

lease payments of \$657 million and \$3.3 billion, that are not yet recorded on our Consolidated Balance Sheet. These leases will commence between 2024 and 2026 with non-cancelable lease terms of one to 25 years. For the years ended December 31, 2022 and 2023, our operating lease expenses (including variable lease costs) were \$3.7 billion and \$4.5 billion, respectively. Finance lease costs were not material for the years ended December 31, 2022 and 2023. For additional information, see Note 4 of the Notes to Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K.

#### Financing

We have a short-term debt financing program of up to \$10.0 billion through the issuance of commercial paper. The proceeds from this program are used for general corporate purposes. As of December 31, 2023, we had no commercial paper outstanding.

As of December 31, 2023, we had \$10.0 billion of revolving credit facilities, \$4.0 billion expiring in April 2024 and \$6.0 billion expiring in April 2028. The interest rates for all credit facilities are determined based on a formula using prevailing market rates, as well as our progress toward the achievement of certain sustainability goals. No amounts have been borrowed under the credit facilities.

As of December 31, 2023, we had senior unsecured notes outstanding with a total carrying value of \$12.9 billion, including \$2.1 billion of short-term and long-term future interest payments of \$214 million and \$3.6 billion, respectively. For additional information, see Note 6 of the Notes to Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K. We primarily utilize contract manufacturers for the assembly of our servers used in our technical infrastructure and other devices we sell. We have agreements where we may purchase components directly from suppliers and then resell those components to contract manufacturers for use in the assembly of the servers and devices. Certain of these agreements result in a portion of the cash received from and paid to the contract manufacturers to be presented as financing activities in the Consolidated Statements of Cash Flows included in Item 8 of this Annual Report on Form 10-K.

#### Share Repurchase Program

During 2023 we repurchased and subsequently retired 528 million shares for \$62.2 billion.

In April 2023, the Board of Directors of Alphabet authorized the company to repurchase up to an additional \$50.0 billion of its Class A and Class C shares. As of December 31, 2023, \$36.3 billion remains available for Class A and Class C share repurchases.

The following table presents Class A and Class C shares repurchased and subsequently retired (in millions) for the years ended December 31, 2022 and December 31, 2023.

	Year Ended December 31, 2022	Year Ended December 31, 2023
Shares	Amount	Amount
Class A share repurchases	61	\$ 6,719
Class C share repurchases	469	52,577
Total share repurchases(1)	530	\$ 59,296

(1) Shares repurchased include unsettled repurchases as of December 31, 2023.

For additional information, see Note 11 of the Notes to Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K.

42.

#### Table of Contents Alphabet Inc.

##### European Commission Fines

In 2017, 2018 and 2019, the EC announced decisions that certain actions taken by Google infringed European competition law and imposed fines of €2.4 billion (\$2.7 billion as of June 27, 2017), €4.3 billion (\$5.1 billion as of March 20, 2018), and €1.5 billion (\$1.7 billion as of March 20, 2019), respectively. On September 14, 2022, the General Court reduced the 2018 fine from €4.3 billion to €4.1 billion. We subsequently filed an appeal to the European Court of Justice. While each EC decision is under appeal, we included the fines in accrued expenses and other current liabilities on our Consolidated Balance Sheets as we provided bank guarantees (in lieu of a cash payment) for the fines. For additional information, see Note 10 of the Notes to Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K.

#### Taxes

As of December 31, 2023, we had income taxes payable of \$4.2 billion, of which \$2.1 billion was short-term, and a one-time transition tax payable incurred as a result of the U.S. Tax Cuts and Jobs Act ("Tax Act"). As permitted by the Tax Act, we have elected to pay the one-time transition tax in installments over a period of 8 years.

Act, we will pay the transition tax in annual interest-free installments through 2025. We also have long-term tax liabilities of \$6.3 billion primarily related to uncertain tax positions as of December 31, 2023.

#### Purchase Commitments and Other Contractual Obligations

As of December 31, 2023, we had material purchase commitments and other contractual obligations of \$45.1 billion, of which \$31.6 billion was short-term. These amounts primarily consist of purchase orders for certain technology and infrastructure as well as the non-cancelable portion or the minimum cancellation fee in certain agreements related to our commitments to purchase licenses, including content licenses, inventory and network capacity. For those agreements with variable terms, we do not estimate the non-cancelable obligation beyond any minimum quantities and/or prices as of December 31, 2023. In certain instances, the amount of our contractual obligations may change based on the timing of order fulfillment from our suppliers. For more information related to our content licenses, see Note 1 to Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K.

In addition, we regularly enter into multi-year, non-cancellable agreements to purchase renewable energy and related attributes, such as renewable energy certificates. These agreements do not include a minimum dollar commitment, and amounts to be paid under these agreements are based on the actual volumes to be generated and are not readily determinable.

#### Critical Accounting Estimates

We prepare our consolidated financial statements in accordance with GAAP. In doing so, we have to make estimates and assumptions. Our critical accounting estimates are those estimates that involve a significant level of uncertainty at the time the estimate was made, and changes in them have had or are reasonably likely to have a material effect on our financial condition or results of operations. Accordingly, actual results could differ materially from our estimates based on our estimates on past experience and other assumptions that we believe are reasonable under the circumstances. We evaluate these estimates on an ongoing basis. We have reviewed our critical accounting estimates with the Audit and Compliance Committee of our Board of Directors.

For a summary of significant accounting policies and the effect on our financial statements, see Note 1 of the Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K.

#### Fair Value Measurements of Non-Marketable Equity Securities

We measure certain financial instruments at fair value on a nonrecurring basis, consisting primarily of our non-marketable equity securities. These investments are accounted for under the measurement alternative method ("measurement alternative") and are measured at cost, less impairment, subject to upward and downward adjustments resulting from observable price changes for identical or similar investments of the same issuer. These adjustments are based on quantitative assessments of the fair value of our securities, which may require the use of unobservable inputs. These adjustments are determined primarily based on a market approach as of the transaction date and involve the use of estimates of the best information available, which may include cash flow projections or other available market data.

Non-marketable equity securities are also evaluated for impairment, based on qualitative factors including the companies' financial and liquidity position and access to capital resources, among others. When indicators of impairment exist, we prepare quantitative measurements of the fair value of our equity investments using a market approach or an income approach, which requires judgment and the use of unobservable inputs, including discount rates, investment revenues and costs, and comparable market data of private and public companies, among others.

43.

#### Table of Contents Alphabet Inc.

When the quantitative remeasurements of fair value indicate an impairment exists, we write down the investment to its current fair value.

We also have compensation arrangements with payouts based on realized returns from certain investments and performance fees. We record compensation expense based on the estimated payouts on an ongoing basis, and the results may result in expense recognized before investment returns are realized and compensation is paid and may require the use of unobservable inputs.

#### Property and Equipment

We assess the reasonableness of the useful lives of our property and equipment periodically as well as when events or changes occur, such as when there are changes to ongoing business operations, changes in the planned use of assets, or technological advancements, that could indicate a change in the period over which we expect to

benefit from the assets.

#### Income Taxes

We are subject to income taxes in the U.S. and foreign jurisdictions. Significant judgment is required in evaluating uncertain tax positions and determining our provision for income taxes.

Recording an uncertain tax position involves various qualitative considerations, including evaluation of complex and resolved tax exposures, applicability of tax laws, and likelihood of settlement. We evaluate uncertain tax positions periodically, considering changes in facts and circumstances, such as new regulations or recent judicial opinions, as the status of audit activities by taxing authorities. Although we believe we have adequately reserved for our uncertain tax positions, no assurance can be given that the final tax outcome of these matters will not be different. To the extent the final tax outcome of these matters is different than the amounts recorded, such differences will affect the amount of our income taxes and the effective tax rate in the period in which such determination is made.

The provision for income taxes includes the effect of reserve provisions and changes to reserves as well as interest and related net interest and penalties. In addition, we are subject to the continuous examination of our income tax returns by the IRS and other tax authorities which may assert assessments against us. We regularly assess the likelihood of outcomes resulting from these examinations and assessments to determine the adequacy of our provision for income taxes.

#### Loss Contingencies

We are regularly subject to claims, lawsuits, regulatory and government investigations, other proceedings, and consent orders involving competition, intellectual property, privacy, data security, tax and related compliance matters, employment, commercial disputes, content generated by our users, goods and services offered by advertisers, publishers using our platforms, personal injury consumer protection, and other matters. Certain of these matters involve speculative claims for substantial or indeterminate amounts of damages. We record a liability when we believe it is probable that a loss has been incurred and the amount can be reasonably estimated. If we determine that a loss is reasonably possible and the loss or range of loss can be estimated, we disclose the possible loss in Note 10 to Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K.

We evaluate, on a regular basis, developments in our legal matters that could affect the amount of liability that has been previously accrued, and the matters and related reasonably possible losses disclosed, and make adjustments to our disclosures. Significant judgment is required to determine both the likelihood and the estimated amount of loss related to such matters. Until the final resolution of such matters, there may be an exposure to loss in excess of the amount recorded, and such amounts could be material.

#### Change in Accounting Estimate

In January 2023, we completed an assessment of the useful lives of our servers and network equipment resulting in a change in the estimated useful life of our servers and certain network equipment to six years. This change in accounting estimate was effective beginning fiscal year 2023. For additional information, see Note 1 of the Notes to Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K.

44.

#### Table of Contents Alphabet Inc.

### ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to financial market risks, including changes in foreign currency exchange rates, interest rates, and equity investment risks.

#### Foreign Currency Exchange Risk

We transact business globally in multiple currencies. International revenues, as well as costs and expenses denominated in foreign currencies, expose us to the risk of fluctuations in foreign currency exchange rates against the U.S. dollar. As discussed below, we enter into derivative instruments to hedge foreign currency risk. Principal currencies included the Australian dollar, British pound, Canadian dollar, Euro, and Japanese yen. For the purpose of assessing foreign currency exchange risk, we considered the historical trends in foreign currency exchange rates and concluded that it was reasonably possible that adverse changes in exchange rates of 10% could be experienced.

We use foreign currency forward and option contracts to offset the foreign exchange risk on assets and liabilities denominated in currencies other than the functional currency of the subsidiary. These forward and option contracts do not but do not entirely eliminate, the effect of foreign currency exchange rate movements on our assets and liabilities.

foreign currency gains and losses on these assets and liabilities are recorded in OI&E, which are offset by the losses on the forward and option contracts.

If an adverse 10% foreign currency exchange rate change was applied to total monetary assets, liabilities, and commitments denominated in currencies other than the functional currencies at the balance sheet date, it would have resulted in an adverse effect on income before income taxes of approximately \$136 million and \$503 million as of December 31, 2022 and 2023, respectively, after consideration of the effect of foreign exchange contracts in the years ended December 31, 2022 and 2023.

We use foreign currency forward and option contracts, including collars (an option strategy comprised of a combination of purchased and written options) to protect forecasted U.S. dollar-equivalent earnings from changes in foreign currency exchange rates. When the U.S. dollar strengthens, gains from foreign currency forward and option contracts reduce the foreign currency losses related to our earnings. When the U.S. dollar weakens, losses from foreign currency forward and option contracts offset the foreign currency gains related to our earnings. These hedging activities reduce, but do not entirely eliminate, the effect of foreign currency exchange rate movements. We designate these contracts as cash flow hedges for accounting purposes. We reflect the gains or losses of foreign currency spot contracts as a component of accumulated other comprehensive income (AOCI) and subsequently reclassify these gains or losses to revenues to offset the hedged exposures as they occur.

If the U.S. dollar weakened by 10% as of December 31, 2022 and 2023, the amount recorded in AOCI related to cash flow hedges before tax effect would have been approximately \$1.3 billion and \$1.5 billion lower as of December 31, 2022 and 2023, respectively. The change in the value recorded in AOCI would be expected to offset a corresponding foreign currency change in forecasted hedged revenues when recognized.

We use foreign exchange forward contracts designated as net investment hedges to hedge the foreign currency exposure related to investment in foreign subsidiaries. These forward contracts serve to offset the foreign currency translation gains or losses from our foreign operations.

If the U.S. dollar weakened by 10%, the amount recorded in cumulative translation adjustment (CTA) within equity related to our net investment hedges before tax effect would have been approximately \$903 million and \$940 million as of December 31, 2022 and 2023, respectively. The change in value recorded in CTA would be expected to offset the corresponding foreign currency translation gain or loss from our investment in foreign subsidiaries.

Interest Rate Risk

Our Corporate Treasury investment strategy is to achieve a return that will allow us to preserve capital and maintain liquidity. We invest primarily in debt securities, including government bonds, corporate debt securities, mortgage-backed and asset-backed securities, money market and other funds, time deposits, and interest rate derivatives. By diversifying the amount of credit exposure to any one issuer. Our investments in both fixed rate and floating rate interest rate securities carry a degree of interest rate risk. Fixed rate securities may have their fair market value adversely affected by a rise in interest rates, while floating rate securities may produce less income than predicted if interest rates rise. Unrealized gains or losses on our marketable debt securities are primarily due to interest rate fluctuations as well as changes in interest rates at the time of purchase. For certain fixed and variable rate debt securities, we have elected the fair value option for which changes in fair value are recorded in OI&E. We measure securities for which we have not elected the fair value option at fair value with gains and losses recorded in AOCI until the securities are sold, less any expected credit losses.

45.

Table of Contents Alphabet Inc.

We use value-at-risk (VaR) analysis to determine the potential effect of fluctuations in interest rates on the value of our marketable debt security portfolio. The VaR is the expected loss in fair value, for a given confidence interval, of the investment portfolio due to adverse movements in interest rates. We use a variance/covariance VaR model to estimate the confidence interval. The estimated one-day loss in fair value of marketable debt securities as of December 31, 2022 and 2023 are shown below (in millions):

12-Month Average

As of December 31, As of December 31,  
2022 2023 2022 2023

Risk category - interest rate \$ 256 \$ 296 \$ 198 \$ 271

Actual future gains and losses associated with our marketable debt security portfolio may differ materially from sensitivity analyses performed as of December 31, 2022 and 2023 due to the inherent limitations associated with the timing and amount of changes in interest rates and our actual exposures and positions. VaR analysis is not intended to represent actual losses but is used as a risk estimation.

#### Equity Investment Risk

Our marketable and non-marketable equity securities are subject to a wide variety of market-related risks that may substantially reduce or increase the fair value of our holdings.

Our marketable equity securities are publicly traded stocks or funds and our non-marketable equity securities include investments in privately held companies, some of which are in the startup or development stages.

