

# **Agile Project Management**

## **UNIT 1**

### **TRADITIONAL PROJECT LIFECYCLES**

# What is a project?

A project is a temporary and unique endeavor with a defined beginning and a defined end, undertaken to produce clearly defined results (products, services, or other change) within a specified budget.

# Project is Temporary and Unique

- Temporary
  - Starts and
  - Ends
  - Temporariness
- Unique and uniqueness
  - Scope and work
  - Resources
  - Location
  - Repeat work?

# A Beginning and an End

A project must have:

- a defined beginning and
- a defined end

# Clearly Defined Results

- Scope of a project should be clearly defined
- A project produces
  - products,
  - services, or
  - other change
    - Change in expertise level (education)
    - Change in social perceptions (political or sociopolitical campaigns).
    - Change in capacity in a hydro power reservoir

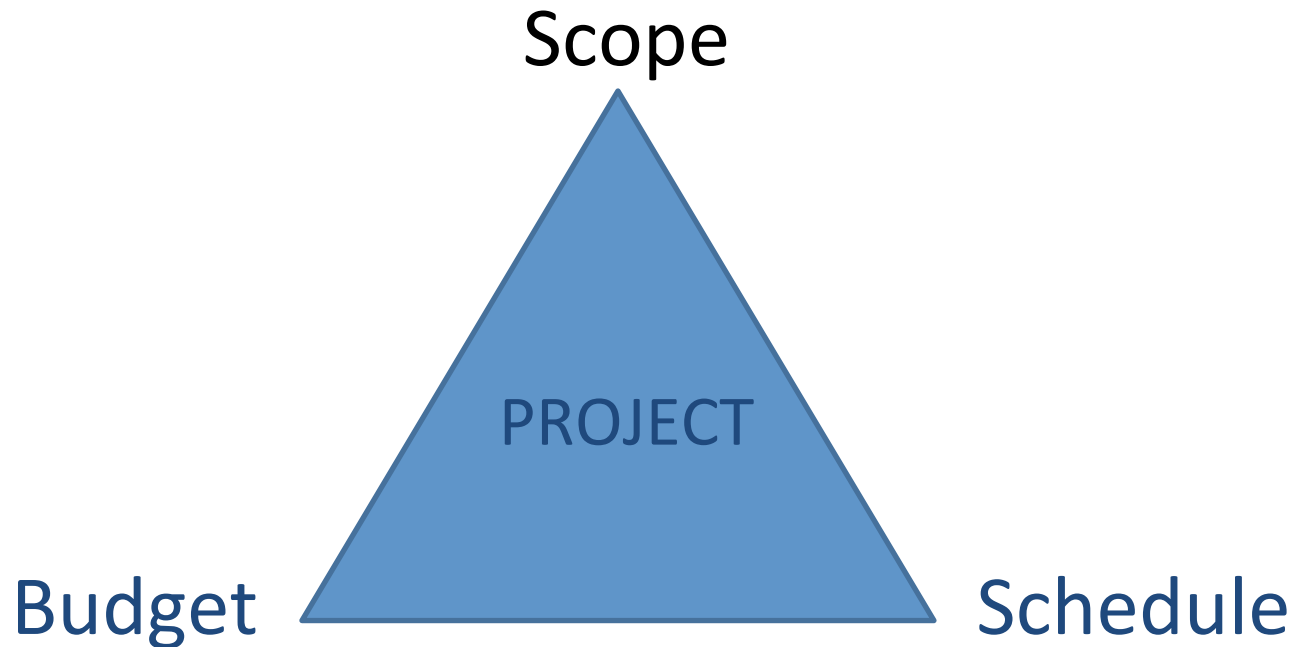
# Within a Specified Budget

- Budget is typically fixed or
- a pre-specified overage is allowed

# What is a project?

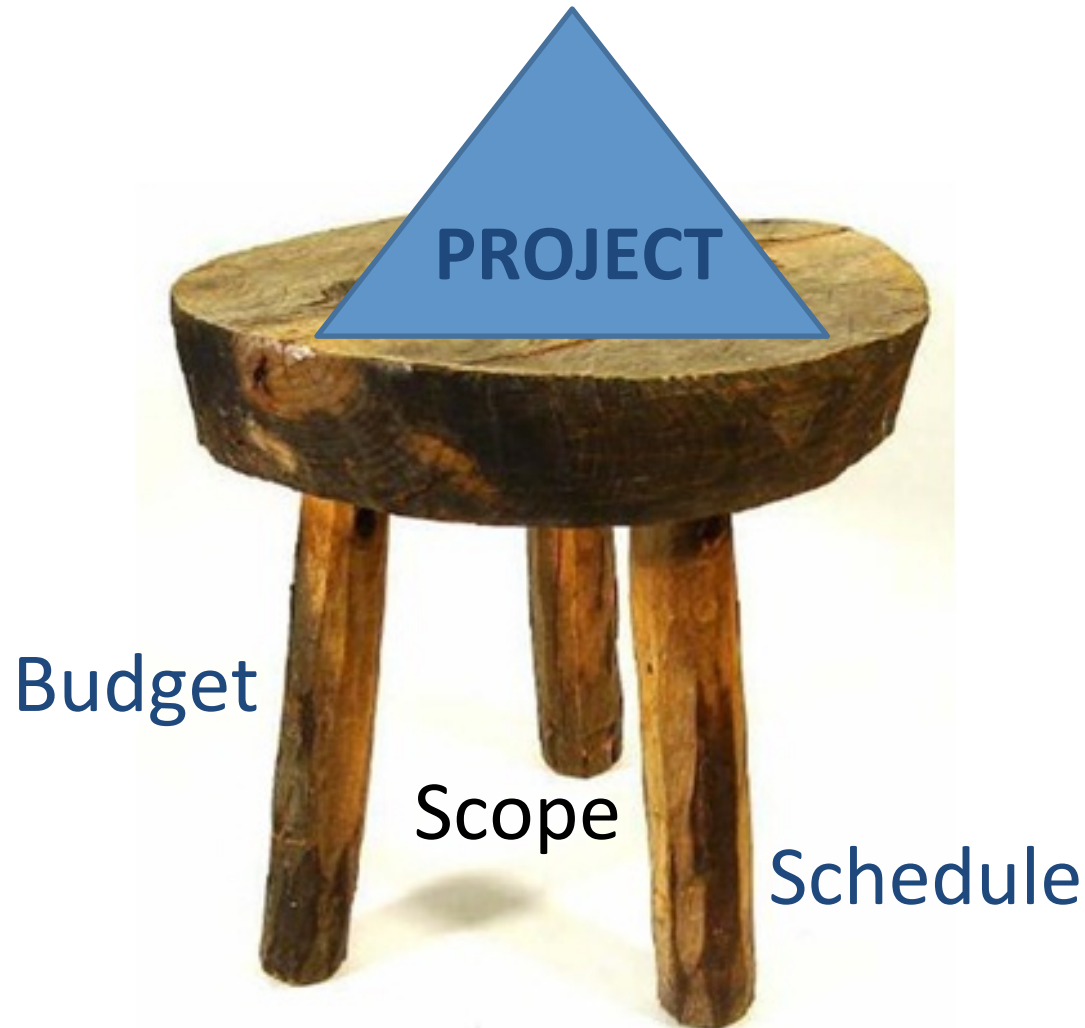
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# Project CONSTRAINTS

