

Corporate Finance

Prof. Pedro Saffi

SKKU International Summer Semester (ISS) 2016

Session 1 - What is Corporate Finance?



UNIVERSITY OF
CAMBRIDGE
Judge Business School

Roadmap

- ▶ Overview
- ▶ What is Corporate Finance?
- ▶ The two big questions of Corporate Finance.
- ▶ How are firms organized?
- ▶ Agency costs.

Basic Questions

- ▶ Corporate Finance focuses on two problems:
- ▶ What should firms spend their money on?
 - Investment Decisions
- ▶ Where should they get the money from?
 - Financing Decisions

Where to Spend Money On?

- ▶ Answer depends on the value of our investments.
- ▶ This value comes from future cash-flows. But these are:
 - often uncertain,
 - and often occur at different points in time.
- ▶ How to find the value today of future (uncertain) cash-flows?
 - Use expectations of future flows, discounted to today.
 - Discounting: what is the risk of these future cash-flows?

No Free Lunch

- ▶ There is a common theme in all of Finance \Rightarrow No-arbitrage:
 - Essentially “you get what you pay for”.
- ▶ Fair value of anything is the present value of all CFs it generates for you over its lifespan.
 - If too cheap relative to future expected CFs \Rightarrow Price \uparrow
 - If too expensive relative to future expected CFs \Rightarrow Price \downarrow
- ▶ Market forces will make sure prices don't deviate from their fair price.
 - This is what we mean by: “There is no free-lunch”.
- ▶ Example 1: McDonald's Happy Meal

Value of a Relationship?

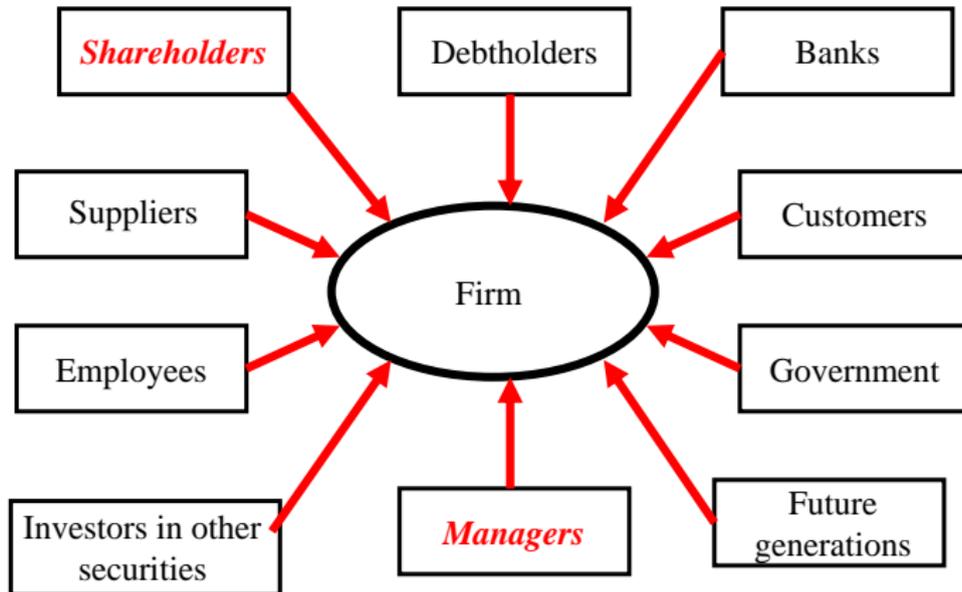
- ▶ Benefits of Getting a Boyfriend/Girlfriend/Wife/Husband?
 - Receive gifts!
 - Higher income (if partner works)
 - Can have kids to support you when you are old.
 - Decreased health costs.
 - Love (of course!)

- ▶ Costs:
 - Give gifts!
 - Cannot meet other potential partners (opportunity cost)
 - Change habits.
 - Emotional costs of potential breakup.

- ▶ Can we (should we) translate that into monetary flows?

What is a Firm?

A firm is a nexus of contracts between the stakeholders



Types of Firms

- ▶ Sole Proprietorship (Ex. Coffee shop):
 - Pros: Easy to set up, subject to few regulations,
 - business pays no corporate income taxes.
 - Cons: difficult to raise large amounts of funds, unlimited personal liability,
 - business ceases when the proprietor dies.

- ▶ Partnership (General Partnership / Limited Partnership):
 - Pros: low cost and ease of formation.
 - Cons: unlimited liability, limited life at the organization,
 - difficulty of transferring ownership, tough to raise large amounts of capital.

- ▶ Corporation (Ex.: Apple, Google, Alibaba):
 - Pros: Unlimited life, easy transferability of ownership, limited liability.
 - Cons: Double taxation, legal requirements to comply.

