

Introduction to Banking



Course Objectives



Understand the different types/structures of financial services firms



Learn how a bank makes money



Determine the different types of banking services that are provided



Differentiate the various banking career paths



Understand who the customers are for each type of service





Categories and Types of Financial Institutions



Main Categories of Financial Institutions

There are four main categories of financial institutions:



Oversee and manage all banks in their respective country and set monetary policy

Banks



Provide products and services to individual consumers



Work with businesses to serve their financial needs



Operate in the capital markets to help clients raise capital through underwriting and issuance of securities



How Financial Institutions Are Organized



1. Universal Banks



2. Large Banks



3. Investment Banks



4. Community Banks



5. Online Banks



6. Credit Unions



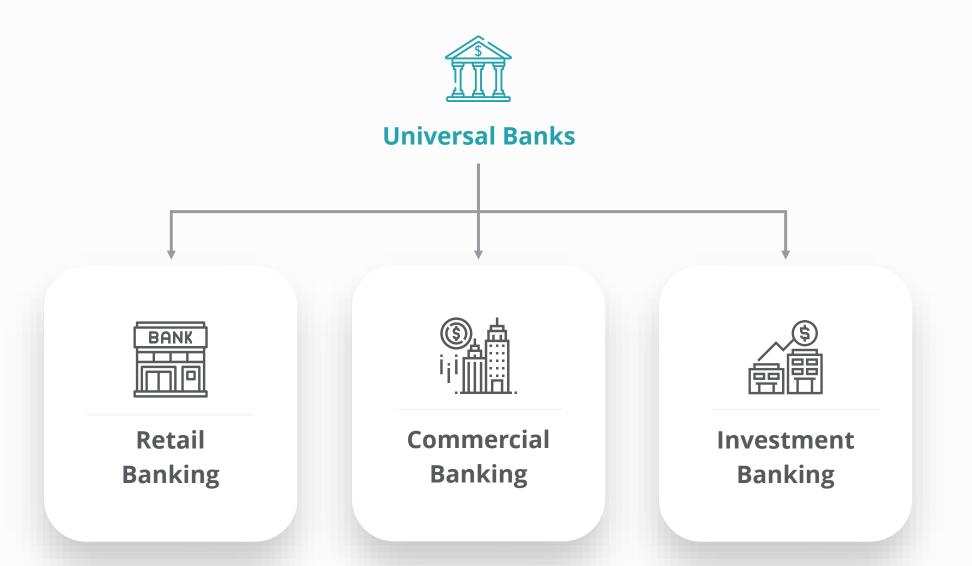
7. Building Societies



8. Savings & Loans Associations



1. Universal Banks



Examples:



CitiGroup



HSBC Group



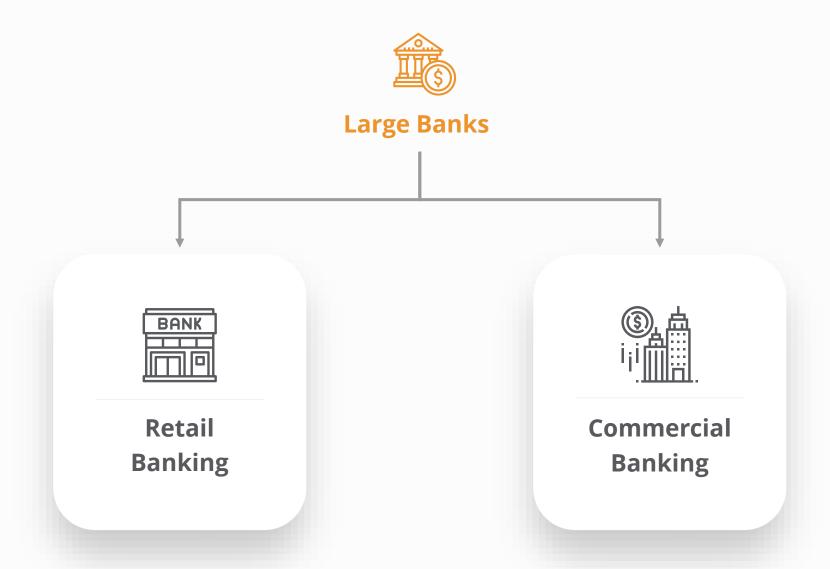
Deutsche Bank



ICBC Bank of China



2. Large Banks



Examples:



Wells Fargo



Bank of America



Lloyds Bank



Banco Santander



3. Investment Banks



Examples:



