

# Introduction to Project Management



- What is a Project?
- Project Life Cycle
- Project Management
- Project Components

What was the  
starting point for  
Project  
Management?



**PM IS NOTHING NEW TO MANKIND**



# Evolution of Project Management

# FIRST FORMAL PROJECT TEAM – MANHATTAN PROJECT (1945)

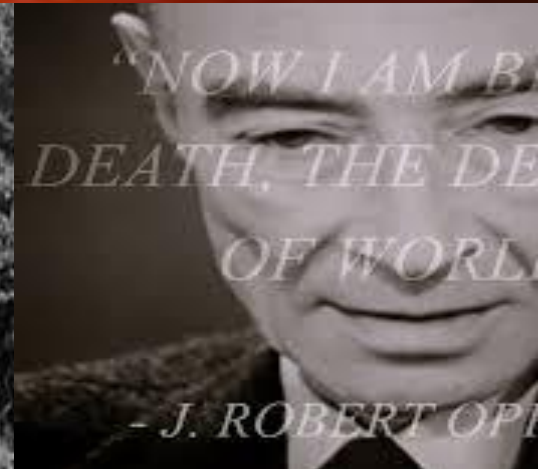


**1939-1946**

**1,30,000 people**

**US\$2 Bn**

**Secrecy.**



# CPM (1957)



- Critical Path Method (CPM)
- It effort of Dupont and Remington Rand
- Aim was to find optimum duration to perform routine plant overhaul, maintenance and construction work
- Activity performance time more deterministic
- Main feature to determine project schedule which minimises project costs

# PERT (1958)

- Program Evaluation and Review Technique (PERT)
- Polaris missile system
- US Navy Special Project office along with Lockheed, consultant Booz, Allen & Hamilton
- Statistical treatment of uncertainty in activity performance time.
- Probability estimates of meeting specified scheduled dates of various stages

**Project**



# Project

**A project is a  
one time,  
multitask job  
with a definite starting point,  
definite ending point,  
a clearly defined scope of work,  
a budget,  
and usually a temporary team.**

# Salient Characteristics

**Identifiable beginning and an end.**

**An Entity by itself**

**Non-repetitive; Definite Goal / Objective**

**Identifiable activities which consume time & Resources**

**Completed by a target date**

**Subject to uncertainties and risks**

**Separate organization for management**

# Project vs Operations

## Projects

- Performed by people
- Constrained by limited resources
- Planned, executed and controlled
- Temporary
- Unique

## Operations

- Performed by people
- Constrained by limited resources
- Planned, executed and controlled
- Ongoing
- Repetitive

# Program

A group of **related** projects, sub projects and program activities managed in a coordinated way to **obtain benefits** not available from managing them **individually**.

# INTEGRATED GUIDED MISSILE DEVELOPMENT PROGRAMME (IGMDP)

## IGMDP

INTEGRATED GUIDED MISSILE  
DEVELOPMENT PROGRAMME



Defence Research & Development Organisation  
Ministry of Defence, New Delhi



# Portfolio

**Projects, programs and sub  
portfolios and operations managed  
as a group to **achieve strategic  
objectives****

# MANAGEMENT

**“The process of Planning, Organising, Directing, Coordinating and Controlling the activities to achieve the laid down targets”**