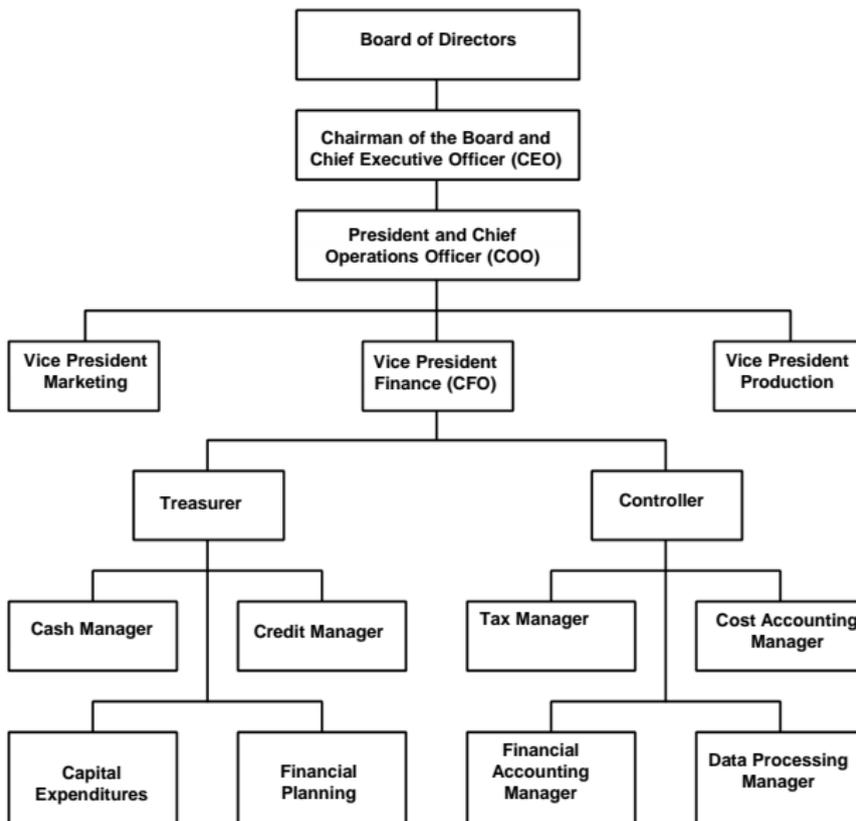
What is the Best Form?

- ▶ Being a corporation is likely the most efficient way:
 - Limited liability reduces risk. In general, lower risk = higher firm value all else equal.
 - Easier access to capital.
 - Shares are more liquid (i.e. more easily transferred).

- ▶ Earliest corporation still in operation is in Japan.
 - Nisiyama Onsen Keiunkan hotel: Founded in 705 AD.
 - 46 generations in the same family!

- ▶ Most of the oldest companies are in Japan, Germany, Netherlands and France.

Typical Structure of a Firm



What is the goal of a corporation?

- ▶ What should a manager do?
- ▶ Non-Financial Goals:
 - Be greedy and have as many perks as possible? ×
 - Pollute as much as possible? ×
 - Work for World Peace? ×

Theory vs. Practice

- ▶ In theory, a firm should maximize welfare of all stakeholders.
 - In an efficient firm it is not possible improve one set without hurting others.
- ▶ In practice, firms are run by **managers**.
 - If managers don't have good incentives, he might not do what is best for everyone else.
 - The **corporate governance** system of the firm deals with creating the proper incentives and solving conflicts of interest.
- ▶ The main objective assigned to managers is to **maximize shareholder's value**.
 - Only system that has stood test of time.
 - Other stakeholders write contracts to protect their stakes.
- ▶ In this course, shareholder value maximization is our objective.

Why Maximize Shareholder Value?

- ▶ Because the stock market is the most efficient and liquid (or, if you prefer, the least inefficient and illiquid) market.
- ▶ Thus, the evolution of shareholder value is easier to track than that of other stakeholders' values.
- ▶ Since shareholders' value creation can be measured and verified it can be used to incentivize managers (carrots and sticks).
- ▶ Correct Goals:
 - Maximize shareholder wealth ✓
 - Maximize share price ✓
 - Maximize Firm value ✓
- ▶ Will managers always work in the shareholders' best interests?

Agency Costs

- ▶ Agency costs:
 - Conflicts of interest arise whenever someone (i.e. the agent) is acting on behalf of someone else (principal).
 - Conflicts of interest between managers and shareholders.
 - Conflicts of interest between managers and stockholders.
 - Conflicts between different shareholders.
 - Same as politicians and voters.

Conflicts between Managers vs. Shareholders

- ▶ A potential conflict arises whenever a firm is less than 100% owned by managers.

- ▶ In large firms, managers generally own only a small percentage of the stock.

- ▶ Managers might be more interested in maximizing firm size to:
 - increase their own power, status, and salaries.
 - increase job security because a hostile takeover is less likely in a large rapidly growing firm.
 - create more opportunities for their lower and middle level managers.

Types of Agency Costs

▶ Direct Costs:

- Monitoring (i.e. auditing and compliance).
- Structuring to limit managerial misbehavior (e.g. outside directors).
- Direct expenditures by managers (e.g. planes, corporate perks, etc.)

