

Master of Financial Technology

Finance Concepts





مجموعة جامعة
الجميع الذكية
للتعليم القابضة

MIDOCEAN
UNIVERSITY
BY EVERYONE'S SMART UNIVERSITY

Foundations of Financial Management

Chapter 3

Chapter
03

Intended Learning Outcomes

After reading this chapter, you should be able to:

1. Understand the basic principles of finance, their Five Principles That Form the importance, and the importance of ethics and trust,
2. Describe the role of finance in business,
3. Distinguish between the different legal forms of business, and
4. Identify the goal of the firm.

1. The Five Principles of Finance

The Five Principles of Finance

- To the first-time student of finance, the subject matter may seem like a collection of unrelated decision rules.
- In fact, our decision rules, and the logic that underlies them, spring from five simple principles that do not require knowledge of finance to understand.



Principle 1: Cash Flow Is What Matters



- A company's **cash flows** represent money that can be spent or received.
- Consequently, it is **cash flow, not profits**, that determines the value of a business.
- For this reason, when we analyze the consequences of a managerial decision, we focus on the resulting cash flows, not profits.
- we should always look at the **incremental cash flow** to the company is the difference between the cash flows the company will produce both with and without the investment it's thinking about making.

Cash Inflows vs. Cash Outflows



Principle 2: Money Has a Time Value

- Perhaps the most fundamental principle of finance is that **money has a “time” value.**
- Very simply, a dollar received today is more valuable than a dollar received one year from now because we can invest the dollar, we have today to earn **interest** so that at the end of one year we will have more than one dollar.
- So, if you loan money to your brother at no interest, money that otherwise would have been loaned to a friend for 8 percent interest (who is equally likely to repay you), then the opportunity cost of making the loan to your brother is 8 percent.
- ***Without recognizing the existence of the time value of money, it is impossible to evaluate projects with future benefits and costs in a meaningful way.***

Principle 3: Risk Requires a Reward

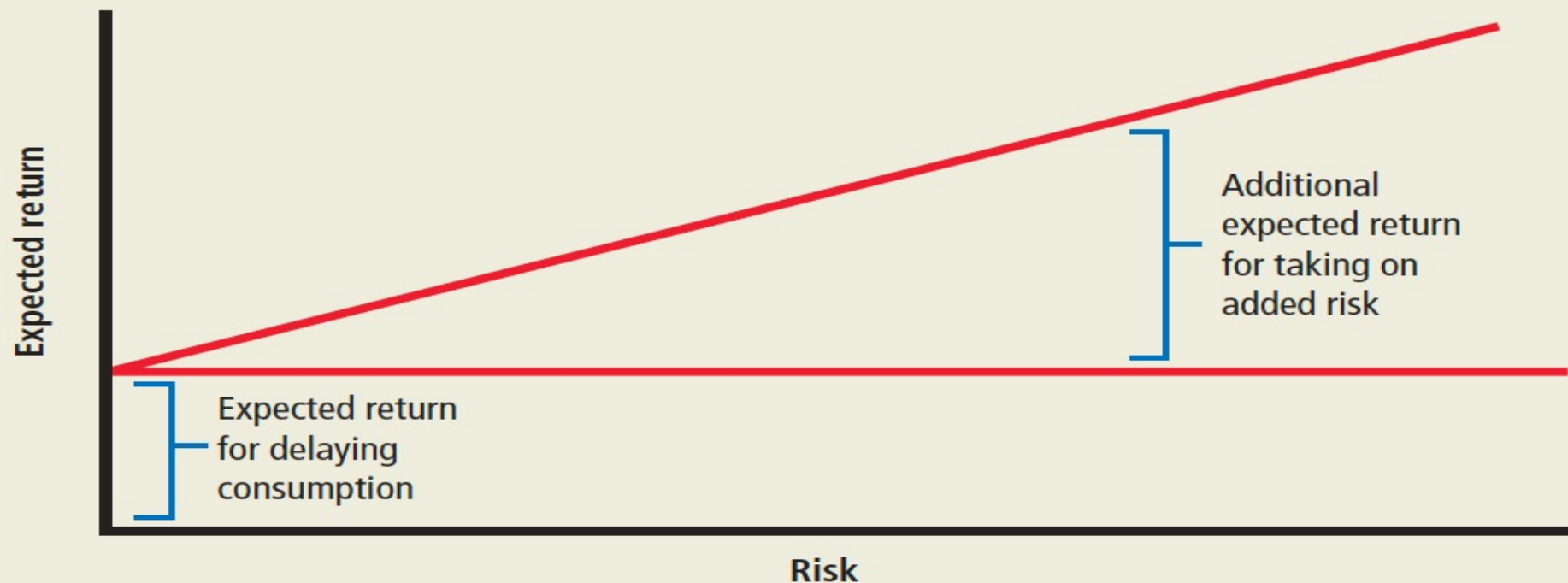
- Even the unexperienced investor knows there are an unlimited number of investment alternatives to consider. But without exception, investors will not invest if they do not expect to receive a return on their investment.
- Investors will want a return that satisfies two requirements:
 - **A return for delaying consumption.** Why would anyone make an investment that would not at least pay them something for delaying consumption? They won't—even if there is no risk.
 - **An additional return for taking on risk.** Investors generally don't like risk. Thus, risky investments are less attractive—unless they offer the prospect of higher returns. That said, the more unsure people are about how an investment will perform, the higher the return they will demand for making that investment.





