IM for Mishkin/Serletis, The Economics of Money, Banking, and Financial Markets, 6ce

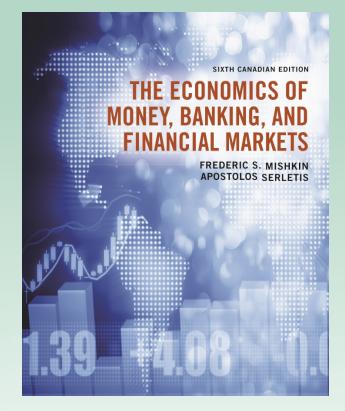
Chapter 2 An Overview of the Financial System

Chapter 2 is an introductory chapter that contains the background information on the structure and operation of financial markets that is needed in later chapters of the book. This chapter allows the instructor to branch out to various choices of later chapters, thus allowing different degrees of coverage of financial markets and institutions.

The most important point to transmit to the student is that financial markets and financial intermediaries are crucial to a well-functioning economy because they channel funds from those who do not have a productive use for them to those who do. Professors who emphasize financial markets and institutions in their course will want to teach this chapter in detail, and those who focus on international issues will want to spend some time on the section "Internationalization of Financial Markets." However, those who slant their course to monetary theory and policy may want to give this chapter a more cursory treatment. No matter how much class time is devoted to this chapter, we have found that it is a good reference chapter for students. You might want to tell them that if in later chapters they do not recall what some financial instrument is or who regulates whom, they can refer back to this chapter, especially to the summary tables.

The chapter introduces Global boxes, which are sprinkled throughout the text, to get students to recognize the growing importance of the global economy. The Global box in this chapter gets students to think about how the financial system is different across countries.

Mishkin/Serletis The Economics of Money, Banking, and Financial Markets Sixth Canadian Edition



Chapter 2

AN OVERVIEW OF THE FINANCIAL SYSTEM

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Learning Objectives

By the end of this chapter, you will understand

- 1. The structure of financial markets
 - Direct and indirect finance
 - International dimensions of financial markets
- 2. Various types of **financial market instruments**
- 3. Various types of **financial intermediaries**
 - How transaction costs, risk sharing, information matter
- 4. Reasons for and types of **financial market regulations**

Function of Financial Markets

- Channel funds from economic players that have surplus funds to those that have a shortage of funds
- Plays important role in the economy
 - Efficient allocation of **capital**
 - Allows consumers to time their purchases
- Direct finance
 - Borrow funds directly from lenders
 - Involves selling a **liability** (IOU or debt)

Flows of Funds Through the Financial System

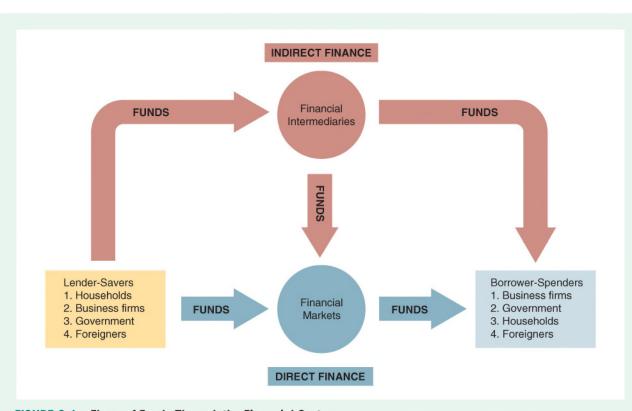


FIGURE 2-1 Flows of Funds Through the Financial System

The arrows show that funds flow from lender-savers to borrower-spenders via two routes: *direct finance*, in which borrowers borrow funds directly from financial markets by selling securities, and *indirect finance*, in which a financial intermediary borrows funds from lender-savers and then uses these funds to make loans to borrower-spenders.

