been appealed by 1MDB. In August 2023, the Court denied an application by 1MDB to discontinue its claim with permission to re-file a new claim in the future. That decision was appealed by both 1MDB and the Firm, and an appeals court is scheduled to hear both appeals in November 2025. In its appeal, the Firm seeks to prevent any claim from continuing.

In addition, in November 2023, the Federal Office of the Attorney General (OAG) in Switzerland notified J.P. Morgan (Suisse) SA that it is conducting an investigation into possible criminal liability in connection with transactions arising from J.P. Morgan (Suisse) SA's relationship with the 1MDB PetroSaudi joint venture and its related persons for the period September 2009 through August 2015. The OAG investigation is ongoing.

*Amrapali.* India's Enforcement Directorate ("ED") is investigating J.P. Morgan India Private Limited in connection with investments made in 2010 and 2012 by two offshore funds formerly managed by JPMorganChase entities into residential housing projects developed by the Amrapali Group ("Amrapali") relating to delays in delivering or failure to deliver residential units. In August 2021, the ED issued an order fining J.P. Morgan India Private Limited approximately \$31.5 million, and the Firm is





**Notes to consolidated financial statements**

affiliates to continue to rely on the Qualified Professional Asset Manager exemption under the Employee Retirement Income Security Act ("ERISA") through the ten-year disqualification period following the antitrust plea. The only remaining FX-related governmental inquiry is a South Africa Competition Commission matter which is currently pending before the South Africa Competition Tribunal.

With respect to civil litigation matters, some FX-related individual and putative class actions filed outside the U.S., including in the U.K., Israel, the Netherlands, Brazil and Australia, remain. In July 2023, the U.K. Court of Appeal overturned the Competition Appeal Tribunal's earlier denial of a request for class certification on an opt-out basis. The defendants have appealed this decision to the U.K. Supreme Court. In Israel, a settlement in principle has been reached on the putative class action, which remains subject to court approval.

*Interchange Litigation.* Groups of merchants and retail associations filed a series of class action complaints alleging that Visa and Mastercard, as well as certain banks, conspired to set the price of credit and debit card interchange fees and enacted related rules in violation of antitrust laws.

In September 2018, the parties settled the class action seeking monetary relief, with the defendants collectively contributing approximately \$6.2 billion. The settlement has been approved by the United States District Court for the Eastern District of New York and affirmed on appeal. Based on the percentage of merchants that opted out of the settlement, \$700 million has been returned to the defendants from the settlement escrow. A separate class action seeking injunctive relief continues, and in September 2021, the District Court granted plaintiffs' motion for class certification in part, and denied the motion in part. In June 2024, the District Court denied preliminary approval of a

Rate ("EURIBOR"). The Swiss Competition Commission's investigation relating to EURIBOR, to which the Firm and one other bank remain subject, continues. The Firm appealed a December 2016 decision by the European Commission against the Firm and other banks finding an infringement of European antitrust rules relating to EURIBOR. In December 2023, the European General Court annulled the fine imposed by the European Commission, but exercised its discretion to re-impose a fine in an identical amount. In March 2024, the Firm filed an appeal of this decision with the Court of Justice of the European Union.

In addition, the Firm has been named as a defendant along with other banks in various individual and putative class actions related to benchmark rates, including U.S. dollar LIBOR. In actions related to U.S. dollar LIBOR during the period that it was administered by the BBA, the United States District Court for the Southern District of New York granted class certification of antitrust claims related to bonds and interest rate swaps sold directly by the defendants, including the Firm. The Firm has obtained dismissal of certain actions and resolved certain other actions, and as to all remaining actions has moved for summary judgment. In addition, a lawsuit filed by a group of individual plaintiffs asserting antitrust claims, alleging that the Firm and other defendants were engaged in an unlawful agreement to set U.S. dollar LIBOR and conspired to monopolize the market for LIBOR-based consumer loans and credit cards was dismissed in October 2023 and affirmed on appeal by the United States Court of Appeals for the Ninth Circuit in December 2024. The Firm has resolved all non-U.S. dollar LIBOR actions.

*Russian Litigation.* The Firm is obligated to comply with international sanctions laws, which mandate the blocking of certain assets. These laws apply when assets associated with individuals, companies, products or services are within the scope of the sanctions. The Firm has faced actual





certain underlying claims against the Firm. The Firm has challenged claims being pursued in the Russian courts and related freeze orders in other jurisdictions provided for by the parties' contractual forum selections. If further claims are enforced despite the actions taken by the Firm to challenge the claims and orders and to seek the proper application of law, the Firm's assets in Russia could be seized in full, and certain client assets could also be seized, or the Firm could be prevented from complying with its obligations.

*SEC Inquiries.* In October 2024, the Firm entered into settlements with the SEC to resolve inquiries related to, among other things, conflict disclosures concerning the selection of portfolio managers and the timing of the Firm's liquidation of shares distributed in-kind to certain investment vehicles that invest in third-party managed private funds and certain other matters. The resolutions required the Firm to pay a combined \$151 million in civil penalties and voluntary payments to customers. The Firm continues to cooperate in connection with SEC inquiries concerning the aggregation of accounts for fee billing and various other matters.

*Shareholder Litigation.* Several shareholder putative class actions, as well as shareholder derivative actions purporting to act on behalf of the Firm, have been filed against the Firm, its Board of Directors and certain of its current and former officers.

Certain of these shareholder suits relate to historical trading practices by former employees in the precious metals and U.S. treasuries markets and related conduct which were the subject of the Firm's resolutions with the DOJ, CFTC and SEC in September 2020, and fiduciary activities that were separately the subject of a resolution between JPMorgan Chase Bank, N.A. and the OCC in November 2020. One of these shareholder derivative suits was filed in the Supreme Court of the State of New York in May 2022, asserting breach of fiduciary duty and unjust

\* \* \*

In addition to the various legal proceedings discussed above, JPMorganChase and its subsidiaries are named as defendants or are otherwise involved in a substantial number of other legal proceedings. The Firm believes it has meritorious defenses to the claims asserted against it in its currently outstanding legal proceedings and it intends to defend itself vigorously. Additional legal proceedings may be initiated from time to time in the future.

The Firm has established reserves for several hundred of its currently outstanding legal proceedings. In accordance with the provisions of U.S. GAAP for contingencies, the Firm accrues for a litigation-related liability when it is probable that such a liability has been incurred and the amount of the loss can be reasonably estimated. The Firm evaluates its outstanding legal proceedings each quarter to assess its litigation reserves, and makes adjustments in such reserves, upward or downward, as appropriate, based on management's best judgment after consultation with counsel. The Firm's legal expense was \$740 million, \$1.4 billion and \$266 million for the years ended December 31, 2024, 2023 and 2022, respectively. There is no assurance that the Firm's litigation reserves will not need to be adjusted in the future.

In view of the inherent difficulty of predicting the outcome of legal proceedings, particularly where the claimants seek very large or indeterminate damages, or where the matters present novel legal theories, involve a large number of parties or are in early stages of discovery, the Firm cannot state with confidence what will be the eventual outcomes of the currently pending matters, the timing of their ultimate resolution or the eventual losses, fines, penalties or consequences related to those matters. JPMorganChase believes, based upon its current knowledge and after consultation with counsel, consideration of the material legal proceedings described above and after



## Notes to consolidated financial statements

### Note 31 - International operations

The following table presents income statement and balance sheet-related information for JPMorganChase by major international geographic area. The Firm defines international activities for purposes of this footnote presentation as business transactions that involve clients residing outside of the U.S., and the information presented below is based predominantly on the domicile of the client, the location from which the client relationship is managed, booking location or the location of the trading desk. However, many of the Firm's U.S. operations serve international businesses.

As the Firm's operations are highly integrated, estimates and subjective assumptions have been made to apportion revenue and expense between U.S. and international operations. These estimates and assumptions are consistent with the allocations used for the Firm's segment reporting as set forth in Note 32.

The Firm's long-lived assets for the periods presented are not considered by management to be significant in relation to total assets. The majority of the Firm's long-lived assets are located in the U.S.



As of or for the year ended December 31, (in millions)	Revenue <sup>(b)</sup>	Expense <sup>(c)</sup>	Income before income tax expense	Net income	Total assets
<b>2024</b>					
Europe/Middle East/Africa	\$ 22,353	\$ 12,843	\$ 9,510	\$ 6,713	\$ 552,407 <sup>(d)</sup>
Asia-Pacific	11,995	6,922	5,073	3,615	296,430
Latin America/Caribbean	3,885	1,895	1,990	1,512	73,631
<b>Total international</b>	<b>38,233</b>	<b>21,660</b>	<b>16,573</b>	<b>11,840</b>	<b>922,468</b>
North America <sup>(a)</sup>	139,323	80,815	58,508	46,631	3,080,346
<b>Total</b>	<b>\$ 177,556</b>	<b>\$ 102,475</b>	<b>\$ 75,081</b>	<b>\$ 58,471</b>	<b>\$4,002,814</b>
<b>2023</b>					
Europe/Middle East/Africa	\$ 20,974	\$ 11,947	\$ 9,027	\$ 6,402	\$ 529,335 <sup>(d)</sup>
Asia-Pacific	10,605	6,550	4,055	2,709	251,588
Latin America/Caribbean	3,294	1,971	1,323	994	83,003
<b>Total international</b>	<b>34,873</b>	<b>20,468</b>	<b>14,405</b>	<b>10,105</b>	<b>863,926</b>
North America <sup>(a)</sup>	123,231	76,024	47,207	39,447	3,011,467
<b>Total</b>	<b>\$ 158,104</b>	<b>\$ 96,492</b>	<b>\$ 61,612</b>	<b>\$ 49,552</b>	<b>\$3,875,393</b>
<b>2022</b>					
Europe/Middle East/Africa	\$ 18,765	\$ 11,754	\$ 7,011	\$ 5,158	\$ 558,430 <sup>(d)</sup>
Asia-Pacific	10,025	6,763	3,262	2,119	281,479
Latin America/Caribbean	3,178	1,697	1,481	1,156	78,673
<b>Total international</b>	<b>31,968</b>	<b>20,214</b>	<b>11,754</b>	<b>8,433</b>	<b>918,582</b>
North America <sup>(a)</sup>	96,727	62,315	34,412	29,243	2,747,161
<b>Total</b>	<b>\$ 128,695</b>	<b>\$ 82,529</b>	<b>\$ 46,166</b>	<b>\$ 37,676</b>	<b>\$3,665,743</b>

(a) Substantially reflects the U.S.