We record marketable equity securities not accounted for under the equity method at fair value based on readily determinable market values, of which publicly traded stocks and mutual funds are subject to market price volatility. As of December 31, 2022 and 2023, our marketable equity securities represent \$5.2 billion and \$6.0 billion of our investments as of December 31, 2022 and 2023, respectively. An adverse price change of 10% on our December 31, 2023 balance would decrease the fair value of marketable equity securities by \$597 million. From time to time, we may enter into derivatives to hedge the market price risk on our marketable equity securities.

Our non-marketable equity securities not accounted for under the equity method are adjusted to fair value based on observable transactions for identical or similar investments of the same issuer or impairment (referred to as the measurement alternative). The fair value measured at the time of the observable transaction is not necessarily an indication of the current fair value as of the balance sheet date. These investments, especially those that are in the early stages, are inherently risky because the technologies or products these companies have under development may not be successful in the early phases and may never materialize, and they may experience a decline in financial condition, which could result in a loss of a substantial part of our investment in these companies. Valuations of our equity investments in privately held companies are inherently more complex due to the lack of readily available market data and observable transactions. Lower valuations could result in significant losses. In addition, global economic conditions could result in additional volatility. The success of our investment in any private company is also typically dependent on the likelihood of our ability to exit the investment through appreciation in the value of investments through liquidity events such as public offerings, acquisitions, private sales, or other market events. Changes in the valuation of non-marketable equity securities may not directly correlate with changes in the valuation of marketable equity securities. As of December 31, 2022 and 2023, the carrying value of our non-marketable equity securities, which were accounted for under the measurement alternative, was \$28.5 billion and \$28.8 billion, respectively.

The carrying values of our equity method investments, which totaled approximately \$1.7 billion as of December 31, 2022 and 2023, generally do not fluctuate based on market price changes. However, these investments could be impaired if the carrying value exceeds the fair value and is not expected to recover.

For additional information about our equity investments, see Note 1 and Note 3 of the Notes to Consolidated Financial Statements included in Item 8 of this Annual Report on Form 10-K.

46.

Table of Contents Alphabet Inc.

## ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Alphabet Inc.

### INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

Page

Reports of Independent Registered Public Accounting Firm (PCAOB ID: 42) 48

Financial Statements:

Consolidated Balance Sheets 51

Consolidated Statements of Income 52

Consolidated Statements of Comprehensive Income 53

Consolidated Statements of Stockholders' Equity 54

Consolidated Statements of Cash Flows 55

Notes to Consolidated Financial Statements 56

47.

Table of Contents Alphabet Inc.

## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of Alphabet Inc.

### Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Alphabet Inc. (the Company) as of December 31, 2022 and 2023, the related consolidated statements of income, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2023, and the related notes and financial statements listed in the Index at Item 15 (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2023, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2023, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2023, based on the framework established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), and our report dated January 30, 2024 expressed an unqualified opinion on the internal control thereon.

### Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB. We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. The procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the 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 financial statements. We believe that our audits provide a reasonable basis for our opinion.

### Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounting estimates, disclosures that are material to the financial statements and (2) involved our especially challenging, subjective judgments. The communication of the critical audit matter 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 matter below, providing a separate opinion on the critical audit matter or on the account or disclosure to which it relates.

48.

Table of Contents Alphabet Inc.

### Loss Contingencies

Description of the The Company is regularly subject to claims, lawsuits, regulatory and government investigations, litigation proceedings, and consent orders involving competition, intellectual property, data privacy and security, tax and related compliance, labor and employment, commercial disputes, content generated by its users, goods and services offered by advertisers or publishers using their platforms, personal injury, consumer protection, and other matters. As described in Note 10 to the consolidated financial statements "Commitments and contingencies" such claims, lawsuits, regulatory and government investigations, other proceedings, and consent orders could result in adverse consequences.

Significant judgment is required to determine both the likelihood, and the estimated amount, of a loss related to such matters. Auditing management's accounting for and disclosure of loss contingencies from these matters involved challenging and subjective auditor judgment in assessing the Company's evaluation of the probability of a loss, and the estimated amount or range of loss.

How We tested relevant controls over the identified risks associated with management's accounting for a  
Addressed the disclosure of these matters. This included controls over management's assessment of the pro  
Matter in Our incurrence of a loss and whether the loss or range of loss was reasonably estimable and the  
Audit development of related disclosures.

Our audit procedures included gaining an understanding of previous rulings and the status of ongoing  
lawsuits, reviewing letters addressing the matters from internal and external legal counsel, meeting with  
internal legal counsel to discuss the allegations, and obtaining a representation letter from  
management on these matters. We also evaluated the Company's disclosures in relation to these  
matters.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 1999.

San Jose, California

January 30, 2024

49.

Table of Contents Alphabet Inc.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of Alphabet Inc.

Opinion on Internal Control Over Financial Reporting

We have audited Alphabet Inc.'s internal control over financial reporting as of December 31, 2023, based on  
established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organization  
Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Alphabet Inc. (the Company) n  
all material respects, effective internal control over financial reporting as of December 31, 2023, based on the  
criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board  
States) (PCAOB), the 2023 consolidated financial statements of the Company and our report dated January  
expressed an unqualified opinion thereon.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting  
assessment of the effectiveness of internal control over financial reporting included in the accompanying Ma  
Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Comp  
control over financial reporting based on our audit. We are a public accounting firm registered with the PCAO  
required to be independent with respect to the Company in accordance with the U.S. federal securities laws  
applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we p  
perform the audit to obtain reasonable assurance about whether effective internal control over financial repo  
maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk  
weakness exists, testing and evaluating the design and operating effectiveness of internal control based on  
risk, and performing such other procedures as we considered necessary in the circumstances. We believe th  
provides a reasonable basis for our opinion.

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  
reliability of financial reporting and the preparation of financial statements for external purposes in accordanc  
generally accepted accounting principles. A company's internal control over financial reporting includes thos  
procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly refl  
transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactio  
recorded as necessary to permit preparation of financial statements in accordance with generally accepted a  
principles, and that receipts and expenditures of the company are being made only in accordance with autho  
management and directors of the company; and (3) provide reasonable assurance regarding prevention or ti  
of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on

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 ineffective because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

San Jose, California

January 30, 2024

50.

Table of Contents Alphabet Inc.

Alphabet Inc.

## CONSOLIDATED BALANCE SHEETS

(in millions, except par value per share amounts)

As of December 31,

2022 2023

### Assets

#### Current assets:

Cash and cash equivalents \$ 21,879 \$ 24,048

Marketable securities 91,883 86,868

Total cash, cash equivalents, and marketable securities 113,762 110,916

Accounts receivable, net 40,258 47,964

Other current assets 10,775 12,650

Total current assets 164,795 171,530

Non-marketable securities 30,492 31,008

Deferred income taxes 5,261 12,169

Property and equipment, net 112,668 134,345

Operating lease assets 14,381 14,091

Goodwill 28,960 29,198

Other non-current assets 8,707 10,051

Total assets \$ 365,264 \$ 402,392

### Liabilities and Stockholders' Equity

#### Current liabilities:

Accounts payable \$ 5,128 \$ 7,493

Accrued compensation and benefits 14,028 15,140

Accrued expenses and other current liabilities 37,866 46,168

Accrued revenue share 8,370 8,876

Deferred revenue 3,908 4,137

Total current liabilities 69,300 81,814

Long-term debt 14,701 13,253

Deferred revenue, non-current 599 911

Income taxes payable, non-current 9,258 8,474

Deferred income taxes 514 485

Operating lease liabilities 12,501 12,460

Other long-term liabilities 2,247 1,616

Total liabilities 109,120 119,013

### Commitments and Contingencies (Note 10)

#### Stockholders' equity:

Preferred stock, \$0.001 par value per share, 100 shares authorized; no shares issued and outstanding 0 0

Class A, Class B, and Class C stock and additional paid-in capital, \$0.001 par value per share: 300,000 shares authorized (Class A 180,000, Class B 60,000, Class C 60,000);



12,849 (Class A 5,964, Class B 883, Class C 6,002) and 12,460 (Class A 5,899, Class B 870, Class C 5,691) shares issued and outstanding 68,184 76,534

Accumulated other comprehensive income (loss) (7,603) (4,402)

Retained earnings 195,563 211,247

Total stockholders' equity 256,144 283,379

Total liabilities and stockholders' equity \$ 365,264 \$ 402,392

See accompanying notes.

our Consolidated Balance Sheets. We determine the appropriate classification of our investments in marketable securities at the time of purchase and reevaluate such designation at each balance sheet date. We have classified our marketable debt securities as available-for-sale. After consideration of our risk versus reward, as well as our liquidity requirements, we may sell these debt securities prior to their effective maturities. As with our equity securities as available to support current operations, we classify highly liquid securities with maturities beyond 12 months as current assets under the caption marketable securities on the Consolidated Balance Sheets. We carry these securities at fair value, and report the unrealized gains and losses, net of taxes, as a component of stockholders' equity. We also report the changes in allowance for expected credit losses, which are recorded in OI&E. For certain marketable debt securities, we have elected the fair value option, for which changes in fair value are recorded in OI&E. We determine any realized gains or losses on the sale of marketable debt securities on a specific identification method, and we record such gains or losses as a component of OI&E.

Our investments in marketable equity securities are measured at fair value with the related gains and losses, net of taxes, as unrealized, recognized in OI&E. We classify our marketable equity securities subject to long-term lock-up restrictions as other non-current assets on the Consolidated Balance Sheets.

#### Non-Marketable Securities

Non-marketable securities primarily consist of equity securities. We account for non-marketable equity securities through which we exercise significant influence but do not have control over the investee under the equity method. Non-marketable equity securities that we hold are primarily accounted for under the measurement alternative. Under the measurement alternative, the carrying value is measured at cost, less any impairment, plus or minus adjustments.

#### Table of Contents Alphabet Inc.

changes resulting from observable price changes in orderly transactions for identical or similar investments of the issuer. Adjustments are determined primarily based on a market approach as of the transaction date and are recorded as a component of OI&E.

Non-marketable securities that do not have effective contractual maturity dates are classified as other non-current assets on the Consolidated Balance Sheets.

#### Derivative Financial Instruments

See Note 3 for the accounting policy pertaining to derivative financial instruments.

#### Accounts Receivable

Our payment terms for accounts receivable vary by the types and locations of our customers and the products and services offered. The term between invoicing and when payment is due is not significant. For certain products and customers, we require payment before the products or services are delivered to the customer. Additionally, accounts receivable includes amounts for services performed in advance of the right to invoice the customer.

We maintain an allowance for credit losses for accounts receivable, which is recorded as an offset to accounts receivable, and changes in such are classified as general and administrative expense in the Consolidated Statement of Income. We assess collectibility by reviewing accounts receivable on a collective basis where similar characteristics exist and on an individual basis when we identify specific customers with known disputes or collectibility issues. In determining the amount of the allowance for credit losses, we consider historical collectibility based on past due status and our judgments about the creditworthiness of customers based on ongoing credit evaluations. We also consider current specific information, current market conditions, and reasonable and supportable forecasts of future economic conditions.

#### Other

Our financial instruments also include debt and equity investments in companies with which we also entered into commercial arrangements at or near the same time. For these transactions, judgment is required in assessing

substance of the arrangements, including assessing whether the components of the arrangements should be accounted for as separate transactions under the applicable GAAP, and determining the value of the components of the arrangements, including the fair value of the investments. Additionally, if our investment in such companies becomes impaired, our remaining performance obligations would be reassessed and may be reduced.

#### Impairment of Investments

We periodically review our debt and non-marketable equity securities for impairment.

For debt securities in an unrealized loss position, we determine whether a credit loss exists. The credit loss is estimated by considering available information relevant to the collectibility of the security and information about events, current conditions, and reasonable and supportable forecasts. Any credit loss is recorded as a charge to the carrying amount of the security, but not to exceed the amount of the unrealized loss. Unrealized losses other than the credit loss are recognized in Accumulated Other Comprehensive Income (AOCI) if we have an intent to sell, or if it is more likely than not that we will be required to sell a debt security in an unrealized loss position before recovery of its amortized cost basis, we will write down the security to its fair value and record the corresponding charge as a component of Other Income and Expenses (OI&E).

For non-marketable equity securities, including equity method investments, we consider whether impairment indicators exist by evaluating the companies' financial and liquidity position and access to capital resources, and other indicators. If the assessment indicates that the investment is impaired, we write down the investment to its fair value and record the corresponding charge as a component of OI&E. We prepare quantitative measurements of the fair value of our equity investments using a market approach or an income approach.

#### Inventory

Inventory consists primarily of finished goods and is stated at the lower of cost and net realizable value. Costs are computed using the first-in, first-out method.

#### Variable Interest Entities

We determine at the inception of each arrangement whether an entity in which we have made an investment or in which we have other variable interests is considered a variable interest entity (VIE). We consolidate VIEs where we are the primary beneficiary. We are the primary beneficiary of a VIE when we have the power to direct activities that significantly affect the economic performance of the VIE and have the obligation to absorb the majority of the expected losses. 60.

#### Table of Contents Alphabet Inc.

or benefits. If we are not the primary beneficiary in a VIE, we account for the investment or other variable interest in accordance with applicable GAAP.

Periodically, we assess whether any changes in our interest or relationship with the entity affect our determination of whether the entity is a VIE and, if so, whether we are the primary beneficiary.

#### Property and Equipment

Property and equipment includes the following categories: land and buildings, information technology assets under construction in progress, leasehold improvements, and furniture and fixtures. Land and buildings include land, data centers, and related building improvements. Information technology assets include servers and network equipment. Construction in progress is the construction or development of property and equipment that have not yet been placed in service.

Property and equipment are stated at cost less accumulated depreciation. Depreciation is recorded using the straight-line method over the estimated useful lives of the assets, which we regularly evaluate. Land is not depreciated. We depreciate buildings over periods of seven to 25 years. We depreciate information technology assets generally over a period of six years for servers and network equipment. We depreciate leasehold improvements over the shorter of the remaining lease term or the estimated useful lives of the assets. Depreciation for buildings, information technology assets, leasehold improvements, and furniture and fixtures commences once they are ready for our intended use.

#### Goodwill

We allocate goodwill to reporting units based on the expected benefit from the business combination. We evaluate the reporting units periodically, as well as when changes in our operating segments occur. For changes in reporting units, we reassign goodwill using a relative fair value allocation approach. We test our goodwill for impairment at least annually, or more frequently if events or changes in circumstances indicate that the asset may be impaired. Goodwill impairment is not material for the periods presented.

