Software Engineering II

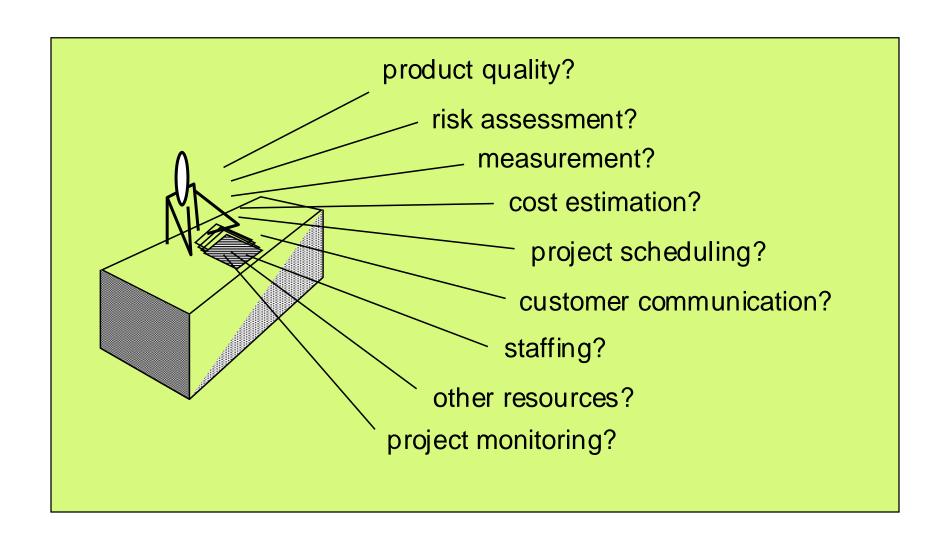
Lecture 3

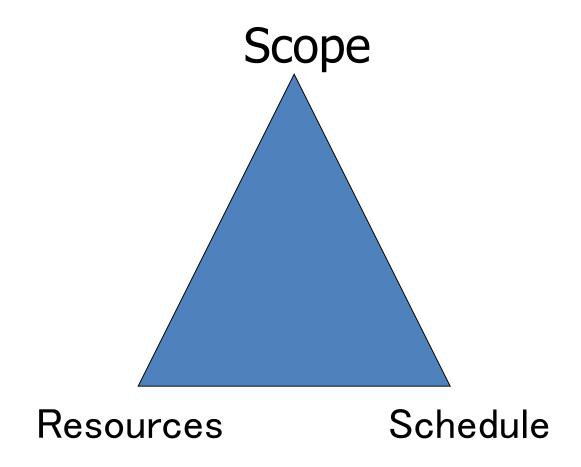
Project Management

- Software Projects factors that influence results:
 - size
 - delivery deadline
 - budgets and costs
 - application domain
 - technology to be implemented

- system constraints
- user requirements
- available resources

Project Management Concerns





Why Projects Fail?

- changing customer requirements
- ambiguous/incomplete requirements
- an unrealistic deadline is established
- an honest underestimate of effort
- predictable and/or unpredictable risks
- technical difficulties
- miscommunication among project staff
- failure in project management

Team Leaders

- MOI model of leadership Weinberg
 - Motivation:
 - The ability to encourage technical people to produce their best
 - Organization:
 - The ability to mold the existing processes (or invent new ones) that will enable the initial concept to be translated into a final product
 - Idea or innovation:
 - The ability to encourage people to create and feel creative

- Democratic decentralized (DD)
- Controlled decentralized (CD)
- Controlled centralized (CC)

- Democratic decentralized (DD)
 - No permanent leader
 - Task coordinators are appointed for short duration
 - Decisions on problems and approach are made by group consensus
 - Communication among team is horizontal "team members interact and share information on an equal level"

- Controlled decentralized (CD)
 - Defined leader who coordinates specific tasks
 - Problem solving remains a group activity
 - Communication among subgroups and individuals is horizontal.

- Controlled centralized (CC)
 - Top level problem solving and internal team coordination are managed by the team leader
 - Communication between the leader and team members is vertical.