(b) Revenue is composed of net interest income and noninterest revenue.

(c) Expense is composed of noninterest expense and the provision for credit losses.

(d) Total assets for the U.K. were approximately \$369 billion, \$352 billion and \$357 billion at December 31, 2024, 2023 and 2022, respectively.

**Note 32 - Business segments & Corporate**

**Business segment reorganization:**

Effective in the second quarter of 2024, the Firm reorganized its reportable business segments by combining the former Corporate & Investment Bank and Commercial Banking business segments to form one reportable segment, the Commercial & Investment Bank. As a result of the reorganization, the Firm has three reportable business segments – Consumer & Community Banking, Commercial & Investment Bank, and Asset & Wealth Management – with the remaining activities in Corporate.

**Adoption of accounting standard – Segment Reporting – Improvements to Reportable Segment Disclosures:** This guidance was adopted retrospectively for the Firm’s annual Consolidated Financial Statements for the year ended December 31, 2024. The adoption of this guidance requires additional reportable segment disclosures, primarily relating to significant segment expenses and the chief operating decision maker (“CODM”). Adoption of this guidance did not result in changes to the identification of the Firm’s reportable business segments, or of its CODM.

The Firm is managed on an LOB basis. The business segments are determined based on the products and services provided, or the type of customer served, and they reflect the manner in which financial information is evaluated by the Firm’s Operating Committee, whose members act collectively as the Firm’s CODM. Segment results are presented on a managed basis. Refer to Segment & Corporate results in this footnote for a further discussion of JPMorganChase’s reportable business segments and Corporate.

The following is a description of each of the Firm’s reportable business segments, and the products and services that they provide to their respective client bases, as well as a description of Corporate activities.

**Consumer & Community Banking**

Consumer & Community Banking offers products and services to consumers

**Commercial & Investment Bank**

The Commercial & Investment Bank is comprised of the Banking & Payments and Markets & Securities Services businesses. These businesses offer investment banking, lending, payments, market-making, financing, custody and securities products and services to a global base of corporate and institutional clients. Banking & Payments offers products and services in all major capital markets, including advising on corporate strategy and structure, capital-raising in equity and debt markets, and loan origination and syndication. Banking & Payments also provides services that enable clients to manage payments globally across liquidity and account solutions, commerce solutions, clearing, trade, and working capital. Markets & Securities Services includes Markets, which is a global market-maker across products, including cash and derivative instruments, and also offers sophisticated risk management solutions, lending, prime brokerage, clearing and research. Markets & Securities Services also includes Securities Services, a leading global custodian that provides custody, fund services, liquidity and trading services, and data solutions products.

**Asset & Wealth Management**

Asset & Wealth Management, with client assets of \$5.9 trillion, is a global leader in investment and wealth management.

*Asset Management*

Offers multi-asset investment management solutions across equities, fixed income, alternatives and money market funds to institutional and retail investors providing for a broad range of clients’ investment needs.

*Global Private Bank*

Provides retirement products and services, brokerage, custody, estate planning, lending, deposits and investment management to high net worth clients.

The majority of AWM’s client assets are in actively managed portfolios.

**Corporate**



**Notes to consolidated financial statements**

### **Description of business segment reporting methodology**

Results of the reportable business segments are intended to present each segment as if it were a stand-alone business. The management reporting process that derives business segment results includes the allocation of certain income and expense items. The Firm periodically assesses the assumptions, methodologies and reporting classifications used for segment reporting, and therefore further refinements may be implemented in future periods. The Firm also assesses the level of capital required for each LOB on at least an annual basis. The Firm's LOBs also provide various business metrics which are utilized by the Firm and its investors and analysts in assessing performance.

#### *Revenue sharing*

When business segments or businesses within each segment join efforts to sell products and services to the Firm's clients and customers, the participating businesses may agree to share revenue from those transactions. Revenue is generally recognized in the segment responsible for the related product or service, with allocations to the other segments or businesses involved in the transaction. The segment and business results reflect these revenue-sharing agreements.

#### *Expense allocation*

Where business segments use services provided by Corporate support units, or another business segment, the costs of those services are allocated to the respective business segments. The expense is generally allocated based on the actual cost and use of services provided. In contrast, certain costs and investments related to Corporate that are not currently utilized by any LOB are not allocated to the business segments and are retained in Corporate. Expense retained in Corporate generally includes costs that would not be incurred if the segments were stand-alone businesses, and other items not solely aligned with a particular reportable business

Periodically, the methodology and assumptions utilized in the FTP process are adjusted to reflect economic conditions and other factors, which may impact the allocation of net interest income to the segments. Effective in the fourth quarter of 2024, the Firm updated its FTP with respect to consumer deposits, which resulted in an increase in the funding benefit reflected within CCB's net interest income that is fully offset in Corporate, with no effect on the Firm's net interest income.

#### *Foreign exchange risk*

Foreign exchange risk is transferred from the LOBs and Other Corporate to Treasury and CIO for certain revenues and expenses. Treasury and CIO manages these risks centrally and reports the impact of foreign exchange rate movements related to the transferred risk in its results.

#### *Debt expense and preferred stock dividend allocation*

As part of the FTP process, almost all of the cost of the credit spread component of outstanding unsecured long-term debt and preferred stock dividends is allocated to the reportable business segments, while the balance of the cost is retained in Corporate. The methodology to allocate the cost of unsecured long-term debt and preferred stock dividends to the business segments is aligned with the relevant regulatory capital requirements and funding needs of the LOBs, as applicable. The allocated cost of unsecured long-term debt is included in a business segment's net interest income, and net income is reduced by preferred stock dividends, to arrive at a business segment's net income applicable to common equity.

#### *Capital allocation*

Each LOB and Corporate is allocated capital by taking into consideration a variety of factors including capital levels of similarly rated peers and applicable regulatory capital requirements. ROE is measured and internal targets for expected returns are established as key measures of an LOB's performance.



### Segment & Corporate results

The following table provides a summary of results for the Firm's reportable business segments and Corporate activities as of or for the years ended December 31, 2024, 2023 and 2022, on a managed basis. The Firm's definition of managed basis starts with the reported U.S. GAAP results and includes certain reclassifications to present total net revenue for the Firm as a whole (and for each of the reportable business segments and Corporate) on an FTE basis. Accordingly, revenue from investments that receive tax credits and tax-exempt securities is presented in the managed results on a basis comparable to taxable investments and securities. This allows management to assess the comparability of revenue from year-to-year arising from both taxable and tax-exempt

sources. The corresponding income tax impact related to tax-exempt items is recorded within income tax expense/ (benefit). These adjustments have no impact on net income as reported by the Firm as a whole or by the each of the LOBs and Corporate.

The Operating Committee reviews segment results including net interest income, noninterest revenue, noninterest expense, provision for credit losses and net income on a managed basis. The Operating Committee uses these measures to evaluate segment performance and to make key operating decisions, including resource and capital allocations.

### Segment & Corporate results and reconciliation<sup>(a)</sup>



(Table continued on next page)

As of or for the year ended December 31, (in millions, except ratios)	Consumer & Community Banking			Commercial & Investment Bank			Asset & Wealth Management		
	2024	2023	2022	2024	2023	2022	2024	2023	2022
Noninterest revenue	\$ 16,649	\$ 15,118	\$ 14,886 <sup>(e)</sup>	\$ 48,253	\$ 43,809	\$ 39,538 <sup>(b)</sup>	\$ 15,023	\$ 13,560	\$ 12,507
Net interest income	54,858	55,030	39,928	21,861	20,544	20,097	6,555	6,267	5,241
<b>Total net revenue</b>	<b>71,507</b>	<b>70,148</b>	<b>54,814</b>	<b>70,114</b>	<b>64,353</b>	<b>59,635</b>	<b>21,578</b>	<b>19,827</b>	<b>17,748</b>
Provision for credit losses	9,974	6,899	3,813	762	2,091	2,426	(68)	159	128
Compensation expense <sup>(b)</sup>	17,045	15,171	13,092	18,191	17,105	16,214	7,984	7,115	6,336
Noncompensation expense <sup>(c)(d)</sup>	20,991	19,648	18,116	17,162	16,867	15,855	6,430	5,665	5,493
<b>Total noninterest expense</b>	<b>38,036</b>	<b>34,819</b>	<b>31,208 <sup>(e)</sup></b>	<b>35,353</b>	<b>33,972</b>	<b>32,069 <sup>(b)</sup></b>	<b>14,414</b>	<b>12,780</b>	<b>11,829</b>
<b>Income/(loss) before income tax expense/(benefit)</b>	<b>23,497</b>	<b>28,430</b>	<b>19,793</b>	<b>33,999</b>	<b>28,290</b>	<b>25,140</b>	<b>7,232</b>	<b>6,888</b>	<b>5,791</b>
Income tax expense/(benefit)	5,894	7,198	4,877 <sup>(e)</sup>	9,153	8,018	6,002 <sup>(b)</sup>	1,811	1,661	1,426
<b>Net income/(loss)</b>	<b>\$ 17,603</b>	<b>\$ 21,232</b>	<b>\$ 14,916</b>	<b>\$ 24,846</b>	<b>\$ 20,272</b>	<b>\$ 19,138</b>	<b>\$ 5,421</b>	<b>\$ 5,227</b>	<b>\$ 4,365</b>
Average equity	\$ 54,500	\$ 54,349	\$ 50,000	\$ 132,000	\$ 137,507	\$ 128,000	\$ 15,500	\$ 16,671	\$ 17,000
Total assets	650,268	642,951	514,085	1,773,194	1,638,493	1,591,402	255,385	245,512	232,037
Return on equity	32 %	38 %	29 %	18 %	14 %	14 %	34 %	31 %	25 %
Overhead ratio	53	50	57	50	53	54	67	64	67

