

Economics of the firm: Overview

- Modigliani-Miller theorem: when debt or equity does not matter.
- Simple model of credit rationing: fixed investment model.
 - Incentive compatibility constraint
 - Expected pledgeable income
 - Lenders' breakeven (participation) constraint
 - The extent of moral hazard
- Borrowing capacity: variable-investment model.
 - The equity multiplier
 - The shadow value of equity
- Salvage value of assets: the maximal incentives principle
- Extensions
 - continuum of effort levels
 - risk aversion
 - semi-verifiable or non-verifiable outcome
- Diversification
 - Cross-pledging
- Sequential projects
 - Increased incentives on early project
- Collateral
 - Redeployability
 - Contingent pledging
 - Weak firms pledge more collateral than strong firms
 - Pledging existing assets
- The liquidity-accountability tradeoff
 - later: also an issue for the monitor
 - a possible investment opportunity at an intermediate date
 - Non-verifiable liquidity shock: strategic exit
- Inalienability of human capital
- Liquidity management
 - short-term income in addition to the standard, long-term one

- a stochastic reinvestment need at the intermediate date
- contract includes cutoff value for reinvestment need
- cash-rich firms: stronger firms have less short-term debt
- cash-poor firms: hoarding of reserves
- The liquidity-scale tradeoff
 - variable-investment model
 - tradeoff large investment vs available liquidity
 - continuum of possible liquidity shocks
- Endogenous liquidity shocks
 - cutoff increasing in short-term income in order to provide entrepreneur with incentives to lessen the liquidity problem
 - soft budget constraint
- Asymmetric information
 - Adverse selection: entrepreneurs trying to sell overvalued assets to investors
 - Private information about prospects
 - A measure of adverse selection
 - Private information about assets in place
 - The pecking-order hypothesis: debt preferable to equity
 - Dissipative signals
 - Certification
 - Collateral
 - Good firms pledge more collateral than bad firms
- Product markets
 - Profit destruction: strategic uncertainty about how many other firms succeed
 - Benchmarking
 - Competition: allocating control rights to investors makes the firm look tough
 - Predation: Financially weak firms may be subject to predatory actions by strong firms
 - A long-term financial contract for the weak firm may reduce strong firm's incentives to prey

- Earnings manipulations
 - Managerial myopia: boosting short-term profit at the cost of long-term loss
 - Uninformed manipulation vs informed manipulation
- Career concerns: too little risk taking?
- Herding
- Effort and risk taking: a two-dimensional incentive problem
- Investor monitoring
 - Active vs passive monitoring
 - Prospective vs retrospective information
 - Passive monitoring: monitoring early performance
 - Enlisted monitor vs market monitoring
- Investor activism: active monitoring
 - Incentives for the monitor
 - Scope for overmonitoring
 - Scarce monitoring capital
 - Collusion between entrepreneur and monitor
 - Monitor as advisor
 - Dynamics of active monitoring: learning by lending
 - Monitors with liquidity needs
- Control rights
 - Allocation of control rights may affect pledgeable income
 - Multiple control rights
 - Contingent control
 - Noncontractible investments: managerial initiative
 - Real vs formal control
- Takeovers: tradeoff efficiency vs rent extraction
 - Incentive effects of takeovers
 - Modelling takeovers in practice