

## Unit IV

# Quality Assurance

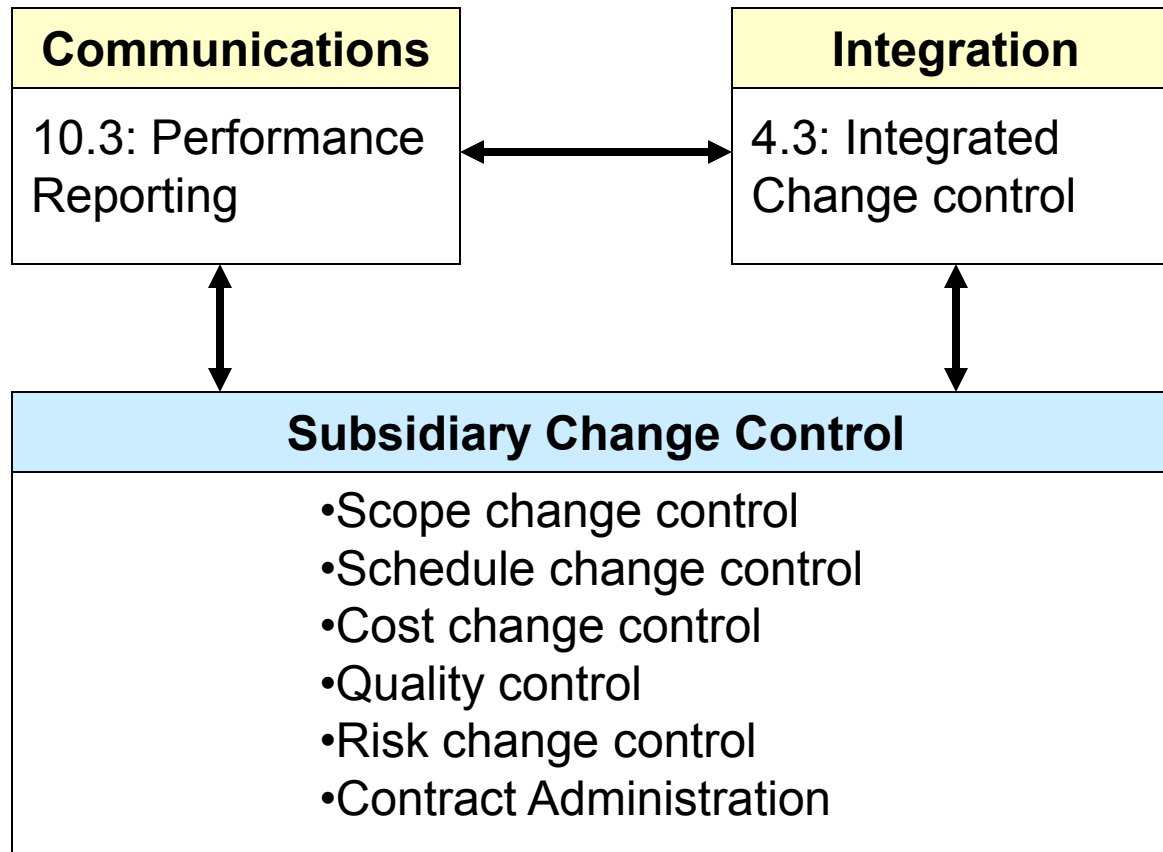
# Integrated Change Control

- ▶ Integrated change control involves identifying, evaluating, and managing changes throughout the project life cycle (Note: 1996 PMBOK called this process “overall change control”)
- ▶ Three main objectives of change control:
  - ▶ Influence the factors that create changes to ensure they are agreed upon
  - ▶ Determine that a change has occurred
  - ▶ Manage actual changes when and as they occur

# Integrated Change Control

- ▶ Integrated change control requires
  - ▶ Maintaining the integrity of the performance measurement baseline
  - ▶ Ensuring that changes to the product scope are reflected in the definition of the project scope
  - ▶ Coordinating changes across the knowledge areas

