LECTURE-6

Introduction to UP(Unified Process)

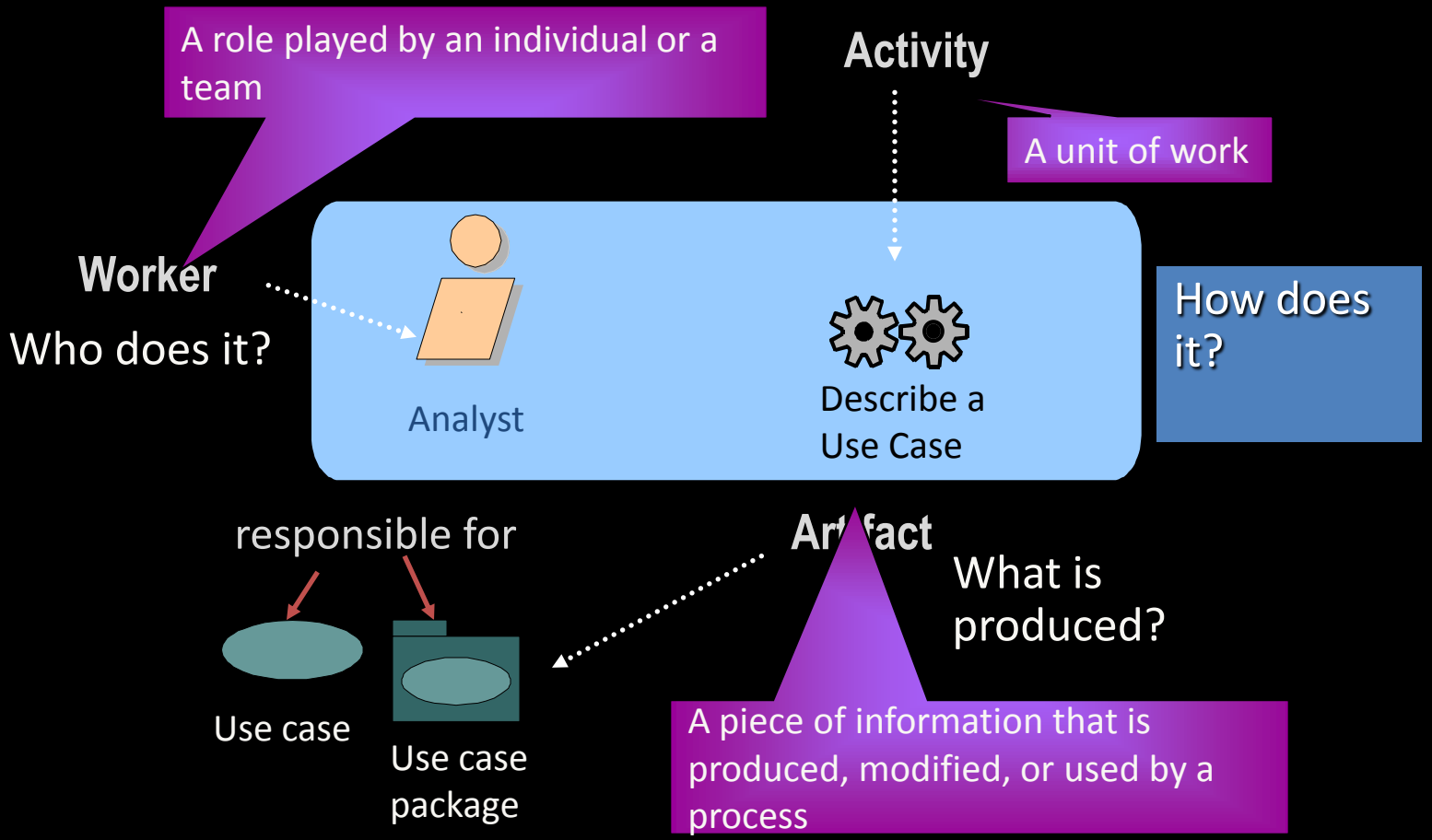
- Best Practices
- Key concepts
- UP structure
- Core Workflow
- Appling UML in the UP
- The RUP is a Process Framework

