

ECON 4245 Economics of the Firm

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13 lectures; 6 seminars (in two groups)

Lecture slides available before each lecture at:

<http://www.uio.no/studier/emner/sv/oekonomi/ECON4245/v09/>

Course topic: **the firm**

- The firm's relationship with
 - Investors
 - Creditors
 - Suppliers
 - Employees (managers)

- Applying *economics* to understand these relationships
 - The economics of information
 - Contract theory
 - Three essential informational problems
 - Hidden action
 - Hidden information
 - Non-verifiable information

- At the centre stage: the firm/investor relationship
 - Corporate governance
 - Corporate finance
 - How are firms managed?
 - How are firms financed?
 - How do informational problems affect these questions?

Textbook: Jean Tirole, *The Theory of Corporate Finance*

- A unified treatment of the topic
- Building on a simple model
 - Hidden action (moral hazard)
- Required reading: chapters 1 through 11, including supplementary sections (unless noted otherwise).

Overview

- Basics:
 - (a) one-stage financing: fixed and variable investment models;
 - (b) applications: debt overhang, diversification, collateral pledging, redeployability of assets.
- Multistage financing: liquidity ratios, soft budget constraint, free cash flow.
- Financing under asymmetric information.
- Exit and voice in corporate governance.
- Control rights.

(in the book, but not in the course:
macroeconomic implications of corporate finance;
political economy of corporate finance)

Corporate governance

- How *suppliers of finance* to a firm make sure they get returns on their investments.
 - Investors
 - Creditors
- How *corporate insiders* can credibly commit to returning funds to outside investors, thus attracting external finance
 - Insiders: management; current owners
- A narrow definition
 - Stakeholders vs shareholders
 - Employees, customers, suppliers, communities

The separation of ownership and control

- Berle and Means, *The Modern Corporation and Private Property* (1932).
- Corporate insiders may not act in the interest of the providers of funds.
- How to deal with this problem?
 - Incentives
 - Monitoring

The moral-hazard problem

- Moral hazard is an awkward term but the one commonly used
 - No implication of immoral behavior
 - Behavioral risk; hidden action
- Owner/manager conflict
 - Manager does not always act in the interest of owners
- Insufficient effort
 - Insufficient internal control of subordinates
- Allocation of effort across tasks
 - Workforce reallocation, supplier switching
- Overinvestment
 - Pet projects, empire building, acquisitions
- Entrenchment
 - Managers making themselves indispensable
 - Manipulating performance measures
 - Being excessively conservative in good times, excessively risk-taking in bad times
 - Resisting takeovers
 - Lobbying against shareholder activism
- Self-dealing
 - Perks: private jets, big offices, etc.
 - Picking successor
 - Illegal activities: theft, insider trading, etc.

When corporate governance does not work

- Lack of transparency
 - Shareholders do not observe compensation details, such as perks and stock options
- Level of compensation
 - Tripling of average CEO compensation in the US 1980-1994, a further doubling until 2001.
 - Average CEO/worker compensation ratio in the US went from 42 in 1982 to 531 in 2000.
 - Proponents argue this is a byproduct of more performance-based pay.
 - Norway: average CEO/worker compensation ratio at 10 in 2005
 - Smaller companies than the US ones
 - Report by Randøy and Skalpe (2007)
- Fuzzy links between performance and compensation
 - Bebchuk and Fried, *Pay without Performance* (2004).
 - Compensation in an oil company based on stock price, when management has little control over the oil price.
 - Golden parachutes when leaving.
- Accounting manipulations
 - The Enron scandal.
 - Manipulating stock price, and therefore compensation.
 - Hiding bad outcomes and therefore protecting against takeovers.

