

1 Management Dimensions

1. The 4-Ps: People, Product, Process, Project

2. People:

(a) staffing

(b) communication and coordination

(c) work environment

(d) performance management

(e) training

(f) compensation

(g) competency analysis

(h) career development

(i) workgroup development

(j) team/culture development

(k) Stakeholders:

i. senior managers (product owners); define business

ii. project (tech) managers: plan, motivate, organize, coordinate,

iii. practitioners: those who use tech skills to build thing.

iv. customers: who specify requirements

v. end-users: who interact with software once it is released.

(l) Team Leads:

i. practice what they preach

ii. inspire shared vision

iii. challenge; encourage risks and experimentation; generate small successes, and learn from failures.

iv. inspire team decision making;

v. celebrate individual accomplishments (never blame/criticize individuals).

(m) Software Team

(n) Team size factors

i. difficulty of problem

ii. size of resulting program

iii. time team will stay together

iv. degree of modularity

v. quality and reliability

- vi. rigidity of delivery dates
- vii. degree of sociability (communication).

3. Product:

- (a) product objectives
- (b) product scope
- (c) alternate solutions
- (d) technical constraints
- (e) management constraints

4. Process:

- (a) Provide framework to build the product.
- (b) quality assurance
- (c) software configuration management
- (d) measurements

5. Project:

- (a) the whole collection of activities that results in success