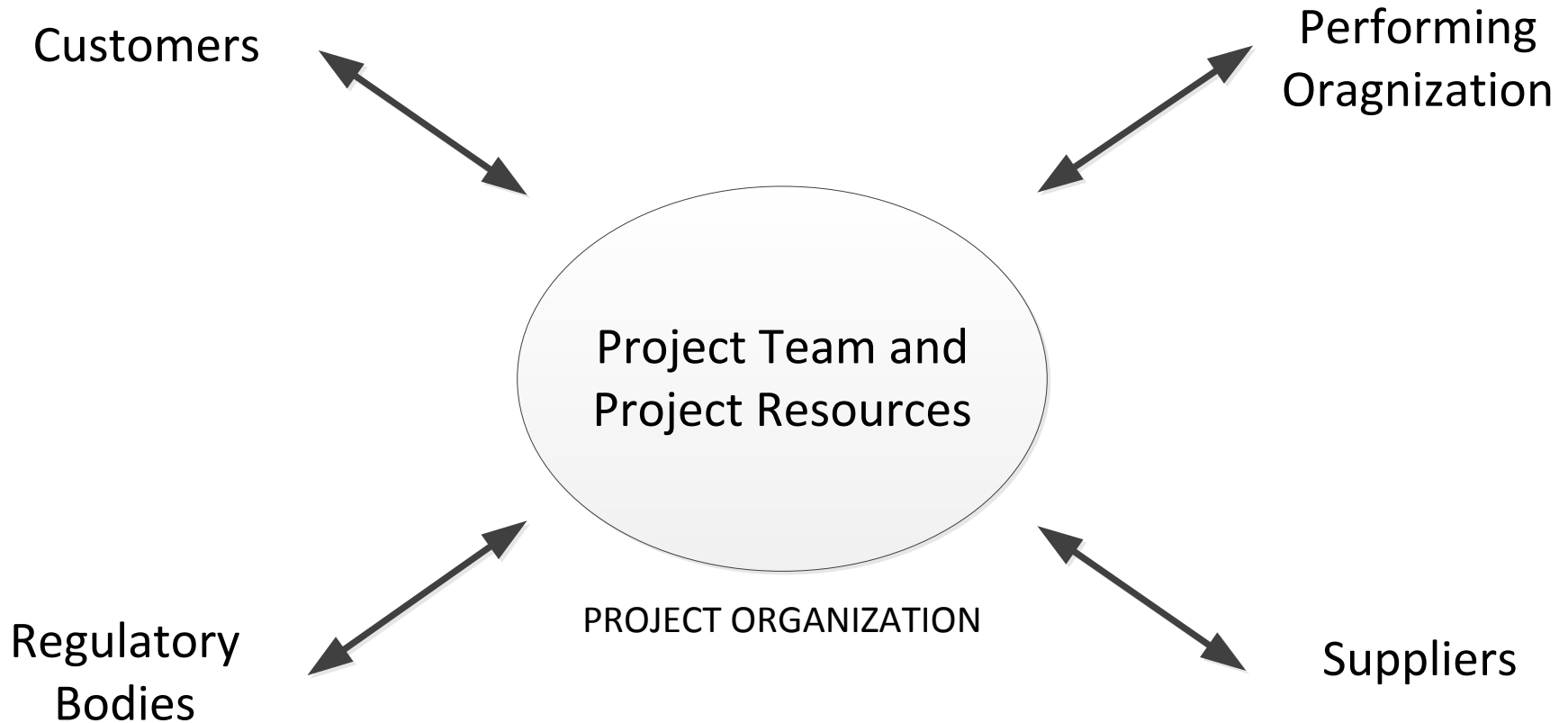




# Balancing Project CONSTRAINTS



# Project INTERACTIONS



# PROJECT MANAGEMENT

*Project management is the discipline of planning, organizing, securing, and managing resources to achieve specific goals.*

[http://en.wikipedia.org/wiki/Project\\_management](http://en.wikipedia.org/wiki/Project_management)

# PROJECT MANAGEMENT

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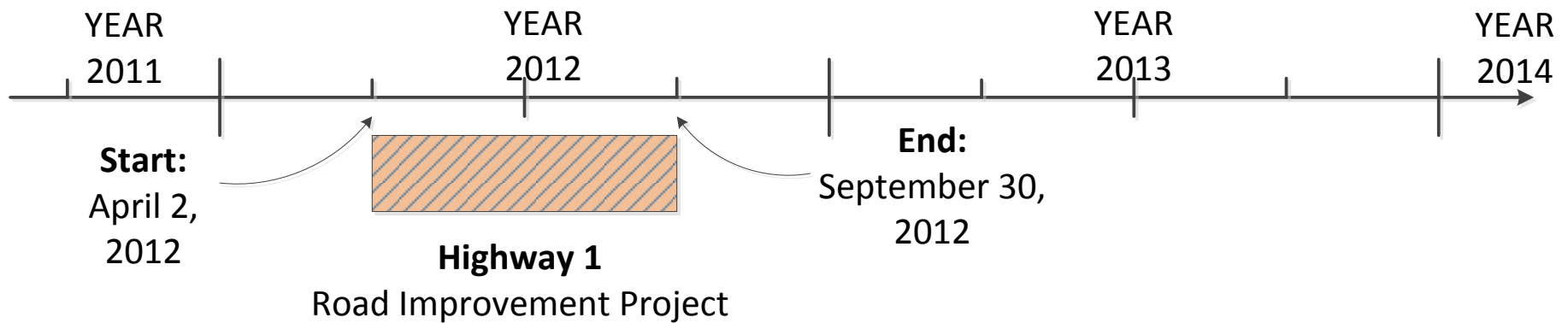
# Projects VS. OPERATIONS