Best Practices

- Develop Iteratively
- Manage Requirements
- Use Component Architectures
- Model Visually
- Verify Quality
- Control Changes

Key concepts

❑ Worker, Artifact and Activity

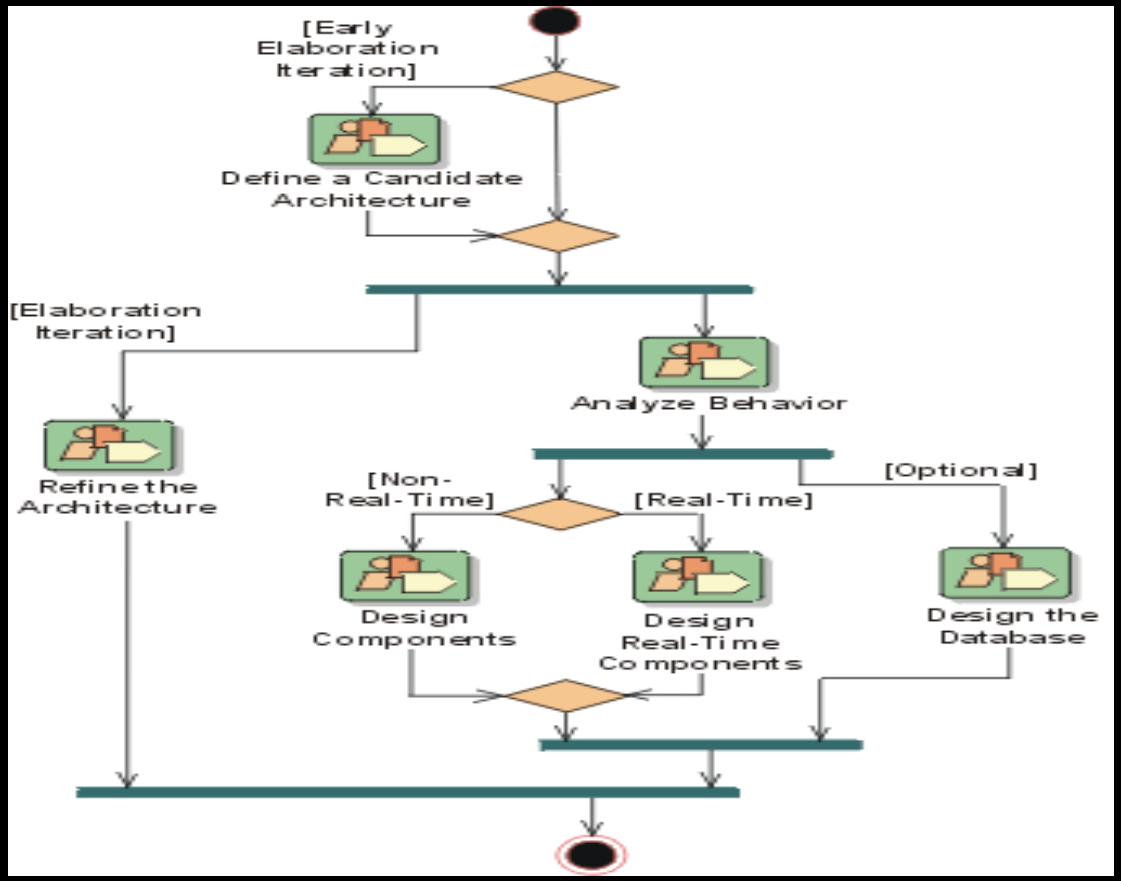


Key concepts

❑ Workflow (Discipline)

- ❖ A workflow is a sequence of activities that produces a result of observable value

