



#### Successful software teams

- Studies show a 10 to 1 difference in productivity of programmers
- Equal differences observed in productivity of teams
- Substantial differences observed in performances of teams even when the strength of the programmers is equivalent



### What makes a successful team?

- Shared, elevating vision Mutual trust or goal
- Team identity
- Results driven structure
- Competent team members
- Commitment to the team
- Interdependence among team members
- Effective communication
- Sense of autonomy
- Sense of empowerment
- Small team size
- High level of enjoyment



## Team building

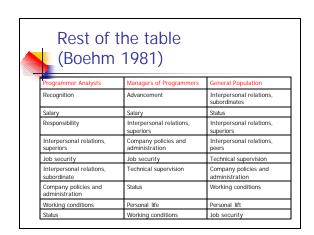
- Team members derive satisfaction from the team's accomplishments
- Important to both
  - Reward the team's success
  - Maintain individual accountability



#### Motivation

 Motivation is undoubtedly the single greatest influence on how well people perform. Most productivity studies have found that motivation has a stronger influence on productivity than any other factor. (Boehm 1981)







# Top five motivation factors

- Achievement
  - Ownership
  - Goal setting
- Possibility for Growth
- Work itself
  - Skill variety
  - Task identity
  - Task significance

  - AutonomyJob feedback



# Top five motivation factors

- Opportunity to focus on the work itself
  - Reduce administration
  - Remove obstacles
- Personal life
- Technical-supervision opportunity
  - Assign each developer to be technical lead for some particular product area



# How not to manage:

- Morale killers
- Management manipulation
- Management manipulation
  Excessive scheduling pressure
  Lack of appreciation for team member's efforts
  Inappropriate involvement of technically inept management
- Not involving team members in decisions that affect them
- Productivity barriers
- Low quality
  Heavy handed motivation campaigns
- Frequent changes in direction