## Leases

We determine if an arrangement is a lease at inception. Our lease agreements generally contain lease and non-lease components. Payments under our lease arrangements are primarily fixed. Non-lease components primarily include payments for maintenance and utilities. We combine fixed payments for non-lease components with lease payments and account for them together as a single lease component which increases the amount of our lease assets and liabilities. Certain lease agreements contain variable payments, which are expensed as incurred and not included in the lease assets and liabilities. These amounts primarily include payments affected by the Consumer Price Index, and payments for maintenance and utilities.

Lease assets and liabilities are recognized at the present value of the future lease payments at the lease commencement date. The interest rate used to determine the present value of the future lease payments is the incremental borrowing rate, because the interest rate implicit in our leases is not readily determinable. Our incremental borrowing rate is estimated to approximate the interest rate on a collateralized basis with similar terms and payments, and in the environments where the leased asset is located. Our lease terms include periods under options to extend or terminate the lease when it is reasonably certain that we will exercise that option. We generally use the base, non-cancelable lease term when determining the lease assets and liabilities. Lease assets also include any prepaid lease payments and lease incentives.

Operating lease assets and liabilities are included on our Consolidated Balance Sheets. The current portion of operating lease liabilities is included in accrued expenses and other current liabilities, and the long-term portion is included in operating lease liabilities. Finance lease assets are included in property and equipment, net. Finance lease liabilities are included in accrued expenses and other current liabilities or long-term debt.

Operating lease expense (excluding variable lease costs) is recognized on a straight-line basis over the lease term.

## Impairment of Long-Lived Assets

We review leases, property and equipment, and intangible assets, excluding goodwill, for impairment when events or changes in circumstances indicate the carrying amount may not be recoverable. The evaluation is performed based on the level of identifiable cash flows independent of other assets. We measure recoverability of these assets by comparing the carrying amounts to the future undiscounted cash flows that the assets or the asset group are expected to generate.

Table of Contents Alphabet Inc.

to generate. If the carrying value of the assets or asset group is not recoverable, the impairment recognized is measured as the amount by which the carrying value exceeds its fair value.

## Income Taxes

We account for income taxes using the asset and liability method, under which we recognize the amount of income taxes payable or refundable for the current year and deferred tax assets and liabilities for the future tax consequences of events that have been recognized in our financial statements or tax returns. We measure current and deferred tax assets and liabilities based on provisions of enacted tax law. We evaluate the likelihood of future realization of our deferred tax assets based on all available evidence and establish a valuation allowance to reduce deferred tax assets when it is more likely than not that they will not be realized or release a valuation allowance to increase deferred tax assets when it is more likely than not that they will be realized. We have elected to account for the tax effects of the global intangible low-taxation provision as a current period expense.

We recognize the financial statement effects of a tax position when it is more likely than not that, based on the merits, the position will be sustained upon examination. The tax benefits of the position recognized in the financial statements are then measured based on the largest amount of benefit that is greater than 50% likely to be realized upon settlement with a taxing authority. In addition, we recognize interest and penalties related to unrecognized tax positions as a component of the income tax provision.

## Business Combinations

We include the results of operations of the businesses that we acquire as of the acquisition date. We allocate the purchase price of the acquisitions to the assets acquired and liabilities assumed based on their estimated fair values, except for revenue contracts acquired, which are recognized in accordance with our revenue recognition policy. Any excess of the purchase price over the fair values of identifiable assets and liabilities is recorded as goodwill. Acquisition-related expenses are recognized separately from the business combination and are expensed as incurred.

## Foreign Currency

We translate the financial statements of our international subsidiaries to U.S. dollars using month-end exchange rates for assets and liabilities, and average rates for the annual period derived from month-end exchange rates for costs, and expenses. We record translation gains and losses in AOCI as a component of stockholders' equity. Net foreign exchange transaction gains and losses resulting from the conversion of the transaction currency to U.S. dollars as a component of foreign currency exchange gain (loss) in OI&E.

## Recent Accounting Pronouncements

In November 2023, the Financial Standards Accounting Board (FASB) issued Accounting Standards Update (ASU) 2023-07 "Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures" which expands the interim disclosure requirements for reportable segments, primarily through enhanced disclosures about significant expenses. ASU 2023-07 is effective for our annual periods beginning January 1, 2024, and for interim periods beginning January 1, 2025, with early adoption permitted. We are currently evaluating the potential effect that the update will have on our financial statement disclosures.

In December 2023, the FASB issued ASU 2023-09 "Income Taxes (Topics 740): Improvements to Income Tax Disclosures" to expand the disclosure requirements for income taxes, specifically related to the rate reconciliation of income taxes paid. ASU 2023-09 is effective for our annual periods beginning January 1, 2025, with early adoption permitted. We are currently evaluating the potential effect that the updated standard will have on our financial statement disclosures.

## Prior Period Reclassifications

Certain amounts in prior periods have been reclassified to conform with current period presentation.

## Table of Contents Alphabet Inc.

### Note 2. Revenues

#### Disaggregated Revenues

The following table presents revenues disaggregated by type (in millions):

Year Ended December 31,

2021 2022 2023

Google Search & other \$ 148,951 \$ 162,450 \$ 175,033

YouTube ads 28,845 29,243 31,510

Google Network 31,701 32,780 31,312

Google advertising 209,497 224,473 237,855

Google subscriptions, platforms, and devices 28,032 29,055 34,688

Google Services total 237,529 253,528 272,543

Google Cloud 19,206 26,280 33,088

Other Bets 753 1,068 1,527

Hedging gains (losses) 149 1,960 236

Total revenues \$ 257,637 \$ 282,836 \$ 307,394

No individual customer or groups of affiliated customers represented more than 10% of our revenues in 2022 or 2023.

The following table presents revenues disaggregated by geography, based on the addresses of our customers (in millions):

Year Ended December 31,

2021 2022 2023

United States \$ 117,854 46 % \$ 134,814 48 % \$ 146,286 47 %

EMEA(1) 79,107 31 82,062 29 91,038 30

APAC(1) 46,123 18 47,024 16 51,514 17

Other Americas(1) 14,404 5 16,976 6 18,320 6

Hedging gains (losses) 149 0 1,960 1 236 0

Total revenues \$ 257,637 100 % \$ 282,836 100 % \$ 307,394 100 %

(1) Regions represent Europe, the Middle East, and Africa (EMEA); Asia-Pacific (APAC); and Canada and Latin America (LATAM).

Americas").

#### Revenue Backlog

As of December 31, 2023, we had \$74.1 billion of remaining performance obligations ("revenue backlog"), primarily related to Google Cloud. Our revenue backlog represents commitments in customer contracts for future services that have not yet been recognized as revenue. The estimated revenue backlog and timing of revenue recognition for these commitments is largely driven by our ability to deliver in accordance with relevant contract terms and when customers begin to utilize services. We expect to recognize approximately half of the revenue backlog as revenues over the next 12 months, with the remaining to be recognized thereafter. Revenue backlog includes related deferred revenue currently recognized, as well as amounts that will be invoiced in future periods, and excludes contracts with an original expected term of less than 12 months and cancellable contracts.

#### Deferred Revenues

We record deferred revenues when cash payments are received or due in advance of our performance, including amounts which are refundable. Deferred revenues primarily relate to Google Cloud and Google subscription services and devices. Total deferred revenue as of December 31, 2022 was \$4.5 billion, of which \$2.4 billion was recognized as revenues for the year ended December 31, 2023.

#### Note 3. Financial Instruments

##### Fair Value Measurements

##### Investments Measured at Fair Value on a Recurring Basis

Cash, cash equivalents, and marketable equity securities are measured at fair value and classified within Level 1 of the fair value hierarchy. Debt securities are measured at fair value and classified within Level 2 or Level 3 of the fair value hierarchy, depending on the nature of the securities. For example, U.S. government securities are classified within Level 1, while corporate debt securities are classified within Level 2 or Level 3, depending on the nature of the securities. See Note 63.

##### Table of Contents Alphabet Inc.

and Level 2 in the fair value hierarchy, because we use quoted prices for identical assets in active markets or observable inputs are based upon quoted prices for similar instruments in active markets.

Debt securities are measured at fair value and classified within Level 2 in the fair value hierarchy, because we use quoted market prices to the extent available or alternative pricing sources and models utilizing market observable inputs to determine fair value. For certain marketable debt securities, we have elected the fair value option for which changes in fair value are recorded in OI&E. The fair value option was elected for these securities to align with the unrealized gains and losses from related derivative contracts.

The following tables summarize our cash, cash equivalents, and marketable securities measured at fair value on a recurring basis (in millions):

As of December 31, 2022

##### Gross Cash and

##### Fair Value Adjusted Unrealized Unrealized Cash Marketable

##### Hierarchy Cost Gains Losses Fair Value Equivalents Securities

##### Fair value changes

##### recorded in other

##### comprehensive income

Time deposits Level 2 \$ 5,297 \$ 0 \$ 0 \$ 5,297 \$ 5,293 \$ 4

Government bonds Level 2 41,036 64 (2,045) 39,055 283 38,772

Corporate debt securities Level 2 28,578 8 (1,569) 27,017 1 27,016

##### Mortgage-backed and

asset-backed securities Level 2 16,176 5 (1,242) 14,939 0 14,939

##### Total investments with

##### fair value change

##### reflected in other

##### comprehensive

income(1) \$ 91,087 \$ 77 \$ (4,856) \$ 86,308 \$ 5,577 \$ 80,731

##### Fair value adjustments

##### recorded in net income

Money market funds Level 1 \$ 7,234 \$ 7,234 \$ 0

Current marketable Level 1  
equity securities(2) 4,013 0 4,013  
Mutual funds Level 2 339 0 339  
Government bonds Level 2 1,877 440 1,437  
Corporate debt securities Level 2 3,744 65 3,679  
Mortgage-backed and Level 2  
asset-backed securities 1,686 2 1,684  
Total investments with  
fair value change  
recorded in net  
income \$ 18,893 \$ 7,741 \$ 11,152  
Cash 0 8,561 0

Total \$ 91,087 \$ 77 \$ (4,856) \$ 105,201 \$ 21,879 \$ 91,883

(1) Represents gross unrealized gains and losses for debt securities recorded to AOCI.

(2) The long-term portion of marketable equity securities (subject to long-term lock-up restrictions) of \$803 m  
2022 is included within other non-current assets.

64.

Table of Contents Alphabet Inc.

As of December 31, 2023

Gross Gross Cash and

Fair Value Adjusted Unrealized Unrealized Cash Marketable

Hierarchy Cost Gains Losses Fair Value Equivalents Securities

Fair value changes

recorded in other

comprehensive income

Time deposits Level 2 \$ 2,628 \$ 0 \$ 0 \$ 2,628 \$ 2,628 \$ 0

Government bonds Level 2 38,106 233 (679) 37,660 1,993 35,667

Corporate debt securities Level 2 22,457 112 (637) 21,932 0 21,932

Mortgage-backed and

17,243 88 (634) 16,697 0 16,697

asset-backed securities Level 2

Total investments with

fair value change

reflected in other

comprehensive

income(1) \$ 80,434 \$ 433 \$ (1,950) \$ 78,917 \$ 4,621 \$ 74,296

Fair value adjustments

recorded in net income

Money market funds Level 1 \$ 6,480 \$ 6,480 \$ 0

Current marketable

equity securities(2) Level 1 4,282 0 4,282

Mutual funds Level 2 311 0 311

Government bonds Level 2 1,952 347 1,605

Corporate debt securities Level 2 3,782 91 3,691

Mortgage-backed and Level 2

asset-backed securities 2,683 0 2,683

Total investments with

fair value change

recorded in net

income \$ 19,490 \$ 6,918 \$ 12,572

Cash 0 12,509 0

Total \$ 80,434 \$ 433 \$ (1,950) \$ 98,407 \$ 24,048 \$ 86,868

(1) Represents gross unrealized gains and losses for debt securities recorded to AOCI.

(2) The long-term portion of marketable equity securities (subject to long-term lock-up restrictions) of \$1.4 billion as of December 31, 2023 is included within other non-current assets.

#### Investments Measured at Fair Value on a Nonrecurring Basis

Our non-marketable equity securities are investments in privately held companies without readily determinable fair market values. The carrying value of our non-marketable equity securities is adjusted to fair value upon observable transactions for identical or similar investments of the same issuer or impairment. Non-marketable equity securities that have been remeasured during the period based on observable transactions are classified within Level 2 or Level 3 in the fair value hierarchy because we estimate the value based on valuation methods, including option pricing models, market approach, and common stock equivalent method, which may include a combination of the observable transactions and the transaction date and other unobservable inputs including volatility, expected time to exit, risk free rate, and other obligations of the securities we hold. These inputs significantly vary based on investment type. The fair value of non-marketable equity securities that have been remeasured due to impairment are classified within Level 3.

As of December 31, 2023, the carrying value of our non-marketable equity securities was \$28.8 billion, of which \$13.7 billion were remeasured at fair value during the year ended December 31, 2023, and primarily classified within Level 2 of the fair value hierarchy at the time of measurement.

65.

#### Table of Contents Alphabet Inc.

##### Debt Securities

The following table summarizes the estimated fair value of investments in available-for-sale marketable debt securities by effective contractual maturity dates (in millions):

As of December 31,

2023

Due in one year or less \$ 11,231

Due in one year through five years 41,477

Due in five years through 10 years 15,351

Due after 10 years 14,216

Total \$ 82,275

The following tables present fair values and gross unrealized losses recorded to AOCI, aggregated by investment category and the length of time that individual securities have been in a continuous loss position (in millions):

As of December 31, 2022

Less than 12 Months 12 Months or Greater Total

Unrealized Unrealized Unrealized

Fair Value Loss Fair Value Loss Fair Value Loss

Government bonds \$ 21,039 \$ (1,004) \$ 13,438 \$ (1,041) \$ 34,477 \$ (2,045)

Corporate debt securities 11,228 (440) 15,125 (1,052) 26,353 (1,492)

Mortgage-backed and asset-backed

securities 7,725 (585) 6,964 (657) 14,689 (1,242)

Total \$ 39,992 \$ (2,029) \$ 35,527 \$ (2,750) \$ 75,519 \$ (4,779)

As of December 31, 2023

Less than 12 Months 12 Months or Greater Total

Unrealized Unrealized Unrealized

Fair Value Loss Fair Value Loss Fair Value Loss

Government bonds \$ 1,456 \$ (22) \$ 13,897 \$ (657) \$ 15,353 \$ (679)

Corporate debt securities 827 (5) 15,367 (592) 16,194 (597)

Mortgage-backed and asset-backed

securities 2,945 (26) 7,916 (608) 10,861 (634)

Total \$ 5,228 \$ (53) \$ 37,180 \$ (1,857) \$ 42,408 \$ (1,910)

We determine realized gains or losses on the sale or extinguishment of debt securities on a specific identification method. The following table summarizes gains and losses for debt securities, reflected as a component of Other Income (in millions):

Year Ended December 31,	2021	2022	2023
Unrealized gain (loss) on fair value option debt securities	\$ (122)	\$ (557)	\$ 386
Gross realized gain on debt securities	432	103	182
Gross realized loss on debt securities	(329)	(1,588)	(1,833)
(Increase) decrease in allowance for credit losses	(91)	(22)	50
Total gain (loss) on debt securities recognized in other income (expense), net	\$ (110)	\$ (2,064)	\$ (1,215)

66.  
Table of Contents Alphabet Inc.  
Equity Investments

The carrying value of equity securities is measured as the total initial cost plus the cumulative net gain (loss) and losses, including impairments, are included as a component of Other Income in the Consolidated Statements of Operations. Note 7 for further details on Other Income.