Principle 3: Risk Requires a Reward

FIGURE 1-1 The Risk–Return Trade-off



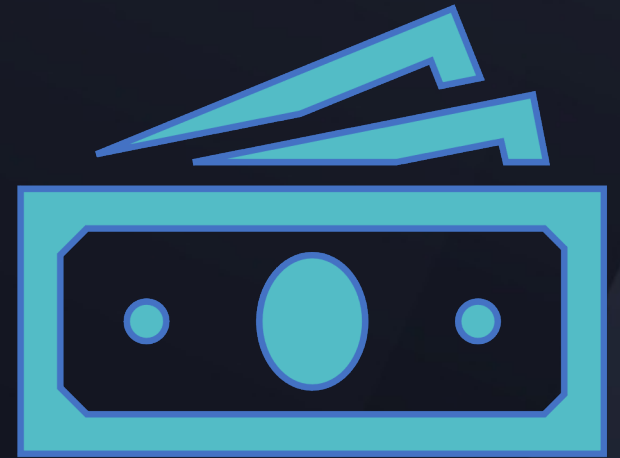
Principle 4: Market Prices Are Generally Right



- To understand how securities such as bonds and stocks are valued or priced in the financial markets, it is necessary to have an understanding of the concept of an **efficient market**.
- **An efficient market is one where the prices of the assets traded in that market fully reflect all available information at any instant in time.**
- The efficiency of the market depends on the speed with which newly released information is impounded into prices. Specifically, an efficient stock market is characterized by a large number of profit-driven individuals who act very quickly by buying (or selling) shares of stock in response to the release of new information.
- **The key learning point here is the following:** Stock market prices are a useful barometer of the value of a firm. Specifically, managers can expect their company's share prices to respond quickly to investors' assessment of their decisions. If investors on the whole agree that the decision is a good one that creates value, then they will push up the price of the firm's stock to reflect that added value. On the other hand, if investors feel that a decision is bad for share prices, then the firm's share value will be driven down.
- **Unfortunately, this principle doesn't always work perfectly in the real world.**

Principle 5: Conflicts of Interest Cause Agency Problems

- Conflicts of interest lead to what are referred to by economists as an **agency cost or agency problem**. That is, managers are the agents of the firm's stockholders (the owners) and if the agents do not act in the best interests of their principal, this leads to an agency cost.
- Although the goal of the firm is to maximize shareholder value, in reality the agency problem may interfere with the implementation of this goal.
- The **agency problem** results from the separation of management and the ownership of the firm.



Avoiding Financial Crisis—Back to the Principles

- Four significant economic events that have occurred during the last decade all point to the importance of keeping our eye closely affixed to the five principles of finance: the dot.com bubble; the accounting scandals headlined by Enron, WorldCom, and Bernie Madoff; the housing bubble; and, finally, the recent economic crisis. Specifically, the problems that firms encounter in times of crisis are often brought on by, and made worse as a result of, not paying close attention to the foundational principles of finance.
- To illustrate, consider the following:
 - **Forgetting Principle 1: Cash Flow Is What Matters** (Focusing on earnings instead of cash flow). The financial fraud committed by Bernie Madoff, WorldCom, and others at the turn of the 21st century was a direct result of managerial efforts to manage the firm's reported earnings to the detriment of the firm's cash flows. The belief in the importance of current period earnings as the most critical determinant of the market valuation of the firm's shares led some firms to sacrifice future cash flows in order to maintain the illusion of high and growing earnings.

