



# PROJECT MANAGEMENT

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**Software Engineering**

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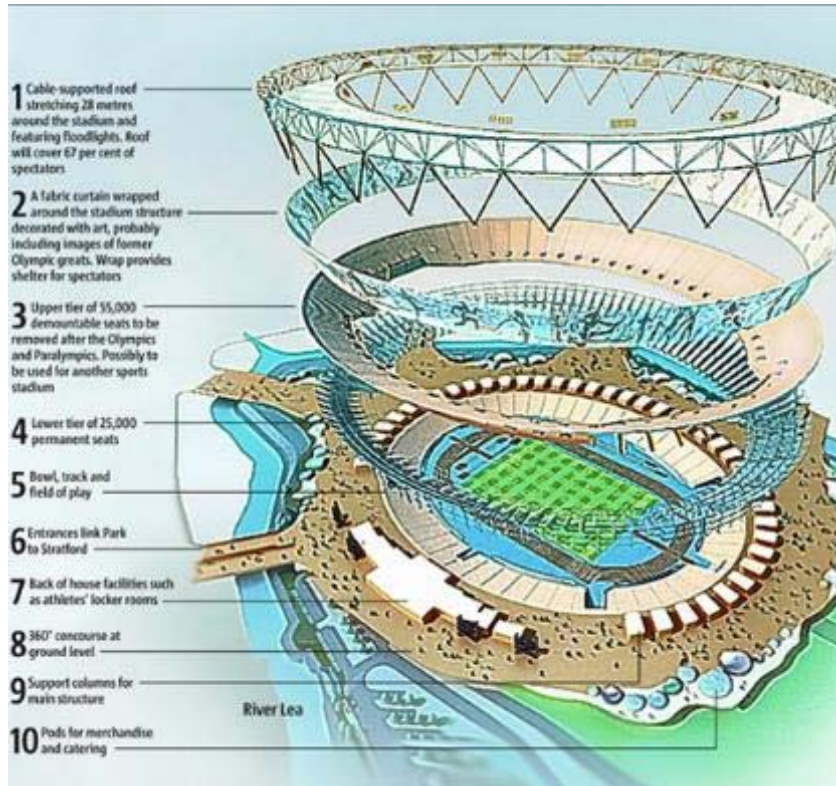
# What is Project Management?

- A Project is a temporary endeavour to produce a unique product or service
- Project Management is the application of skills, knowledge, tools & techniques to meet the needs and expectations of the stakeholders for a specific project

# Successful Project

- Stakeholders' requirements satisfied
- Within budget
- Within time-frame
- No untoward incidents

# Success !!



# Failed Project

- Unfinished project
- Wrong scope
- Unrealistic planning
- Lack of resources
- Poor Project Leader
- Lack of support
- Poor safety record
- Legal problems
- Doesn't meet the specification

Disaster !



# Project Leader

- Single point of responsibility
- Knowledge
- Skills
- Good communicator
- Commitment
- Enthusiasm
- “The right man for the project”





# London Olympics Project Leader



# Process of Project Management

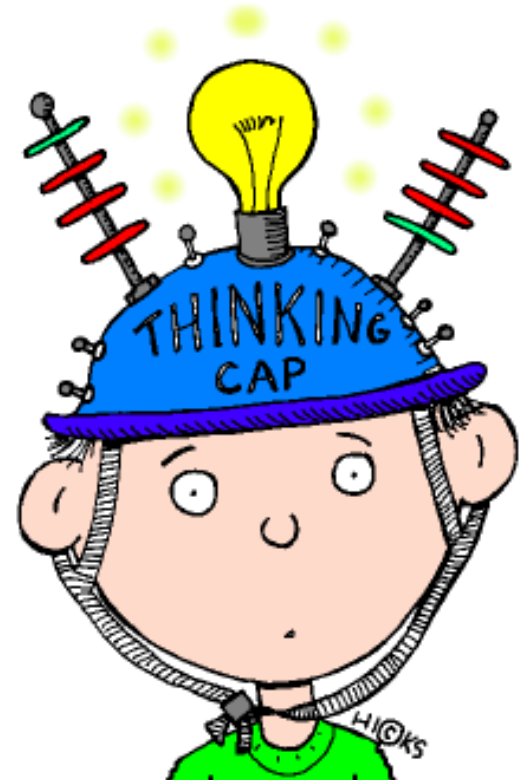
- Initiation
- Definition
- Justification
- Approval
- Planning
- Execution
- Validation
- Evaluation



# Process of Project Management

## •Initiation

- Bright ideas
- Alternatives
- Discussion
- Gain support
- Discard ideas that are not practical



# Process of Project Management

## •Definition

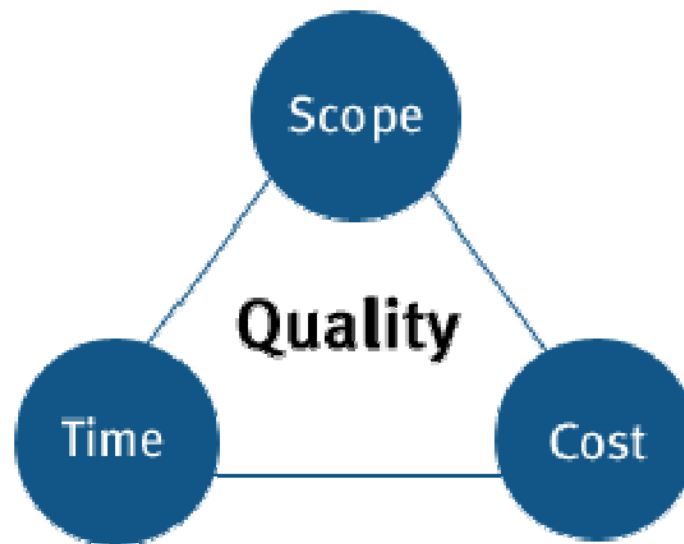
- Give the project an good title
- What is the objective?
- What are the deliverables & milestones?
- What is not included?
- What is the time-frame?
- What is the budget?
- How much flexibility?
- What is important to the stakeholders?