Development of the design, prototyping, and engineering of a new car → Project

Production of cars on an ongoing basis at the factory floor → Operations

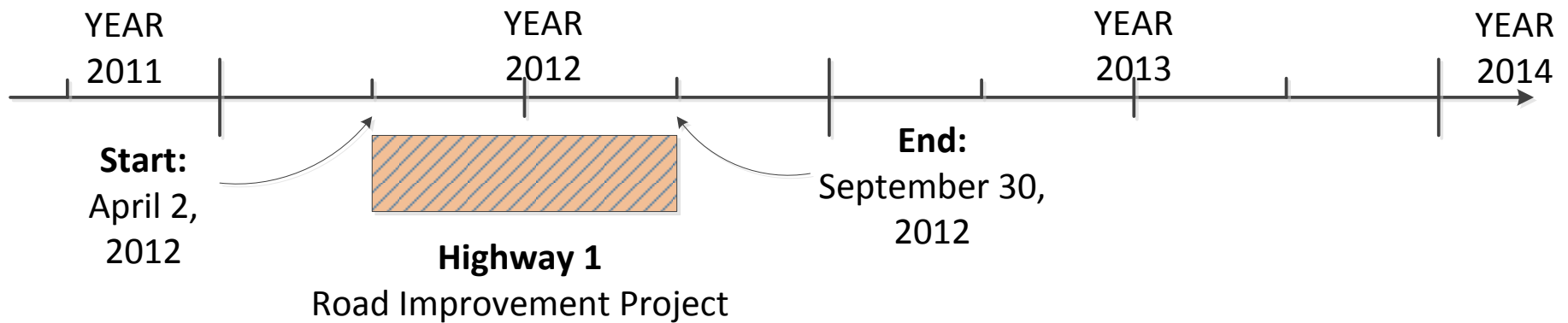
# Projects VS. OPERATIONS

## A 6 month Highway 1 Improvement Project



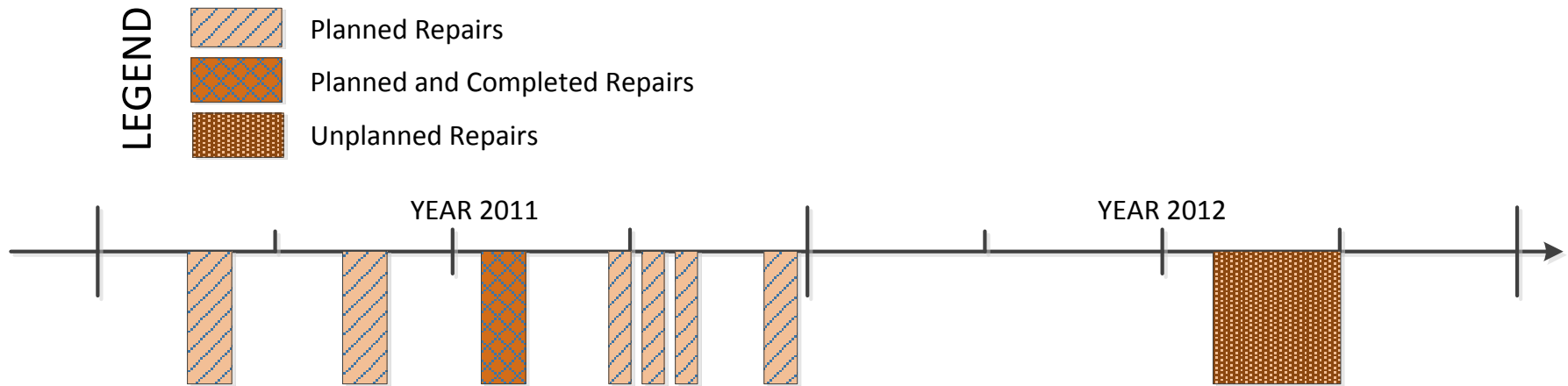
# Projects VS. OPERATIONS

## A 6 month Highway 1 Improvement Project



# Projects VS. OPERATIONS