## Notes to consolidated financial statements

(Table continued from previous page)

As of or for the year ended December 31, (in millions, except ratios)	Corporate			Reconciling Items <sup>(a)</sup>			Total		
	2024	2023	2022	2024	2023	2022	2024	2023	2022
Noninterest revenue	\$ 7,608 <sup>(f)</sup>	\$ 132	\$ (1,798)	\$ (2,560)	\$ (3,782)	\$ (3,148)	\$ 84,973 <sup>(f)</sup>	\$ 68,837	\$ 61,985
Net interest income	9,786	7,906	1,878	(477)	(480)	(434)	92,583	89,267	66,710
<b>Total net revenue</b>	<b>17,394</b>	<b>8,038</b>	<b>80</b>	<b>(3,037)</b>	<b>(4,262)</b>	<b>(3,582)</b>	<b>177,556</b>	<b>158,104</b>	<b>128,695</b>
Provision for credit losses	10	171	22	—	—	—	10,678	9,320	6,389
Total noninterest expense <sup>(d)</sup>	3,994 <sup>(g)</sup>	5,601	1,034	—	—	—	91,797 <sup>(g)</sup>	87,172	76,140
<b>Income/(loss) before income tax expense/(benefit)</b>	<b>13,390</b>	<b>2,266</b>	<b>(976)</b>	<b>(3,037)</b>	<b>(4,262)</b>	<b>(3,582)</b>	<b>75,081</b>	<b>61,612</b>	<b>46,166</b>
Income tax expense/(benefit)	2,789	(555)	(233)	(3,037)	(4,262)	(3,582)	16,610	12,060	8,490
<b>Net income/(loss)</b>	<b>\$ 10,601</b>	<b>\$ 2,821</b>	<b>\$ (743)</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 58,471</b>	<b>\$ 49,552</b>	<b>\$ 37,676</b>
Average equity	\$ 110,370	\$ 73,529	\$ 58,068	\$ —	\$ —	\$ —	\$ 312,370	\$ 282,056	\$ 253,068
Total assets	1,323,967	1,348,437	1,328,219	NA	NA	NA	4,002,814	3,875,393	3,665,743
Return on equity	NM	NM	NM	NM	NM	NM	18 %	17 %	14 %
Overhead ratio	NM	NM	NM	NM	NM	NM	52	55	59

(a) Segment results on a managed basis reflect revenue on a FTE basis with the corresponding income tax impact recorded within income tax expense/(benefit). These adjustments are eliminated in reconciling items to arrive at the Firm's reported U.S. GAAP results. In addition, effective January 1, 2024, the Firm adopted updates to the Accounting for Investments in Tax Credit Structures guidance, under the modified retrospective method. Refer to Notes 1, 6, 14 and 25 for additional information.

(b) Excludes expense related to services provided by Corporate support units, which is allocated from Corporate to each respective reportable business segment, as applicable, through noncompensation expense.

(c) Reflects occupancy; technology, communications and equipment; professional and outside services; marketing; and other expense. Refer to Note 6 for additional information on other expense.

(d) Certain services are provided by Corporate and used by each of the reportable business segments. The costs of these services, including compensation-related costs, are allocated from

Corporate to the respective reportable business segments, with the allocations recorded in noncompensation expense.

- (e) In the first quarter of 2023, the allocations of revenue and expense to CCB associated with a Merchant Services revenue sharing agreement were discontinued and are now retained in Payments in CIB. Prior-period amounts have been revised to conform with the current presentation.
- (f) Included a \$7.9 billion net gain related to Visa shares recorded in the second quarter of 2024. Refer to Notes 2 and 6 for additional information.
- (g) Included a \$1.0 billion contribution of Visa shares to the JPMorgan Chase Foundation recorded in the second quarter of 2024. Refer to Notes 2 and 6 for additional information.

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**Note 33 – Parent Company**

The following tables present Parent Company-only financial statements.

#### Statements of income and comprehensive income

Year ended December 31, (in millions)	2024	2023	2022
<b>Income</b>			
Dividends from subsidiaries and affiliates:			
Bank and bank holding company	\$37,000	\$61,000	\$40,500
Non-bank	—	—	—
Interest income from subsidiaries	1,228	1,166	498
Other income/(expense) from subsidiaries:			
Bank and bank holding company	555	1,801	(3,497)
Non-bank	172	250	335
Other income/(expense)	1,252	(654)	5,271
<b>Total income</b>	<b>40,207</b>	<b>63,563</b>	<b>43,107</b>
<b>Expense</b>			
Interest expense/(income) to subsidiaries and affiliates <sup>(a)</sup>	7,433	2,258	22,731
Other interest expense/(income) <sup>(a)</sup>	8,068	11,714	(14,658)
Noninterest expense	3,280	3,431	2,817
<b>Total expense</b>	<b>18,781</b>	<b>17,403</b>	<b>10,890</b>
Income before income tax benefit and undistributed net income of subsidiaries	21,426	46,160	32,217
Income tax benefit	1,264	1,525	1,260
Equity in undistributed net income of subsidiaries	35,781	1,867	4,199
<b>Net income</b>	<b>\$58,471</b>	<b>\$49,552</b>	<b>\$37,676</b>
Other comprehensive income/(loss),			

#### Balance sheets

December 31, (in millions)	2024	2023
<b>Assets</b>		
Cash and due from banks	\$ 38	\$ 42
Deposits with banking subsidiaries	9,762	9,804
Trading assets	43,214	3,198
Advances to, and receivables from, subsidiaries:		
Bank and bank holding company	142	152
Non-bank	79	21
Investments (at equity) in subsidiaries and affiliates:		
Bank and bank holding company	603,044	568,472
Non-bank	1,238	1,045
Other assets	12,097	8,962
<b>Total assets</b>	<b>\$669,614</b>	<b>\$591,696</b>
<b>Liabilities and stockholders' equity</b>		
Borrowings from, and payables to, subsidiaries and affiliates	\$ 72,881	\$ 22,777
Short-term borrowings	—	999
Other liabilities	12,349	11,500
Long-term debt <sup>(b)(c)</sup>	239,626	228,542
<b>Total liabilities<sup>(c)</sup></b>	<b>324,856</b>	<b>263,818</b>
Total stockholders' equity	344,758	327,878
<b>Total liabilities and stockholders' equity</b>	<b>\$669,614</b>	<b>\$591,696</b>



**Notes to consolidated financial statements**

## Statements of cash flows

Year ended December 31, (in millions)	2024	2023	2022
<b>Operating activities</b>			
Net income	\$58,471	\$49,552	\$37,676
Less: Net income of subsidiaries and affiliates	72,781	62,868	44,699
<b>Parent company net loss</b>	<b>(14,310)</b>	(13,316)	(7,023)
Cash dividends from subsidiaries and affiliates	37,000	61,000	40,500
Other operating adjustments	(44,671)	9,412	(23,747)
<b>Net cash provided by/(used in) operating activities</b>	<b>(21,981)</b>	57,096	9,730
<b>Investing activities</b>			
Net change in:			
Advances to and investments in subsidiaries and affiliates, net	—	(25,000)	—
All other investing activities, net	21	25	31
<b>Net cash provided by/(used in) investing activities</b>	<b>21</b>	(24,975)	31
<b>Financing activities</b>			
Net change in:			
Borrowings from subsidiaries and affiliates	49,902	(2,249)	(4,491)
Short-term borrowings	(999)	—	—
Proceeds from long-term borrowings	44,997	19,398	41,389
Payments of long-term borrowings	(29,753)	(25,105)	(18,294)
Proceeds from issuance of			

(b) At December 31, 2024, long-term debt that contractually matures in 2025 through 2029 totaled \$7.7 billion, \$29.3 billion, \$20.2 billion, \$35.0 billion, and \$18.5 billion, respectively.

(c) Refer to Notes 20 and 28 for information regarding the Parent Company's guarantees of its subsidiaries' obligations.

(d) Represents payments, net of refunds, made by the Parent Company to various taxing authorities and includes taxes paid on behalf of certain of its subsidiaries that are subsequently reimbursed. The reimbursements were \$5.0 billion, \$13.2 billion, and \$11.3 billion for the years ended December 31, 2024, 2023 and 2022, respectively.