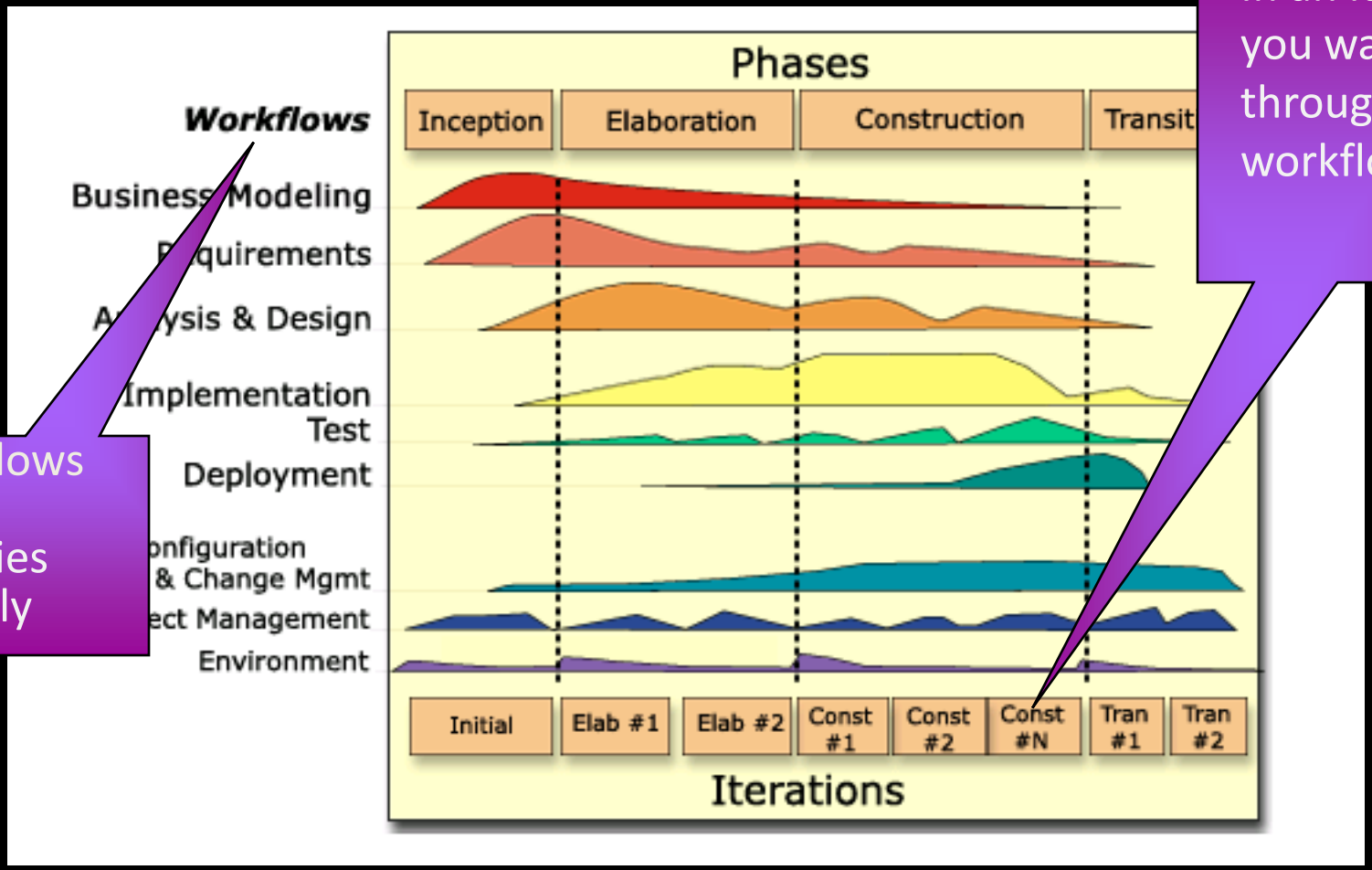
When does it?