The carrying values for marketable and non-marketable equity securities are summarized below (in millions):

As of December 31, 2022		As of December 31, 2023				
Marketable	Non-Marketable	Marketable	Non-Marketable			
Equity Securities	Equity Securities	Equity Securities	Equity Securities			
Total	Total	Total	Total			
Total initial cost	\$ 5,764	\$ 16,157	\$ 21,921	\$ 5,418	\$ 17,616	\$ 23,034
Cumulative net						
gain (loss)(1)	(608)	12,372	11,764	555	11,150	11,705
Carrying value	\$ 5,156	\$ 28,529	\$ 33,685	\$ 5,973	\$ 28,766	\$ 34,739

(1) Non-marketable equity securities cumulative net gain (loss) is comprised of \$16.8 billion gains and \$4.5 billion losses (including impairments) as of December 31, 2022 and \$18.1 billion gains and \$6.9 billion losses (including impairments) as of December 31, 2023.

#### Gains and Losses on Marketable and Non-marketable Equity Securities

Gains and losses (including impairments), net, for marketable and non-marketable equity securities included in Other Income are summarized below (in millions):

Year Ended December 31,	2021	2022	2023
Realized net gain (loss) on equity securities sold during the period	\$ 1,196	\$ (442)	\$ 690
Unrealized net gain (loss) on marketable equity securities	1,335	(3,242)	790
Unrealized net gain (loss) on non-marketable equity securities(1)	9,849	229	(1,088)
Total gain (loss) on equity securities in other income (expense), net	\$ 12,380	\$ (3,455)	\$ 392

(1) Unrealized gain (loss) on non-marketable equity securities accounted for under the measurement alternative was \$10.0 billion, \$3.3 billion, and \$1.8 billion of upward adjustments as of December 31, 2021, 2022, and 2023, respectively. \$122 million, \$3.0 billion, and \$2.9 billion of downward adjustments (including impairments) as of December 31, 2021, 2022, and 2023, respectively.

In the table above, realized net gain (loss) on equity securities sold during the period reflects the difference between the sale proceeds and the carrying value of the equity securities at the beginning of the period or the purchase date. Cumulative net gains (losses) on equity securities sold during the period, which is summarized in the following table (in millions), represents the total net gains (losses) recognized after the initial purchase date of the equity securities during the period. While these net gains (losses) may have been reflected in periods prior to the period of sale, they are important supplemental information as they reflect the economic net gains (losses) on the securities sold during the period. Cumulative net gains (losses) are calculated as the difference between the sale price and the initial cost.



price for the equity security sold during the period.

Equity Securities Sold During the Year

Ended December 31,

2022 2023

Total sale price \$ 1,784 \$ 1,981

Total initial cost 937 1,512

Cumulative net gains (losses) \$ 847 \$ 469

Equity Securities Accounted for Under the Equity Method

As of December 31, 2022 and 2023, equity securities accounted for under the equity method had a carrying amount of approximately \$1.5 billion and \$1.7 billion, respectively. Our share of gains and losses, including impairment losses, is recorded as a component of OI&E, in the Consolidated Statements of Income. See Note 7 for further details on OI&E. 67.

Table of Contents Alphabet Inc.

Derivative Financial Instruments

We use derivative instruments to manage risks relating to our ongoing business operations. The primary risk managed is foreign exchange risk. We use foreign currency contracts to reduce the risk that our cash flows, investment in foreign subsidiaries will be adversely affected by foreign currency exchange rate fluctuations. We enter into derivative instruments to partially offset our exposure to other risks and enhance investment returns.

We recognize derivative instruments in the Consolidated Balance Sheets at fair value and classify the derivatives primarily within Level 2 in the fair value hierarchy. We present our collar contracts (an option strategy comprising a combination of purchased and written options) at net fair values and present all other derivatives at gross fair value. Our accounting treatment for derivatives is based on the intended use and hedge designation.

Cash Flow Hedges

We designate foreign currency forward and option contracts (including collars) as cash flow hedges to hedge forecasted revenue transactions denominated in currencies other than the U.S. dollar. These contracts have maturities of 24 months or less.

Cash flow hedge amounts included in the assessment of hedge effectiveness are deferred in AOCI and subsequently reclassified to revenue when the hedged item is recognized in earnings. We exclude forward points and time value from our assessment of hedge effectiveness and amortize them on a straight-line basis over the life of the hedging instrument. The difference between fair value changes of the excluded component and the amount amortized is recorded in AOCI.

As of December 31, 2023, the net accumulated gain on our foreign currency cash flow hedges before tax effect was \$47 million, which is expected to be reclassified from AOCI into revenues within the next 12 months.

Fair Value Hedges

We designate foreign currency forward contracts as fair value hedges to hedge foreign currency risks for our marketable securities denominated in currencies other than the U.S. dollar. Fair value hedge amounts included in the assessment of hedge effectiveness are recognized in OI&E, along with the offsetting gains and losses of the hedged items. We exclude forward points from the assessment of hedge effectiveness and recognize changes in the excluded component in OI&E.

Net Investment Hedges

We designate foreign currency forward contracts as net investment hedges to hedge the foreign currency risk related to our investment in foreign subsidiaries. Net investment hedge amounts included in the assessment of hedge effectiveness are recognized in AOCI along with the foreign currency translation adjustment. We exclude forward points from the assessment of hedge effectiveness and recognize changes in the excluded component in OI&E.

Other Derivatives

We enter into foreign currency forward and option contracts that are not designated as hedging instruments for intercompany transactions and other monetary assets or liabilities denominated in currencies other than the currency of a subsidiary. Gains and losses on these derivatives that are not designated as accounting hedges are recorded in OI&E along with the foreign currency gains and losses on monetary assets and liabilities.

We also use derivatives not designated as hedging instruments to manage risks relating to interest rates, commodity prices, and credit risk.

prices, credit exposures, and to enhance investment returns. From time to time, we enter into derivatives to manage market price risk on certain of our marketable equity securities. Gains and losses arising from other derivatives are primarily reflected within the “other” component of OI&E. See Note 7 for further details.

68.

Table of Contents Alphabet Inc.

The gross notional amounts of outstanding derivative instruments were as follows (in millions):

As of December 31,

2022 2023

Derivatives designated as hedging instruments:

Foreign exchange contracts

Cash flow hedges \$ 15,972 \$ 18,039

Fair value hedges \$ 2,117 \$ 2,065

Net investment hedges \$ 8,751 \$ 9,472

Derivatives not designated as hedging instruments:

Foreign exchange contracts \$ 34,979 \$ 39,722

Other contracts \$ 7,932 \$ 10,818

The fair values of outstanding derivative instruments were as follows (in millions):

As of December 31, 2022 As of December 31, 2023

Assets(1) Liabilities(2) Assets(1) Liabilities(2)

Derivatives designated as hedging instruments:

Foreign exchange contracts \$ 271 \$ 556 \$ 205 \$ 242

Derivatives not designated as hedging

instruments:

Foreign exchange contracts 365 207 134 156

Other contracts 40 47 114 47

Total derivatives not designated as hedging

instruments 405 254 248 203

Total \$ 676 \$ 810 \$ 453 \$ 445

(1) Derivative assets are recorded as other current and non-current assets in the Consolidated Balance Sheet.

(2) Derivative liabilities are recorded as accrued expenses and other liabilities, current and non-current in the Consolidated Balance Sheet.

The gains (losses) on derivatives in cash flow hedging and net investment hedging relationships recognized in other comprehensive income (OCI) are summarized below (in millions):

Year Ended December 31,

2021 2022 2023

Derivatives in cash flow hedging relationship:

Foreign exchange contracts

Amount included in the assessment of effectiveness \$ 806 \$ 1,699 \$ 90

Amount excluded from the assessment of effectiveness 48 (188) 84

Derivatives in net investment hedging relationship:

Foreign exchange contracts

Amount included in the assessment of effectiveness 754 608 (287)

Total \$ 1,608 \$ 2,119 \$ (113)

69.

Table of Contents Alphabet Inc.

The table below presents the gains (losses) of our derivatives on the Consolidated Statements of Income: (in millions):

Year Ended December 31,

2021 2022 2023

Other income Other income Other income

Revenues (expense), net Revenues (expense), net Revenues (expense), net

Total amounts in the Consolidated Statements of

Income \$ 257,637 \$ 12,020 \$ 282,836 \$ (3,514) \$ 307,394 \$ 1,424

Effect of cash flow hedges:

Foreign exchange contracts

Amount reclassified from AOCI to income \$ 165 \$ 0 \$ 2,046 \$ 0 \$ 213 \$ 0

Amount excluded from the assessment of  
effectiveness (amortized) (16) 0 (85) 0 24 0

Effect of fair value hedges:

Foreign exchange contracts

Hedged items 0 (95) 0 (162) 0 59

Derivatives designated as hedging

instruments 0 95 0 163 0 (59)

Amount excluded from the assessment of  
effectiveness 0 8 0 16 0 15

Effect of net investment hedges:

Foreign exchange contracts

Amount excluded from the assessment of  
effectiveness 0 82 0 171 0 187

Effect of non designated hedges:

Foreign exchange contracts 0 (860) 0 (395) 0 7

Other contracts 0 101 0 144 0 53

Total gains (losses) \$ 149 \$ (669) \$ 1,961 \$ (63) \$ 237 \$ 262

Offsetting of Derivatives

We enter into master netting arrangements and collateral security arrangements to reduce credit risk. Cash and non-cash collateral received related to derivative instruments under our collateral security arrangements are included in other current assets with a corresponding liability. Cash and non-cash collateral pledged related to derivative instruments under our collateral security arrangements are included in other current assets.

70.

Table of Contents Alphabet Inc.

The gross amounts of derivative instruments subject to master netting arrangements with various counterparties and cash and non-cash collateral received and pledged under such agreements were as follows (in millions)

As of December 31, 2022

Gross Amounts Not Offset in the

Consolidated Balance Sheets,

but Have Legal Rights to Offset

Net Amounts Cash and Non-

Gross Amounts Presented in Cash

Offset in the the Collateral

Gross Amounts Consolidated Consolidated Financial Received or

Recognized Balance Sheets Balance Sheets Instruments(1) Pledged Net Amounts

Derivatives assets \$ 760 \$ (84) \$ 676 \$ (463) \$ (132) \$ 81

Derivatives liabilities \$ 894 \$ (84) \$ 810 \$ (463) \$ (28) \$ 319

As of December 31, 2023

Gross Amounts Not Offset in the

Consolidated Balance Sheets,

but Have Legal Rights to Offset

Net Amounts Cash and Non-

Gross Amounts Presented in Cash

Offset in the the Collateral

Gross Amounts Consolidated Consolidated Financial Received or  
Recognized Balance Sheets Balance Sheets Instruments(1) Pledged Net Amounts

Derivatives assets \$ 535 \$ (82) \$ 453 \$ (213) \$ (75) \$ 165

Derivatives liabilities \$ 527 \$ (82) \$ 445 \$ (213) \$ (16) \$ 216

(1) The balances as of December 31, 2022 and 2023 were related to derivatives allowed to be net settled in netting agreements.

#### Note 4. Leases

We have entered into operating lease agreements primarily for data centers, land, and offices throughout the world with lease periods expiring between 2024 and 2063.

Components of operating lease expense were as follows (in millions):

Year Ended December 31,

2021 2022 2023

Operating lease cost \$ 2,699 \$ 2,900 \$ 3,362

Variable lease cost 726 838 1,182

Total operating lease cost \$ 3,425 \$ 3,738 \$ 4,544

Supplemental information related to operating leases was as follows (in millions):

Year Ended December 31,

2021 2022 2023

Cash payments for operating leases \$ 2,489 \$ 2,722 \$ 3,173

New operating lease assets obtained in exchange for operating

lease liabilities \$ 2,951 \$ 4,383 \$ 2,877

71.

#### Table of Contents Alphabet Inc.

As of December 31, 2023, our operating leases had a weighted average remaining lease term of 8.1 years and a weighted average discount rate of 3.1%. Future lease payments under operating leases as of December 31, 2023, were as follows (in millions):

2024 \$ 3,179

2025 2,929

2026 2,450

2027 1,951

2028 1,488

Thereafter 5,685

Total future lease payments 17,682

Less imputed interest (2,431)

Total lease liability balance \$ 15,251

As of December 31, 2023, we have entered into leases that have not yet commenced with short-term and long-term future lease payments of \$657 million and \$3.3 billion that are not yet recorded on our Consolidated Balance Sheet. These leases will commence between 2024 and 2026 with non-cancelable lease terms between one and 25 years.

Note 5. Variable Interest Entities

#### Consolidated Variable Interest Entities

We consolidate VIEs in which we hold a variable interest and are the primary beneficiary. The results of operations and financial position of these VIEs are included in our consolidated financial statements.

For certain consolidated VIEs, their assets are not available to us and their creditors do not have recourse to the assets of Alphabet Inc.

As of December 31, 2022 and 2023, assets that can only be used to settle obligations of these VIEs were \$4.1 billion and \$4.1 billion, respectively, and the liabilities for which creditors only have recourse to the VIEs were \$2.6 billion and \$2.6 billion, respectively. We may continue to fund ongoing operations of certain VIEs that are included within Other Bets.

Total noncontrolling interests (NCI) in our consolidated subsidiaries were \$3.8 billion and \$3.4 billion as of December 31, 2022 and 2023, respectively, of which \$1.1 billion is redeemable noncontrolling interest (RNCI).

NCI and RNCI are included within additional paid-in capital. Net loss attributable to noncontrolling interests was not material for any period presented and is included within the "other" component of OI&E. See Note 7 for further details.

on OI&E.

#### Unconsolidated Variable Interest Entities

We have investments in VIEs in which we are not the primary beneficiary. These VIEs include private companies that are primarily early stage companies and certain renewable energy entities in which activities involve power generation using renewable sources.

