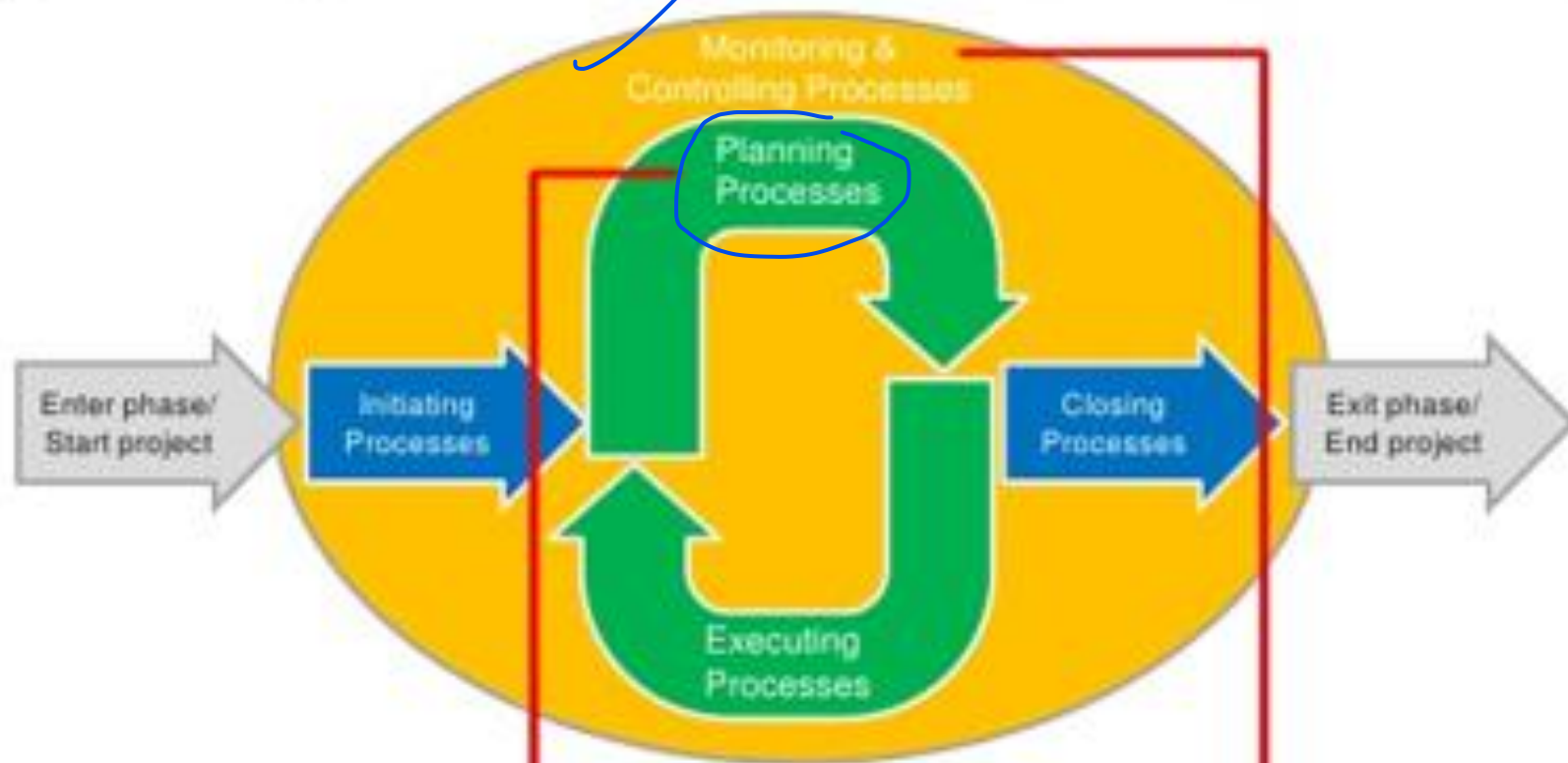


# Software Project Management

# ✓ Project Scope

- The project scope is a document that defines the parameters—factors that define a system and determine its behavior—of the project, what work is done within the boundaries of the project, and the work that is outside the project boundaries.



