



1. Definition of financial market

- **Financial market** is a market in which financial asset (securities) such as stocks and bonds can be purchased or sold.
- Funds are transferred in financial markets when one party purchases financial assets previously held by another party.

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2. Function of financial markets

 The basic function of financial markets is to channel funds between surplus units (who spend less than their income) to deficit units (who wish to spend more than their income).













Primary and secondary markets

- A primary market is a financial market in which new issues of a security, such as a bond or a stock, are sold to initial buyers by the corporation or government agency borrowing the funds (IPO: Initial Public Offering).
- Primary market is the only place that provide funds to the initial issuers of securities



Primary and secondary markets

- A **secondary market** is a financial market in which securities that have been previously issued can be resold.
- **E.g:** New York Stock Exchange and NASDAQ; foreign exchange market, futures markets...
- Secondary market transactions provide funds for the one who sell securities but the initial issuers of those securities acquire no new fund.







Primary and secondary markets

- Relationship between primary and secondary markets:
 - Primary markets provide goods to secondary market
 - Secondary markets make the securities which initially issued on primary market become more liquid, they make it easier and quicker to sell these financial instruments to raise cash.
 - Secondary markets contribute in determination of the price of securities that the issuer sell in the primary market.

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Exchanges and Over-The-Counter markets

- The secondary market can be organised in two ways:
 - Exchanges: where buyers and sellers of securities (or their agents or brokers) meet in one central location to conduct trades.
 - Over-the-counter (OTC) market: dealers at different locations who have an inventory of securities stand ready to buy and sell securities "over the counter" to anyone who comes to them and is willing to accept their prices.

Money and Capital markets

- Money market: is a financial market in which only short-term debt instruments (generally those with original maturity of less than one year) are traded.
- **Capital market:** is the market in which longand intermediate-term debt (generally those with original maturity of one year or greater) and equity instruments are traded.



Money market instruments

- Money market instruments (securities) are debt securities that have a maturity of one year or less.
- Money market securities include:
 - Treasury bills
 - Negotiable bank certificates of deposit
 - Commercial paper
 - Repurchase Agreements



Negotiable certificate of deposit

- A certificate of deposit (CD) is a debt instrument sold by a bank to depositors that pay annual interest of a given amount and at maturity pays bank the original purchase price.
- Negotiable certificate of deposit (NCD): is CD that is sold in secondary market. It usually has high denomination and can not be cashed-in before maturity.



Repurchase Agreements (REPOs)

Repurchase agreements (REPOs): is an agreement in which the borrower agree to sell an amount of government securities (usually T-bills) to the lender and commit to repurchase them in a near future with a specified price.









- **Bonds** are long-term debt securities issued by corporations and government agencies to support their operations.
- They provide return to investors in the form of interest income (coupon payments) every period (usually six-month).
- The amount and timing of interest and principal payments to investors who purchase bonds are specified on the bonds.
- Bonds could be sold on secondary market and its price could change over time.



Bonds

- Some issue to clarify related to bonds:
 - Valuing bonds
 - Interest rate and coupon rate
 - Face value (par value) and market value
 - Yield to maturity











Bonds

• Interest rate and coupon rate:

- Coupon rate: is the annual interest payment as a percentage of face value
- When the market interest rate exceeds the coupon rate, bonds sell for less than face value, and vice versa.
- When the interest rate rises, the present value of the payments to be received by the bondholder fall and bond prices fall, and vice versa



Mortgages

- **Mortgages:** are long-term debt obligations created to finance the purchase of real estate
- Households or firms could borrow in form of mortgages to purchase housing, land, or other real structures, where the structure or land itself serves as collateral for the loans.



Stocks

- **Stocks** (also referred as equity securities) are equity claims on the net income and assets of a corporation.
- Stocks represent partial ownership in the corporations that issued them.
- There are two kinds of stocks:
 - Common stock : ownership shares in a publicly held corporation
 - Preference stock: Company stock with dividends that are paid to shareholders before common stock dividends are paid out

Common stock vs. Preference stock		
	Common stock	Preference stock
Dividend	Decided by the BODs	Fixed
Voting right	Yes	No
Earning	Last	After bond and
payment		before common
order		stock

Stocks

- Some corporations provide income to their stockholders by distributing a portion of their earnings in the form of dividends.
- As equity securities represent partial ownership, when a corporation grow and increase in value, the value of the stock increase. Thus investors could earn another source of return from stock through capital gain when they sell stock.











Derivative instruments

- **Derivative instruments** (derivative securities) are financial contracts whose values are derived from the values of underlying assets (such as debt securities or equity securities).
- Derivative securities enable investors to engage in speculation and risk management
 - Speculation
 - Risk management





- Futures contract is an exchange-traded promise to buy or sell an asset in the future at a pre-specified price.
- Forward contract: is an agreement to buy or sell an asset in the future at an agreed price.



Swaps

• Swap is an arrangement by two counterparties to exchange one stream of cash flows for another.



International bond market, Eurobonds, and Eurocurrencies

- Foreign bonds: are sold in foreign country and are denominated in that country's currency. E.g. Yankee bond, Samurai Bond, Kangaroo Bond...
- **Eurobond:** is a bond denominated in a currency other than that of the country in which it is sold
- Eurocurrencies: are foreign currencies deposited in banks outside the home countries. E.g.: Eurodollar: U.S dollar deposited in foreign banks outside the US or in foreign branches of US banks.





- Increasing information available to investors
- Ensuring the soundness of financial intermediaries
 - Restriction on entry
 - Disclosure requirements
 - Restrictions on assets and activities
 - Deposit insurance
 - Limits on competition
 - Restriction on interest rates

The story of sub-prime mortgage crisis 2008

<u>http://www.youtube.com/watch?v=bx_LWm6</u>
<u>6tA</u>