We have determined that the governance structures of these entities do not allow us to direct the activities that could significantly affect their economic performance. Therefore, we are not the primary beneficiary, and the results of operations and financial position of these VIEs are not included in our consolidated financial statements. We account for these investments primarily as non-marketable equity securities or equity method investments.

The maximum exposure of these unconsolidated VIEs is generally based on the current carrying value of these investments and any future funding commitments. The maximum exposure and carrying value of these unconsolidated VIEs were \$2.8 billion and \$2.7 billion, respectively, as of December 31, 2022 and \$5.7 billion and \$4.0 billion, respectively, as of December 31, 2023. The difference between the maximum exposure and the carrying value relates primarily to future funding commitments.

#### Note 6. Debt

##### Short-Term Debt

We have a debt financing program of up to \$10.0 billion through the issuance of commercial paper. Net proceeds from this program are used for general corporate purposes. We had no commercial paper outstanding as of December 31, 2022 and 2023.

Our short-term debt balance also includes the current portion of certain long-term debt.

72.

#### Table of Contents Alphabet Inc.

##### Long-Term Debt

Total outstanding debt is summarized below (in millions, except percentages):

As of December 31,

Effective Interest

Maturity Coupon Rate Rate 2022 2023

Debt

2014-2020 Notes issuances 2024 - 2060 0.45% - 3.38% 0.57% - 3.38% \$ 13,000 \$ 13,000

Future finance lease payments, net and

other (1) 2,142 1,746

Total debt 15,142 14,746

Unamortized discount and debt issuance

costs (143) (130)

Less: Current portion of long-term

notes(2) 0 (1,000)

Less: Current portion of future finance

lease payments, net and other current

debt(1)(2) (298) (363)

Total long-term debt \$ 14,701 \$ 13,253

(1) Future finance lease payments are net of imputed interest.

(2) Total current portion of long-term debt is included within other accrued expenses and current liabilities. See Note 7 for details.

The notes in the table above are fixed-rate senior unsecured obligations and generally rank equally with each other. We may redeem the notes at any time in whole or in part at specified redemption prices. The effective interest rate is based on proceeds received with interest payable semi-annually.

The total estimated fair value of the outstanding notes was approximately \$9.9 billion and \$10.3 billion as of December 31, 2022 and December 31, 2023, respectively. The fair value was determined based on observable market prices of identical instruments in less active markets and is categorized accordingly as Level 2 in the fair value hierarchy. As of December 31, 2023, the aggregate future principal payments for long-term debt, including finance lease

liabilities, for each of the next five years and thereafter were as follows (in millions):

2024 \$ 1,299

2025 1,163

2026 2,165

2027 1,143

2028 132

Thereafter 8,960

Total \$ 14,862

#### Credit Facility

As of December 31, 2023, we had \$10.0 billion of revolving credit facilities, of which \$4.0 billion expires in April 2024 and \$6.0 billion expires in April 2028. The interest rates for all credit facilities are determined based on a formula based on certain market rates, as well as our progress toward the achievement of certain sustainability goals. No amounts were outstanding under the credit facilities as of December 31, 2022 and 2023.

#### Note 7. Supplemental Financial Statement Information

##### Accounts Receivable

The allowance for credit losses on accounts receivable was \$754 million and \$771 million as of December 31, 2022 and 2023, respectively.

73.

#### Table of Contents Alphabet Inc.

##### Property and Equipment, Net

Property and equipment, net, consisted of the following (in millions):

As of December 31,

2022 2023

Land and buildings \$ 66,897 \$ 74,083

Information technology assets 66,267 80,594

Construction in progress 27,657 35,229

Leasehold improvements 10,575 11,425

Furniture and fixtures 314 472

Property and equipment, gross 171,710 201,803

Less: accumulated depreciation (59,042) (67,458)

Property and equipment, net \$ 112,668 \$ 134,345

Our technical infrastructure is comprised of information technology assets, including servers and networking equipment, and data center land and buildings.

##### Accrued Expenses and Other Current Liabilities

Accrued expenses and other current liabilities consisted of the following (in millions):

As of December 31,

2022 2023

European Commission fines(1) \$ 9,106 \$ 9,525

Accrued purchases of property and equipment 3,019 4,679

Accrued customer liabilities 3,619 4,140

Current operating lease liabilities 2,477 2,791

Income taxes payable, net 1,632 2,748

Other accrued expenses and current liabilities 18,013 22,285

Accrued expenses and other current liabilities \$ 37,866 \$ 46,168

(1) While each EC decision is under appeal, the fines are included in accrued expenses and other current liabilities on our Balance Sheets, as we provided bank guarantees (in lieu of a cash payment) for the fines. Amounts include principal, exchange and interest. See Note 10 for further details.

74.

#### Table of Contents Alphabet Inc.

##### Accumulated Other Comprehensive Income (Loss)

Components of AOCI, net of income tax, were as follows (in millions):

Unrealized Gains

Foreign Currency (Losses) on Unrealized Gains

Translation Available-for-Sale (Losses) on Cash

Adjustments Investments Flow Hedges Total

Balance as of December 31, 2020 \$ (864) \$ 1,612 \$ (115) \$ 633

Other comprehensive income (loss) before  
reclassifications (1,442) (1,312) 668 (2,086)

Amounts excluded from the assessment of  
hedge effectiveness recorded in AOCI 0 0 48 48

Amounts reclassified from AOCI 0 (64) (154) (218)

Other comprehensive income (loss) (1,442) (1,376) 562 (2,256)

Balance as of December 31, 2021 (2,306) 236 447 (1,623)

Other comprehensive income (loss) before  
reclassifications (1,836) (4,720) 1,463 (5,093)

Amounts excluded from the assessment of  
hedge effectiveness recorded in AOCI 0 0 (188) (188)

Amounts reclassified from AOCI 0 1,007 (1,706) (699)

Other comprehensive income (loss) (1,836) (3,713) (431) (5,980)

Balance as of December 31, 2022 (4,142) (3,477) 16 (7,603)

Other comprehensive income (loss) before  
reclassifications 735 1,344 84 2,163

Amounts excluded from the assessment of  
hedge effectiveness recorded in AOCI 0 0 84 84

Amounts reclassified from AOCI 0 1,168 (214) 954

Other comprehensive income (loss) 735 2,512 (46) 3,201

Balance as of December 31, 2023 \$ (3,407) \$ (965) \$ (30) \$ (4,402)

The effects on net income of amounts reclassified from AOCI were as follows (in millions):

Gains (Losses) Reclassified from AOCI to the

Consolidated Statements of Income

Year Ended December 31,

AOCI Components Location 2021 2022 2023

Unrealized gains (losses) on available-for-sale investments

Other income (expense), net \$ 82 \$ (1,291) \$ (1,497)

Benefit (provision) for income  
taxes (18) 284 329

Net of income tax 64 (1,007) (1,168)

Unrealized gains (losses) on cash flow hedges

Foreign exchange contracts Revenue 165 2,046 213

Interest rate contracts Other income (expense), net 6 6 6

Benefit (provision) for income  
taxes (17) (346) (5)

Net of income tax 154 1,706 214

Total amount reclassified, net of income tax \$ 218 \$ 699 \$ (954)

75.

Table of Contents Alphabet Inc.

Other Income (Expense), Net

Components of OI&E were as follows (in millions):

Year Ended December 31,

2021 2022 2023

Interest income \$ 1,499 \$ 2,174 \$ 3,865

Interest expense(1) (346) (357) (308)

Foreign currency exchange gain (loss), net (240) (654) (1,238)

Gain (loss) on debt securities, net (110) (2,064) (1,215)

Gain (loss) on equity securities, net 12,380 (3,455) 392

Performance fees (1,908) 798 257

Income (loss) and impairment from equity method investments, net 334 (337) (628)

Other 411 381 299

Other income (expense), net \$ 12,020 \$ (3,514) \$ 1,424

(1) Interest expense is net of interest capitalized of \$163 million, \$128 million, and \$181 million for the years 2022, and 2023, respectively.

#### Note 8. Workforce Reduction and Other Initiatives

We have a company-wide effort underway to re-engineer our cost base. As part of this program, in January 2023, we announced a reduction of our workforce. As a result, total employee severance and related charges recorded for the year ended December 31, 2023 were \$2.1 billion. Substantially all of the employees affected were no longer employed as of December 31, 2023.

In addition, we are taking actions to optimize our global office space. As a result, exit charges recorded during the year ended December 31, 2023, were \$1.8 billion as reflected in the table below. In addition to these exit charges, for the year ended December 31, 2023, we incurred \$269 million in accelerated rent and accelerated depreciation, which are included in the table below.

Severance and office space exit charges are included within our consolidated statements of income as follows (in millions):

Year Ended December 31, 2023

Severance and

Related (1) Office Space Total

Cost of revenues \$ 479 \$ 481 \$ 960

Research and development 848 870 1,718

Sales and marketing 497 257 754

General and administrative 264 237 501

Total charges \$ 2,088 \$ 1,845 \$ 3,933

(1) Severance includes amounts to be settled in cash, accounted for as one-time involuntary employee termination charges. For segment reporting, the substantial majority of these charges are included within Alphabet-level activities and are not included in segment results.

For the year ended December 31, 2023, changes in liabilities resulting from the severance charges and related accruals were as follows (in millions):

Severance and

Related

Balance as of December 31, 2022 \$ 0

Charges(1) 1,656

Cash payments (1,579)

Balance as of December 31, 2023(2) \$ 77

(1) Excludes non-cash SBC of \$432 million.

(2) Included in accrued compensation and benefits on the Consolidated Balance Sheets.

76. Table of Contents Alphabet Inc.

#### Note 9. Goodwill

Changes in the carrying amount of goodwill for the years ended December 31, 2022 and 2023 were as follows (in millions):

Google

Services Google Cloud Other Bets Total



Balance as of December 31, 2021 \$ 19,826 \$ 2,337 \$ 793 \$ 22,956  
 Acquisitions 1,176 4,876 119 6,171  
 Foreign currency translation and other adjustments (155) (8) (4) (167)  
 Balance as of December 31, 2022 20,847 7,205 908 28,960  
 Acquisitions 240 3 0 243  
 Foreign currency translation and other adjustments 31 (9) (27) (5)  
 Balance as of December 31, 2023 \$ 21,118 \$ 7,199 \$ 881 \$ 29,198

#### Note 10. Commitments and Contingencies

##### Commitments

We have content licensing agreements with future fixed or minimum guaranteed commitments of \$10.6 billion as of December 31, 2023, of which the majority is paid over seven years ending in the first quarter of 2030.

##### Indemnifications

In the normal course of business, including to facilitate transactions in our services and products and corporate activities, we indemnify certain parties, including advertisers, Google Network partners, distribution partners, Google Cloud offerings, lessors, and service providers with respect to certain matters. We have agreed to defend and hold certain parties harmless against losses arising from a breach of representations or covenants, or out of property infringement or other claims made against certain parties. Several of these agreements limit the time an indemnification claim can be made and the amount of the claim. In addition, we have entered into indemnification agreements with our officers and directors, and our bylaws contain similar indemnification obligations to our officers. It is not possible to make a reasonable estimate of the maximum potential amount under these indemnification agreements due to the unique facts and circumstances involved in each particular agreement. Additionally, the amounts we have made under such agreements have not had a material adverse effect on our results of operations, or financial position. However, to the extent that valid indemnification claims arise in the future, future payments could be significant and could have a material adverse effect on our results of operations or cash flows in a particular period. As of December 31, 2023, we did not have any material indemnification claims that were probable or reasonably possible.

##### Legal Matters

We record a liability when we believe that it is probable that a loss has been incurred, and the amount can be reasonably estimated. If we determine that a loss is reasonably possible and the loss or range of loss can be reasonably estimated, we disclose the reasonably possible loss. We evaluate developments in our legal matters that could affect the amount of a liability that has been previously accrued, and the matters and related reasonably possible losses disclosed, and make adjustments as appropriate.

Certain outstanding matters seek speculative, substantial or indeterminate monetary amounts, substantial changes to our business practices and products, or structural remedies. Significant judgment is required to determine the likelihood of there being a loss and the estimated amount of a loss related to such matters, and we may be unable to estimate the reasonably possible loss or range of losses. The outcomes of outstanding legal matters are inherently unpredictable and subject to significant uncertainties, and could, either individually or in aggregate, have a material adverse effect.

We expense legal fees in the period in which they are incurred.

77.

#### Table of Contents Alphabet Inc.

##### Antitrust Investigations

On November 30, 2010, the EC's Directorate General for Competition opened an investigation into various antitrust related complaints against us.

On June 27, 2017, the EC announced its decision that certain actions taken by Google regarding its display advertising ranking of shopping search results and ads infringed European competition law. The EC decision imposed a €2.7 billion (approximately \$2.7 billion as of June 27, 2017) fine. On September 11, 2017, we appealed the EC decision to the General Court. On September 27, 2017, we implemented product changes to bring shopping ads into compliance with the EC's decision. In September 2017, we recognized a charge of \$2.7 billion for the fine in the second quarter of 2017. On November 10, 2021, the General Court rejected our appeal, and we subsequently filed an appeal with the European Court of Justice on January 20, 2022.

On July 18, 2018, the EC announced its decision that certain provisions in Google's Android-related distribution agreements infringed European competition law. The EC decision imposed a €4.3 billion (\$5.1 billion as of July 18, 2018) fine and directed the termination of the conduct at issue. On October 9, 2018, we appealed the EC decision. On October 29, 2018, we implemented changes to certain of our Android distribution practices. On September 1, 2019, the General Court reduced the fine from €4.3 billion to €4.1 billion. We subsequently filed an appeal with the European Court of Justice. In 2018, we recognized a charge of \$5.1 billion for the fine, which we reduced by \$217 million in 2019. On March 20, 2019, the EC announced its decision that certain contractual provisions in agreements that Google entered into with AdSense for Search partners infringed European competition law. The EC decision imposed a fine of €1.1 billion as of March 20, 2019) and directed actions related to AdSense for Search partners' agreements, which we implemented prior to the decision. On June 4, 2019, we appealed the EC decision. We recognized a charge of \$1.1 billion for the fine in the first quarter of 2019.