Knowledge Area	Process				
	Initiating	Planning	Executing	Monitoring & Control	Closing
Scope		Collect Requirements Define Scope Create WBS		Verify Scope Control Scope	

Process Group	Integration Management Process	Major Output
Planning	P1: Plan Scope Management	Scope Mgmt Plan Requirement Mgmt Plan
	P2: Collect Requirements	Req. Documentation Req. Traceability Matrix
	P3: Define Scope	Project Scope Stmt Project Docs Update
	P4: Create WBS	Scope Baseline Project Docs Update
Monitoring and Controlling	MC1: Validate Scope	Accept Deliverables Change Requests Work Performance Info
	MC2: Control Scope	Change Requests Project Mgmt Plan Updates Org, Process Asset Updates



# Project Scope Management Processes

- Planning scope
- Collecting requirements
- Defining scope
- Creating the WBS
- Validating scope
- Controlling scope

**Planning**

- Process: **Plan scope management**  
Outputs: Scope management plan, requirements management plan
- Process: **Collect requirements**  
Outputs: Requirements documentation, requirements traceability matrix
- Process: **Define scope**  
Outputs: Project scope statement, project documents updates
- Process: **Create WBS**  
Outputs: Scope baseline, project documents updates

**Monitoring and Controlling**

- Process: **Validate scope**  
Outputs: Accepted deliverables, change requests, work performance information, project documents updates
- Process: **Control scope**  
Outputs: Work performance information, change requests, project management plan updates, project documents updates, organizational process assets updates

Project Start

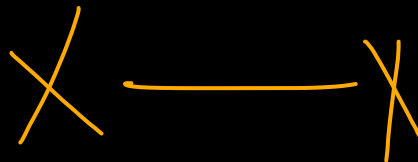
Project Finish

# Components of Scope Management

- According to the PMI, the scope statement should include the following:

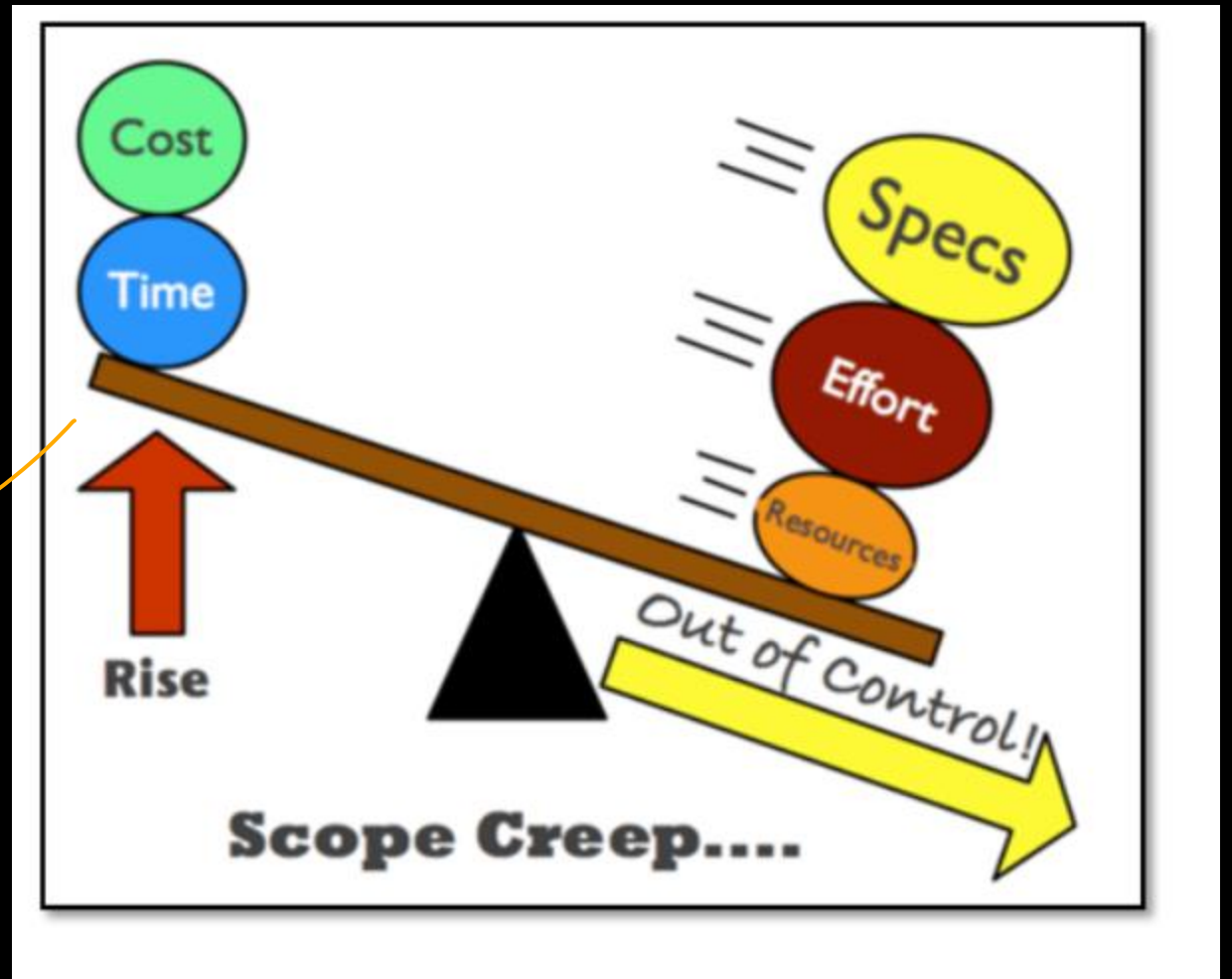
- Description of the scope
- Product acceptance criteria
- Project deliverables
- Project exclusions
- Project constraints
- Project assumptions

ADEIAC



# ★ Scope Creep

- It is the **process** by which a **project grows beyond its originally anticipated size.**



# ✧ How to Manage Scope Creep

1. Identify stakeholders' needs
2. Define Deliverables
3. Deliverables to actual task lists
4. Major and Minor milestones
5. Steps to follow while preparing the Project Schedule




# ✓ Sample Project Scope Definition

The project will be delivered within 15 months from the date of start of the project. The software product that will be made through this project will have features for customer complaint logging, issue resolution, and issue closure. The software product should have the capability of supporting our customer base of 10,000, who will be using the service through an Internet connection by logging into our web portal.

# Sample Project Objectives

The organization will be able to increase customer satisfaction to 99.5% from the existing level of 92%. This will help in reducing customer attrition, increasing repeat business from existing customers, and enhancing our brand value.

# One Plan for all?

- 
- Project Size
  - Product Quality
  - Technology
  - Code Reuse

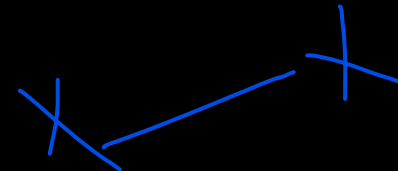
# Scope Definition is part of Project Planning




- **Scope planning** – specifying the in-scope requirements for the project to create the work breakdown structure
- **Preparation of work breakdown structure** – breakdown of the project into tasks and sub-tasks
- **Project schedule development** – listing the entire schedule of the activities and detailing sequence of implementation
- **Resource planning** – specifying who will do what work, at which time, and special skills needed to accomplish the project tasks
- **Budget planning** – specifying the budget/cost to be incurred at the completion of the project