Avoiding Financial Crisis—Back to the Principles

- **Forgetting Principle 2: Money Has a Time Value** (Focusing on the short run). When trying to put in place a system that would align the interests of managers and shareholders, many firms tied managerial compensation to short-run performance. Consequently, the focus shifted in many firms from what was best in the long run to what was best in the short run.

Avoiding Financial Crisis—Back to the Principles

- **Forgetting Principle 3: Risk Requires a Reward** (Excessive risk taking due to underestimation of risk). Relying on historical evidence, managers often underestimated the real risks that their decisions entailed. This underestimation of the underlying riskiness of their decisions led managers to borrow excessively. This excessive use of borrowed money (or financial leverage) led to financial disaster and bankruptcy for many firms as the economy slipped into recession. Moreover, the financial crisis was exacerbated by the fact that many times companies simply didn't understand how much risk they were taking on. For example, AIG (AIG), the giant insurance company that the government bailed out, was involved in investments whose value is based on the price of oil in 50 years. Let's face it, no one knows what the price of oil will be in a half a century—being involved in this type of investment is blind risk.

Avoiding Financial Crisis—Back to the Principles

- **Forgetting Principle 4: Market Prices Are Generally Right** (Ignoring the efficiency of financial markets). Huge numbers of so-called hedge funds sprang up over the last decade and entered into investment strategies that presupposed that security prices could be predicted. Many of these same firms borrowed heavily in an effort to boost their returns and later discovered that security markets were a lot smarter than they thought and consequently realized huge losses on their highly leveraged portfolios.

Avoiding Financial Crisis—Back to the Principles

- **Forgetting Principle 5: Conflicts of Interest Cause Agency Problems** (Executive compensation is out of control). Executive compensation in the United States is dominated by performance-based compensation in the form of stock options and grants. The use of these forms of compensation over the last decade in the face of one of the longest bull markets in history has resulted in tremendous growth in executive compensation. The motivations behind these methods of compensation are primarily tied to a desire to make managers behave like stockholders (owners). Unfortunately, this practice has resulted in pay for nonperformance in many cases and a feeling among the general public that executive compensation is excessive. We are reminded again that solving the principal–agent problem is not easy to do, but it has to be done!

2. The Role of Finance in Business

The Role of Finance in Business

- Finance is the study of how people and businesses evaluate investments and raise capital to fund them.
- Thus, there are three basic types of issues that are addressed by the study of finance:
 1. What long-term investments should the firm undertake? This area of finance is generally referred to as **capital budgeting**.
 2. How should the firm raise money to fund these investments? The firm's funding choices are generally referred to as **capital structure** decisions.
 3. How can the firm best manage its cash flows as they arise in its day-to-day operations? This area of finance is generally referred to as **working capital management**.

Why Study Finance?

- Even if you're not planning a career in finance, a working knowledge of finance will take you far in both your personal and professional life.
- Those interested in management will need to study topics like strategic planning, personnel, organizational behavior, and human relations, all of which involve spending money today in the hopes of generating more money in the future which is related to finance



Why Study Finance?

- Indeed, if you **pursue a career in management** information systems or accounting, the finance managers are likely to be your most important clients.
- For the student with **entrepreneurial aspirations**, an understanding of finance is essential—after all, if you can't manage your finances, you won't be in business very long.
- Finally, an understanding of finance is important to you as **an individual**.