## **Note 34 - Business combinations**

On May 1, 2023, JPMorganChase acquired certain assets and assumed certain liabilities of First Republic Bank (the "First Republic acquisition") from the Federal Deposit Insurance Corporation ("FDIC"), as receiver. The acquisition resulted in a bargain purchase gain, which represents the excess of the estimated fair value of the net assets acquired above the purchase price.

The Firm has determined that this acquisition constitutes a business combination under U.S. GAAP. Accordingly, the initial recognition of the assets acquired and liabilities assumed were generally measured at their estimated fair values as of May 1, 2023. The determination of those fair values required management to make certain market-based assumptions about expected future cash flows, discount rates and other valuation inputs at the time of the acquisition. The Firm believes that the fair value estimates of the assets acquired and liabilities assumed provide a reasonable basis for determining the estimated bargain purchase gain.

The First Republic acquisition resulted in a preliminary estimated bargain purchase gain of \$2.7 billion. The final bargain purchase gain of \$2.9 billion reflects adjustments of \$103 million and \$63 million for the years ended December 31, 2024 and 2023, respectively, made during the one-year measurement period, as permitted by U.S. GAAP, to finalize management's fair value estimates for the assets acquired and liabilities assumed. As of December 31, 2024, certain matters related to the final settlement remained outstanding between the Firm and the FDIC.

On January 17, 2025, the Firm reached an agreement with the FDIC with respect to certain outstanding items. As a result of the agreement, the Firm made a payment of \$609 million to the FDIC on January 31, 2025 and reduced its additional payable to the FDIC, which will result in a gain of approximately \$600 million to be

In connection with the First Republic acquisition, the Firm and the FDIC entered into two shared-loss agreements with respect to certain loans and lending-related commitments (the "shared-loss assets"): the Commercial Shared-Loss Agreement ("CSLA") and the Single-Family Shared-Loss Agreement ("SFSLA"). The CSLA covers 80% of credit losses, on a pari passu basis, over 5 years with a subsequent 3-year recovery period for certain acquired commercial loans and other real estate exposure. The SFSLA covers 80% of credit losses, on a pari passu basis, for 7 years for certain acquired loans secured by mortgages on real property or shares in cooperative property constituting a primary residence. The indemnification assets, which represent the fair value of the CSLA and SFSLA on the acquisition date, are reflected in the total assets acquired.

As part of the consideration paid, JPMorganChase issued a five-year, \$50 billion secured note to the FDIC (the "Purchase Money Note"). The Purchase Money Note bears interest at a fixed rate of 3.4% and is secured by certain of the acquired loans. The Purchase Money Note is prepayable upon notice to the holder.

The Firm had placed a \$5 billion deposit with First Republic Bank on March 16, 2023, as part of \$30 billion of deposits provided by a consortium of large U.S. banks. The Firm's \$5 billion deposit was effectively settled as part of the acquisition and the associated allowance for credit losses was released upon closing. The Firm subsequently repaid the remaining \$25 billion of deposits to the consortium of banks, including accrued interest through the payment date on May 9, 2023.



## Notes to consolidated financial statements

The computation of the purchase price, the fair values of the assets acquired and liabilities assumed as part of the First Republic acquisition and the related bargain purchase gain are presented below, which reflects adjustments made during the measurement period to the acquisition-date fair value of the net assets acquired. The measurement period ended on April 30, 2024.

		Fair value purchase price allocation as of May 1, 2023
(in millions)		
<b>Purchase price consideration</b>		
Amounts paid/due to the FDIC, net of cash acquired <sup>(a)</sup>	\$	13,555
Purchase Money Note (at fair value) <sup>(b)</sup>		48,848
Settlement of First Republic deposit and other related party transactions <sup>(c)</sup>		5,447
Contingent consideration - Shared-loss agreements		15
<b>Purchase price consideration</b>	<b>\$</b>	<b>67,865</b>
<b>Assets</b>		
Securities	\$	30,285
Loans		153,242
Core deposit and customer relationship intangibles		1,455
Indemnification assets - Shared-loss agreements		675
Accounts receivable and other assets <sup>(d)</sup>		6,740
<b>Total assets acquired</b>	<b>\$</b>	<b>192,397</b>
<b>Liabilities</b>		
Deposits	\$	87,572
FHLB advances		27,919
Lending-related commitments		2,614
Accounts payable and other liabilities <sup>(d)</sup>		2,792
Deferred tax liabilities		757
<b>Total liabilities assumed</b>	<b>\$</b>	<b>121,654</b>
<b>Fair value of net assets acquired</b>	<b>\$</b>	<b>70,743</b>
<b>Gain on acquisition, after income taxes</b>	<b>\$</b>	<b>2,878</b>

(a) Net of cash acquired of \$680 million, and including disputed amounts with the FDIC as of April 30, 2024.

(b) As part of the consideration paid, JPMorganChase issued a five-year, \$50 billion secured note to the FDIC (the "Purchase Money Note").

(c) Includes \$447 million of securities financing transactions with First Republic Bank that were effectively settled on the acquisition date.

(d) Other assets include \$1.2 billion in tax-oriented investments and \$683 million of lease right-of-use assets. Other liabilities include the related tax-oriented investment liabilities of \$669 million and lease liabilities of \$748 million.

The following describes the accounting policies and fair value methodologies generally used by the Firm for the following assets acquired and liabilities assumed: core deposit and customer relationship intangibles, shared-loss agreements and the related indemnification assets, Purchase Money Note, and FHLB advances.

For further discussion of the Firm's accounting policies and valuation methodologies, refer to Notes 2 and 3 for fair value measurement, Note 10 for investment securities, Note 12 for loans, Note 17 for deposits, and Note 28 for lending-related commitments.

**Core deposit and customer relationship intangibles**

Core deposit and certain wealth management customer relationship intangibles were acquired as part of the First Republic acquisition. The core deposit intangible of \$1.3 billion was valued by discounting estimated after-tax cost savings over the remaining useful life of the deposits using the favorable source of funds method. The after-tax cost savings were estimated based on the difference between the cost of maintaining the core deposit base relative to the cost of next best alternative funding sources available to market participants. The customer relationship intangibles of \$180 million were valued by discounting estimated after-tax earnings over their remaining useful lives using the multi-period excess earnings

method. Both intangible asset valuations utilized assumptions that the Firm believes a market participant would use to estimate fair values, such as growth and attrition rates, projected fee income as well as related costs to service the relationships, and discount rates. The core deposit and customer relationship intangibles are amortized over a projected period of future cash flows of approximately 7 years. Refer to Note 15 for further discussion on other intangible assets.

### **Indemnification assets - Shared-loss agreements**

The indemnification assets represent forecasted recoveries from the FDIC associated with the shared-loss assets over the respective shared-loss recovery periods. The indemnification assets were recorded at fair value in other assets on the Consolidated balance sheets on the acquisition date. The fair values of the indemnification assets were estimated based on the timing of the forecasted losses underlying the related allowance for credit losses. The subsequent quarterly remeasurement of the indemnification assets is based on changes in the amount and timing of forecasted losses in the allowance for credit losses associated with the shared-loss assets and is recorded in other income. Under certain circumstances, the Firm may be required to make a payment to the FDIC upon termination of the shared-loss agreements based on the level of actual losses and recoveries on the shared-loss assets. The estimated potential future payment is reflected as contingent consideration as part of the purchase price consideration.

### **Loans**

The following table presents the unpaid principal balance ("UPB") and fair values of the loans acquired as of May 1, 2023, and reflects adjustments made during the measurement period to the acquisition-date fair value of the loans acquired.

### **Purchase Money Note and FHLB advances**

The Purchase Money Note is recorded in long-term debt on the Consolidated balance sheets. The fair value of the Purchase Money Note was estimated based on a discounted cash flow methodology and incorporated estimated market discount rates.

The FHLB advances assumed in the acquisition are recorded in short-term borrowings and in long-term debt. The fair values of the FHLB advances were based on a discounted cash flow methodology and considered the observed FHLB advance issuance rates.

(in millions)	May 1, 2023	
	UPB	Fair value
Residential real estate	\$ 106,240	\$ 92,053
Auto and other	3,093	2,030
<b>Total consumer</b>	<b>109,333</b>	<b>94,083</b>
Secured by real estate	37,117	33,602
Commercial & industrial	4,332	3,932
Other	23,499	21,625
<b>Total wholesale</b>	<b>64,948</b>	<b>59,159</b>
<b>Total loans</b>	<b>\$ 174,281</b>	<b>\$ 153,242</b>

#### Unaudited pro forma condensed combined financial information

The following table presents certain unaudited pro forma financial information for the year ended December 31, 2023 and 2022 as if the First Republic acquisition had occurred on January 1, 2022, including recognition of the estimated bargain purchase gain of \$2.8 billion and the provision for credit losses of \$1.2 billion. Additional adjustments include the interest on the Purchase Money Note and the impact of amortizing and accreting certain estimated fair value adjustments related to intangible assets, loans and lending-related commitments.

The Firm expects to achieve operating cost savings and other business synergies resulting from the acquisition that are not reflected in the pro forma amounts. The pro forma information is not necessarily indicative of the historical results of operations had the acquisition occurred on January 1, 2022, nor is it indicative of the results of operations in future periods.