# Scope Definition is part of Project Planning

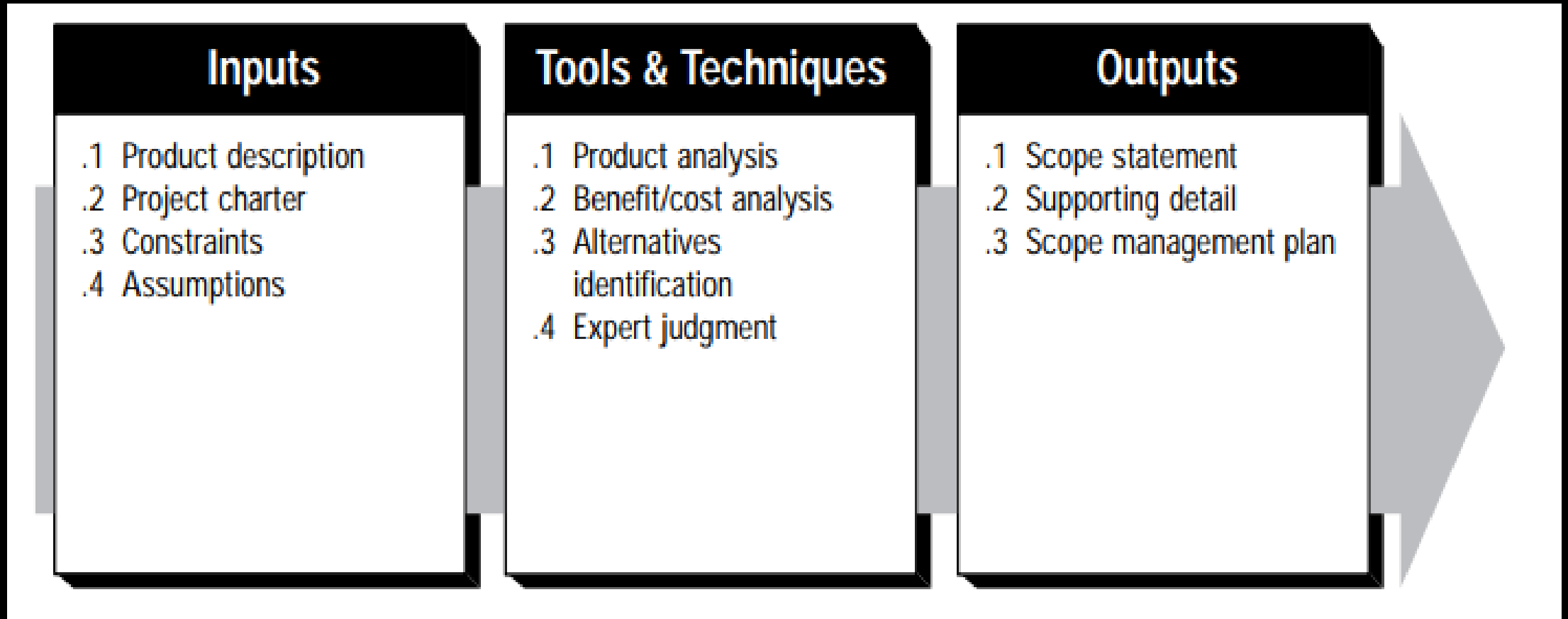
- **Procurement planning** – focusing on **vendors and subcontracting**
- **Risk management** – planning for possible risks and considering optional contingency plans and mitigation strategies
- **Quality planning** – assessing quality criteria used for the projects.
- **Communication planning** – designing the communication strategy with all project stakeholders