## Highway Improvement Operations



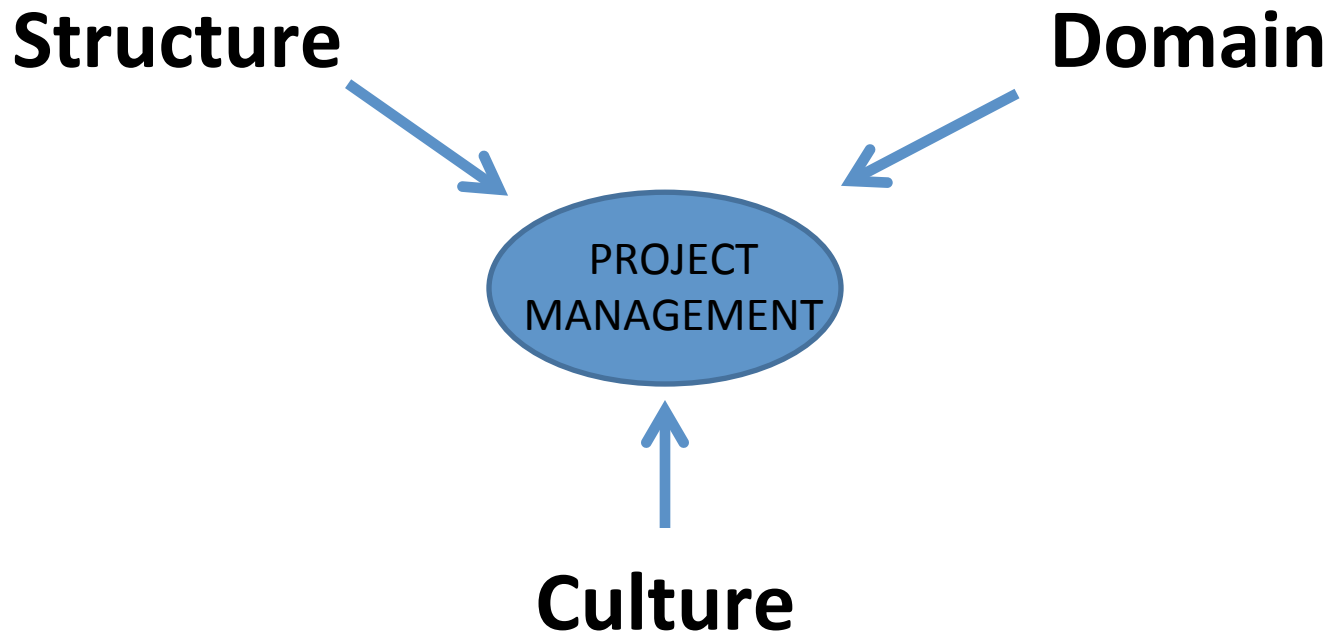


# What is a program?

A program is an ongoing collection of projects, operations, and other activities to achieve a set consisting of definitive and/or evolving goals defined within a common theme for the purpose of achieving short-term and long-term strategic and financial objects of the performing organization.