Goldman Sachs



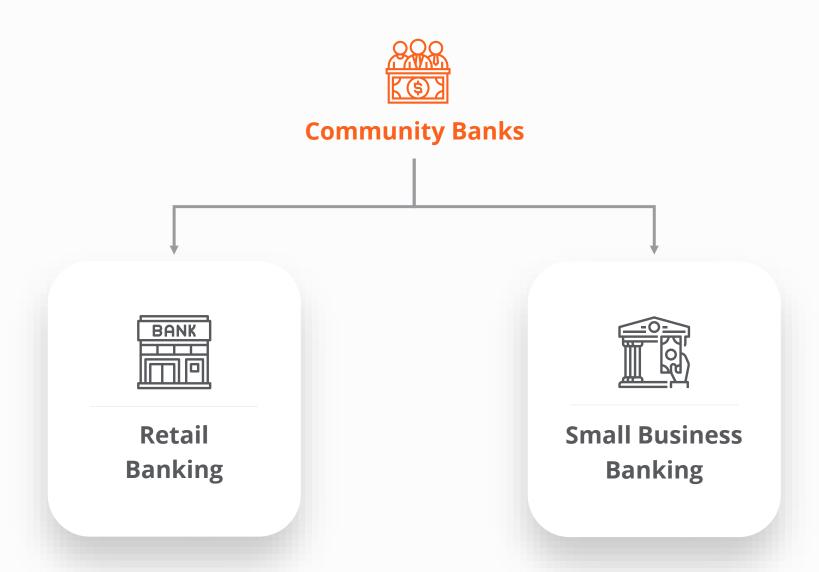
Barclays



Credit Suisse



4. Community Banks



In US:

 Over 18,000 community banks — majority have < \$250MM in assets

In India:

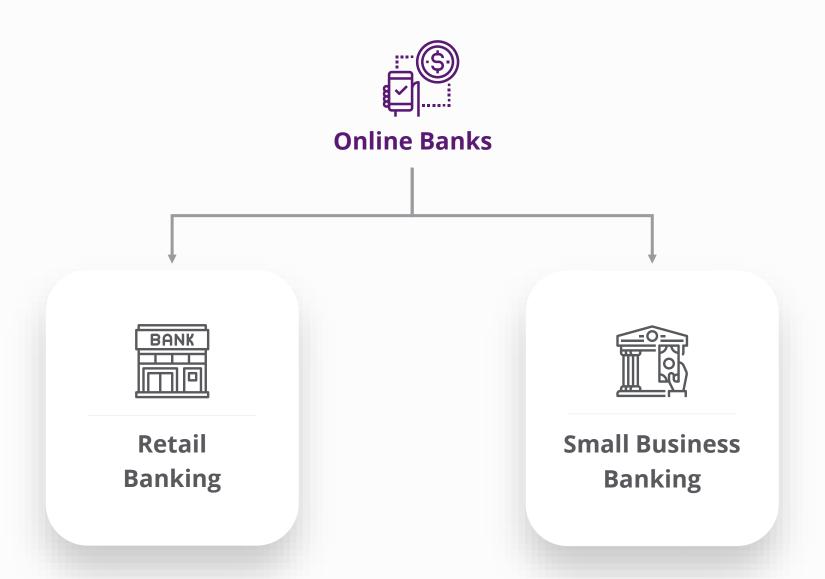
Created by members of a local community — pooling capital resources and lending to the members

In Nigeria:

 Community banks exist as the Credit Development Division — making credit more accessible in rural areas



5. Online/Digital Banks



Examples:



Digibank



Hello Bank



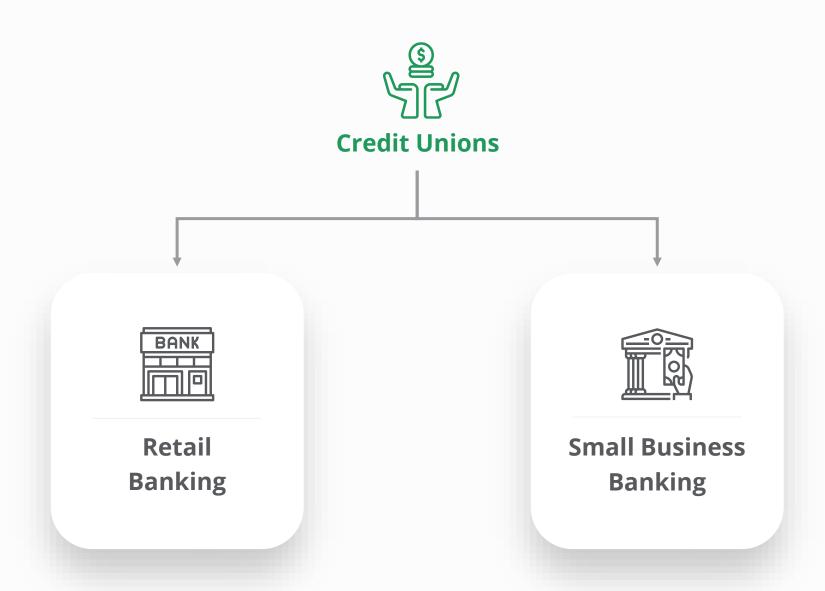
Ally Bank



Mashreq Neo



6. Credit Unions



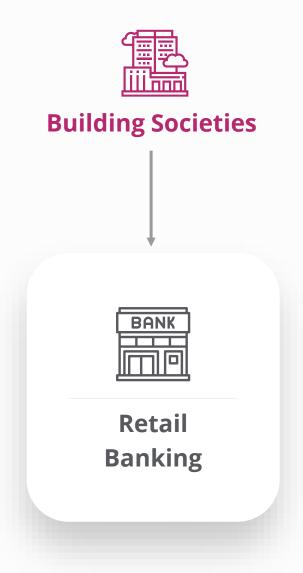
Credit unions serve a specific demographic and are member-owned. Clients are members who hold shares of the credit union.