From time to time we are subject to formal and informal inquiries and investigations on various competition and consumer regulatory authorities in the U.S., Europe, and other jurisdictions globally. Examples, for which we have not yet been able to estimate a possible loss, include:

- In August 2019, we began receiving civil investigative demands from the U.S. Department of Justice (DOJ) requesting information and documents relating to our prior antitrust investigations and certain aspects of our business. The DOJ and a number of state Attorneys General filed a lawsuit in the U.S. District Court for the District of Columbia on October 20, 2020 alleging that Google violated U.S. antitrust laws relating to Search and Search advertising. The trial ended on November 16, 2023, and we expect a decision in 2024. Further, in June 2022, the Australian Competition and Consumer Commission (ACCC) and the United Kingdom's Competition and Markets Authority (CMA) each opened an investigation into Search distribution practices.
- On December 16, 2020, a number of state Attorneys General filed an antitrust complaint in the U.S. District Court for the Eastern District of Texas, alleging that Google violated U.S. antitrust laws as well as state deceptive trade practices laws relating to its advertising technology, and a trial is scheduled for March 2025. Additionally, on January 2, 2023, the DOJ, along with a number of state Attorneys General, filed an antitrust complaint in the U.S. District Court for the Eastern District of Virginia alleging that Google's digital advertising technology products violate U.S. antitrust laws, and on April 17, 2023, a number of additional state Attorneys General joined the complaint. The DOJ, the CMA, and the ACCC each opened a formal investigation into Google's advertising technology business practices on June 22, 2021, May 25, 2022, and June 29, 2022, respectively. On June 14, 2023, the EC issued a Statement of Objections (SO) informing Google of its preliminary view that Google violated European antitrust laws relating to its advertising technology. We responded to the SO on December 1, 2023.
- On July 7, 2021, a number of state Attorneys General filed an antitrust complaint in the U.S. District Court for the Northern District of California, alleging that Google's operation of Android and Google Play violated U.S. antitrust laws and state antitrust and consumer protection laws. In September 2023, we reached a settlement in principle with 50 state Attorneys General and three territories. The U.S. District Court subsequently vacated the trial court judgment with the states, and any final approval of the settlement is expected to occur in 2024. In May 2022, the EC and the CMA each opened investigations into Google Play's business practices. Korean regulators are investigating Google Play's billing practices, including a formal review in May 2022 of Google's compliance with the new app store billing regulations.

We believe we have strong arguments against these claims and will defend ourselves vigorously. We continue to cooperate with federal and state regulators in the U.S., the EC, and other regulators around the world.

78.

Table of Contents Alphabet Inc.

Privacy Matters

We are subject to a number of privacy-related laws and regulations, and we currently are party to a number of investigations and lawsuits ongoing in multiple jurisdictions. For example, there are ongoing investigations around the U.S. and the EU, including those relating to our collection and use of location information and advertising practices, which could result in significant fines, judgments, and product changes.

Patent and Intellectual Property Claims

We have had patent, copyright, trade secret, and trademark infringement lawsuits filed against us claiming that

of our products, services, and technologies infringe others' intellectual property rights. Adverse results in the may include awards of substantial monetary damages, costly royalty or licensing agreements, or orders preventing offering certain features, functionalities, products, or services. As a result, we may have to change our business and develop non-infringing products or technologies, which could result in a loss of revenues for us and other our business. In addition, the U.S. International Trade Commission (ITC) has increasingly become an important litigate intellectual property disputes because an ultimate loss in an ITC action can result in a prohibition on infringing products into the U.S. Because the U.S. is an important market, a prohibition on importation could have an adverse effect on us, including preventing us from importing many important products into the U.S. or necessitating workarounds that may limit certain features of our products.

Furthermore, many of our agreements with our customers and partners require us to indemnify them against intellectual property infringement claims, which would increase our costs as a result of defending such claims. We also require that we pay significant damages if there were an adverse ruling in any such claims. In addition, our customers and partners may discontinue the use of our products, services, and technologies, as a result of injunctions or other legal actions, which could result in loss of revenues and adversely affect our business.

#### Other

We are subject to claims, lawsuits, regulatory and government investigations, other proceedings, and consent orders involving competition, intellectual property, data security, tax and related compliance, labor and employment matters, disputes, content generated by our users, goods and services offered by advertisers or publishers using our services, personal injury, consumer protection, and other matters. For example, in December 2023, a California jury delivered a verdict in Epic Games v. Google finding that Google violated antitrust laws related to Google Play's business practices. The judge will determine remedies in 2024, and the range of potential remedies vary widely. We plan to appeal. We also periodically have data incidents that we report to relevant regulators as required by law.

These claims, consent orders, lawsuits, regulatory and government investigations, and other proceedings could result in substantial fines and penalties, injunctive relief, ongoing monitoring and auditing obligations, changes to our products and services, alterations to our business models and operations, and collateral related civil litigation or other legal consequences, all of which could harm our business, reputation, financial condition, and operating results. We have ongoing legal matters relating to Russia. For example, civil judgments that include compounding penalties have been imposed upon us in connection with disputes regarding the termination of accounts, including those of sanctioned parties. We do not believe these ongoing legal matters will have a material adverse effect.

#### Non-Income Taxes

We are under audit by various domestic and foreign tax authorities with regards to non-income tax matters. The primary subject matter of non-income tax audits primarily arises from disputes on the tax treatment and tax rate applicable to the use of our products and services in these jurisdictions and the tax treatment of certain employee benefits. We accrue for income taxes that may result from examinations by, or any negotiated agreements with, these tax authorities. The amount is probable and reasonably estimable. If we determine that a loss is reasonably possible and the loss or range of loss is not reasonably estimable, we disclose the reasonably possible loss. Due to the inherent complexity and uncertainty of these audits and the judicial process in certain jurisdictions, the final outcome may be materially different from our expectations. See, Note 14 for information regarding income tax contingencies.

79.

#### Table of Contents Alphabet Inc.

#### Note 11. Stockholders' Equity

##### Class A and Class B Common Stock and Class C Capital Stock

Our Board of Directors has authorized three classes of stock, Class A and Class B common stock, and Class C capital stock. The rights of the holders of each class of our common and capital stock are identical, except with respect to voting. Each share of Class A common stock is entitled to one vote per share. Each share of Class B common stock is entitled to 10 votes per share. Class C capital stock has no voting rights, except as required by applicable law. Class B common stock may be converted at any time at the option of the stockholder and automatically converts into or transfer to Class A common stock.

##### Share Repurchases

In the years ended December 31, 2021, 2022, and 2023, we repurchased \$50.3 billion, \$59.3 billion, and \$6.0 billion, respectively, of our common stock.

respectively, of Alphabet's Class A and Class C shares.

In April 2023, the Board of Directors of Alphabet authorized the company to repurchase up to an additional \$70.0 billion of its Class A and Class C shares. As of December 31, 2023, \$36.3 billion remains available for Class C share repurchases.

The following table presents Class A and Class C shares repurchased and subsequently retired (in millions):  
Year Ended December 31, 2022 Year Ended December 31, 2023

Shares Amount Shares Amount

Class A share repurchases 61 \$ 6,719 78 \$ 9,316

Class C share repurchases 469 52,577 450 52,868

Total share repurchases(1) 530 \$ 59,296 528 \$ 62,184

(1) Shares repurchased include unsettled repurchases as of December 31, 2023.

Class A and Class C shares are repurchased in a manner deemed in the best interest of the company and its stockholders, taking into account the economic cost and prevailing market conditions, including the relative time and volumes of the Class A and Class C shares. Repurchases are executed from time to time, subject to general and market conditions and other investment opportunities, through open market purchases or privately negotiated transactions, including through Rule 10b5-1 plans. The repurchase program does not have an expiration date.

Note 12. Net Income Per Share

We compute net income per share of Class A, Class B, and Class C stock using the two-class method. Basic net income per share is computed using the weighted-average number of shares outstanding during the period. Diluted net income per share is computed using the weighted-average number of shares and the effect of potentially dilutive securities outstanding during the period. Potentially dilutive securities consist of RSUs and other contingently issuable shares. The dilutive effect of outstanding RSUs and other contingently issuable shares is reflected in diluted earnings per share through the application of the treasury stock method. The computation of the diluted net income per share of Class A stock assumes the conversion of Class B stock, while the diluted net income per share of Class B stock does not assume the conversion of those shares.

The rights, including the liquidation and dividend rights, of the holders of our Class A, Class B, and Class C stock are identical, except with respect to voting. Furthermore, there are a number of safeguards built into our certificate of incorporation, as well as Delaware law, which preclude our Board of Directors from declaring or paying unequal dividends on our Class A, Class B, and Class C stock. Specifically, Delaware law provides that amendments to our certificate of incorporation which would have the effect of adversely altering the rights, powers, or preferences of any class of stock must be approved by the class of stock adversely affected by the proposed amendment. In addition, our certificate of incorporation provides that before any such amendment may be put to a stockholder vote, it must be approved by the unanimous consent of our Board of Directors. As a result, the undistributed earnings for each class are allocated based on the contractual participation rights of the Class A, Class B, and Class C stock as if the earnings for each year had been distributed. As the liquidation and dividend rights are identical, the undistributed earnings are distributed on a proportionate basis.

In the years ended December 31, 2021, 2022, and 2023, the net income per share amounts are the same for Class A, Class B, and Class C stock because the holders of each class are entitled to equal per share dividend distributions in liquidation in accordance with the Amended and Restated Certificate of Incorporation of Alphabet Inc.

Table of Contents Alphabet Inc.

The following table sets forth the computation of basic and diluted net income per share of Class A, Class B, and Class C stock (in millions, except per share amounts):

Year Ended December 31,

2021

Class A Class B Class C

Basic net income per share:

Numerator

Allocation of undistributed earnings \$ 34,200 \$ 5,174 \$ 36,659

Denominator

Number of shares used in per share computation 6,006 909 6,438

Basic net income per share \$ 5.69 \$ 5.69 \$ 5.69

Diluted net income per share:

Numerator

Allocation of undistributed earnings for basic computation \$ 34,200 \$ 5,174 \$ 36,659

Reallocation of undistributed earnings as a result of conversion of Class B to Class A shares 5,174 0 0

Reallocation of undistributed earnings (581) (77) 581

Allocation of undistributed earnings \$ 38,793 \$ 5,097 \$ 37,240

Denominator

Number of shares used in basic computation 6,006 909 6,438

Weighted-average effect of dilutive securities

Add:

Conversion of Class B to Class A shares outstanding 909 0 0

Restricted stock units and other contingently issuable shares 0 0 200

Number of shares used in per share computation 6,915 909 6,638

Diluted net income per share \$ 5.61 \$ 5.61 \$ 5.61

Year Ended December 31,

2022

Class A Class B Class C

Basic net income per share:

Numerator

Allocation of undistributed earnings \$ 27,518 \$ 4,072 \$ 28,382

Denominator

Number of shares used in per share computation 5,994 887 6,182

Basic net income per share \$ 4.59 \$ 4.59 \$ 4.59

Diluted net income per share:

Numerator

Allocation of undistributed earnings for basic computation \$ 27,518 \$ 4,072 \$ 28,382

Reallocation of undistributed earnings as a result of conversion of Class B to Class A shares 4,072 0 0

Reallocation of undistributed earnings (230) (30) 230

Allocation of undistributed earnings \$ 31,360 \$ 4,042 \$ 28,612

Denominator

Number of shares used in basic computation 5,994 887 6,182

Weighted-average effect of dilutive securities

Add:

Conversion of Class B to Class A shares outstanding 887 0 0

Restricted stock units and other contingently issuable shares 0 0 96

Number of shares used in per share computation 6,881 887 6,278

Diluted net income per share \$ 4.56 \$ 4.56 \$ 4.56

81.

Table of Contents Alphabet Inc.

Year Ended December 31,

2023

Class A Class B Class C

Basic net income per share:

Numerator

Allocation of undistributed earnings \$ 34,601 \$ 5,124 \$ 34,070

Denominator

Number of shares used in per share computation 5,922 877 5,831

Basic net income per share \$ 5.84 \$ 5.84 \$ 5.84

Diluted net income per share:

Numerator

Allocation of undistributed earnings for basic computation \$ 34,601 \$ 5,124 \$ 34,070

Reallocation of undistributed earnings as a result of conversion of Class B to Class A shares 5,124 0 0

Reallocation of undistributed earnings (287) (37) 287

Allocation of undistributed earnings \$ 39,438 \$ 5,087 \$ 34,357

Denominator

Number of shares used in basic computation 5,922 877 5,831

Weighted-average effect of dilutive securities

Add:

Conversion of Class B to Class A shares outstanding 877 0 0

Restricted stock units and other contingently issuable shares 0 0 92

Number of shares used in per share computation 6,799 877 5,923

Diluted net income per share \$ 5.80 \$ 5.80 \$ 5.80

Note 13. Compensation Plans

Stock Plans

Our stock plans include the Alphabet Amended and Restated 2021 Stock Plan ("Alphabet 2021 Stock Plan")

Other Bets stock-based plans. Under our stock plans, RSUs and other types of awards may be granted. Under

Alphabet 2021 Stock Plan, an RSU award is an agreement to issue shares of our Class C stock at the time they

vest. RSUs generally vest over four years contingent upon employment on the vesting date.

As of December 31, 2023, there were 723 million shares of Class C stock reserved for future issuance under

Alphabet 2021 Stock Plan.

Stock-Based Compensation

For the years ended December 31, 2021, 2022, and 2023, total SBC expense was \$15.7 billion, \$19.5 billion

\$22.1 billion, including amounts associated with awards we expect to settle in Alphabet stock of \$15.0 billion

and \$21.7 billion, respectively.

During the year ended December 31, 2023, total SBC expense includes \$432 million associated with workforce

reduction costs. See Note 8 for further details.

For the years ended December 31, 2021, 2022, and 2023, we recognized tax benefits on total SBC expense

are reflected in the provision for income taxes in the Consolidated Statements of Income, of \$3.1 billion, \$3.9

\$4.5 billion, respectively.

For the years ended December 31, 2021, 2022, and 2023, tax benefit realized related to awards vested or

during the period was \$5.9 billion, \$4.7 billion, and \$5.6 billion, respectively. These amounts do not include the

effects of stock-based awards, which primarily relate to the R&D tax credit.

Stock-Based Award Activities

82.

Table of Contents Alphabet Inc.

The following table summarizes the activities for unvested Alphabet RSUs for the year ended December 31,

millions, except per share amounts):

Unvested Restricted Stock Units

Weighted-

Average

Number of Grant-Date

Shares Fair Value

Unvested as of December 31, 2022 324 \$ 107.98

Granted 263 \$ 97.59

Vested (217) \$ 100.36

Forfeited/canceled (32) \$ 106.56

Unvested as of December 31, 2023 338 \$ 104.93

The weighted-average grant-date fair value of RSUs granted during the years ended December 31, 2021 and 2022, was \$97.46 and \$127.22, respectively. Total fair value of RSUs, as of their respective vesting dates, during the years ended December 31, 2021, 2022, and 2023, were \$28.8 billion, \$23.9 billion, and \$26.6 billion, respectively. As of December 31, 2023, there was \$33.5 billion of unrecognized compensation cost related to unvested RSUs. This amount is expected to be recognized over a weighted-average period of 2.5 years.