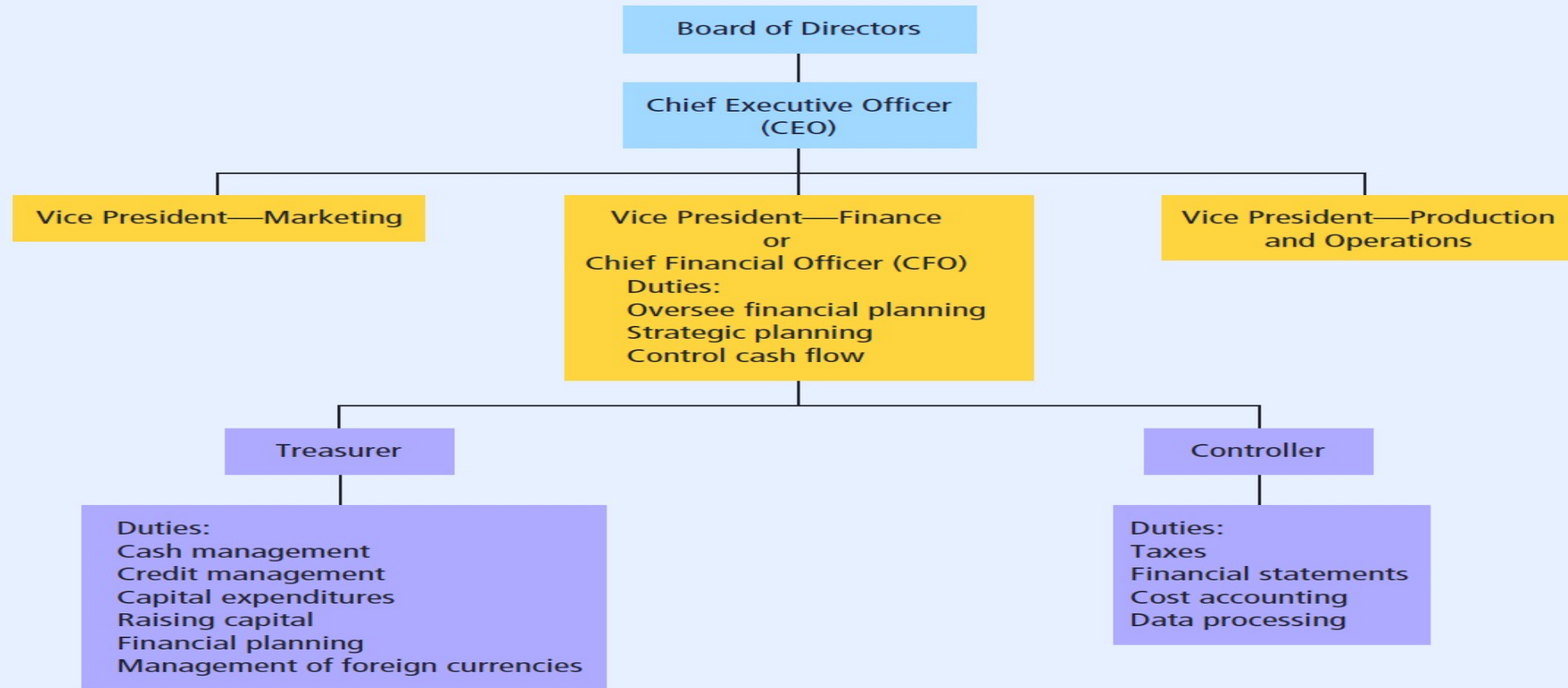




The Role of the Financial Manager

- A firm can assume many different organizational structures. The vice president for finance, also called **the chief financial officer (CFO)**, serves under the firm's chief executive officer (CEO) and is responsible for overseeing financial planning, strategic planning, and controlling the firm's cash flow.
- Typically, a **treasurer and controller** serve under the CFO. In a smaller firm, the same person may fill both roles, with just one office handling all the duties.
- **The treasurer** generally handles the firm's financial activities, including cash and credit management, making capital expenditure decisions, raising funds, financial planning, and managing any foreign currency received by the firm.
- **The controller** is responsible for managing the firm's accounting duties, including producing financial statements, cost accounting, paying taxes, and gathering and monitoring the data necessary to oversee the firm's financial wellbeing.

The Role of the Financial Manager



3. The Legal Forms of Business

The Legal Forms of Business

- The legal forms of business organization fall into three categories:
 - **Sole proprietorship,**
 - **Partnership, and**
 - **Corporation.**
- As the firm grows, the advantages of the corporation begin to dominate, as a result, most large firms take on the corporate form.

Sole Proprietorship

A sole proprietorship is a business owned by an **individual**.

The owner retains the **title** to the business's assets and is **responsible**, generally **without limitation**, for the liabilities incurred.

The proprietor is entitled to the profits from the business but must also absorb any losses.

Termination of the sole proprietorship occurs on the owner's death or by the owner's choice.

Briefly stated, the sole proprietorship is for all practical purposes the absence of any formal legal business structure.



General Partnerships



- The primary difference between a partnership and a sole proprietorship is that the partnership has more than one owner.
- A partnership is an association of two or more persons coming together as co-owners for the purpose of operating a business for profit.
- **Partnerships fall into two types:**
 - (1) General partnerships and
 - (2) Limited partnerships.

General Partnerships

In a general partnership each partner is fully responsible for the liabilities incurred by the partnership.

Thus, any partner's faulty conduct, even having the appearance of relating to the firm's business, renders the remaining partners liable as well.

The relationship among partners is dictated entirely by the partnership agreement, which may be an oral commitment or a formal document.