(in millions)	Year ended December 31,	
	2023	2022
Noninterest revenue	\$ 65,816	\$ 66,510
Net interest income	90,856	71,005
Net income	48,665	41,089



## **Supplementary Information: Distribution of assets, liabilities and stockholders' equity; interest rates and interest differentials**

### **Consolidated average balance sheets, interest and rates**

Provided below is a summary of JPMorganChase's consolidated average balances, interest and rates on a taxable-equivalent basis for the years 2022 through 2024. Income computed on a taxable-equivalent basis is the income reported in the Consolidated statements

of income, adjusted to present interest income and rates earned on assets exempt from income taxes (i.e., federal taxes) on a basis comparable with other taxable investments. The incremental tax rate used for calculating the taxable-equivalent adjustment was approximately 24% in 2024, 2023 and 2022.

(Table continued on next page)

<b>(Unaudited)</b>		<b>2024</b>	
Year ended December 31, (Taxable-equivalent interest and rates; in millions, except rates)		Average balance <sup>(f)</sup>	Interest <sup>(f)</sup> Rate
<b>Assets</b>			
Deposits with banks	\$ 490,205	\$ 22,297	4.55 %
Federal funds sold and securities purchased under resale agreements	359,197	18,299	5.09
Securities borrowed	209,744	9,208	4.39
Trading assets - debt instruments	456,029	20,373	4.47
Taxable securities	583,329	21,947	3.76
Non-taxable securities <sup>(a)</sup>	27,912	1,393	4.99
Total investment securities	611,241	23,340	3.82 <sup>(i)</sup>
Loans	1,322,425	92,588 <sup>(h)</sup>	7.00
All other interest-earning assets <sup>(b)(c)</sup>	88,726	8,305	9.36
<b>Total interest-earning assets</b>	<b>3,537,567</b>	<b>194,410</b>	<b>5.50</b>
Allowance for loan losses	(22,877)		
Cash and due from banks	22,591		
Trading assets - equity and other instruments	208,534		
Trading assets - derivative receivables	57,005		
Goodwill, MSRs and other intangible assets	64,393		
All other noninterest-earning assets	218,709		
<b>Total assets</b>	<b>\$ 4,085,922</b>		
<b>Liabilities</b>			
Interest-bearing deposits	\$ 1,748,050	\$ 49,559	2.84 %
Federal funds purchased and securities loaned or sold under repurchase agreements	363,820	19,149	5.26
Short-term borrowings	39,593	2,101	5.31
Trading liabilities - debt and all other interest- bearing liabilities <sup>(d)(e)</sup>	314,054	10,238	3.26
Beneficial interests issued by consolidated VIEs	26,515	1,383	5.22
Long-term debt	344,346	18,920	5.49
<b>Total interest-bearing liabilities</b>	<b>2,836,378</b>	<b>101,350</b>	<b>3.57</b>
Noninterest-bearing deposits	638,592		
Trading liabilities - equity and other instruments <sup>(e)</sup>	32,025		
Trading liabilities - derivative payables	39,497		
All other liabilities, including the allowance for lending-related commitments	203,006		
<b>Total liabilities</b>	<b>3,749,498</b>		
<b>Stockholders' equity</b>			
Preferred stock	24,054		
Common stockholders' equity	312,370		
<b>Total stockholders' equity</b>	<b>336,424 <sup>(g)</sup></b>		
<b>Total liabilities and stockholders' equity</b>	<b>\$ 4,085,922</b>		
Interest rate spread			1.93 %
Net interest income and net yield on interest-earning			

- (a) Represents securities that are tax-exempt for U.S. federal income tax purposes.
- (b) Includes brokerage-related held-for-investment customer receivables, which are classified in accrued interest and accounts receivable, and all other interest-earning assets, which are classified in other assets on the Consolidated Balance Sheets.
- (c) The rates reflect the impact of interest earned on cash collateral where the cash collateral has been netted against certain derivative payables.
- (d) All other interest-bearing liabilities include brokerage-related customer payables.
- (e) The combined balance of trading liabilities – debt and equity instruments was \$185.4 billion, \$153.3 billion and \$138.1 billion for the years ended December 31, 2024, 2023 and 2022, respectively.
- (f) Includes the effect of derivatives that qualify for hedge accounting where applicable. Taxable-equivalent amounts are used, also where applicable. Refer to Note 5 for additional information on hedge accounting.



(Table continued from  
previous page)

2023			2022		
Average balance <sup>(f)</sup>	Interest <sup>(f)</sup>	Rate	Average balance <sup>(f)</sup>	Interest <sup>(f)</sup>	Rate
\$ 499,396	\$ 21,797	4.36 %	\$ 670,773	\$ 9,039	1.35 %
317,159	15,079	4.75	307,150	4,632	1.51
193,228	7,983	4.13	205,516	2,237	1.09
376,928	16,001	4.25	283,108	9,097	3.21
573,914	17,390	3.03	626,122	10,372	1.66
30,886	1,560	5.05	27,863	1,224	4.39
604,800	18,950	3.13 <sup>(i)</sup>	653,985	11,596	1.77 <sup>(i)</sup>
1,248,076	83,589 <sup>(h)</sup>	6.70	1,100,318	52,877 <sup>(h)</sup>	4.81
86,121	7,669	8.90	128,229	3,763	2.93
3,325,708	171,068	5.14	3,349,079	93,241	2.78
(20,762)			(17,399)		
24,853			27,601		
160,087			140,778		
64,227			78,606		
63,212			59,467		
204,899			215,408		
\$ 3,822,224			\$ 3,853,540		
\$ 1,698,529	\$ 40,016	2.36 %	\$ 1,748,666	\$ 10,082	0.58 %
256,086	13,259	5.18	242,762	3,721	1.53
37,468	1,894	5.05	46,063	747	1.62
286,605	9,396	3.28	268,019	3,246	1.21
18,648	953	5.11	11,208	226	2.02
296,433	15,803	5.33	250,080	8,075	3.23
2,593,769	81,321	3.14	2,566,798	26,097	1.02
660,538			719,249		
30,501			39,155		
46,355			57,388		
181,601			185,989		
3,512,764			3,568,579		
27,404			31,893		
282,056			253,068		
309,460 <sup>(g)</sup>			284,961 <sup>(g)</sup>		
\$ 3,822,224			\$ 3,853,540		
		2.00 %			1.76 %
\$ 89,747		2.70	\$ 67,144		2.00

- (g) The ratio of average stockholders' equity to average assets was 8.2%, 8.1% and 7.4% for the years ended December 31, 2024, 2023 and 2022, respectively. The return on average stockholders' equity, based on net income, was 17.4%, 16.0% and 13.2% for the years ended December 31, 2024, 2023 and 2022, respectively.
- (h) Included fees and commissions on loans of \$3.6 billion, \$2.2 billion and \$1.8 billion for the years ended December 31, 2024, 2023 and 2022, respectively.
- (i) The annualized rate for securities based on amortized cost was 3.79%, 3.09% and 1.75% for the years ended December 31, 2024, 2023 and 2022, respectively, and does not give effect to changes in fair value that are reflected in AOCI.

Within the Consolidated average balance sheets, interest and rates summary, the principal amounts of nonaccrual loans have been included in the average loan balances used to determine the average interest rate earned on loans. Refer to Note 12 for additional information on nonaccrual loans, including interest accrued.

**Interest rates and interest differential analysis of net interest income – U.S. and non-U.S.**

Presented below is a summary of interest and rates segregated between U.S. and non-U.S. operations for the years 2022 through 2024. The segregation of U.S. and non-U.S. components is based on the location of the office recording the transaction.

(Table continued on next page)

(Unaudited) Year ended December 31, (Taxable-equivalent interest and rates; in millions, except rates)	2024		
	Average balance	Interest	Rate
<b>Interest-earning assets</b>			
Deposits with banks:			
U.S.	\$ 284,913	\$ 15,157	5.32 %
Non-U.S.	205,292	7,140	3.48
Federal funds sold and securities purchased under resale agreements:			
U.S.	193,210	10,686	5.53
Non-U.S.	165,987	7,613	4.59
Securities borrowed:			
U.S.	150,251	7,330	4.88
Non-U.S.	59,493	1,878	3.16
Trading assets – debt instruments:			
U.S.	309,568	13,579	4.39
Non-U.S.	146,461	6,794	4.64
Investment securities:			
U.S.	567,784	21,458	3.78
Non-U.S.	43,457	1,882	4.33
Loans:			
U.S.	1,211,978	85,621	7.06
Non-U.S.	110,447	6,967	6.31
All other interest-earning assets, predominantly U.S. <sup>(a)</sup>	88,726	8,305	9.36
<b>Total interest-earning assets</b>	<b>3,537,567</b>	<b>194,410</b>	<b>5.50</b>
<b>Interest-bearing liabilities</b>			
Interest-bearing deposits:			
U.S.	1,307,000	33,173	2.54
Non-U.S.	441,050	16,386	3.72
Federal funds purchased and securities loaned or sold under repurchase agreements:			
U.S.	294,476	15,949	5.42
Non-U.S.	69,344	3,200	4.61
Trading liabilities – debt, short-term and all other interest-bearing liabilities:			
U.S.	222,710	8,289	3.72
Non-U.S.	130,937	4,050	3.09
Beneficial interests issued by consolidated VIEs, predominantly U.S.	26,515	1,383	5.22
Long-term debt:			
U.S.	338,166	18,760	5.55
Non-U.S.	6,180	160	2.59
<b>Total interest-bearing liabilities</b>	<b>2,836,378</b>	<b>101,350</b>	<b>3.57</b>
Noninterest-bearing liabilities <sup>(b)</sup>	701,189		
<b>Total investable funds</b>	<b>\$ 3,537,567</b>	<b>\$ 101,350</b>	<b>2.86 %</b>



- (a) The rates reflect the impact of interest earned on cash collateral where that cash collateral has been netted against certain derivative payables.
- (b) Represents the amount of noninterest-bearing liabilities funding interest-earning assets.