Guidelines on who can be a member might be:

- The member needs to live in a specific geographic area.
- The member must be part of a specific segment of society such as teachers or military.



7. Building Societies



Only found in the UK and Australia, building societies are owned by members and primarily offer home mortgages.

Example:



Nationwide Building Society



8. Savings & Loans Associations



Also referred to as mutual savings banks, these associations are primarily found in the United States.

It is possible to be a jointstock company:

- Membership component
- Publicly traded

Thrifts can have no more than 20% of their lending in commercial loans.





Banking Services: What They Are and Who Uses Them



Banking Services

Banking services are structured by the type of client and the complexity of their needs:



Type of Client

- Individuals
- Entities
 - Businesses
 - Governments
 - Institutions



Complexity of Needs

- Cash management requirements
- Complexities arising through supply chain management
- Amount of financing required



Banking Services



Retail Banking



Business Banking



Corporate Banking



Private Banking



Commercial Banking



Banking



Retail Banking

Retail banking is the provision of banking services to all individual consumers.

Examples of retail services:



Checking and Savings Accounts



Mortgages



Personal Loans



Debit and Credit Cards



Private Banking

Private banking is a subset of retail banking that caters to high-net-worth and ultra-high-net-worth individuals.



High-Net-Worth

\$1MM (cash or easily convertible assets)



Liquid net worth of over \$5MM



Customer service is provided on a personal basis through a dedicated relationship manager. Services include retail banking products, asset management, brokerage, and limited tax advisory.



Business Banking

Business banking refers to banking services provided to small businesses that are owner-operated and have annual revenues of up to \$5 million.

These businesses have very simple banking needs:



Business
Checking and
Savings Accounts



Working Capital Management



Merchant
Services (e.g.
Debit and Credit
Cards Payment)



Line of Credit or Loan (< \$1MM)



Business Banking

Businesses using business banking services could include:

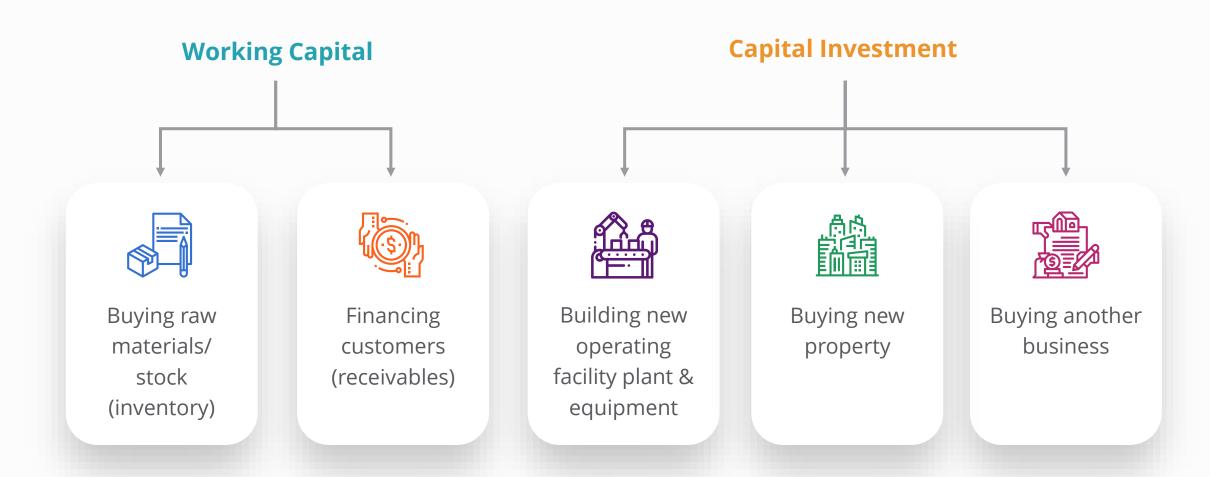
- Mechanic repair shops
- Plumbing and heating companies
- Hair salons
- Owners of a franchise
- Dentist offices
- Small law and accounting firms





Business Banking

What are the likely reasons for financial support to small businesses from the bank?





Commercial Banking

Commercial banking is larger in scale than business banking and serves clients with more complex needs.

Clients are typically:



1. Medium-sized (~500 employees)



2. Multiple locations and possibly various geographic locations



3. May include other financial institutions and local / regional governments



Commercial Banking

The needs of commercial banking clients are focused around:



Operating Accounts and Loan Finance Products



Transaction Banking (Cash and Treasury Management)



Trade Finance and Foreign Exchange



Advisory Services



Corporate Banking

Corporate banking services are for those clients whose needs are even more complex than in commercial banking.

- ✓ Mid-sized companies
- ✓ Companies growing through mergers and acquisitions
- ✓ Publicly traded companies
- Large domestic and multinational corporations
- ✓ Financial and other institutions
- ✓ Governments







Corporate Banking

Corporate banking services are largely credit-related with an advisory component and act in between the commercial banking services the client will be using.



Provide credit expertise



Assist with deal execution of over \$100MM in value



Structure
complex needs
around working
capital
management



Help accessing debt capital markets products



Investment Banking

Investment banks do not offer traditional banking products and are non-deposit taking.