Limited Partnerships



Limited Partnerships permit one or more of the partners to have limited liability, restricted to the amount of capital invested in the partnership.



Several conditions must be met to qualify as a limited partner.

First, at least one general partner must have unlimited liability.

Second, the names of the limited partners may not appear in the name of the firm.

Third, the limited partners may not participate in the management of the business.



Thus, a limited partnership provides limited liability for a partner who is purely an investor.

Corporations

- The legal definition of a corporation as “**an artificial being, invisible, intangible, and existing only in the contemplation of law.**”
- This entity legally functions separate and apart from its owners.
- As such, the corporation can individually sue and be sued and purchase, sell, or own property, and its personnel are subject to criminal punishment for crimes.
- However, despite this legal separation, the corporation is composed of owners who dictate its direction and policies.
- The owners elect a board of directors, whose members in turn select individuals to serve as corporate officers, including the company’s president, vice president, secretary, and treasurer.



Corporations



Ownership is reflected in common stock certificates, each designating the number of shares owned by its holder.



The number of shares owned relative to the total number of shares outstanding determines the stockholder's proportionate ownership in the business. Because the shares are transferable, ownership in a corporation may be changed by a shareholder simply remitting the shares to a new shareholder.



The shareholder's liability is confined to the amount of the investment in the company, thereby preventing creditors from confiscating stockholders' personal assets in settlement of unresolved claims. This is an extremely important advantage of a corporation.



Finally, the life of a corporation is not dependent on the status of the investors. The death or withdrawal of an investor does not affect the continuity of the corporation. Its managers continue to run the corporation when stock is sold or when it is passed on through inheritance.

Organizational Form and Taxes: The Double Taxation on Dividends

- Historically, one of the drawbacks of the corporate form was the **double taxation of dividends**.
- This occurs when a corporation earns a profit, **pays taxes on those profits** (the first taxation of earnings), and pays some of those profits back to the shareholders in the form of dividends, and **then the shareholders pay personal income taxes on those dividends** (the second taxation of those earnings).
- This double taxation of earnings does not take place with proprietorships and partnerships.
- Needless to say, that had been a major disadvantage of corporations.

Which Organizational Form Should Be Chosen?



Which Organizational Form Should Be Chosen?

- Whereas each business form seems to have some advantages over the others, the advantages of the corporation begin to dominate as the firm grows and needs access to the capital markets to raise funds.
- Because of the limited liability, the **ease of transferring ownership** through the sale of common shares, and the flexibility in dividing the shares, the corporation is the ideal business entity in terms of attracting new capital.



Which Organizational Form Should Be Chosen?

- In contrast, the **unlimited liabilities** of the sole proprietorship and the general partnership are deterrents to raising equity capital.
- Between the extremes, the limited partnership does provide limited liability for limited partners, which has a tendency to attract wealthy investors.



Which Organizational Form Should Be Chosen?

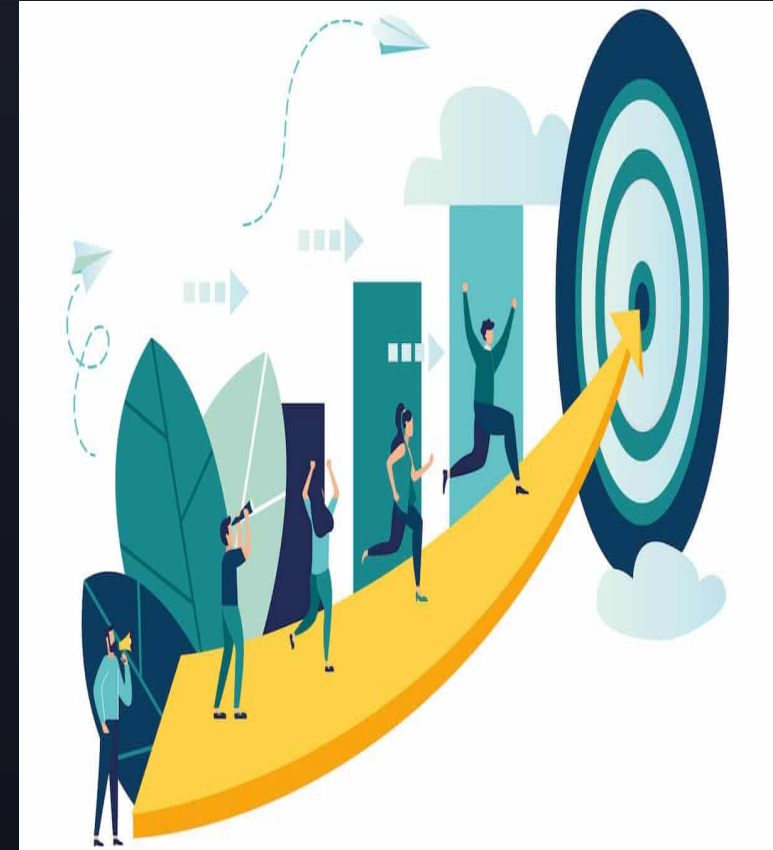
- However, the impracticality of having a large number of partners and the restricted marketability of an interest in a partnership prevent this form of organization from competing effectively with the corporation.
- Therefore, when developing our decision models, we assume we are dealing with the corporate form and corporate tax codes.