Refer to the “Net interest income” discussion in Consolidated Results of Operations on pages 59-62 for further information.



(Table continued from  
previous page)

2023			2022		
Average balance	Interest	Rate	Average balance	Interest	Rate
\$ 296,784	\$ 15,348	5.17 %	\$ 456,366	\$ 7,418	1.63 %
202,612	6,449	3.18	214,407	1,621	0.76
155,304	8,330	5.36	130,213	2,191	1.68
161,855	6,749	4.17	176,937	2,441	1.38
133,805	6,239	4.66	142,736	1,811	1.27
59,423	1,744	2.93	62,780	426	0.68
248,541	10,721	4.31	170,975	5,414	3.17
128,387	5,280	4.11	112,133	3,683	3.28
568,505	17,469	3.07	623,285	10,994	1.76
36,295	1,481	4.08	30,700	602	1.96
1,137,162	76,884	6.76	985,187	48,953	4.97
110,914	6,705	6.05	115,131	3,924	3.41
86,121	7,669	8.90	128,229	3,763	2.93
3,325,708	171,068	5.14	3,349,079	93,241	2.78
1,290,110	26,253	2.03	1,358,322	7,026	0.52
408,419	13,763	3.37	390,344	3,056	0.78
197,049	10,639	5.40	173,016	3,083	1.78
59,037	2,620	4.44	69,746	638	0.91
205,388	7,774	3.79	194,570	2,384	1.23
118,685	3,516	2.96	119,512	1,609	1.35
18,648	953	5.11	11,208	226	2.02
293,218	15,749	5.37	246,670	8,026	3.25
3,215	54	1.68	3,410	49	1.44
2,593,769	81,321	3.14	2,566,798	26,097	1.02
731,939			782,281		
\$ 3,325,708	\$ 81,321	2.45 %	\$ 3,349,079	\$ 26,097	0.78 %
	\$ 89,747	2.70 %		\$ 67,144	2.00 %
	77,923	3.01		58,950	2.27
	11,824	1.61		8,194	1.09
		24.7			24.9
		20.2			20.6



## **Changes in net interest income, volume and rate analysis**

The table below presents an attribution of net interest income between volume and rate. The attribution between volume and rate is calculated using annual average balances for each category of assets and liabilities shown in the table and the corresponding annual rates (refer to pages 322-325 for more information on average balances and rates). In this analysis, when the change cannot be isolated to either volume or rate, it has been allocated to volume. The annual rates include the impact of changes in market rates, as well as the impact of any change in composition of the various products within each category of asset or liability. This analysis is calculated separately for each category without consideration of the relationship between categories (for example, the net spread between the rates earned on assets and the rates paid on liabilities that fund those assets). As a result, changes in the granularity or groupings considered in this analysis would produce a different attribution result, and due to the complexities involved, precise allocation of changes in interest rates between volume and rates is inherently complex and judgmental.

(Unaudited)	2024 versus 2023			2023 versus 2022		
	Increase/ (decrease) due to change in:			Increase/ (decrease) due to change in:		
	Volume	Rate	Net change	Volume	Rate	Net change
Year ended December 31, (On a taxable-equivalent basis; in millions)						
<b>Interest-earning assets</b>						
Deposits with banks:						
U.S.	\$ (636)	\$ 445	\$ (191)	\$(8,225)	\$ 16,155	\$ 7,930
Non-U.S.	83	608	691	(361)	5,189	4,828
Federal funds sold and securities purchased under resale agreements:						
U.S.	2,092	264	2,356	1,347	4,792	6,139
Non-U.S.	184	680	864	(629)	4,937	4,308
Securities borrowed:						
U.S.	797	294	1,091	(411)	4,839	4,428
Non-U.S.	(3)	137	134	(95)	1,413	1,318
Trading assets - debt instruments:						
U.S.	2,659	199	2,858	3,358	1,949	5,307
Non-U.S.	834	680	1,514	666	931	1,597
Investment securities:						
U.S.	(47)	4,036	3,989	(1,690)	8,165	6,475
Non-U.S.	310	91	401	228	651	879
Loans:						
U.S.	5,326	3,411	8,737	10,296	17,635	27,931
Non-U.S.	(26)	288	262	(258)	3,039	2,781
All other interest-earning assets, predominantly U.S.						
	240	396	636	(3,749)	7,655	3,906
<b>Change in interest income</b>	<b>11,813</b>	<b>11,529</b>	<b>23,342</b>	<b>477</b>	<b>77,350</b>	<b>77,827</b>
<b>Interest-bearing liabilities</b>						
Interest-bearing deposits:						
U.S.	340	6,580	6,920	(1,284)	20,511	19,227
Non-U.S.	1,194	1,429	2,623	597	10,110	10,707
Federal funds purchased and securities loaned or sold under repurchase agreements:						
U.S.	5,271	39	5,310	1,293	6,263	7,556
Non-U.S.	480	100	580	(480)	2,462	1,982
Trading liabilities - debt, short-term and all other interest-bearing liabilities:						
U.S.	659	(144)	515	409	4,981	5,390
Non-U.S.	380	154	534	(17)	1,924	1,907
Beneficial interests issued by consolidated VIEs, predominantly U.S.						
	409	21	430	381	346	727
Long-term debt:						
U.S.	2,483	528	3,011	2,494	5,229	7,723
Non-U.S.	77	29	106	(3)	8	5



**Glossary of Terms and Acronyms**



**2023 Form 10-K:** Annual report on Form 10-K for the year ended December 31, 2023, filed with the U.S. Securities and Exchange Commission.

**ABS:** Asset-backed securities

**Active foreclosures:** Loans referred to foreclosure where formal foreclosure proceedings are ongoing. Includes both judicial and non-judicial states.

**AFS:** Available-for-sale

**ALCO:** Asset Liability Committee

**Alternative assets "Alternatives":** The following types of assets constitute alternative investments - hedge funds, currency, real estate, private equity and other investment funds designed to focus on nontraditional strategies

**Amortized cost:** Amount at which a financing receivable or investment is originated or acquired, adjusted for accretion or amortization of premium, discount, and net deferred fees or costs, collection of cash, charge-offs, foreign exchange, and fair value hedge accounting adjustments. For AFS securities, amortized cost is also reduced by any impairment losses recognized in earnings. Amortized cost is not reduced by the allowance for credit losses, except where explicitly presented net.

**AOCI:** Accumulated other comprehensive income/(loss)

**ARM:** Adjustable rate mortgage(s)

**AUC: "Assets under custody":** Represents assets held directly or indirectly on behalf of clients under safekeeping, custody and servicing arrangements.

**AUM: "Assets under management":** Represent assets managed by AWM on behalf of its Private Banking, Institutional and Retail clients. Includes "Committed capital not Called."

**Auto loan and lease origination volume:** Dollar amount of auto loans and leases originated.

**AWM:** Asset & Wealth Management

**Beneficial interests issued by consolidated VIEs:** Represents the interest of third-party holders of

**CB:** Commercial Banking

**CCAR:** Comprehensive Capital Analysis and Review

**CCB:** Consumer & Community Banking

**CCB Consumer customer:** A unique individual that has financial ownership or decision-making power with respect to accounts; excludes customers under the age of 18. Where a customer uses the same identifier as both a Consumer and a Small business, the customer is included in both metrics.

**CCB Small business customer:** A unique business or legal entity that has financial ownership or decision-making power with respect to accounts. Where a customer uses the same identifier as both a Consumer and a Small business, the customer is included in both metrics.

**CCO:** Chief Compliance Officer

**CCP: "Central counterparty"** is a clearing house that interposes itself between counterparties to contracts traded in one or more financial markets, becoming the buyer to every seller and the seller to every buyer and thereby ensuring the future performance of open contracts. A CCP becomes a counterparty to trades with market participants through novation, an open offer system, or another legally binding arrangement.

**CDS:** Credit default swaps

**CECL:** Current Expected Credit Losses

**CEO:** Chief Executive Officer

**CET1 Capital:** Common equity Tier 1 capital

**CFO:** Chief Financial Officer

**CFP:** Contingency funding plan

**CFTC:** Commodity Futures Trading Commission

**CIB:** Commercial & Investment Bank

**CIO:** Chief Investment Office

**Client assets:** Represent assets under management as well as custody, brokerage, administration and deposit accounts.

**Client deposits and other third-party liabilities:** Deposits, as well as deposits that are swept to on-balance sheet liabilities (e.g., commercial



**Glossary of Terms and Acronyms**

experiencing financial difficulty, including when foreclosure is deemed probable based on borrower delinquency.

**Commercial Card:** provides a wide range of payment services to corporate and public sector clients worldwide through the commercial card products. Services include procurement, corporate travel and entertainment, expense management services, and business-to-business payment solutions.

**Credit derivatives:** Financial instruments whose value is derived from the credit risk associated with the debt of a third-party issuer (the reference entity) which allow one party (the protection purchaser) to transfer that risk to another party (the protection seller). Upon the occurrence of a credit event by the reference entity, which may include, among other events, the bankruptcy or failure to pay its obligations, or certain restructurings of the debt of the reference entity, neither party has recourse to the reference entity. The protection purchaser has recourse to the protection seller for the difference between the face value of the CDS contract and the fair value at the time of settling the credit derivative contract. The determination as to whether a credit event has occurred is generally made by the relevant International Swaps and Derivatives Association ("ISDA") Determinations Committee.