Debt and Equity Markets

• Bonds - Debt instruments

- A contract between a borrower (who issues the bond) and lender (who owns it)
- Regularly payments until Maturity (short-term, < 1 year, intermediate-term, 1-10 years, and long-term, >10 years

• Equity – Shares in a corporation

- Don't have maturity dates
- Some make dividend payments
- Equity holders are residual claimants

Primary and Secondary Financial Markets

• Primary Market

- New security issues sold to initial buyers
- Not well known to public; typically private
- Investment banks guarantee prices (called underwriting)

Secondary Market

- Previously issued securities can be bought and sold
- **Brokers** match buyers and sellers with each other
- **Dealers** offer to buy and sell securities at stated prices

Exchanges and Over-the-Counter Markets

- Two main ways to organize a secondary market:
- Exchanges
 - Buyers and sellers meet in one central location
 - Toronto Stock Exchange for stocks
 - ICE Futures Canada for commodities (wheat, oats)
- Over-the-Counter Markets (OTC)
 - Dealers have inventory, ready to buy/sell at stated prices
 - Many stocks are traded OTC, but most are on exchanges
 - Canadian government bond market is an OTC market

Money and Capital Markets

- Distinguish markets by maturity of the securities
- Money Markets
 - Only short-term debt instruments are traded (<1 year)
 - Corporations and banks actively use money markets to each interest on temporary surplus funds
- Capital Markets
 - Market for longer-term debt (>1 year)
- Money markets are more **liquid** than capital markets

Money Market Instruments

- Government of Canada Treasury Bills
- Certificates of Deposit
- Commercial Paper
- Repurchase Agreements
- Overnight Funds

Principal Money Market Instruments

TABLE 2-1	Principal Mo	ney Market	Instrument	S
	Amount Outstanding (\$ millions)			
Type of Instrument	1980	1990	2000	2013
Treasury bills				
Government of Canada	13 709	113 654	76 634	162 184
Provincial governments	905	12 602	17 523	45 782
Municipal governments	113	514	188	455
Short-term paper				
Commercial paper	2555	12 971	24 330	11 510
Source: Statistics Canada Cansim				11 510

Capital Market Instruments

- Stocks
- Mortgages and mortgage-backed securities
- Corporate bonds
- Government of Canada bonds
- Canada Savings bonds
- Provincial and municipal government bonds
- Government agency securities
- Consumer and bank commercial loans

Principal Capital Market Instruments

TABLE 2-2 Principal	Principal Capital Market Instruments			
	Amount Outstanding (\$ billions)			illions)
Type of Instrument	1980	1990	2000	2013
Corporate stocks (market value)	42.9	110.7	242.6	466.2
Residential mortgages	91.9	245.3	431.2	1187.9
Corporate bonds	29.8	72.3	185.1	404.7
Government of Canada securities (marketable)	27.9	124.6	301.9	413.4
Bank commercial loans	58.8	102.6	132.2	212.9
Consumer loans	48.4	101.6	203.1	522.7
Nonresidential and farm mortgages	15.1	56.1	50.2	107.7

Source: Statistics Canada Cansim series V122642, V122746, V122640, V37378

Internationalization of Financial Markets

• Foreign Bonds

- Sold in foreign country, denominated in that country's currency
- For example, Canadian company selling bond in the United Kingdom denominated in British Pounds

• Eurobond

- Sold in foreign country, denominated in another currency
- For example, Canadian company selling bond in the United Kingdom denominated in British Pounds
- Recent development
- Widely used: over 80% of new issues are Eurobonds

Internationalization of Financial Markets (cont'd)

• Eurocurrencies

- Variant of Eurobond
- Foreign currencies deposited in banks outside home country
- Eurodollars: U.S. dollars deposited in foreign banks outside the U.S. or in foreign branches of U.S. banks
- World Stock Markets
 - NYSE, Nikkei, FTSE, 100-Share Index, and many more

Financial Intermediaries: Indirect Finance

• Financial Intermediation

- Indirect financing using financial intermediates (banks)
- Primary route to move funds from lenders to borrowers
- Four main roles of financial intermediates

1. Lowers Transaction Costs

- Economies of scale
- Economies of scope
- Liquidity services

Financial Intermediaries: Indirect Finance (cont'd)

- 2. Improves Risk Sharing
 - Asset transformation
 - Diversification
- 3. Help solve **Asymmetric Information** problems
 - Adverse Selection: Potential borrows who are more likely to default are the ones who most actively seek out loans
 - Moral Hazard: Borrowers might engage in activities that are undesirable from a lender's point of view
 - Financial intermediates can screen and monitor borrowers

Types of Financial Intermediaries

Depository Institutions

 Chartered Banks, Trusts and Mortgage Loan Companies, Credit Unions and Caisses Populaires