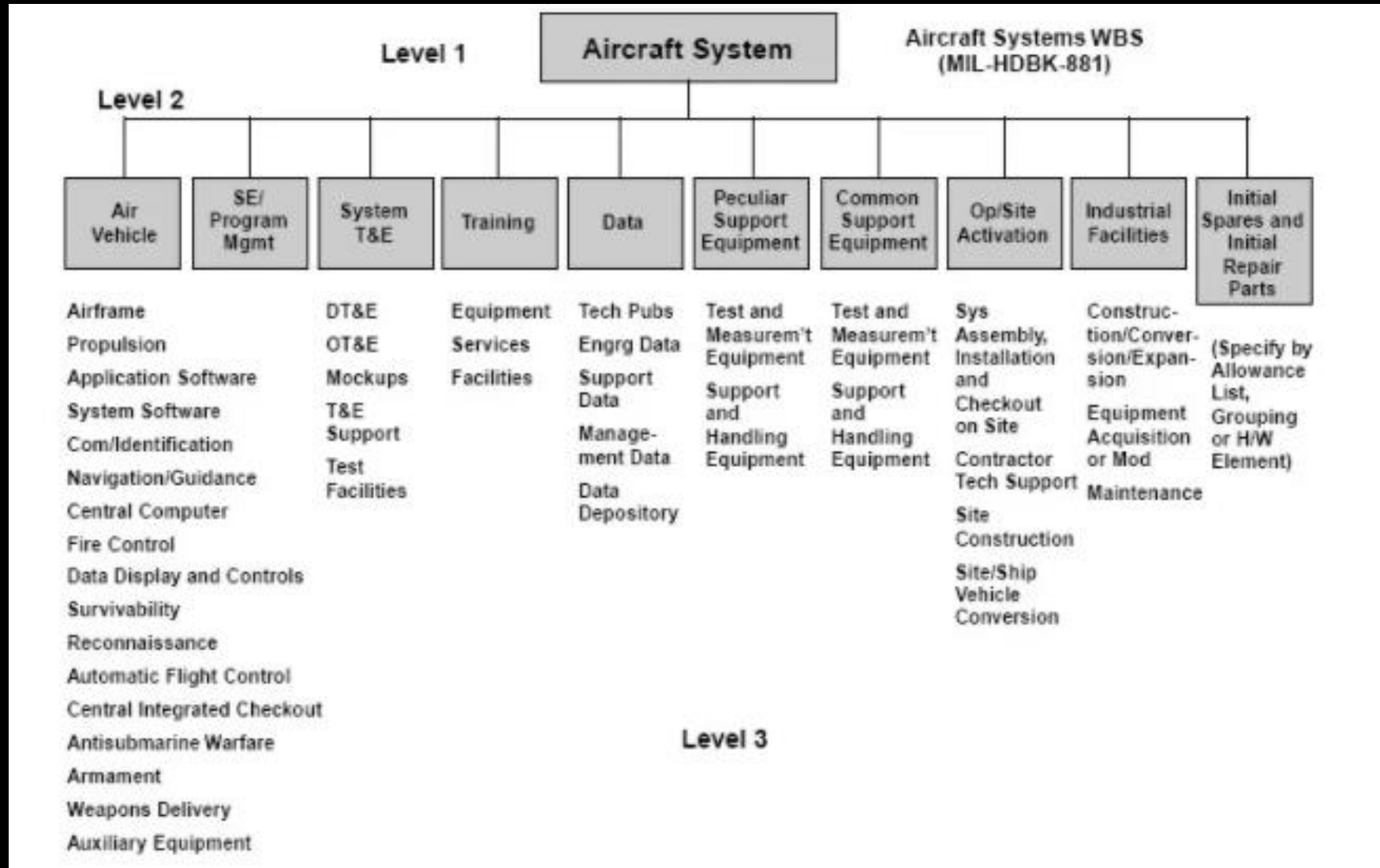
# Scope Processes are as follows:

- 
1. Scope Planning
  2. Scope Definition
  3. Create WBS (Document)
  4. Scope Verification
  5. Scope Control

# Process of Scope Planning



# Sample WBS





# Scope Management in Agile