**Criticized:** Criticized loans, lending-related commitments and derivative receivables that are classified as special mention, substandard and doubtful categories for regulatory purposes and are generally consistent with a rating of CCC+/Caa1 and below, as defined by S&P and Moody's.

**CRO:** Chief Risk Officer

**CRR:** Capital Requirements Regulation

**CTC:** CIO, Treasury and Corporate

**Custom lending:** Loans to AWM's Global Private Bank clients, including loans to private investment funds and loans that are collateralized by nontraditional asset types, such as

**Eligible HQLA:** Eligible high-quality liquid assets, for purposes of calculating the LCR, is the amount of unencumbered HQLA that satisfy certain operational considerations as defined in the LCR rule.

**Eligible LTD:** Long-term debt satisfying certain eligibility criteria

**Embedded derivatives:** are implicit or explicit terms or features of a financial instrument that affect some or all of the cash flows or the value of the instrument in a manner similar to a derivative. An instrument containing such terms or features is referred to as a "hybrid." The component of the hybrid that is the non-derivative instrument is referred to as the "host." For example, callable debt is a hybrid instrument that contains a plain vanilla debt instrument (i.e., the host) and an embedded option that allows the issuer to redeem the debt issue at a specified date for a specified amount (i.e., the embedded derivative). However, a floating rate instrument is not a hybrid composed of a fixed-rate instrument and an interest rate swap.

**EPS:** Earnings per share

**ERISA:** Employee Retirement Income Security Act of 1974

**ETD: "Exchange-traded derivatives":** Derivative contracts that are executed on an exchange and settled via a central clearing house.

**EU:** European Union

**Expense categories:**

- Volume- and/or revenue-related expenses generally correlate with changes in the related business/ transaction volume or revenue. Examples include commissions and incentive compensation within the LOBs, depreciation expense related to operating lease assets, and brokerage expense related to trading transaction volume.
- Investments in the business include expenses associated with supporting medium- to longer-term strategic plans of the Firm. Examples include front office growth, market



**Glossary of Terms and Acronyms**

to occur when the Firm modifies specific terms of the original loan agreement. The following types of modifications are considered FDMs: principal forgiveness, interest rate reduction, other-than-insignificant payment delay, term extension or a combination of these modifications.

**Federal Reserve:** The Board of the Governors of the Federal Reserve System

**FFIEC:** Federal Financial Institutions Examination Council

**FHA:** Federal Housing Administration

**FHLB:** Federal Home Loan Bank

**FICC:** The Fixed Income Clearing Corporation

**FICO score:** A measure of consumer credit risk provided by credit bureaus, typically produced from statistical models by Fair Isaac Corporation utilizing data collected by the credit bureaus.

**FINRA:** Financial Industry Regulatory Authority

**Firm:** JPMorgan Chase & Co.

**Forward points:** Represents the interest rate differential between two currencies, which is either added to or subtracted from the current exchange rate (i.e., "spot rate") to determine the forward exchange rate.

**FRC:** Firmwide Risk Committee

**Freddie Mac:** Federal Home Loan Mortgage Corporation

**Free standing derivatives:** a derivative contract entered into either separate and apart from any of the Firm's other financial instruments or equity transactions. Or, in conjunction with some other transaction and is legally detachable and separately exercisable.

**FSB:** Financial Stability Board

**FTE:** Fully taxable equivalent

**FVA:** Funding valuation adjustment

**FX:** Foreign exchange

**G7: Group of Seven nations:** Countries in the G7 are Canada, France, Germany, Italy, Japan, the U.K. and the U.S.

**G7 government securities:** Securities

interest that is subordinate in rank to other liens.

**HQLA: "High-quality liquid assets"** consist of cash and certain high-quality liquid securities as defined in the LCR rule.

**HTM:** Held-to-maturity

**IBOR:** Interbank Offered Rate

**ICAAP:** Internal capital adequacy assessment process

**IDI:** Insured depository institutions

**IHC:** JPMorgan Chase Holdings LLC, an intermediate holding company

**Indirect tax expense:** Refers to taxes that are imposed on goods and services rather than on income. Examples of indirect taxes include value-added tax ("VAT") and sales tax, among others.

**Investment-grade:** An indication of credit quality based on JPMorganChase's internal risk assessment. The Firm considers ratings of BBB-/Baa3 or higher as investment-grade.

**IPO:** Initial public offering

**ISDA:** International Swaps and Derivatives Association

**JPMorganChase:** JPMorgan Chase & Co.

**JPMorgan Chase Bank, N.A.:** JPMorgan Chase Bank, National Association

**JPMorgan Chase Foundation or the Firm's Foundation:** A not-for-profit organization that makes contributions for charitable and educational purposes.

**J.P. Morgan Securities:** J.P. Morgan Securities LLC

**JPMSE:** J.P. Morgan SE

**LCR:** Liquidity coverage ratio

**LDA:** Loss Distribution Approach

**LGD:** Loss given default

**LIBOR:** London Interbank Offered Rate

**LLC:** Limited Liability Company

**LOB:** Line of business

**LOB CROs:** Line of Business and CTC Chief Risk Officers

**LTIP:** Long-term incentive plan

**LTV: "Loan-to-value":** For residential real estate loans, the relationship, expressed as a percentage, between





**Glossary of Terms and Acronyms**

home price index measured at the metropolitan statistical area ("MSA") level. These MSA-level home price indices consist of actual data to the extent available and forecasted data where actual data is not available. As a result, the estimated collateral values used to calculate these ratios do not represent actual appraised loan-level collateral values; as such, the resulting LTV ratios are necessarily imprecise and should therefore be viewed as estimates.

**Combined LTV ratio**

The LTV ratio considering all available lien positions, as well as unused lines, related to the property. Combined LTV ratios are used for junior lien home equity products.

**Macro businesses:** the macro businesses include Rates, Currencies and Emerging Markets, Fixed Income Financing and Commodities in CIB's Fixed Income Markets.

**Managed basis:** A non-GAAP presentation of Firmwide financial results that includes reclassifications to present revenue on a fully taxable-equivalent basis. Management also uses this financial measure at the segment level, because it believes this provides information to enable investors to understand the underlying operational performance and trends of the particular business segment and facilitates a comparison of the business segment with the performance of competitors.

**Markets:** consists of CIB's Fixed Income Markets and Equity Markets businesses.

**Master netting agreement:** A single agreement with a counterparty that permits multiple transactions governed by that agreement to be terminated or accelerated and settled through a single payment in a single currency in the event of a default (e.g., bankruptcy, failure to make a required payment or securities transfer or deliver collateral or margin when due).

**MBS:** Mortgage-backed securities

**MD&A:** Management's discussion and analysis

**Retail – Borrowers** who buy or refinance a home through direct contact with a mortgage banker employed by the Firm using a branch office, the Internet or by phone. Borrowers are frequently referred to a mortgage banker by a banker in a Chase branch, real estate brokers, home builders or other third parties.

**Correspondent – Banks, thrifts, other mortgage banks and other financial institutions** that sell closed loans to the Firm.

**Mortgage product types:***Alt-A*

Alt-A loans are generally higher in credit quality than subprime loans but have characteristics that would disqualify the borrower from a traditional prime loan. Alt-A lending characteristics may include one or more of the following: (i) limited documentation; (ii) a high CLTV ratio; (iii) loans secured by non-owner occupied properties; or (iv) a debt-to-income ratio above normal limits. A substantial proportion of the Firm's Alt-A loans are those where a borrower does not provide complete documentation of his or her assets or the amount or source of his or her income.

*Option ARMs*

The option ARM real estate loan product is an adjustable-rate mortgage loan that provides the borrower with the option each month to make a fully amortizing, interest-only or minimum payment. The minimum payment on an option ARM loan is based on the interest rate charged during the introductory period. This introductory rate is usually significantly below the fully indexed rate. The fully indexed rate is calculated using an index rate plus a margin. Once the introductory period ends, the contractual interest rate charged on the loan increases to the fully indexed rate and adjusts monthly to reflect movements in the index. The minimum payment is typically insufficient to cover interest accrued in the prior month, and any unpaid interest is deferred and added to the principal balance of the loan. Option ARM loans are



**Glossary of Terms and Acronyms**

primary residence; or (v) a history of delinquencies or late payments on the loan.

**MREL:** Minimum requirements for own funds and eligible liabilities

**MSR:** Mortgage servicing rights

**Multi-asset:** Any fund or account that allocates assets under management to more than one asset class.

**NA:** Data is not applicable or available for the period presented.

**NAV:** Net Asset Value

**Net Capital Rule:** Rule 15c3-1 under the Securities Exchange Act of 1934.

**Net charge-off/(recovery) rate:** Represents net charge-offs/(recoveries) (annualized) divided by average retained loans for the reporting period.

**Net interchange income** includes the following components:

- **Interchange income:** Fees earned by credit and debit card issuers on sales transactions.
- **Rewards costs:** The cost to the Firm for points earned by cardholders enrolled in credit card rewards programs generally tied to sales transactions.
- **Partner payments:** Payments to co-brand credit card partners based on the cost of loyalty program rewards earned by cardholders on credit card transactions.