#### Note 14. Income Taxes

Income from continuing operations before income taxes consisted of the following (in millions):

Year Ended December 31,

2021 2022 2023

Domestic operations \$ 77,016 \$ 61,307 \$ 73,600

Foreign operations 13,718 10,021 12,117

Total \$ 90,734 \$ 71,328 \$ 85,717

Provision for income taxes consisted of the following (in millions):

Year Ended December 31,

2021 2022 2023

Current:

Federal and state \$ 10,126 \$ 17,120 \$ 17,125

Foreign 2,692 2,434 2,526

Total 12,818 19,554 19,651

Deferred:

Federal and state 2,018 (8,052) (7,482)

Foreign (135) (146) (247)

Total 1,883 (8,198) (7,729)

Provision for income taxes \$ 14,701 \$ 11,356 \$ 11,922

83.

Table of Contents Alphabet Inc.

The reconciliation of federal statutory income tax rate to our effective income tax rate was as follows:

Year Ended December 31,

2021 2022 2023

U.S. federal statutory tax rate 21.0 % 21.0 % 21.0 %

Foreign income taxed at different rates 0.2 3.0 0.3

Foreign-derived intangible income deduction (2.5) (5.4) (4.6)

Stock-based compensation expense (2.5) (1.2) (0.8)

Federal research credit (1.6) (2.2) (1.8)

Deferred tax asset valuation allowance 0.6 0.9 0.6

State and local income taxes 1.0 0.8 1.0

Effect of tax law change 0.0 0.0 (1.4)

Other 0.0 (1.0) (0.4)

Effective tax rate 16.2 % 15.9 % 13.9 %

In 2022, there was an increase in the U.S. Foreign Derived Intangible Income tax deduction from the effects of the Section 175 capitalization and amortization of R&D expenses starting in 2022 as required by the 2017 Tax Cuts and Jobs Act. In 2023, the IRS issued a rule change allowing taxpayers to temporarily apply the regulations in effect prior to 2022 related to U.S. federal foreign tax credits as well as a separate rule change with interim guidance on the capitalization and amortization of R&D expenses. A cumulative one-time adjustment applicable to the prior period for these tax effects was recorded in 2023.

#### Deferred Income Taxes

Deferred income taxes reflect the net effects of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. Significant components

deferred tax assets and liabilities were as follows (in millions):

As of December 31,

2022 2023

Deferred tax assets:

Accrued employee benefits \$ 955 \$ 1,855

Accruals and reserves not currently deductible 1,956 2,481

Tax credits 6,002 6,609

Net operating losses 2,557 2,965

Operating leases 2,711 3,526

Capitalized research and development(1) 10,381 17,757

Other 2,289 1,951

Total deferred tax assets 26,851 37,144

Valuation allowance (9,553) (10,999)

Total deferred tax assets net of valuation allowance 17,298 26,145

Deferred tax liabilities:

Property and equipment, net (6,607) (8,189)

Net investment gains (2,361) (2,405)

Operating leases (2,491) (2,965)

Other (1,092) (902)

Total deferred tax liabilities (12,551) (14,461)

Net deferred tax assets (liabilities) \$ 4,747 \$ 11,684

(1) As required by the 2017 Tax Cuts and Jobs Act, effective January 1, 2022, our research and development costs that were previously capitalized and amortized which resulted in substantially higher cash taxes starting in 2022 with an equal amount of tax benefit.

As of December 31, 2023, our federal, state, and foreign net operating loss carryforwards for income tax purposes were approximately \$7.1 billion, \$18.6 billion, and \$1.8 billion respectively. If not utilized, the federal net operating loss carryforwards will begin to expire in 2024, foreign net operating loss carryforwards will begin to expire in 2025 and the state net operating loss carryforwards will begin to expire in 2029. It is more likely than not that the net operating loss carryforwards will not be realized; therefore, we have recorded a valuation allowance against the net operating loss carryforwards. The net operating loss carryforwards are subject to various annual limitations under the tax laws of the different jurisdictions.

Table of Contents Alphabet Inc.

operating loss carryforwards will begin to expire in 2024, foreign net operating loss carryforwards will begin to expire in 2025 and the state net operating loss carryforwards will begin to expire in 2029. It is more likely than not that the net operating loss carryforwards will not be realized; therefore, we have recorded a valuation allowance against the net operating loss carryforwards. The net operating loss carryforwards are subject to various annual limitations under the tax laws of the different jurisdictions.

As of December 31, 2023, our Federal and California research and development credit carryforwards for income tax purposes were approximately \$600 million and \$6.3 billion, respectively. If not utilized, the Federal R&D credit will expire in 2037 and the California R&D credit can be carried over indefinitely. We believe the majority of the federal research and development credit and state tax credit is not likely to be realized.

As of December 31, 2023, our investment tax credit carryforwards for state income tax purposes were approximately \$1.0 billion and will begin to expire in 2029. We use the flow-through method of accounting for investment tax credits. We believe this tax credit is not likely to be realized.

As of December 31, 2023, we maintained a valuation allowance with respect to California deferred tax assets relating to federal net operating losses, certain state net operating losses and tax credits, net deferred tax assets relating to certain foreign net operating losses, and certain foreign net operating losses that we believe are not likely to be realized. We continue to evaluate the remaining valuation allowance quarterly, and if future evidence allows for a partial or full release of the valuation allowance, a tax benefit will be recorded accordingly.

Uncertain Tax Positions

The following table summarizes the activity related to our gross unrecognized tax benefits (in millions):

Year Ended December 31,

2021 2022 2023

Beginning gross unrecognized tax benefits \$ 3,837 \$ 5,158 \$ 7,055



Increases related to prior year tax positions 529 253 740

Decreases related to prior year tax positions (263) (437) (682)

Decreases related to settlement with tax authorities (329) (140) (21)

Increases related to current year tax positions 1,384 2,221 2,346

Ending gross unrecognized tax benefits \$ 5,158 \$ 7,055 \$ 9,438

We are subject to income taxes in the U.S. and foreign jurisdictions. Significant judgment is required in evaluating uncertain tax positions and determining our provision for income taxes. The total amount of gross unrecognized tax benefits was \$5.2 billion, \$7.1 billion, and \$9.4 billion as of December 31, 2021, 2022, and 2023, respectively. \$5.2 billion, \$5.3 billion, and \$7.4 billion, if recognized, would affect our effective tax rate, respectively.

As of December 31, 2022 and 2023, we accrued \$346 million and \$622 million in interest and penalties in provision for income taxes, respectively.

We file income tax returns in the U.S. federal jurisdiction and in many state and foreign jurisdictions. Our two primary tax jurisdictions are the U.S. federal and Ireland. We are subject to the continuous examination of our income tax returns by the IRS and other tax authorities. The IRS is currently examining our 2016 through 2021 tax returns. We have also received tax assessments in multiple foreign jurisdictions asserting transfer pricing adjustments or permanent establishment. We continue to defend such claims as presented.

The tax years 2016 through 2022 remain subject to examination by the appropriate governmental agencies for tax purposes. There are other ongoing audits in various other jurisdictions that are not material to our financial statements.

We regularly assess the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes. We continue to monitor the progress of ongoing discussions with tax authorities. The effect, if any, of the expected expiration of the statute of limitations in various taxing jurisdictions.

We believe that an adequate provision has been made for any adjustments that may result from tax examinations. However, the outcome of tax audits cannot be predicted with certainty. If any issues addressed in our tax audits are not resolved in a manner not consistent with management's expectations, we could be required to adjust our provision for income taxes in the period such resolutions occur. Although the timing of resolution, settlement, and closure of audits is uncertain, it is reasonably possible that our unrecognized tax benefits from certain U.S. federal, state, and non-U.S. tax positions could decrease by approximately \$700 million in the next 12 months. Positions that may be resolved include various U.S. and non-U.S. matters.

85.

Table of Contents Alphabet Inc.

Note 15. Information about Segments and Geographic Areas

We report our segment results as Google Services, Google Cloud, and Other Bets:

- Google Services includes products and services such as ads, Android, Chrome, devices, Google Maps, Google Play, Search, and YouTube. Google Services generates revenues primarily from advertising; fees received from consumer subscription-based products such as YouTube TV, YouTube Music and Premium, and NFL Sunday Ticket; the sale of apps and in-app purchases and devices.

- Google Cloud includes infrastructure and platform services, collaboration tools, and other services for enterprise customers. Google Cloud generates revenues primarily from consumption-based fees and subscriptions received for Google Cloud Platform services, Google Workspace communication and collaboration tools, and other enterprise services.

- Other Bets is a combination of multiple operating segments that are not individually material. Revenues from Other Bets are generated primarily from the sale of healthcare-related services and internet services.

Revenues, certain costs, such as costs associated with content and traffic acquisition, certain engineering and research and development, and devices, as well as certain operating expenses are directly attributable to our segments. Due to the integration of Alphabet, other costs and expenses, such as technical infrastructure and office facilities, are managed centrally at the consolidated level. These costs, including the associated depreciation and impairment, are allocated to operating segments as a service cost generally based on usage, headcount, or revenue.

Reflecting DeepMind's increasing collaboration with Google Services, Google Cloud, and Other Bets, beginning in the first quarter of 2023 DeepMind is reported as part of Alphabet-level activities instead of within Other Bets. As of the beginning in the first quarter of 2023, we updated and simplified our cost allocation methodologies to provide

leaders with increased transparency for decision-making. Prior periods have been recast to conform to the current presentation.

As announced on April 20, 2023, we brought together part of Google Research (the Brain team) and DeepMind to significantly accelerate our progress in artificial intelligence (AI). The group, called Google DeepMind, is reporting Alphabet-level activities prospectively beginning in the second quarter of 2023. Previously, the Brain team was within Google Services.

Certain costs are not allocated to our segments because they represent Alphabet-level activities. These costs primarily include AI-focused shared R&D activities, including development costs of our general AI models; corporate initiatives such as our philanthropic activities; corporate shared costs such as certain finance, human resources costs, including certain fines and settlements. Charges associated with reductions in our workforce and office space in 2023 were not allocated to our segments. Additionally, hedging gains (losses) related to revenue are not allocated to our segments.

Our operating segments are not evaluated using asset information.

The following table presents information about our segments (in millions):

Year Ended December 31,

2021 2022 2023

Revenues:

Google Services \$ 237,529 \$ 253,528 \$ 272,543

Google Cloud 19,206 26,280 33,088

Other Bets 753 1,068 1,527

Hedging gains (losses) 149 1,960 236

Total revenues \$ 257,637 \$ 282,836 \$ 307,394

Operating income (loss):

Google Services \$ 88,132 \$ 82,699 \$ 95,858

Google Cloud (2,282) (1,922) 1,716

Other Bets (4,051) (4,636) (4,095)

Alphabet-level activities (3,085) (1,299) (9,186)

Total income from operations \$ 78,714 \$ 74,842 \$ 84,293

See Note 2 for information relating to revenues by geography.

86.

Table of Contents Alphabet Inc.

The following table presents long-lived assets by geographic area, which includes property and equipment, net of accumulated depreciation and amortization, and operating lease assets (in millions):

As of December 31,

2022 2023

Long-lived assets:

United States \$ 93,565 \$ 110,053

International 33,484 38,383

Total long-lived assets \$ 127,049 \$ 148,436

87.

Table of Contents Alphabet Inc.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL STATEMENT DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our chief executive officer and chief financial officer, evaluated the effectiveness of our disclosure controls and procedures pursuant to Rule 13a-15 under the Exchange Act, as amended, for the period covered by this Annual Report on Form 10-K.

Based on this evaluation, our chief executive officer and chief financial officer concluded that, as of December 31, 2023, the disclosure controls and procedures were effective.

2023, our disclosure controls and procedures are designed at a reasonable assurance level and are effective to provide reasonable assurance that information we are required to disclose in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and regulations. Such information is accumulated and communicated to our management, including our chief executive officer and chief financial officer, as appropriate, to allow timely decisions regarding required disclosure.

#### Changes in Internal Control over Financial Reporting

There have been no changes in our internal control over financial reporting that occurred during the quarter ended December 31, 2023 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

#### Management's Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rule 13a-15(f) of the Exchange Act. Our management conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework). Based on this evaluation, management concluded that our internal control over financial reporting was effective as of December 31, 2023. Management reviewed the results of its assessment with our Audit and Compliance Committee. The effectiveness of our internal control over financial reporting as of December 31, 2023 has been audited by Ernst & Young LLP, a registered public accounting firm, as stated in its report which is included in Item 8 of this Annual Report on Form 10-K.

#### Limitations on Effectiveness of Controls and Procedures

In designing and evaluating the disclosure controls and procedures, management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving control objectives. In addition, the design of disclosure controls and procedures must reflect the fact that there are inherent constraints and that management is required to apply its judgment in evaluating the benefits of possible controls and procedures relative to their costs.

88.

#### Table of Contents Alphabet Inc.

#### ITEM 9B. OTHER INFORMATION

##### 10b5-1 Trading Plans

During the fiscal quarter ended December 31, 2023, the following Section 16 officer and directors adopted, modified or terminated a "Rule 10b5-1 trading arrangement" (as defined in Item 408 of Regulation S-K of the Exchange Act):

- John Hennessy, Chair of the Board of Directors, through the John L. Hennessy & Andrea J. Hennessy Revocable Trust, adopted a new trading plan on November 1, 2023 (with the first trade under the new plan scheduled for February 12, 2024). The trading plan will be effective until March 12, 2025 to sell 6,664 shares of Class C Capital Stock and 11,336 shares of Class A Common Stock.
- Ann Mather, former member of the Board of Directors, terminated her trading plan on October 30, 2023, which was effective with her resignation from the Board of Directors. The trading plan previously permitted the sale of 1,000 shares of Class C Capital Stock and would have been effective until June 2, 2024.
- Ruth M. Porat, President and Chief Investment Officer; Chief Financial Officer, adopted a new trading plan on November 30, 2023 (with the first trade under the new plan scheduled for March 8, 2024). The trading plan will be effective until March 8, 2025 to sell all of the (net) shares of up to 82,900 (gross) Class C Capital Stock issued upon the vesting of her Alphabet 2021 Performance Stock Units, as adjusted based on performance (net shares are net of tax withholding).