UP Structure

- **UP Structure**
- **Lifecycle Phases**
- **Major Milestones**
- **Phases and Iterations**
- **Iterations and Workflow**

UP Structure



Workflows group activities logically

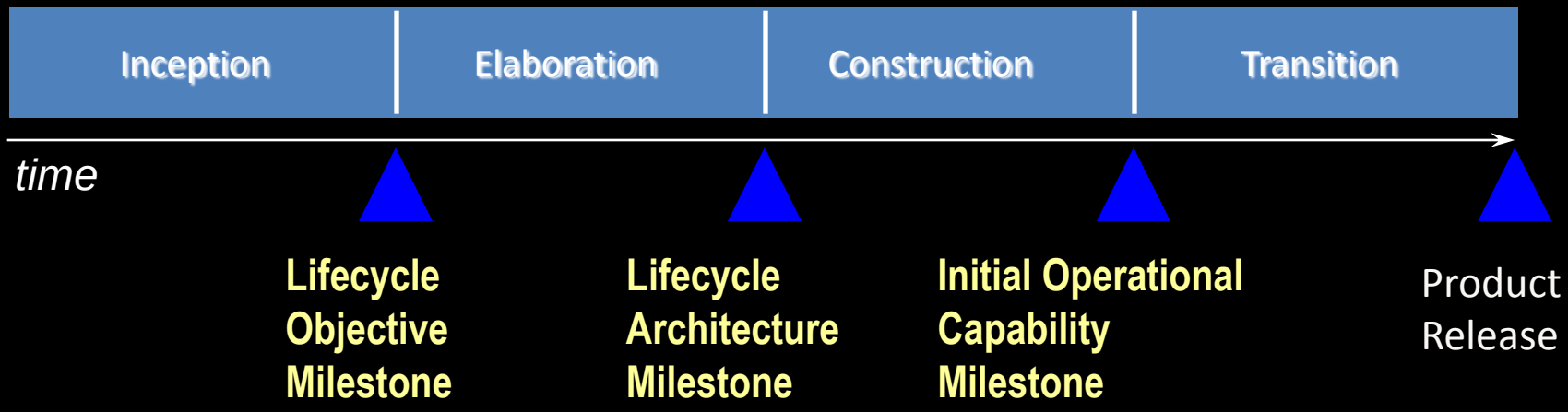
In an iteration, you walk through all workflows