4. The Goal of the Firm

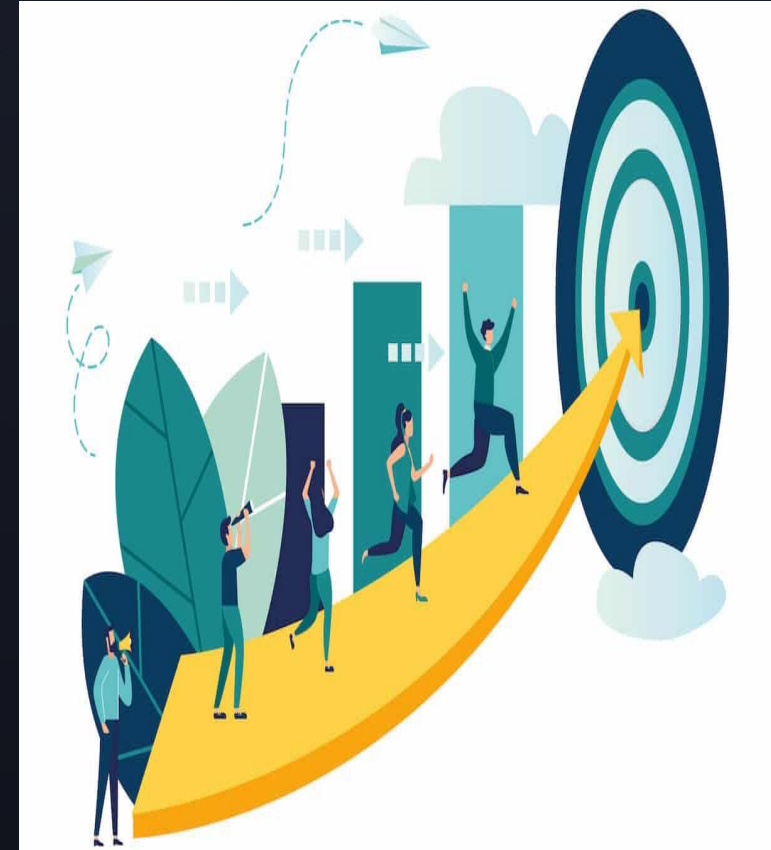
The Goal of the Firm

- The fundamental goal of a business is to create value for the company's owners (shareholders). This goal is frequently stated as “***maximization of shareholder wealth***” as Shareholders are the legal owners of the firm.
- Thus, the goal of the financial manager is to create wealth for the shareholders, by making decisions that will maximize the price of the existing common stock.



The Goal of the Firm

- Not only does this goal directly benefit the shareholders of the company but it also provides benefits to society as scarce resources are directed to their most productive use by businesses competing to create wealth.
- We have chosen maximization of shareholder wealth—that is, **maximizing the market value of the existing shareholders' common stock**—because all financial decisions ultimately affect the firm's stock price.
- **In effect, under this goal, good decisions are those that create wealth for the shareholder.**



The Goal of the Firm

Contd'

Investors react to poor investment or dividend decisions by causing the total value of the firm's stock to fall, and they react to good decisions by pushing up the price of the stock.

Obviously, there are some **serious practical problems in using changes in the firm's stock to evaluate financial decisions.**

- Many things affect stock prices; to attempt to identify a reaction to a particular financial decision would simply be impossible, but fortunately that is unnecessary.
- To employ this goal, we need not consider every stock price change to be a market interpretation of the worth of our decisions. Other factors, such as changes in the economy, also affect stock prices.

Accordingly, what we do focus on is the effect that our decision should have on the stock price if everything else were held constant.

The market price of the firm's stock reflects the value of the firm as seen by its owners and takes into account the complexities and complications of the real-world risk.



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Thank You