**OR**

- **“Optimum Utilisation of resources to achieve a Predetermined Goal”**

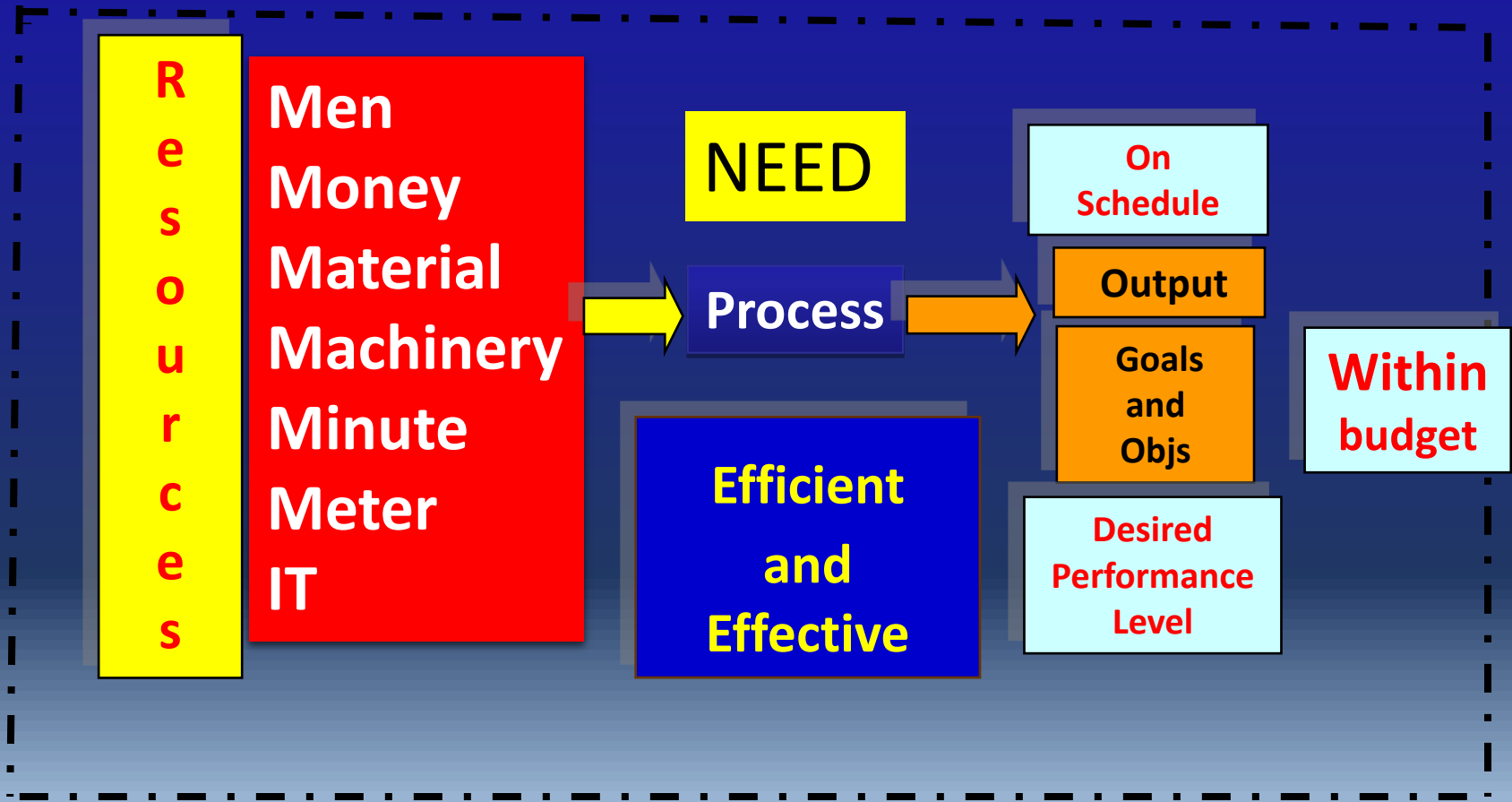
# PROJECT MANAGEMENT

**“ The application of knowledge, skills, tools,  
and techniques  
to project activities in order to meet project  
requirements ”**