Process Structure - Lifecycle Phases

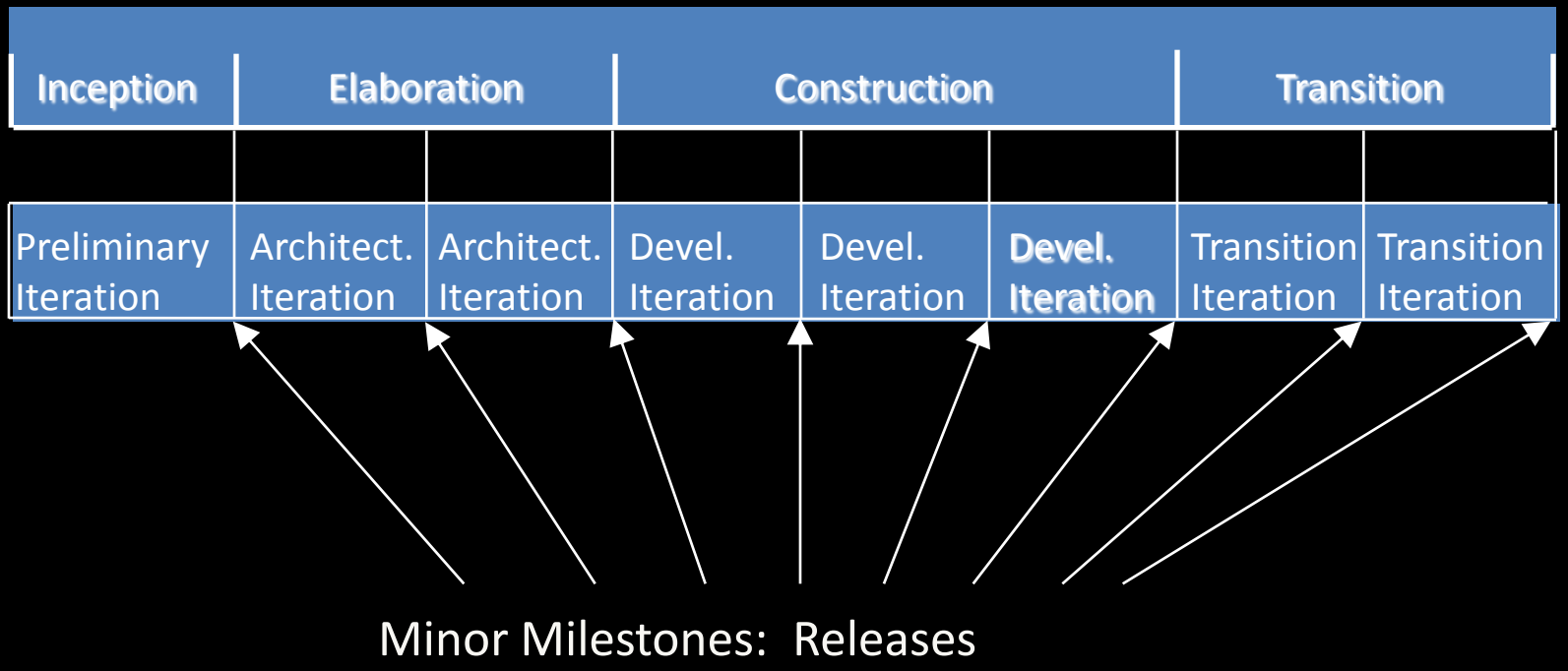
The Unified Process has four phases:

- Inception - Define the scope of project
- Elaboration - Plan project, specify features, baseline architecture
- Construction - Build the product
- Transition - Transition the product into end user community

Phase Boundaries Mark Major Milestones



Iterations and Phases



An iteration is a distinct sequence of activities based on an established plan and evaluation criteria, resulting in an executable release (internal or external).