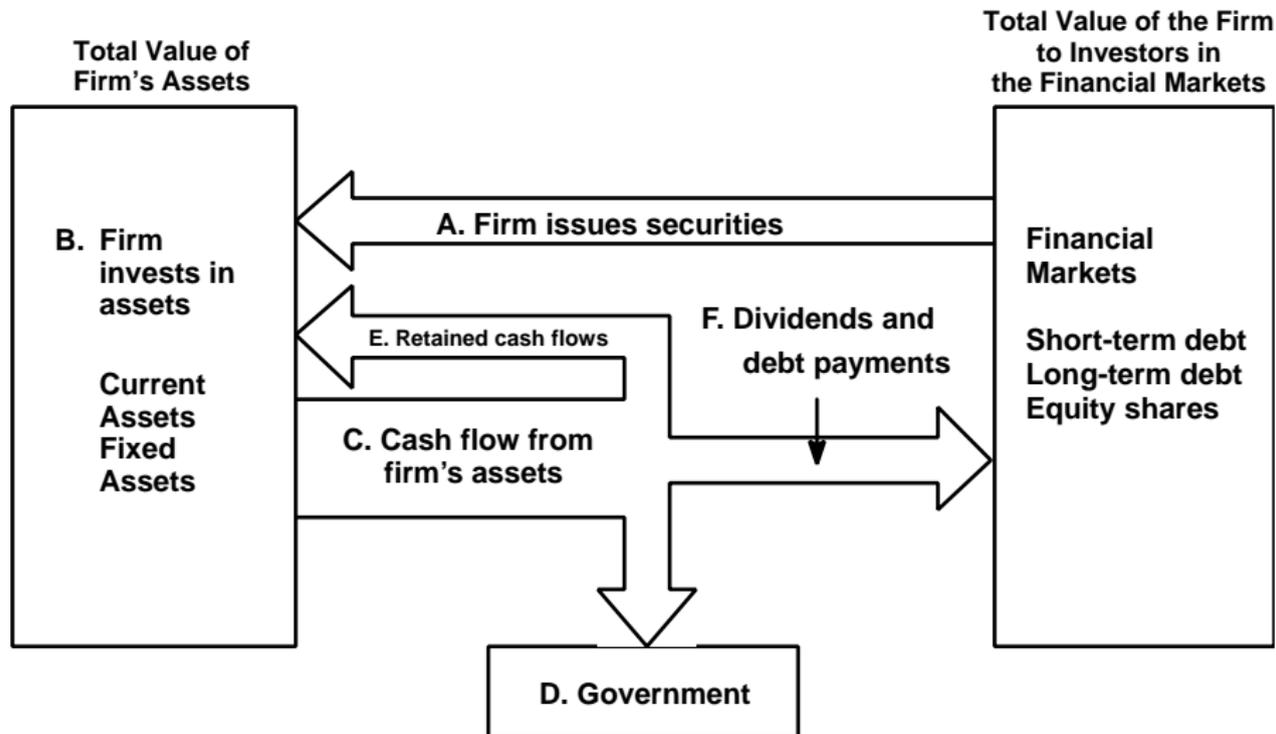
▶ Indirect Costs:

- Opportunity costs arise due to shareholder-imposed restrictions.
- Preventing “bad” actions make managers sometimes unable to take “good” ones.

How do we deal with agency problems?

- ▶ It is all about giving proper incentives.
 - Performance based incentive plans.
 - Direct intervention by shareholders.
 - The threat of firing.
 - The threat of takeover by someone else.

Valuation



Calculating Value & Investment Decisions

- 1 Calculate the cash flows (inflows and outflows) in every period.
- 2 Calculate the present value of all these cash flows
 - \$100 today is not the same as \$100 in the future.
 - Need to determine a discount rate.
- 3 Add them all together.
- 4 This results in the **present value** of future cash-flows.
- 5 Subtract initial costs (I_0) to get the **Net Present Value (NPV)**
- 6 Decision Rule: Take action \Leftrightarrow if the NPV is positive.

Calculating Value & Investment Decisions

- 1 Calculate the cash flows (inflows and outflows) in every period.
- 2 Calculate the present value of all these cash flows
 - \$100 today is not the same as \$100 in the future.
 - Need to determine a discount rate.
- 3 Add them all together.
- 4 This results in the **present value** of future cash-flows.
- 5 Subtract initial costs (I_0) to get the **Net Present Value (NPV)**
- 6 Decision Rule: Take action \Leftrightarrow if the NPV is positive.

Summary

- ▶ Main Idea: Maximize shareholder value
- ▶ How does a firm interact with the outside world?
- ▶ What should be the goal of a corporation?
- ▶ What are agency costs and the different types of costs.
- ▶ What is the benefit of financial markets in the economy?
- ▶ How can a manager maximize firm value without worrying about different types of shareholders?