**Net mortgage servicing revenue:** Includes operating revenue earned from servicing third-party mortgage loans, which is recognized over the period in which the service is provided; changes in the fair value of MSRs; the impact of risk management activities associated with MSRs; and gains and losses on securitization of excess mortgage servicing. Net mortgage servicing revenue also includes gains and losses on sales and lower of cost or fair value adjustments of certain repurchased loans insured by U.S. government agencies.

**Net revenue rate:** Represents Card Services net revenue (annualized) expressed as a percentage of average loans for the period.

of 90 days or more unless the loan is both well-secured and in the process of collection. Collateral-dependent loans are typically maintained on nonaccrual status.

**Nonperforming assets:** Nonperforming assets include nonaccrual loans, nonperforming derivatives and certain assets acquired in loan satisfactions, predominantly real estate owned and other commercial and personal property.

**NSFR:** Net Stable Funding Ratio

**OAS:** Option-adjusted spread

**OCC:** Office of the Comptroller of the Currency

**OCI:** Other comprehensive income/(loss)

**OPEB:** Other postretirement employee benefit

**Operating losses:** Primarily refer to fraud losses associated with customer deposit accounts, credit and debit cards; exclude legal expense.

**Over-the-counter ("OTC") derivatives:** Derivative contracts that are negotiated, executed and settled bilaterally between two derivative counterparties, where one or both counterparties is a derivatives dealer.

**Over-the-counter cleared ("OTC-cleared") derivatives:** Derivative contracts that are negotiated and executed bilaterally, but subsequently settled via a central clearing house, such that each derivative counterparty is only exposed to the default of that clearing house.

**Overhead ratio:** Noninterest expense as a percentage of total net revenue.

**Parent Company:** JPMorgan Chase & Co.

**Participating securities:** Represents unvested share-based compensation awards containing nonforfeitable rights to dividends or dividend equivalents (collectively, "dividends"), which are included in the earnings per share calculation using the two-class method. JPMorganChase grants RSUs to certain employees under its share-based compensation programs, which entitle



**Glossary of Terms and Acronyms**

requirements, defines eligible capital instruments, and prescribes rules for calculating RWA.

**Pillar 3:** The Basel framework consists of a three "Pillar" approach. Pillar 3 encourages market discipline through disclosure requirements which allow market participants to assess the risk and capital profiles of banks.

**PRA:** Prudential Regulation Authority

**Preferred stock dividends:** reflects dividends declared and deemed dividends upon redemption of preferred stock

**Pre-provision profit/(loss):**  
Represents total net revenue less noninterest expense. The Firm believes that this financial measure is useful in assessing the ability of a lending institution to generate income in excess of its provision for credit losses.

**Pre-tax margin:** Represents income before income tax expense divided by total net revenue, which is, in management's view, a comprehensive measure of pretax performance derived by measuring earnings after all costs are taken into consideration. It is one basis upon which management evaluates the performance of AWM against the performance of their respective competitors.

**Principal transactions revenue:**  
Principal transactions revenue is driven by many factors, including:

- the bid-offer spread, which is the difference between the price at which a market participant is willing and able to sell an instrument to the Firm and the price at which another market participant is willing and able to buy it from the Firm, and vice versa; and
  - realized and unrealized gains and losses on financial instruments and commodities transactions, including those accounted for under the fair value option, primarily used in client-driven market-making activities.
- Realized gains and losses result from the sale of instruments, closing out or termination of

**Production revenue:** Includes fees and income recognized as earned on mortgage loans originated with the intent to sell, and the impact of risk management activities associated with the mortgage pipeline and warehouse loans. Production revenue also includes gains and losses on sales and lower of cost or fair value adjustments on mortgage loans held-for-sale (excluding certain repurchased loans insured by U.S. government agencies), and changes in the fair value of financial instruments measured under the fair value option.

**PSU(s):** Performance share units

**Regulatory VaR:** Daily aggregated VaR calculated in accordance with regulatory rules.

**REO:** Real estate owned

**Reported basis:** Financial statements prepared under U.S. GAAP, which excludes the impact of taxable-equivalent adjustments.

**Retained loans:** Loans that are held-for-investment (i.e., excludes loans held-for-sale and loans at fair value).

**Revenue wallet:** Proportion of fee revenue based on estimates of investment banking fees generated across the industry (i.e., the revenue wallet) from investment banking transactions in M&A, equity and debt underwriting, and loan syndications. Source: Dealogic, a third-party provider of investment banking competitive analysis and volume-based league tables for the above noted industry products.

**RHS:** Rural Housing Service of the U.S. Department of Agriculture

**ROA:** Return on assets

**ROE:** Return on equity

**ROTCE:** Return on tangible common equity

**ROU assets:** Right-of-use assets

**RSU(s):** Restricted stock units

**RWA "Risk-weighted assets":** Basel III establishes two comprehensive approaches for calculating RWA (a Standardized approach and an Advanced approach) which include capital





**Glossary of Terms and Acronyms**

**SAR(s) as it pertains to employee stock awards:** Stock appreciation rights

**SCB:** Stress capital buffer

**Scored portfolios:** Consumer loan portfolios that predominantly include residential real estate loans, credit card loans, auto loans to individuals and certain small business loans.

**SEC:** U.S. Securities and Exchange Commission

**Securities financing agreements:** Include resale, repurchase, securities borrowed and securities loaned agreements

**Securitized Products Group:** Comprised of Securitized Products and tax-oriented investments.

**Seed capital:** Initial JPMorgan capital invested in products, such as mutual funds, with the intention of ensuring the fund is of sufficient size to represent a viable offering to clients, enabling pricing of its shares, and allowing the manager to develop a track record. After these goals are achieved, the intent is to remove the Firm's capital from the investment.

**Shelf securities:** Securities registered with the SEC under a shelf registration statement that have not been issued, offered or sold. These securities are not included in league tables until they have actually been issued.

**Single-name:** Single reference-entities

**SLR:** Supplementary leverage ratio

**SMBS:** Stripped mortgage-backed securities

**SOFR:** Secured Overnight Financing Rate

**SPEs:** Special purpose entities

**Structural interest rate risk:** Represents interest rate risk of the non-trading assets and liabilities of the Firm.

**Structured notes:** Structured notes are financial instruments whose cash flows are linked to the movement in one or more indexes, interest rates, foreign exchange rates, commodities prices, prepayment rates, underlying

credits and tax-exempt securities is presented in managed basis results on a level comparable to taxable investments and securities; the corresponding income tax impact related to tax-exempt items is recorded within income tax expense.

**TBVPS:** Tangible book value per share

**TCE:** Tangible common equity

**TDR: "Troubled debt restructuring"** applies to loan modifications granted prior to January 1, 2023 and is deemed to occur when the Firm modifies the original terms of a loan agreement by granting a concession to a borrower that is experiencing financial difficulty. Loans with short-term and other insignificant modifications that are not considered concessions are not TDRs.

**TLAC:** Total Loss Absorbing Capacity

**U.K.:** United Kingdom

**Unaudited:** Financial statements and/or information that have not been subject to auditing procedures by an independent registered public accounting firm.

**U.S.:** United States of America

**U.S. GAAP:** Accounting principles generally accepted in the U.S.

**U.S. government agencies:** U.S. government agencies include, but are not limited to, agencies such as Ginnie Mae and FHA, and do not include Fannie Mae and Freddie Mac which are U.S. government-sponsored enterprises ("U.S. GSEs"). In general, obligations of U.S. government agencies are fully and explicitly guaranteed as to the timely payment of principal and interest by the full faith and credit of the U.S. government in the event of a default.

**U.S. GSE(s):** "U.S. government-sponsored enterprises" are quasi-governmental, privately-held entities established or chartered by the U.S. government to serve public purposes as specified by the U.S. Congress to improve the flow of credit to specific sectors of the economy and provide certain essential services to the public. U.S. GSEs include Fannie Mae and Freddie Mac, but do not



## Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on behalf of the undersigned, thereunto duly authorized.

JPMorgan Chase & Co.  
(Registrant)

By: /s/ JAMES DIMON

(James Dimon  
Chairman and Chief  
Executive Officer)

February 14, 2025

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacity and on the date indicated. JPMorgan Chase & Co. does not exercise the power of attorney to sign on behalf of any Director.

	Capacity	Date
<u>/s/ JAMES DIMON</u> (James Dimon)	Director, Chairman and Chief Executive Officer (Principal Executive Officer)	
<u>/s/ LINDA B. BAMMANN</u> (Linda B. Bammann)	Director	
<u>/s/ STEPHEN B. BURKE</u> (Stephen B. Burke)	Director	
<u>/s/ TODD A. COMBS</u> (Todd A. Combs)	Director	
<u>/s/ ALICIA BOLER DAVIS</u> (Alicia Boler Davis)	Director	
<u>/s/ ALEX GORSKY</u> (Alex Gorsky)	Director	February 14, 2025
<u>/s/ MELLODY HOBSON</u> (Mellody Hobson)	Director	
<u>/s/ PHEBE N. NOVAKOVIC</u> (Phebe N. Novakovic)	Director	
<u>/s/ VIRGINIA M. ROMETTY</u> (Virginia M. Rometty)	Director	
<u>/s/ BRAD D. SMITH</u> (Brad D. Smith)	Director	
<u>/s/ MARK A. WEINBERGER</u> (Mark A. Weinberger)	Director	
<u>/s/ JEREMY BARNUM</u> (Jeremy Barnum)	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	
<u>/s/ ELENA KORABLINA</u> (Elena Korablina)	Managing Director and Firmwide Controller (Principal Accounting Officer)	