There were no "non-Rule 10b5-1 trading arrangements" (as defined in Item 408 of Regulation S-K of the Exchange Act) adopted, modified or terminated during the fiscal quarter ended December 31, 2023 by our directors and executive officers. Each of the Rule 10b5-1 trading arrangements are in accordance with our Policy Against Insider Trading. Actual sale transactions made pursuant to such trading arrangements will be disclosed publicly in Section 16 filings with the SEC in accordance with applicable securities laws, rules and regulations.

#### Required Disclosure Pursuant to Section 13(r) of the Exchange Act

As previously disclosed, Google LLC, a subsidiary of Alphabet, filed notifications with the Russian Federal Security Service pursuant to Russian encryption control requirements, which must be complied with prior to the imposition of

items. The information provided pursuant to Section 13(r) of the Exchange Act in Part II, Item 5 of our Quarterly Report on Form 10-Q for the quarter ended September 30, 2023 is incorporated herein by reference.

#### ITEM 9C. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS

Not applicable.

89.

Table of Contents Alphabet Inc.

### PART III

#### ITEM 10. DIRECTORS, EXECUTIVE OFFICERS, AND CORPORATE GOVERNANCE

The information required by this item will be included under the caption “Directors, Executive Officers, and Corporate Governance” in our Proxy Statement for the 2024 Annual Meeting of Stockholders to be filed with the SEC within 120 days of the fiscal year ended December 31, 2023 (2024 Proxy Statement) and is incorporated herein by reference. The information required by this item regarding delinquent filers pursuant to Item 405 of Regulation S-K will be included under the caption “Delinquent Section 16(a) Reports” in the 2024 Proxy Statement and is incorporated herein by reference.

#### ITEM 11. EXECUTIVE COMPENSATION

The information required by this item will be included under the captions “Director Compensation,” “Executive Compensation,” and “Directors, Executive Officers, and Corporate Governance—Corporate Governance and Compensation Committee Interlocks and Insider Participation” in the 2024 Proxy Statement and is incorporated herein by reference, except as to information disclosed therein pursuant to Item 402(v) of Regulation S-K relating to compensation performance.

#### ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by this item will be included under the captions “Common Stock Ownership of Certain Beneficial Owners and Management” and “Equity Compensation Plan Information” in the 2024 Proxy Statement and is incorporated herein by reference.

#### ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required by this item will be included under the captions “Certain Relationships and Related Transactions” and “Directors, Executive Officers, and Corporate Governance—Corporate Governance and Director Independence” in the 2024 Proxy Statement and is incorporated herein by reference.

#### ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The information required by this item will be included under the caption “Independent Registered Public Accounting Firm” in the 2024 Proxy Statement and is incorporated herein by reference.

90.

Table of Contents Alphabet Inc.

### PART IV

#### ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

We have filed the following documents as part of this Annual Report on Form 10-K:

##### 1. Consolidated Financial Statements

Reports of Independent Registered Public Accounting Firm 48

Financial Statements:

Consolidated Balance Sheets 51

Consolidated Statements of Income 52

Consolidated Statements of Comprehensive Income 53

Consolidated Statements of Stockholders’ Equity 54

Consolidated Statements of Cash Flows 55

Notes to Consolidated Financial Statements 56

##### 2. Financial Statement Schedules

Schedule II: Valuation and Qualifying Accounts

The table below details the activity of the allowance for credit losses and sales credits for the years ended December 31, 2021, 2022, and 2023 (in millions):

Balance at Balance at

Beginning of Year Additions Usage End of Year

Year ended December 31, 2021 \$ 1,344 \$ 2,092 \$ (2,047) \$ 1,389

Year ended December 31, 2022 \$ 1,389 \$ 2,125 \$ (2,301) \$ 1,213

Year ended December 31, 2023 \$ 1,213 \$ 3,115 \$ (2,737) \$ 1,591

Note: Additions to the allowance for credit losses are charged to expense. Additions to the allowance for sales and marketing expenses are charged to revenues.

All other schedules have been omitted because they are not required, not applicable, or the required information is otherwise included.

3. Exhibits

Incorporated by reference herein

Exhibit

Number Description Form Date

2.01 Agreement and Plan of Merger, dated October Current Report on Form 8-K October 2, 2015  
2, 2015, by and among Google Inc., the (File No. 001-37580)

Registrant and Maple Technologies Inc.

3.01 Amended and Restated Certificate of Current Report on Form 8-K June 3, 2022

Incorporation of the Registrant (File No. 001-37580)

3.02 Amended and Restated Bylaws of the Current Report on Form 8-K October 25, 2022

Registrant, dated October 19, 2022 (File No. 001-37580)

4.01 Specimen Class A Common Stock certificate Current Report on Form 8-K October 2, 2015  
(File No. 001-37580)

4.02 Specimen Class C Capital Stock certificate Current Report on Form 8-K October 2, 2015  
(File No. 001-37580)

4.03 Alphabet Inc. Deferred Compensation Plan Current Report on Form 8-K October 2, 2015  
(File No. 001-37580)

4.04 Transfer Restriction Agreement, dated October Current Report on Form 8-K October 2, 2015  
2, 2015, between the Registrant and Larry (File No. 001-37580)

Page and certain of his affiliates

4.05 Transfer Restriction Agreement, dated October Current Report on Form 8-K October 2, 2015  
2, 2015, between the Registrant and Sergey (File No. 001-37580)

Brin and certain of his affiliates

4.06 Joinder Agreement, dated December 31, 2021, Annual Report on Form 10-K February 2, 2022  
among the Registrant, Sergey Brin and certain (File No. 001-37580)

of his affiliates

91.

Table of Contents Alphabet Inc.

Incorporated by reference herein

Exhibit

Number Description Form Date

4.07 Transfer Restriction Agreement, dated October Current Report on Form 8-K October 2, 2015  
2, 2015, between the Registrant and Eric E. (File No. 001-37580)

Schmidt and certain of its affiliates

4.08 Class C Undertaking, dated October 2, 2015, Current Report on Form 8-K October 2, 2015  
executed by the Registrant (File No. 001-37580)

4.09 Indenture, dated February 12, 2016, between Registration Statement on Form February 12, 2016  
the Registrant and The Bank of New York S-3

Mellon Trust Company, N.A., as Trustee (File No. 333-209510)

4.10 Registrant Registration Rights Agreement Registration Statement on Form February 12, 2016  
dated December 14, 2015 S-3

(File No. 333-209518)

4.11 First Supplemental Indenture, dated April 27, Current Report on Form 8-K April 27, 2016  
2016, between the Registrant and The Bank of (File No. 001-37580)  
New York Mellon Trust Company, N.A., as  
trustee

4.12 Form of the Registrant's 3.375% Notes due  
2024 (included in Exhibit 4.11)

4.13 Form of the Registrant's 1.998% Note due Current Report on Form 8-K August 9, 2016  
2026 (File No. 001-37580)

4.14 Form of Global Note representing the Current Report on Form 8-K August 5, 2020  
Registrant's 0.450% notes due 2025 (File No. 001-37580)

4.15 Form of Global Note representing the Current Report on Form 8-K August 5, 2020  
Registrant's 0.800% notes due 2027 (File No. 001-37580)

4.16 Form of Global Note representing the Current Report on Form 8-K August 5, 2020  
Registrant's 1.100% notes due 2030 (File No. 001-37580)

4.17 Form of Global Note representing the Current Report on Form 8-K August 5, 2020  
Registrant's 1.900% notes due 2040 (File No. 001-37580)

4.18 Form of Global Note representing the Current Report on Form 8-K August 5, 2020  
Registrant's 2.050% notes due 2050 (File No. 001-37580)

4.19 Form of Global Note representing the Current Report on Form 8-K August 5, 2020  
Registrant's 2.250% notes due 2060 (File No. 001-37580)

4.20 Description of Registrant's Securities Annual Report on Form 10-K February 3, 2023  
(File No. 001-37580)

10.01 u Form of Indemnification Agreement entered Current Report on Form 8-K October 2, 2015  
into between the Registrant, its affiliates and (File No. 001-37580)  
its directors and officers

10.02 u \* Form of Offer Letter for Directors

10.03 u Offer Letter, dated March 20, 2015, between Current Report on Form 8-K March 26, 2015  
Ruth Porat and Google Inc., as assumed by (File No. 001-36380)  
the Registrant on October 2, 2015

10.04 u Compensation Plan Agreement, dated October Current Report on Form 8-K October 2, 2015  
2, 2015, between Google Inc. and the (File No. 001-37580)  
Registrant

10.05 u Director Arrangements Agreement, dated Current Report on Form 8-K October 2, 2015  
October 2, 2015, between Google Inc. and the (File No. 001-37580)  
Registrant

10.06 u Alphabet Inc. Deferred Compensation Plan Current Report on Form 8-K October 2, 2015  
(File No. 001-37580)

10.07 u Alphabet Inc. Amended and Restated 2012 Current Report on Form 8-K June 5, 2020  
Stock Plan (File No. 001-37580)

10.07.1 u Alphabet Inc. Amended and Restated 2012 Annual Report on Form 10-K February 4, 2020  
Stock Plan - Form of Alphabet Restricted (File No. 001-37580)  
Stock Unit Agreement

10.07.2 u Alphabet Inc. 2012 Stock Plan - Form of Quarterly Report on Form 10-Q November 3, 2016  
Alphabet Restricted Stock Unit Agreement (File No. 001-37580)

92.

Table of Contents Alphabet Inc.  
Incorporated by reference herein  
Exhibit

Number Description Form Date

10.08 u Alphabet Inc. Amended and Restated 2021 Current Report on Form 8-K June 3, 2022

Stock Plan (file No. 001-37580)

10.08.1 u Alphabet Inc. Amended and Restated 2021 Quarterly Report on Form 10-Q July 28, 2021

Stock Plan - Form of Alphabet Restricted (file No. 001-37580)

Stock Unit Agreement

10.08.2 u Alphabet Inc. Amended and Restated 2021 Quarterly Report on Form 10-Q July 26, 2023

Stock Plan - Form of Alphabet Restricted (File No. 001-37580)

Stock Unit Agreement

10.08.3 u Alphabet Inc. Amended and Restated 2021 Annual Report on Form 10-K February 3, 2023

Stock Plan - Form of Alphabet 2022 CEO (File No. 001-37580)

Performance Stock Unit Agreement

10.08.4 u Alphabet Inc. Amended and Restated 2021 Annual Report on Form 10-K February 4, 2020

Stock Plan - Form of Alphabet 2022 Non-CEO (File No. 001-37580)

Performance Stock Unit Agreement

10.08.5 u Alphabet Inc. Amended and Restated 2021 Quarterly Report on Form 10-Q July 26, 2023

Stock Plan - Form of Alphabet 2023 Non-CEO (File No. 001-37580)

Performance Stock Unit Agreement

10.09 u Alphabet Inc. Company Bonus Plan, as Annual Report on Form 10-K February 2, 2023

amended (File No. 001-37350)

21.01 \* Subsidiaries of the Registrant

23.01 \* Consent of Independent Registered Public

Accounting Firm

24.01 \* Power of Attorney (incorporated by reference

to the signature page of this Annual Report on

Form 10-K)

31.01 \* Certification of Chief Executive Officer  
pursuant to Exchange Act Rules 13a-14(a) and  
15d-14(a), as adopted pursuant to Section 302  
of the Sarbanes-Oxley Act of 2002

31.02 \* Certification of Chief Financial Officer pursuant  
to Exchange Act Rules 13a-14(a) and 15d-  
14(a), as adopted pursuant to Section 302 of  
the Sarbanes-Oxley Act of 2002

32.01 ‡ Certifications of Chief Executive Officer and  
Chief Financial Officer pursuant to 18 U.S.C.  
Section 1350, as adopted pursuant to Section  
906 of the Sarbanes-Oxley Act of 2002

97.01 \* Clawback Policy

101.INS \* Inline XBRL Instance Document - the instance  
document does not appear in the Interactive

Data File because its XBRL tags are  
embedded within the Inline XBRL document

101.SCH \* Inline XBRL Taxonomy Extension Schema  
Document

101.CAL \* Inline XBRL Taxonomy Extension Calculation  
Linkbase Document

101.DEF \* Inline XBRL Taxonomy Extension Definition  
Linkbase Document

101.LAB \* Inline XBRL Taxonomy Extension Label  
Linkbase Document

93.

Table of Contents Alphabet Inc.  
Incorporated by reference herein  
Exhibit

Number Description Form Date  
101.PRE \* Inline XBRL Taxonomy Extension Presentation  
Linkbase Document  
104 Cover Page Interactive Data File (embedded  
within the Inline XBRL document and  
contained in Exhibit 101)

---

u Indicates management compensatory plan, contract, or arrangement.  
\* Filed herewith.

‡ Furnished herewith.

## ITEM 16. FORM 10-K SUMMARY

None.

94.

Table of Contents Alphabet Inc.

## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has caused this Annual Report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: January 30, 2024

ALPHABET INC.

By: /S/ SUNDAR PICHAI

Sundar Pichai

Chief Executive Officer

(Principal Executive Officer of the Registrant)

## POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Sundar Pichai and Ruth M. Porat, jointly and severally, his or her attorney-in-fact, with the power of substitution, for him or her in any and all capacities, to sign any amendments to this Annual Report on Form 10-K and to execute and file with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, ratifying and confirming all that each of said attorneys-in-fact, or his or her substitute or substitutes, may do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this Annual Report on Form 10-K has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

95.

Table of Contents Alphabet Inc.

Signature Title Date

Chief Executive Officer and Director (Principal

/S/ SUNDAR PICHAI Executive Officer) January 30, 2024

Sundar Pichai

President and Chief Investment Officer; Chief

/S/ RUTH M. PORAT Financial Officer (Principal Financial Officer) January 30, 2024

Ruth M. Porat

Vice President, Corporate Controller and

/S/ AMIE THUENER O'TOOLE Principal Accounting Officer January 30, 2024

Amie Thuener O'Toole

/S/ FRANCES H. ARNOLD Director January 30, 2024

Frances H. Arnold

/S/ SERGEY BRIN Co-Founder and Director January 30, 2024



Sergey Brin

/S/ R. MARTIN CHAVEZ Director January 30, 2024

R. Martin Chávez

/S/ L. JOHN DOERR Director January 30, 2024

L. John Doerr

/S/ ROGER W. FERGUSON JR. Director January 30, 2024

Roger W. Ferguson Jr.

/S/ JOHN L. HENNESSY Director, Chair January 30, 2024

John L. Hennessy

/S/ LARRY PAGE Co-Founder and Director January 30, 2024

Larry Page

/S/ K. RAM SHRIRAM Director January 30, 2024

K. Ram Shriram

/S/ ROBIN L. WASHINGTON Director January 30, 2024

Robin L. Washington

96.