Managerial incentives

- Monetary incentives
 - Compensation
 - Salary: fixed
 - Bonus: based on accounting data
 - Stock-based incentives: based on stock-market data
 - Bonuses vs. stock-holdings
 - Bonuses provide incentives for short-term behavior
 - Shares provide incentives for long-term behavior
 - The two are complements, not substitutes
 - The compensation base
 - Indexing
 - Relative performance
 - Shares vs. stock options
 - Stock options provide stronger incentives
 - ... but do not perform well after a downturn (excessive risk, lack of credibility).
 - Too low managerial incentives in practice?
 - In the US in the 1980s, the average CEO kept 3% of shareholder wealth; later estimate: 2.5%.
 - But incentives are costly to owners, because of manager risk aversion
 - ... and owners must also take care of *team incentives*.
- Implicit incentives
 - Keeping the job
 - Firing or takeover following poor performance
 - Bankruptcy
 - Career concerns
 - Explicit vs implicit incentives
 - Substitutes: Strong implicit incentives lower the need for explicit incentives
 - ... but this is difficult to trace empirically.

Managerial incentives, cont.

- Monitoring
 - Boards of directors
 - Auditors
 - Large shareholders
 - Large creditors
 - Stock brokers
 - Rating agencies
- Active monitoring
 - Interfering with management in order to increase the value of one's claims in the firm.
 - Linked to exercising control rights
 - Forward looking
 - Examples
 - large shareholder sitting on the board
 - resolutions at general assembly
 - takeover raid
 - creditor negotiations during financial distress
- Speculative monitoring
 - Not linked to control rights
 - Partly backward looking, aiming at *measuring* value, rather than at enhancing it.
 - Example: stock-market analysts, rating agencies
 - Provides incentives by making firm's stock value more informative about past performance.
- Product-market competition
 - Relative performance is easier
 - Exogenous shocks are filtered out
- The board of directors
 - Independence; attention; incentives; conflicts
 - Many differences across countries.

Investor activism

- Active monitoring requires control
- Formal control vs real control
 - Formal control: majority owner
 - Real control: minority owner convincing other owners of the need to oppose management
- Proxy fight: discontent share owners seeking a place in the board of directors in order to implement changes

Ownership structure

- Institutional investors, such as pension funds, life insurers, mutual funds
- Cross-shareholdings
 - Firms owning shares in each other
- Ownership concentration: huge variations across countries
 - For example: US vs Italy
- Ownership stability: again international variation

Limits to active monitoring

- Monitoring the monitor: incentive problems inside institutional investors
- Externalities from monitoring
 - One shareholder's monitoring benefits all shareholders – underprovision of monitoring?

The market for corporate control

- Takeovers
 - Keep managers on their toes
 - Make managers act myopically
- Takeover bids: tender offer
- Takeover defenses
 - Corporate charter defenses
 - Making it technically difficult to acquire control
 - Staggered board
 - Supermajority rules
 - Differential voting rights
 - Diluting the raider's equity
 - Scorched-earth policies: selling out those parts of the firm that the raider wants
 - Poison pills
 - Current shareholders having special rights to purchase additional shares at a low price in case of a takeover attempt
 - White knight
 - An alternative acquirer who is friendly to the current management
 - Greenmail
 - Repurchases of stock from the raider, at a premium
 - Management colluding with the raider, at the expense of other owners.
- Leveraged buyout (LBO)
 - Going private, borrowing to finance the share purchase
 - Management buyout (MBO): an LBO by management

The role of debt in corporate governance

- Debt provides management discipline
 - Management has less cash available for perks
 - Management must make sure there is cash flow available in the future for paying back debt
 - If the firm does not pay back debt, creditors can force the firm into bankruptcy
- Debtholders are more conservative than equityholders
 - Debtholders suffer from bad projects, but get no extra benefit from good projects.
- But there are limits to debt
 - Debt means the firm is less liquid, which is costly.
 - Internally generated funds are the cheapest source of capital available for firms.
 - Bankruptcy is costly.

International comparison

- Two broad legal traditions
 - Common law
 - Independent judges
 - Limited codification
 - US, UK
 - Civil law
 - Politically appointed judges
 - Codification
 - France, Germany, Scandinavia

- Differences across legal systems
 - Shareholders have more protection in common law countries
 - Correspondingly, common-law countries have a higher ratio of external capital to GDP.
 - Common-law countries have a more dispersed ownership of firms.

Note: Supplementary section to Tirole's ch. 1 is *not* required reading.