Core Workflow

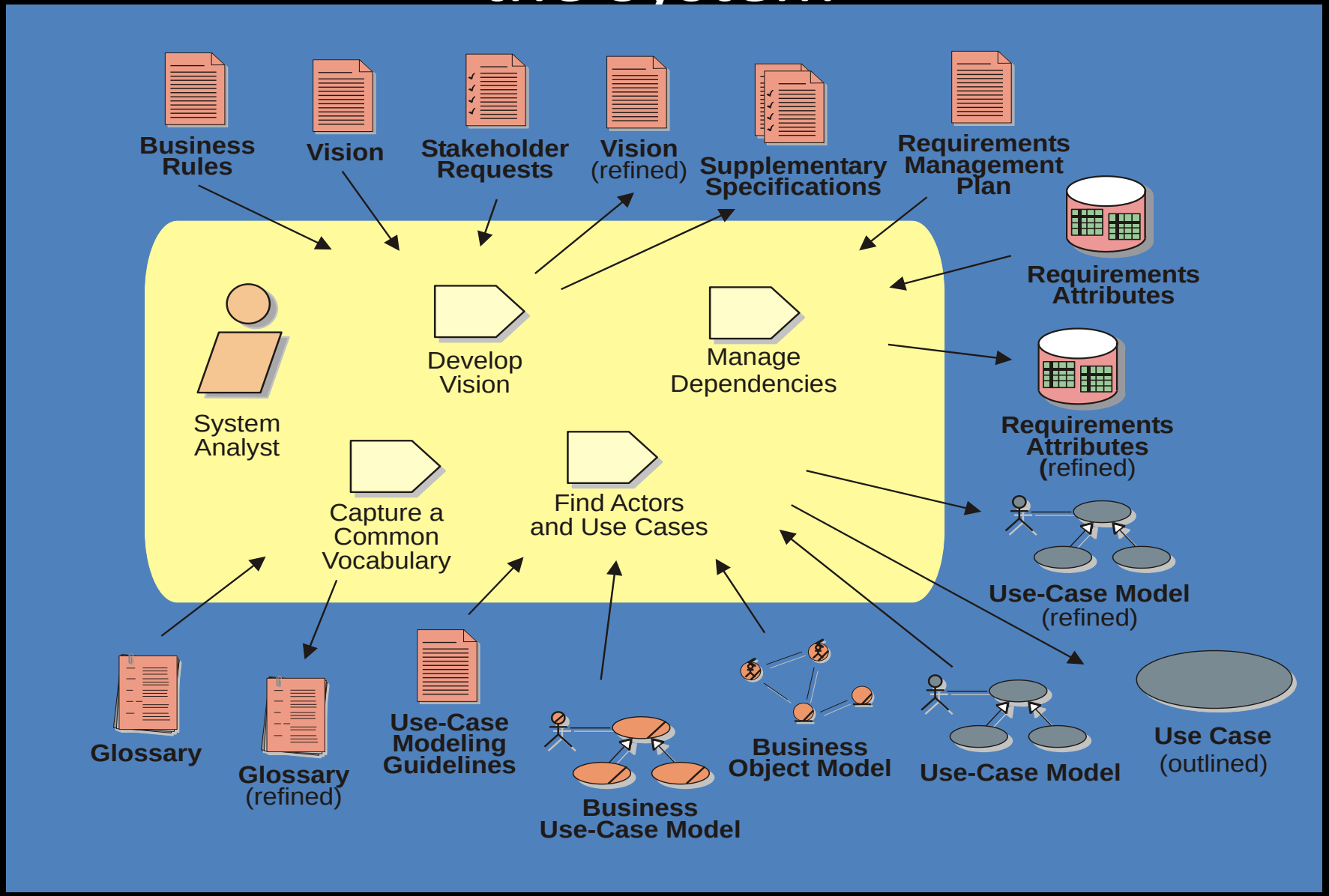
Core Process Workflows

1) Business Modeling
2) Requirements
3) Analysis & Design
4) Implementation
5) Test
6) Deployment

