SECURITIES MARKETS

How Firms Issue Securities

- Primary market—market for new offerings; issuing firm receives funds from an issue
 - Prospectus—document filed with the SEC that describes a security issue; includes information about the types of securities to be issued, the size of the issue, and how the funds raised through the issue will be used.
 - o Initial public offering (IPO)—firm transforms from a privately held company to a publicly held company; first issue of publicly held stock.
 - o Underwriter—investment banking firm; purchases an issue of securities and resells it.
- Secondary market—resale market; market where already issued, outstanding securities are traded among investors; firm that originally issued the securities is not involved.
- Private placement—securities are sold to a small group of investors or institutions; issues with less than 2,000 shares of stock do not have to be registered with the SEC
- Shelf registration—firms can "pre-register" securities that can be issued over a two-year period.

How Securities Are Traded—financial markets provide a "mechanism" by which borrowers (users of funds) and lenders (suppliers of funds) get together.

- Types of Markets
 - Direct search markets—no agent, or middleman is involved; investors seek out each other
 - o Brokered markets—brokers, or agents, offer services to help search for buyers and sellers.
 - Dealer markets—dealers buy and sell for their own accounts; dealers make markets in assets.
 - Auction markets—buyers and sellers get together at specific locations, perhaps electronically, to trade assets; prices are set by an auction process; the NYSE is an example of an auction market.
- Types of orders
 - o Market Order—transact immediately at the best possible prevailing price
 - Bid price—dealer's purchase price
 - Ask price—dealer's selling price
 - Dealer's spread, or bid-ask price = Ask price Bid price
 - o Limit Order—restrict the price at which a transaction can be carried out
 - Stop Order—point (price) where a market order is initiated
 - Stop-loss order—a market order to sell is initiated if a stock's value falls below a specified price.

- Stop-buy order—a market order to buy is initiated if a stock's value rises above a specified price.
- O Time order—time limits can be placed on orders
 - Day order—the order must be executed by the end of the day; if not, it is automatically canceled (killed)
 - Good 'til canceled (GTC)—the order remains outstanding until it is either executed or the investor cancels it.
- o Margin Trading—borrow funds to purchase financial assets

$$\frac{\text{Actual}}{\text{margin}} = \frac{\text{Investor's equity}}{\text{Market value of stock}} = \frac{\text{[(\# shares)} \times \text{Price]-(Amount borrowed)}}{\text{(\# shares)} \times \text{Price}}$$

Margin call price =
$$\frac{\text{Amount borrowed}}{(\# \text{shares}) \times (1 - \text{Maintenance margin})}$$

Example: An investor wishes to buy 100 shares of IBM, which currently is trading at \$100. Assume the brokerage firm imposes a margin requirement equal to 60 percent, with a maintenance margin of 35 percent.

The market value of the purchase is $$10,000 = 100×100 ; the investor must have $$6,000 = $10,000 \times 0.60$ of funds to purchase 100 shares of IBM; Amount borrowed = $$4,000 = $10,000 - $6,000 = $10,000 \times 0.40$.

A margin call will be issued if the price of IBM drops below \$61.54:

Margin call price =
$$\frac{\$4,000}{100 \times (1-0.35)} = \$61.54$$

- Short Selling borrow shares of stock (or other financial asset) from another investor and sell the shares with the promise to repay the shares in the future.
- Trading mechanisms—means by which orders are executed
 - Dealer markets—bid and quotes are provided by dealers who are used by brokers to execute orders
 - OTC market—the over-the-counter (OTC) market is a network of brokers and dealers who trade securities; prices are communicated electronically
 - NASDAQ—National Association of Security Dealers Automated Quotation system
 - Originally an electronic system that provided dealers' price quotes to brokers.
 - The NASDAQ stock market currently is a fairly sophisticated stock market that
 provides price quotes and facilitates trading in stocks that are "listed" on
 NASDAO.
 - o Electronic communication networks (ECNs)—electronic networks that facilitate direct

trading of stocks.

- Matches buy orders with sells orders quickly and efficiently; matches at the best prevailing price.
- Transaction cost is fairly low.
- Speed—trades are executed quickly.
- Specialist markets—specialists trade in stocks of particular companies or industries; that
 is, they specialize in stocks of specific types of companies; provide liquidity to the
 market by buying or selling stocks as necessary to maintain regular, well-ordered trading
 in the stocks in which they specialize.
- Electronic trading has increase as technology has progressed; cost of trading has decreased as a result.

U.S. Stock Markets—largest and most efficient stock markets in the world

- New York Stock Exchange (NYSE)—largest U.S. stock exchange
 - o Part of Intercontinental Exchange (ICE) since 2013; includes American Stock Exchange, Archipelago, Euronext, and other exchanges acquired during the past couple of decades.
 - o Trading mechanisms have shifted from humans to electronics in recent years.
- NASDAQ—electronic trading; has specific requirements for stocks to be "listed."
- ECNs—automated trading system that quickly batches and matches large numbers of buy orders with sell orders;
 - Regulation NMS (National Market Structure)—requires trades to be executed at the best price available in all U.S. stock markets (called the trade-through rule).
 - o Latency—the total time, from initiation to conclusion, it takes to complete an order.

New Trading Strategies—as technology advances and needs change, trading strategies change also.

- Algorithmic trading—using computer models to monitor market conditions and to initiate trades when the models indicate it is appropriate.
- High-frequency trading—algorithmic trading in which the computers make numerous trades in rapid succession to exploit opportunities to earn small profits; a large number of trades that earn small profits can add up to large overall earnings.
- Dark pools—electronic transactions in which little, if any information about trading participants is disclosed when trading large blocks of stock; blocks are large trades that consist of 10,000 or more shares of stock.
- Bond trading—many bonds, even those listed on the NYSE, are trade on NASDAQ.

Regulation of Securities Markets

- The Securities and Exchange Commission (SEC) is the primary regulator of U.S. stock exchanges and securities transactions.
 - o Information disclosure

- o Fraudulent/manipulative activities
 - Wash Sales
 - Churning
 - Inside Trading
- o Monitoring
- Sarbanes-Oxley Act—2002
 - o Independent oversight of financial statements/condition
 - o CEO and CFO must "sign off" on financial reports
 - o Board of directors must include outside, independent members