# PrOJECT MANAGEMENT

Factors affecting how projects run in an organization:



# PROJECT MANAGEMENT

- **PMI** (Project Management Institute)
- **PMP** (Project Management Professional)
- **PMBOK** (A Guide to Project Management Body of Knowledge)

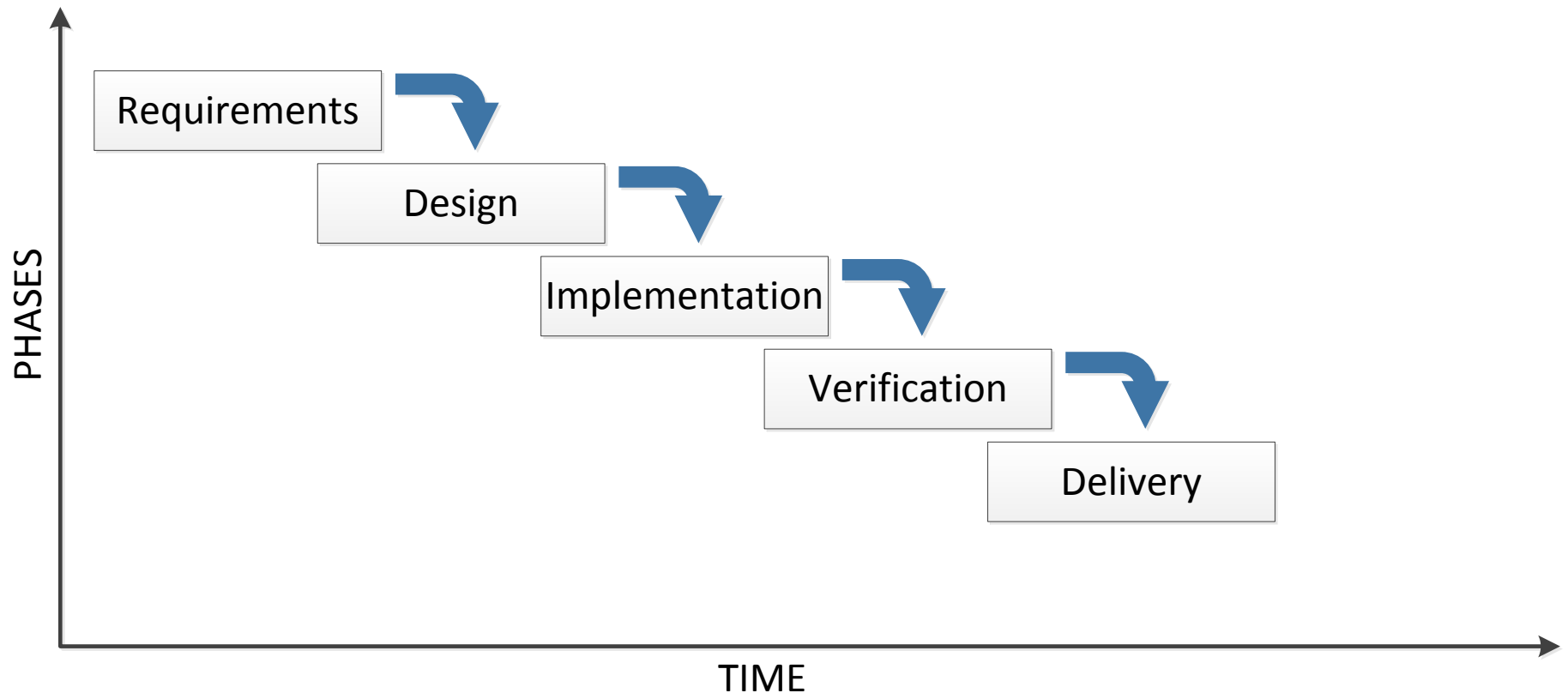
# PROJECT MANAGEMENT

***Project management is the application of knowledge, skills, and techniques to execute projects effectively and efficiently. It's a strategic competency for organizations, enabling them to tie project results to business goals — and thus, better compete in their markets.***

*Project Management Institute*

# TRADITIONAL PROJECT MANAGEMENT

## THE WATERFALL METHOD



# Traditional PROJECT MANAGEMENT

- **Specialization**
- **Central Role of the Project Manager**
- **Response to Change**
- **Rational Unified Process (RUP)**

# EARNED VALUE MANAGEMENT

***Earned Value Management (EVM) is a methodology that combines scope, schedule, and resource measurements to assess project performance and progress.***

*A Guide to Project Management Body of Knowledge (PMBOK)*