Requirements Management
Objectives

In this chapter, you will learn about management issues for requirements development:

- Planning
- Monitoring Progress
- Controlling Progress
Before starting the RE project it is necessary to understand:

1. What needs to be done
2. Activities to be undertaken
3. Possible dependencies between the activities
   - Activity “C” can only start when activity “B” is completed?
4. What type of skills are required to perform the various activities

Generate a plan to concentrate on outputs of each activity
The RE Management Process varies depending on the type of organization:

- **Acquisition Organization**
  - Purchase systems and use them to provide an operational capability
  - Focus is to create and manage stakeholder requirements, which serve as the basis for acceptance of delivered system

- **Supplier Organization**
  - Respond to bids and proposals (acquisition requests) from other entities
  - Receive input (high-level) requirements from the entities

- **R&D Companies**
  - Develop and sell products
  - Collect stakeholders requirements from the market place
  - Develop requirements in response to stakeholders requirement
  - Usually will include processes for Acquisition and Supplier organizations
Requirements Management

R & D Organization

Planning Phase (new product)

- Concept description – the initial idea
  - Elicit stakeholders requirements and produce an outline of solution
  - Identify stakeholders and user scenarios
    - Surrogate stakeholders (volunteers)
  - Develop a set of high-level stakeholders requirements
  - Develop a solution outline (similar to a proposal)

- Review high-level stakeholders requirements and the solution outline with management team
  - May get the go ahead
  - Develop in stages
    - Define objectives/deliverables & allocate budget
  - Other
Requirements Management
Planning Phase: stage Gates and Project Work

Goals

- Initial Gate
- Stage Gate 1
- Stage Gate 2
- Stage Gate 3

Stage 1 Objectives
Stage 2 Objectives
Stage 3 Objectives

Stage 1 Planning
Stage 2 Planning
Stage 3 Planning

Stage 1 Information State Required
Stage 2 Information State Required
Stage 3 Information State Required

Stage 1 Work
Stage 2 Work
Stage 3 Work

Project Information Base
Requirements Management
Planning Phase

Review work done at end of every stage against stated objectives

- Review project against current business objectives
- If project is allowed to continue to next stage
  - Allocate budget
  - Otherwise cancel or do more initial investigation