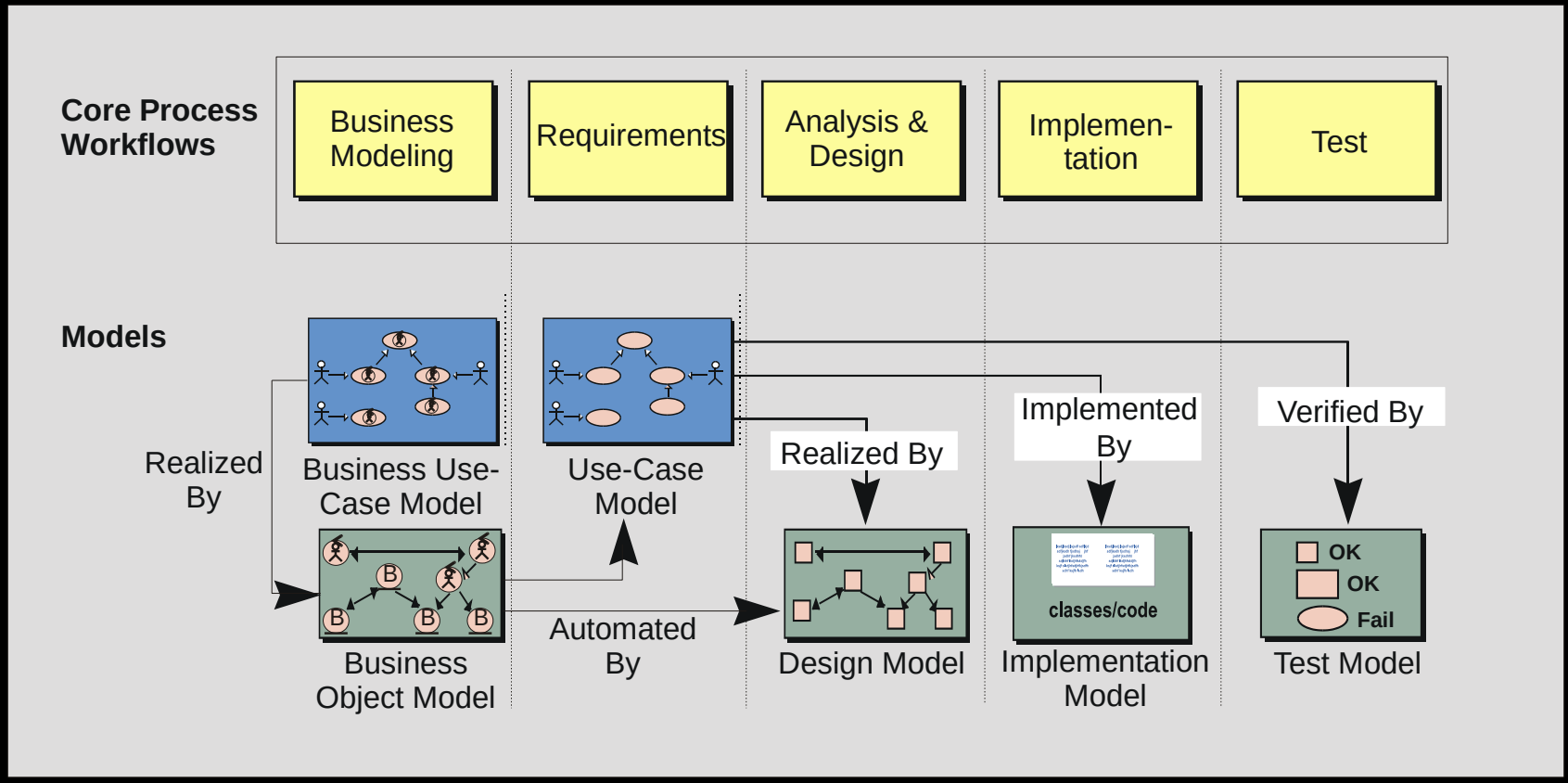
Core Supporting Workflows

7) Configuration & Change Management
8) Project Management
9) Environment

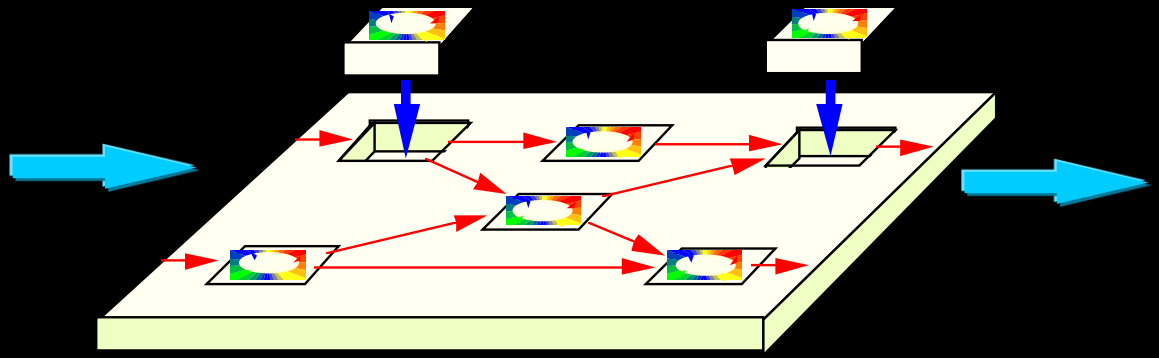
Workflow Detail: "Requirements - Define the System



Appling UML in the UP



The UP is a Process Framework



There is NO Universal Process!

- The Unified Process is designed for flexibility and extensibility
  - allows a variety of lifecycle strategies
  - selects what artifacts to produce
  - defines activities and workers
  - models concepts