They serve large, publicly traded corporations, institutions, and governments looking for banking services associated with large or complex financial transactions in:



Corporate Finance

- Mergers & acquisitions
- Advisory services

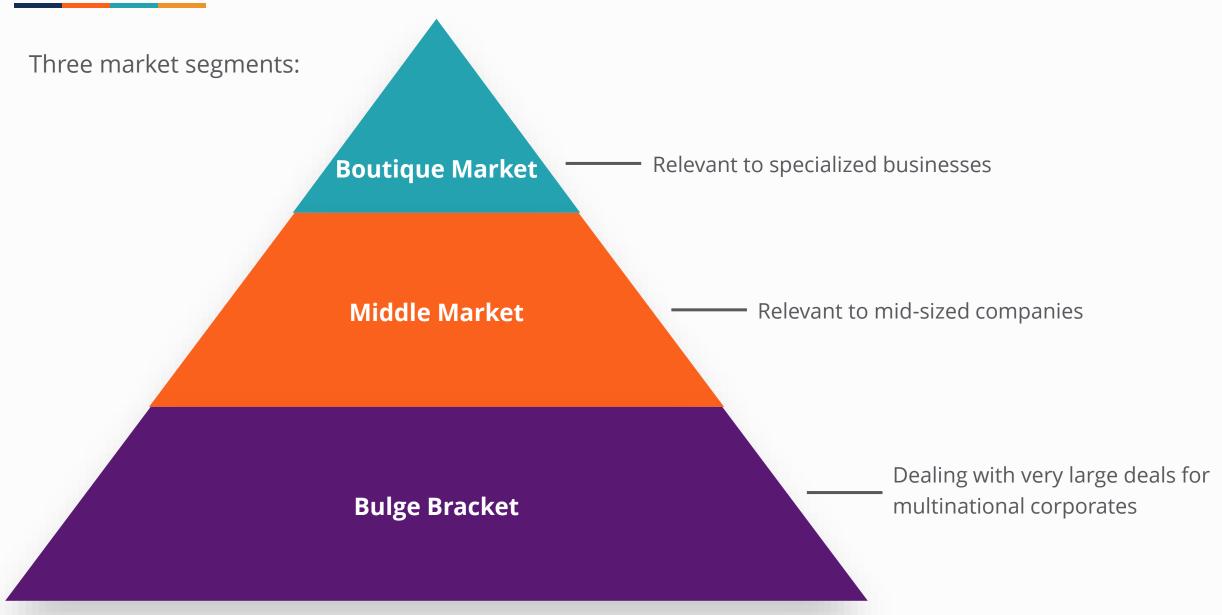


Capital Markets

- Underwriting
- Research
- Sales and trading



Investment Banking





Investment Banking



Corporate Banking

- Act as an intermediary
- Maintain banking relationship with clients





Investment Banking

- Directly offers advisory services for M&A transactions and structuring of capital markets products
- Assisting organizations to raise capital through equity or debt
- E.g. Initial public offering (IPO)

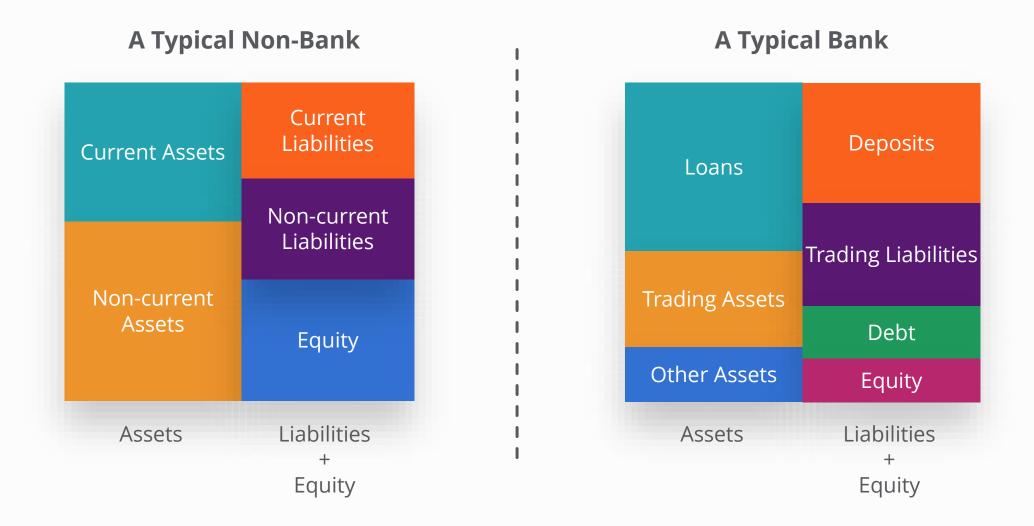




How Financial Institutions Generate Return



A Bank's Balance Sheet





A Bank's Balance Sheet

A typical bank classifies its financial assets and liabilities into the following categories:



1. Loans & advances to clients



3. Financial assets and liabilities held for trading



2. Financial assets and liabilities at fair value through profit and loss

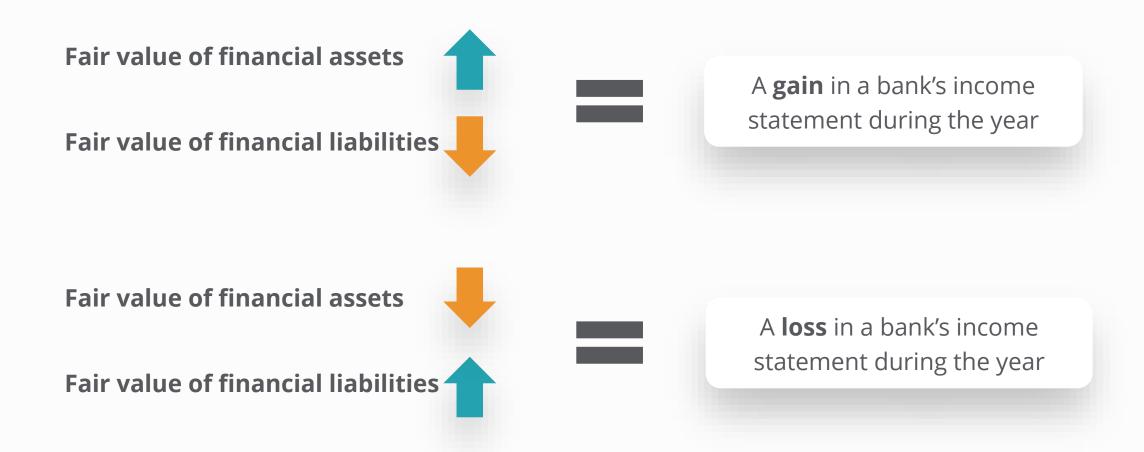


4. Financial assets and liabilities held to maturity/ at amortized cost



A Bank's Balance Sheet

The value of the financial assets and liabilities changes during the year:





A Bank's Income Statement

Net Interest Income (Interest	t Income – Interest Expense) X
Non-interest Revenue	X
Total Interest and Similar Inco	me X
Provision for Credit Losses	(X)
Net Gains/(Losses) on Financial A	Assets and Liabilities (X)
Total Non-interest Expense	(X)
Income Before Tax	X
Income Tax Provision	(X)
Net Income	X



Net Interest Income

Net interest income is a key metric used in the banking industry that is closely monitored internally and externally.

Net Interest Income

Interest Earned on Customer's Advances, Loans, and Trading Assets

Interest Paid on Customer's Deposits, Trading Liabilities, and Long & Short-term Debt



Net Interest Income – Example

Assets	\$MM	Yield
Loans to Customers	2,000	5.5%
Trading Assets	500	3.0%
Deposits with Banks	200	4.5%
Property	100	
Total Assets	2,800	

Liabilities & Equity	\$MM	Yield
Deposits	1,300	3.0%
Trading Liabilities	1,100	3.0%
Long-term Debt	200	4.5%
Equity	200	
Total L&E	2,800	

What is the net interest income?



Net Interest Income – Example

Assets	\$MM	Yield
Loans to Customers	2,000	5.5%
Trading Assets	500	3.0%
Deposits with Banks	200	4.5%
Property	100	
Total Assets	2,800	
Liabilities & Equity	\$MM	Yield
Deposits	1,300	3.0% -
Trading Liabilities	1,100	3.0%
Long-term Debt	200	4.5%
Equity	200	

Interest Income	\$MM
Interest on Loans (5.5% x 2,000MM)	110
Interest on Trading Assets (3% x 500MM)	15
Interest on Deposits with Banks (4.5% x 200MM)	9
	134

Interest Expense	\$MM
→ Interest on Deposits (3% x 1,300MM)	(39)
→ Interest on Trading Liabilities (3% x 1,100MM)	(33)
Interest on Long-term Debt (4.5% x 200MM)	(9)
	(81)





Components of Total Revenue

Net Interest Income	
Interest (Loans and Deposits)	X
Interest Expense	(X)
Net Interest Income	X

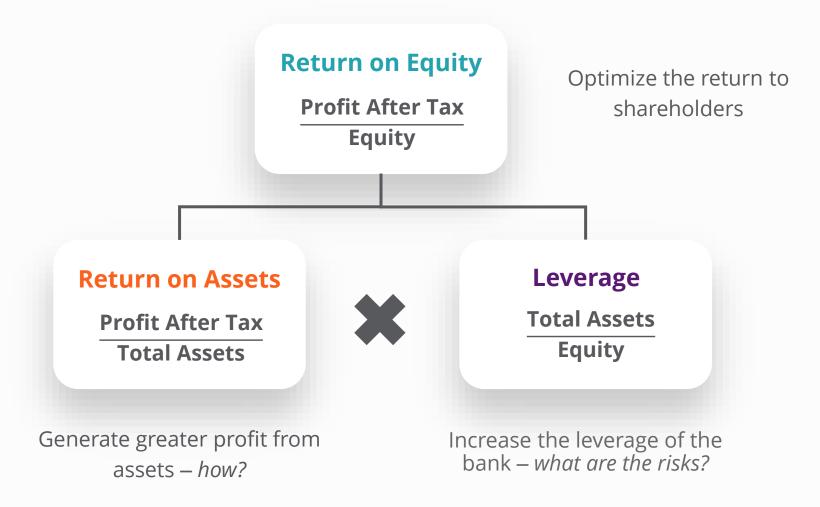
Non-interest Revenue	
Commission and Fees from Income	X
Net Commission Broker Fees, Mark-up on Security Underwriting and Other Security Activities	X
Profit on Sale of Investments	Χ
Other Customer Service Fees	Χ
Non-interest Revenue	X