# PROJECT MANAGEMENT

POLITICAL ENVIRONMENT, TECHNOLOGY



SOCIAL

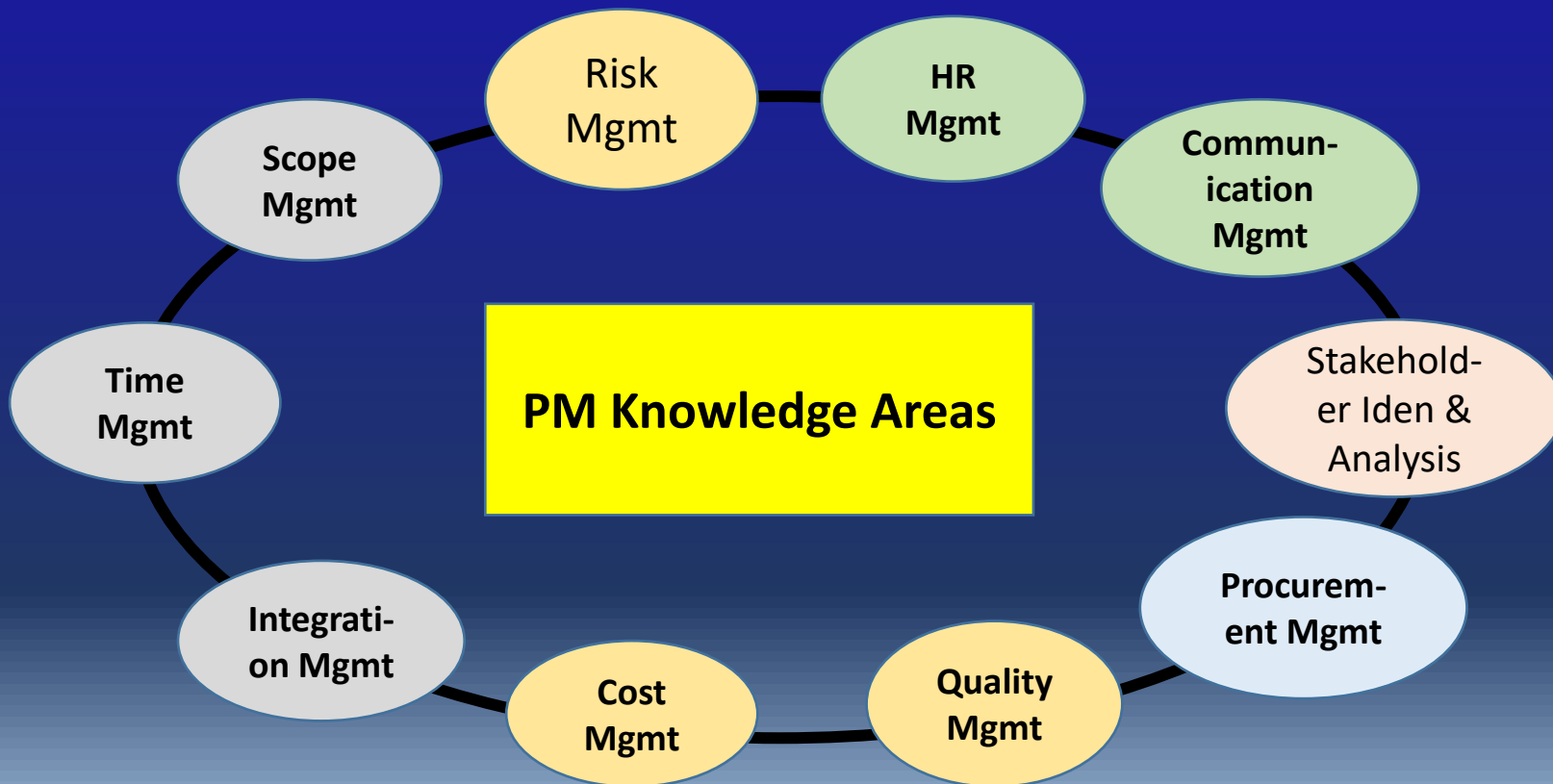
LEGAL

ECONOMIC

# WHY PROJECT MANAGEMENT

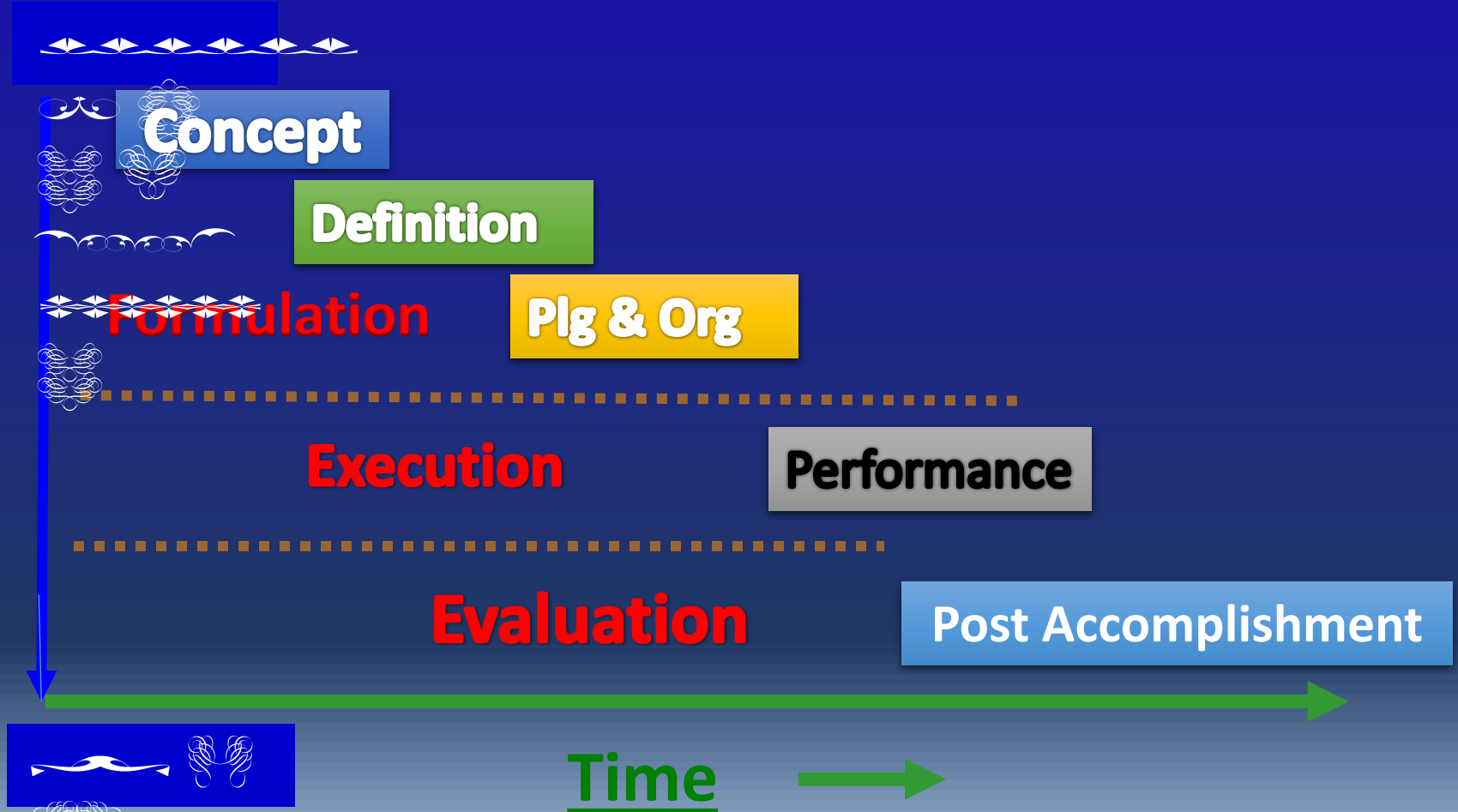
- Defines a Plan, Organises Chaos
- Establishes a Schedule and Plan
- Enforces & Encourages Teamwork
- Maximises Resources
- Manages Change
- Retains & Uses Knowledge
- Learning from Failure