# Process of Project Management

- **Definition**

- What is important to the stakeholders?

## Project Management Triangle



# Process of Project Management

## •Justification

- Benefits
- Costs
- Business case
- Key elements
- Project Leader & Team

# Process of Project Management

- Approval

- Get approval and commitment before starting
- Ensure an adequate budget



# Process of Project Management

## •Planning

- Resources: people, time, materials, costs
- Programme
  - Gantt Chart
  - PERT Chart
- 80% planning time & 20% execution time

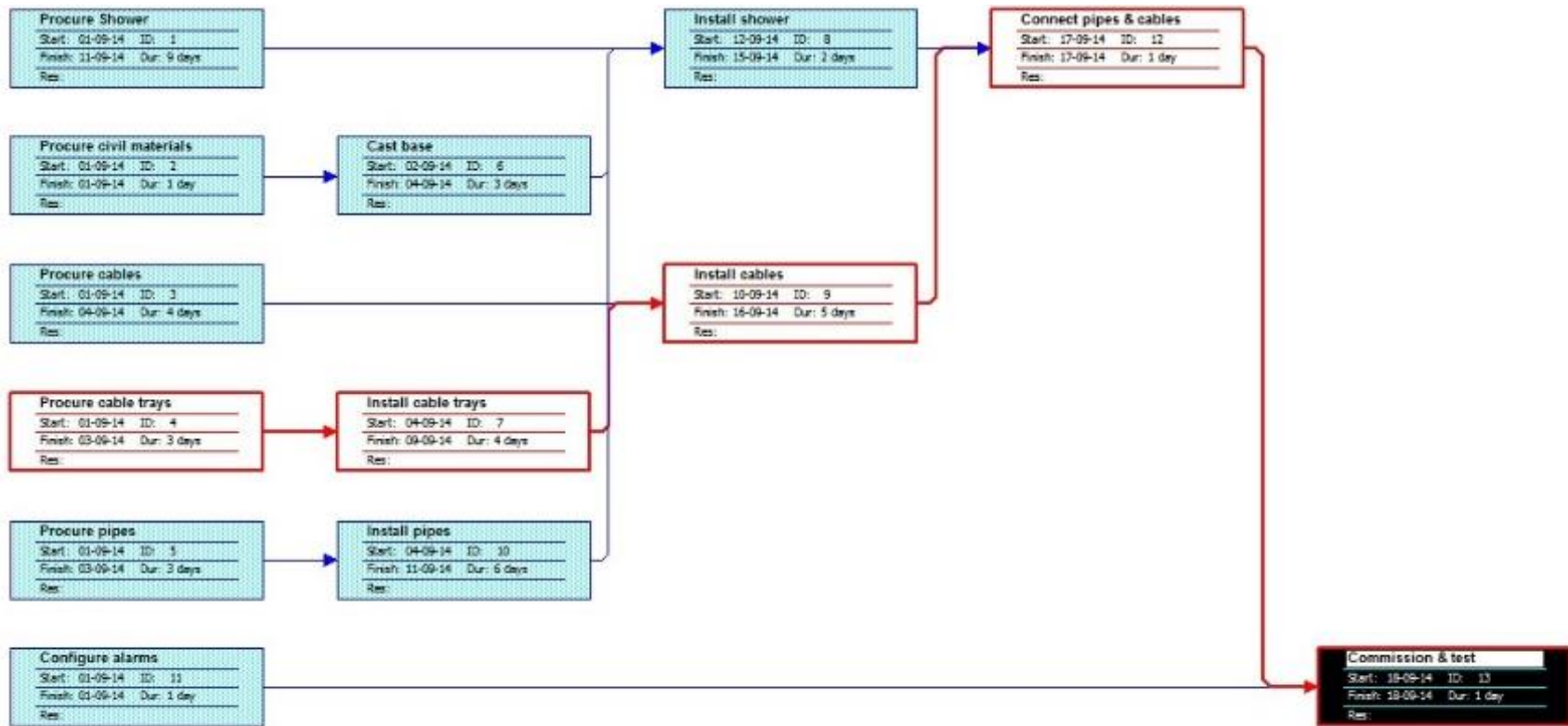




# Gantt Chart for Shower Project



# Network Chart for Shower Project



# Process of Project Management

## •Execution

- Manage the scope
- Manage the people
- Manage the issues
- Manage the cost
- Manage the quality
- Manage the risks
- Manage the changes
- Communicate!

# Process of Project Management

- Validation

- Commissioning
- Testing
- Acceptance
- Handover
- Warranty

# Process of Project Management

- Evaluation

- Review
- Lessons learned
- Closeout

# Summary

- What makes a successful project
- Process of Project Management
  
- Any questions?