Total Interest and Similar Income X



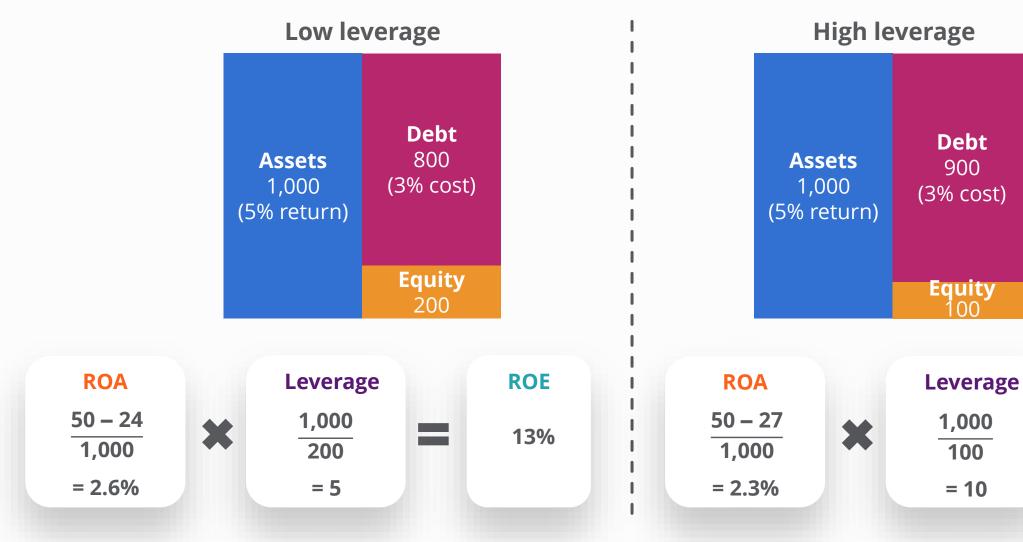
Measuring Returns in a Bank

This ratio tree represents the key levers the executives of a bank can use to improve the performance of the bank.



The Impact of Leverage

Let's compare two banks with different levels of leverage:



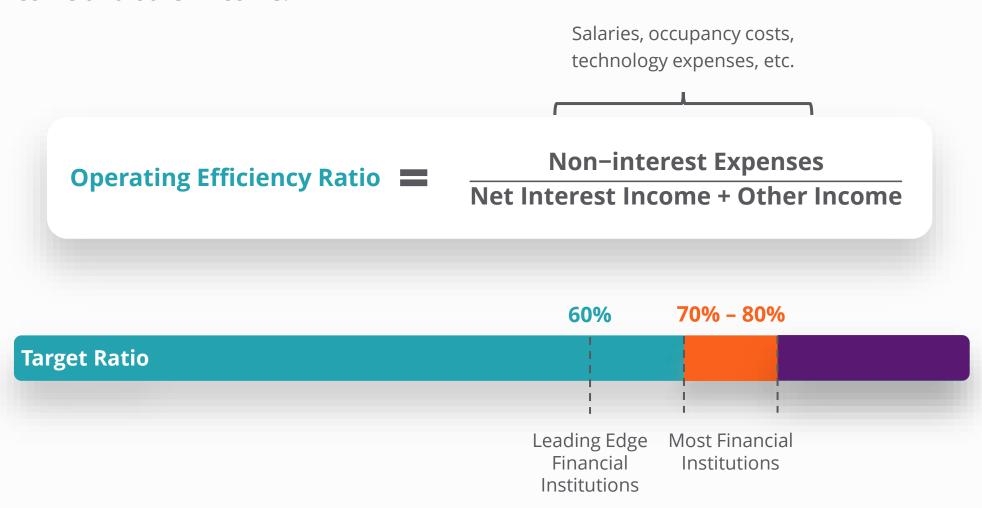


ROE

23%

The Importance of Operating Efficiency

The **operating efficiency ratio** shows a bank's efficiency by comparing non-interest expenses to net interest income and other income.





What Is the Bank's Profit Exercise

What is the bank's **profit** and **operating efficiency ratio**?

Interest Income/Expense	\$MM
Net Interest Income	7,500
Controllable – Bank Salaries	2,000
Controllable – Travel and Meals	500
Non-controllable – Rent, Technology, Utilities, Etc.	2,500



What Is the Bank's Profit Exercise

Profitability:

Interest Income/Expense	\$MM
Net Interest Income	7,500
Controllable – Bank Salaries	2,000
Controllable – Travel and Meals	500
Non-controllable – Rent, Technology, Utilities, Etc.	2,500
Total Expenses	5,000
Net Profit Before Tax	2,500

Operating Efficiency Ratio:

Non-interest Expense \$5,000

Net Interest Income \$7,500

66.7%



Asset-Liability Matching (ALM)

Asset-Liability Matching is the practice of investing, buying, liquidating, and adjusting one's assets to cover its liabilities when needed.



