Corporate Governance

Mansfield Ch 16

Introduction

- Firms are not just individual entities they are made of individuals: workers and managers and shareholders
- Conflicts of interests may arise when interests of individuals or groups differ
- Principal agent problem
- May need incentive schemes to deal with

Principal agent

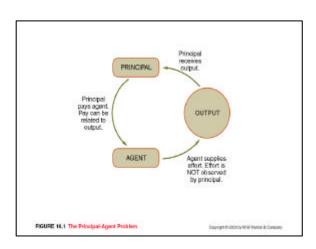
- Main problem in business concerns conflicts of interests between managers and owners
- Shareholders interested in maximising return or value of assets
- High profits, rising stock prices
- Managers may be interested in same

Principal agent

- But other possible objectives include:
 - Minimising effort
 - Maximising job security
 - Avoiding failure
 - Enhancing reputation and employment opportunities
 - Consuming prerequisites
 - Maximising and compensation

Principal agent

- Managers may have strategies that suit them rather than the principals: eg maximise sales rather than profits, minimise effort
- Consider the general problem:
 - principal employs an agent to produce an output
 - Principal cant observe output

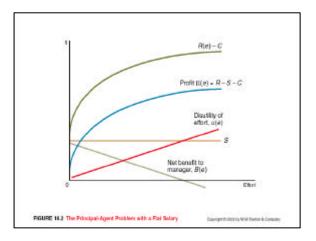


Principal agent

- Need to align interests in some way
- · Moral hazard problem
- Examples:
 - Separation ownership and control
 - Corporate governance: shirking
 - Charitable giving: excessive
 - Influencing takeovers

Principal agent model

- Consider no risk situation
- To achieve target profit requires effort by managers –sacrifice
 - $-\Pi = R(e) (S+C)$
 - Revenue based on effort less managers (flat) salary and other costs
 - U(e) disutility of supplying effort
 - -B(e) = K U(e) net benefit to manager

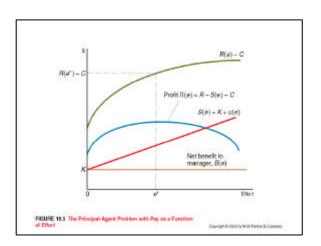


Principal agent

- The manager is paid a fixed amount
- The manager minimises effort
- Revenues and profits suffer

Principal agent

- Solution is to reward managers based upon their effort
 - S(e) = S + U(e)
 - $-\ \Pi(e) = R(e) S(e) C$
 - = R(e) (K + U(e)) C
 - Solve for profit and hence effort
 - $d\Pi(e)/de = dR(e)/de dU(e)/de = 0$
- Marginal benefit from effort in terms of increased revenue is equal to the marginal cost of compensating managers for effort
- Shareholders would want to get e*



Principal agent

- Manager will get:
 - B(e) = S(e) u(e) = K + U(e) u(e)
 - If U(e) = u(e) then B(e) = K
 - Manager compensated for effort and happy to provide
- But how principal ensure e*
- · Need to be able to observe and evaluate without
- · But cannot

Principal agent

- · So effort cannot be rewarded directly
- Solution is to give the manager a share of profits as bonus

Then $S(e) = U(e) + \alpha \Pi(e)$ So $\Pi(e) = R(e) - U(e) - C$

- Net benefit to manager is now $B(e) = S(e) - u(e) = U(e) + \alpha \Pi(e) - u(e)$ And if U(e) is set equal to u(e) $B(e) = \alpha \Pi(e)$
- · Both principal and agent are interested in maximising profit

Principal agent

- Have incentive compatibility
- Step 1: Manager chooses level of effort to maximise $\Pi(e)$
- Step 2: Firm chooses α such that the compensation package s competitive
- Have incentive compatible contract

Principal Agent

- · Principal agent problems will generally observe
- This means compromises
 - Management success can be luck
 - · Effort may not show up in success
- Executive compensation will need both:
 - Efficiency: as dealt with before
 - Risk sharing: divide between stakeholders
 Managers less diversified interests

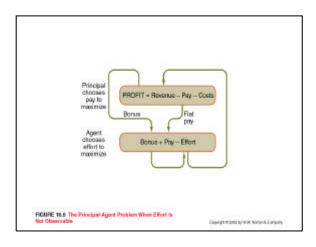
 - Risk can be more easily taken by shareholders than managers
 - Should pay flat salary?

Principal agent

· Reconcile by sharing risk

R(e) = Rm(e) + Ro(e)m is under managers control o not $S = K + \alpha \Pi(e)$ $\Pi(e) = Rm(e) + Ro(e) - E - C$ $B(e) = EU(S) - u(e) = EU(E + \alpha\Pi(e)) - u(e)$

- · Owner pays some flat pay to provide some income to risk averse manager, plus share of profits to encourage effort
- · This increases revenue and profit
- No payment directly related to effort as not observable



Compensation plans

- Compensation plans can be designed to motivate effort with different levels of risk imposed on them
- W is wealth