Contractual Savings Institutions

Life Insurance Companies, Property and Casual Insurance
Companies, Pension Funds and Retirement Funds

Investment Intermediaries

 Finance Companies, Mutual Funds, Money Market Mutual Funds, Hedge Funds, Investment Banks

Primary Assets and Liabilities of Financial Intermediaries

TABLE 2-3 Primary Assets and Liabilities of Financial Intermediaries			
Type of Intermediary	Primary Liabilities (Sources of Funds)	Primary Assets (Uses of Funds)	
Depository institutions (banks)			
Chartered banks	Deposits	Loans, mortgages, government bonds	
Trust and loan companies	Deposits	Mortgages	
Credit unions and caisses populaires	Deposits	Mortgages	
Contractual savings institutions			
Life insurance companies	Premiums from policies	Corporate bonds and mortgages	
Property and casualty insurance companies	Premiums from policies	Corporate bonds and stocks	
Pension funds	Retirement contributions	Corporate bonds and stocks	
Investment intermediaries			
Finance companies	Finance paper, stocks, bonds	Consumer and business loans	
Mutual funds	Shares	Stocks and bonds	
Money market mutual funds	Shares	Money market instruments	

Relative Shares of Financial Institutions and Pension Plans Regulated by OSFI

TABLE 2-4	Relative Shares of Fin by OSFI (as of Octob		ons and Pension Pl	ans Regulated
Type of Intermed	iary	Number	Total assets (in \$ millions)	Percent (%)
Chartered Banks				
Domestic		28	4 005 895	66.81
Foreign bank subsi	diaries	24	127 207	2.12
Foreign bank brand	ches	29	2722	0.05
Trust Companies		44	145 636	2.43
Loan Companies		19	171 854	2.87
Cooperative Cred	it Associations	6	23 116	0.39
Life Insurance Co	ompanies			
Canadian-incorpor	ated	41	1 180 494	19.69
Foreign branches		33	19 613	0.33
Fraternal Benefit	Societies			
Canadian-incorpor	ated	8	6832	0.11
Foreign branches		5	2308	0.04
Property and Cas	ualty Insurance Companies			
Canadian-incorpor	ated	88	108 991	1.82
Foreign branches		76	30 185	0.50
Pension Plans		1234	171 000	2.85
Total			5 995 853	100.00
Source: OSFI web site and	d OSFI Annual Report 2013–2014.			

Regulation of Financial Markets

Primary Reasons for Regulation

- 1. Increase information available to investors
 - Reduce adverse selection and moral hazard problems
 - Increase efficiency of financial markets
- 2. Ensure soundness of financial intermediaries
 - Restrictions on entry and competition, reporting requirements, and restrictions on assets and activities
 - Deposit insurance

Principal Regulatory Agencies of the Canadian Financial System

TABLE 2-5 Principal Regulatory Agencies of the Canadian Financial System			
Regulatory Agency	Subject of Regulation	Nature of Regulations	
Provincial securities and exchange commissions	Organized exchanges and financial markets	Requires disclosure of information and restricts insider trading	
Bank of Canada	Chartered banks, TMLs, and CUCPs	Examines the books of the deposit- taking institutions and coordinates with the federal agencies that are responsible for financial institu- tion regulation: OSFI and CDIC	
Office of the Superintendent of Financial Institutions Canada (OSFI)	All federally regulated chartered banks, TMLs, CUCPs, life insurance companies, P&C insurance companies, and pension plans	Sets capital adequacy, accounting, and board-of-directors responsi- bility standards; conducts bank audits and coordinates with pro- vincial securities commissions	
Canada Deposit Insurance Corporation (CDIC)	Chartered banks, TMLs, CUCPs	Provides insurance of up to \$100 000 for each depositor at a bank, examines the books of insured banks, and imposes restrictions on assets they can hold	
Québec Deposit Insurance Board	TMLs and credit cooperatives in Québec	Similar role to the CDIC	
Canadian Life and Health Insurance Compensation Corporation (CompCorp)	Life insurance companies	Compensates policyholders if the issuing life insurance company goes bankrupt	
P&C Insurance Compensation Corporation (PACIC)	Property and casualty insurance companies	Compensates policyholders if the issuing P&C insurance company goes bankrupt	

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