Treasury managers need to carefully manage assets in a portfolio and ensure there is sufficient liquidity to cover cash needs.



Asset-Liability Matching (ALM)



Reduce interest rate risk and liquidity risk impacting a bank's balance sheet



Ensure the bank can meet its medium- and long-term financing needs



Minimizes the risk of losses due to movement in interest rates



Securitization

Securitization is a risk management tool used to reduce idiosyncratic risk associated with the default of individual assets.



1. The bank combines multiple assets into a single compound asset which generates a return equivalent to the weighted average return of the individual assets.





2. The bank sells the compound asset to third-party investors as securities (bonds / collateralized debt obligations).

One common example of securitization is a **mortgage-backed security (MBS)**, which is a debt security collateralized by a mortgage or a collection of mortgages.

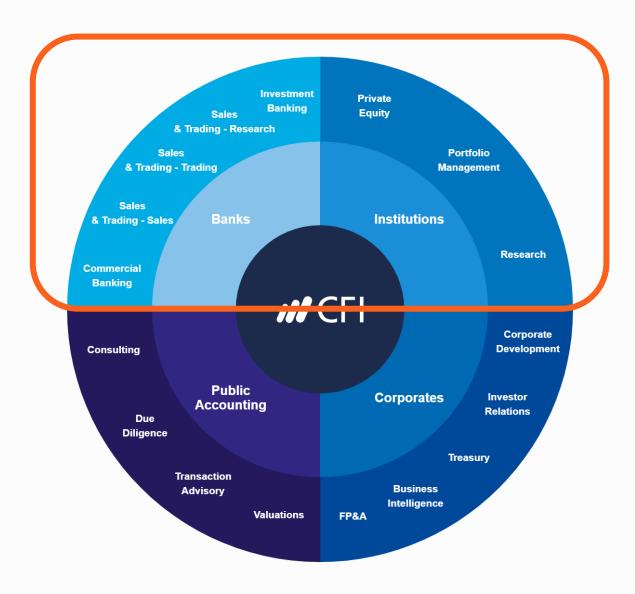




Banking Careers

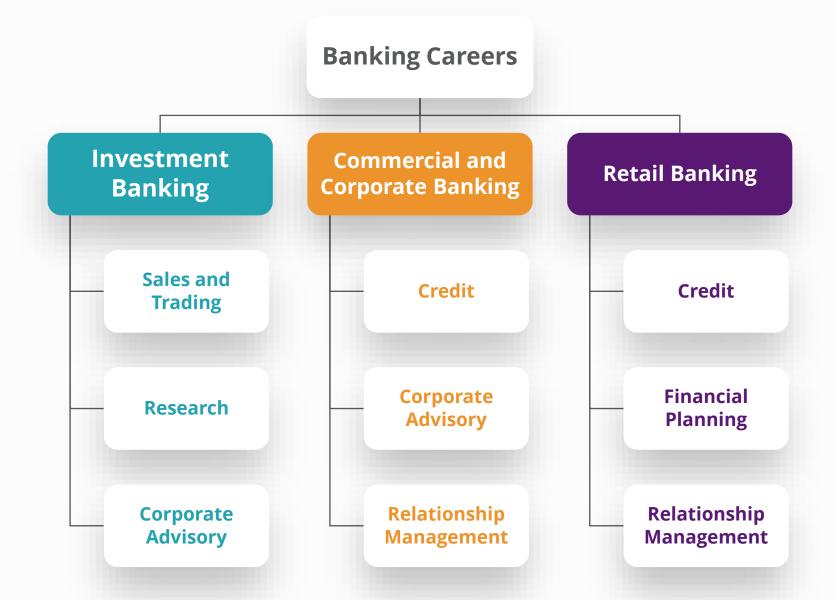


Career Map





Career Map





Investment Banking Career

Investment banking helps governments, corporations, and institutions raise capital and complete mergers and acquisitions (M&A).

The competition for investment banking positions is intense, compensation is very high, and the work is very high profile.

Common career paths:



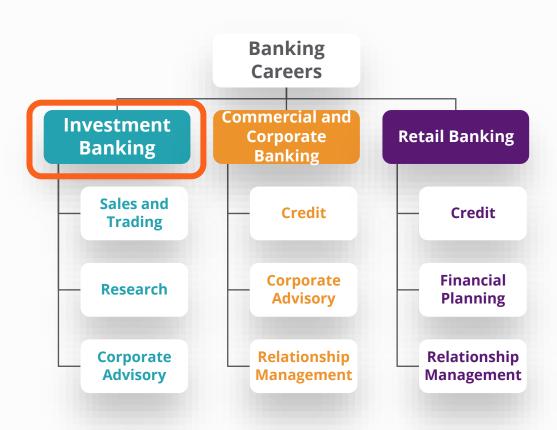




Associate



VP / Director / Managing Director





Sales and Trading Career

The sales and trading division of a bank helps mutual funds, hedge funds, and pension funds facilitate equities transactions.

A career in sales & trading can be extremely strenuous with a very fast-paced environment. The competition for positions is intense.