# INTERDISCIPLINARY SUBJECT

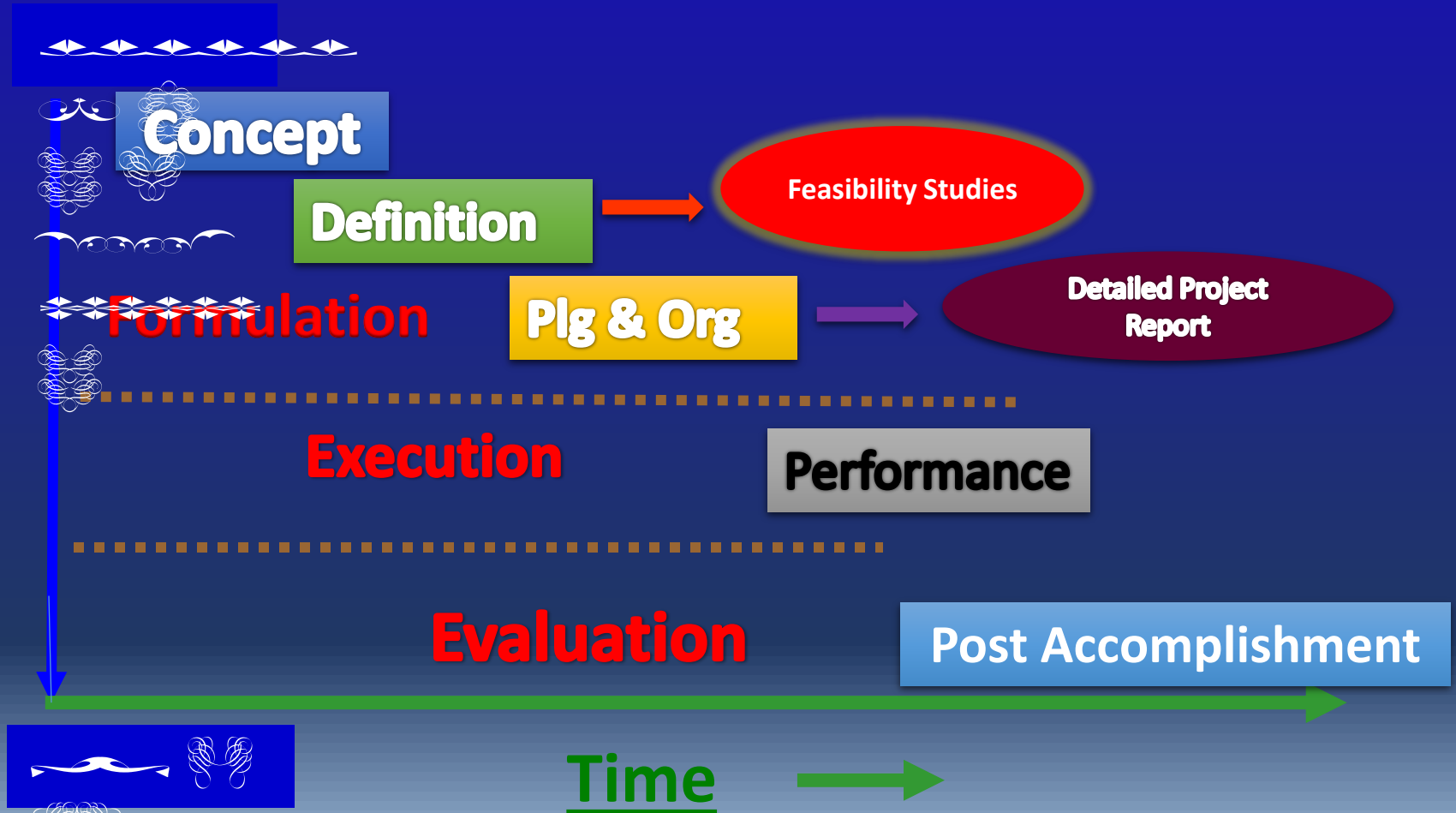


# PROJECT LIFE CYCLE

# PROJECT LIFE CYCLE



# STAGES OF PM





*Let us Projectise and Optimise*