

# Corporate Financing and Investment Decisions When Firms Have Information That Investors Do Not Have

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# Main Findings: Asymmetric Information Can Reduce Firm Value

- ❶ Asymmetric information between firm management and investors can reduce firm value as positive NPV projects are foregone
- ❷ Consider a firm with assets in place and profitable investment opportunity (positive NPV)
  - If invested, project has to be financed by issuance of new equity
  - Management has superior information about value of firm's assets and investment opportunity that investors do not have ("know the true state of nature"), and acts in old shareholders' interest
  - New equity issued only if: share of existing assets and cash going to new shareholders is smaller than share of increment to firm value obtained by old shareholders
  - If current equity is undervalued in the market, there are cases where it is optimal to forego profitable investment because new equity would have to be sold too cheap  
⇒ Lower ex-ante firm value
  - Issuing equity can signal overvaluation ("bad state of nature") ⇒ stock price drops
- ❸ Conveying information from firm to investors is costly

# Main Findings: Asymmetric Information Can Reduce Firm Value

- ① Alternative: Firm has sufficient cash to finance investment internally
  - Avoids external financing and thus avoids possible conflict between old and new shareholders
  - Positive NPV projects are always invested
- ② Alternative: Debt financing is possible
  - Risk-free debt: problem vanishes, firm never passes up positive-NPV opportunities (as good as holding cash)
  - Risky debt: still some profitable opportunities might be foregone, but opportunity loss is smaller than with equity
    - ⇒ Ex-ante firm value is higher under debt financing, because loss due to underinvestment is less
    - ⇒ Firms prefer debt over equity; never issue new equity
- ③ Problem is larger the larger the amount that has to be raised externally

# Implications for Financing Policy and Further Questions

## Implications for Financing Policy:

- Firms prefer internal financing to financing by security issues
- When they issue, debt is preferred over equity
- Firms with insufficient cash at hand may not undertake all valuable investment opportunities
- Firms have incentive to build up cash reserves in order to avoid security issues under asymmetric information
  - Raise equity and/or debt when asymmetry of information is low (assuming information asymmetry is only temporary)
  - Retention of earnings, i.e. limit dividends
  - When managers have superior information and stock is issued, stock price will fall (bad signal)

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## Further Questions:

- What if firm could be split up, i.e. splitting assets in place from profitable investment opportunities?
- What happens if there are agency and bankruptcy costs of debt?