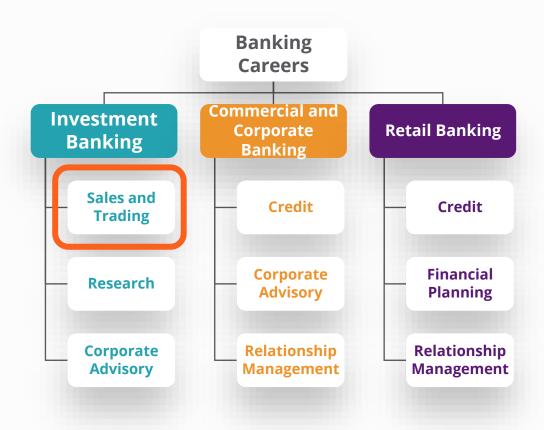
Common career paths:





Associate

VP / Director





Equity Research Career

Equity research roles provide research coverage of public companies and distribute that research to the bank's clients.

It's common for an analyst to move from the sell side to the buy side where they perform similar research to be used by the firm's portfolio managers.

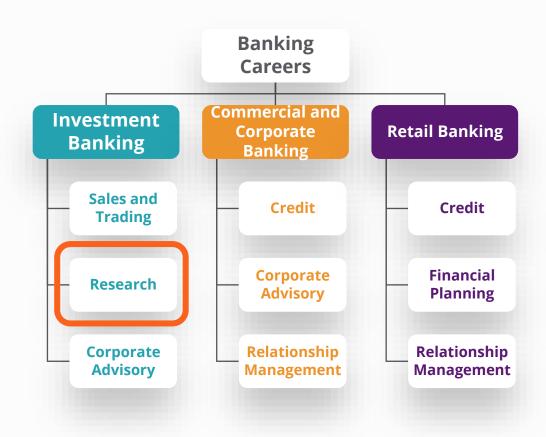
Common career paths:





Analyst

Associate





Commercial Banking Career

Commercial banking provides clients with credit products such as term loans, lines of credit, syndicated facilities, cash management services, and other fixed-income products.

They deliver financial advice and solutions tailored to the clients' needs, such as buying new equipment, funding working capital, and day-to-day banking.

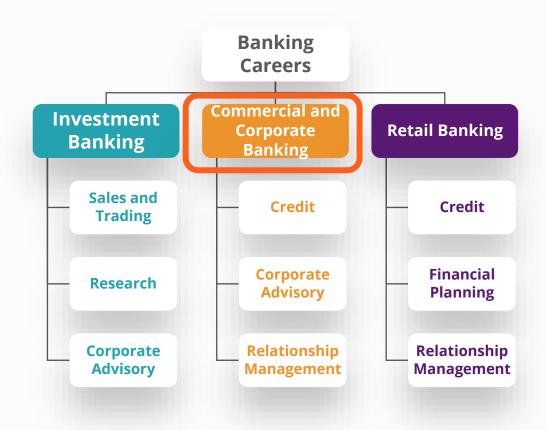
Common career paths:





Credit Analyst

Account Manager





Retail Banking Career

Retail banking provides clients with credit products such as term loans, lines of credit, syndicated facilities, cash management services, and other fixed income products.

They deliver financial advice and solutions tailored to the clients' needs, such as buying new equipment, funding working capital, and day-to-day banking.

Common career paths:

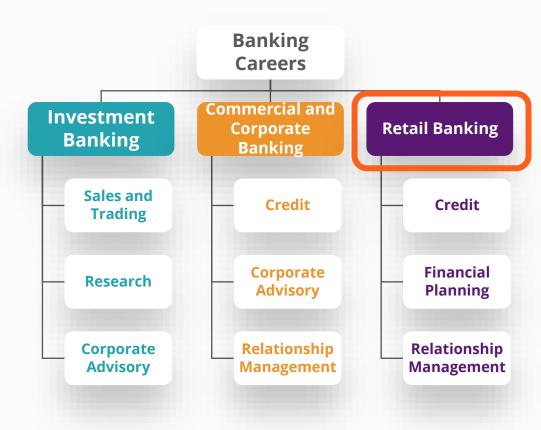






Customer Advisor **Credit Analyst**

Account Manager





Other Roles in Banking - Mid Office and Back Office

Front office:

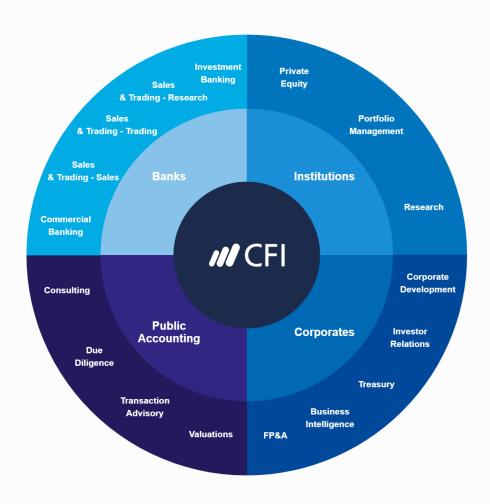
Client-facing

Middle office:

- Supports the work of front office
- Includes risk management, corporate treasury, internal audit, strategic management, and data analytics

Back office:

- Supports the overall operations of the bank
- Includes financial planning and analysis, regulatory compliance, settlements, and information technology services







Course Summary



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Learn how a bank makes money



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Understand who the customers are for each type of service