# Integrated Change Control -- Coordinat

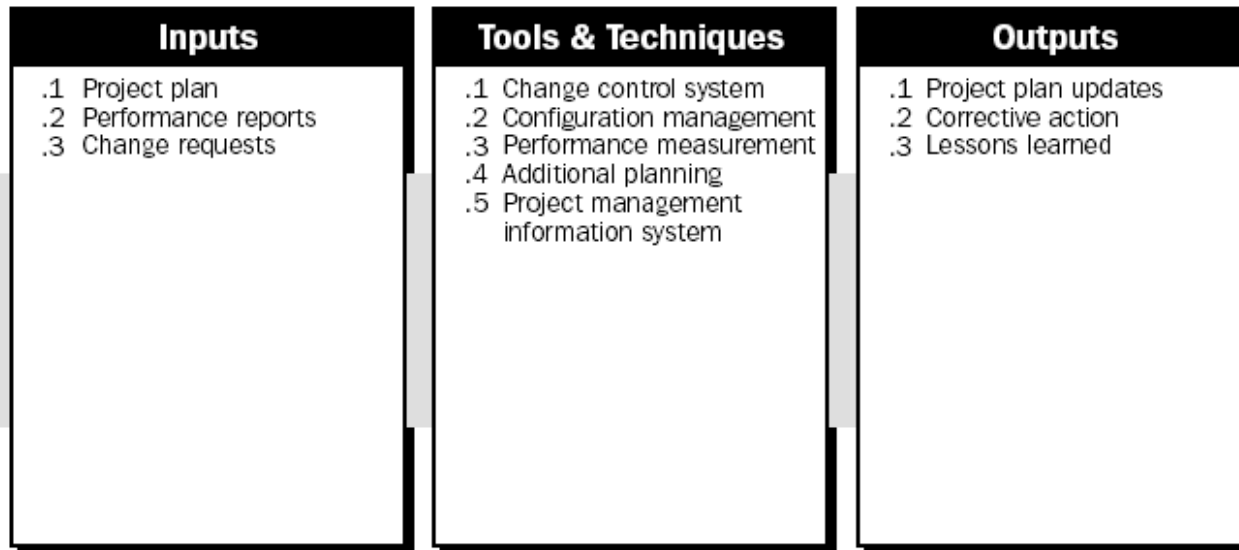


Coordinating changes Across the Entire Project

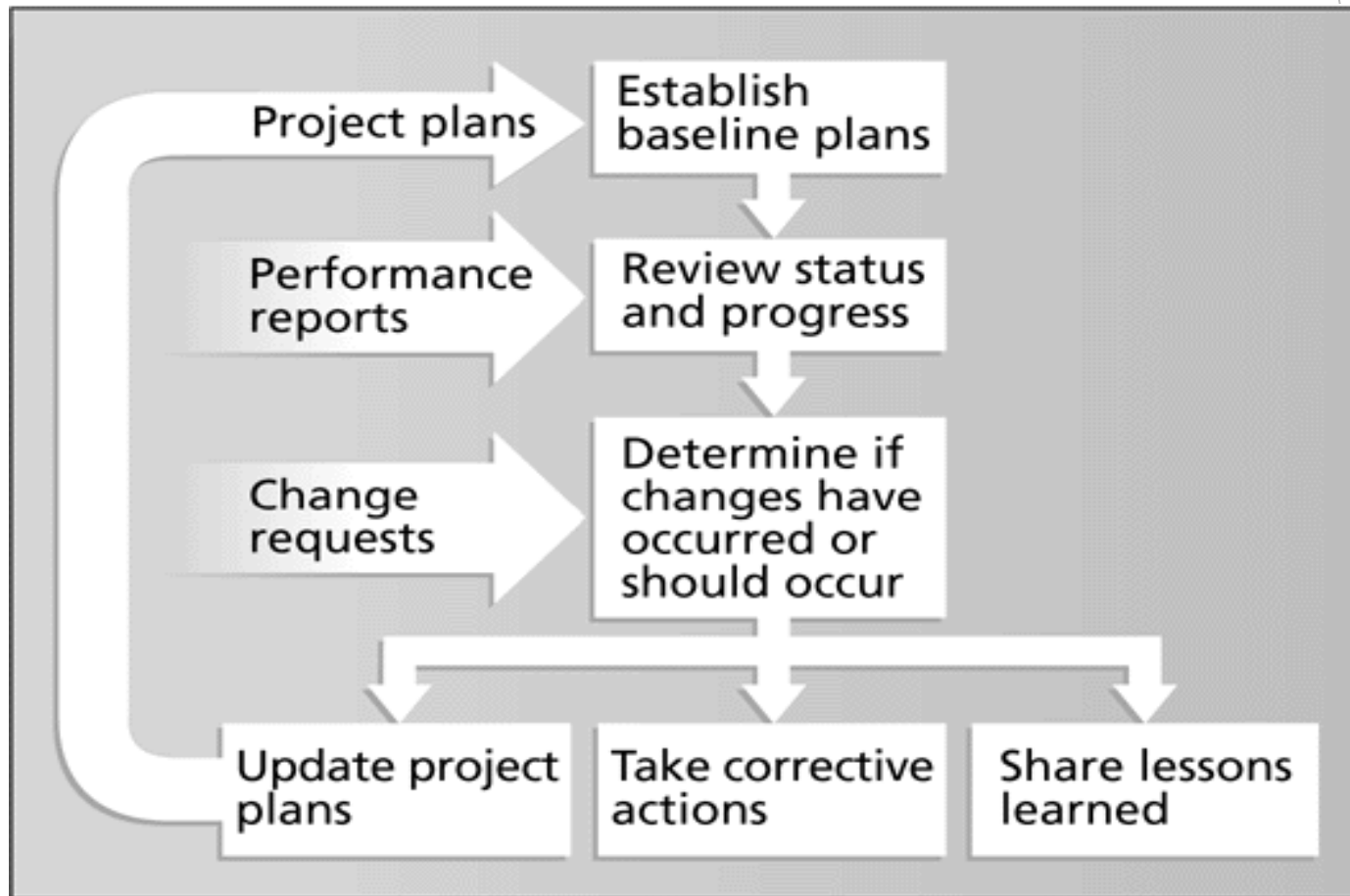
# Change Control on Information Technology Projects

- ▶ **Former view:** The project team should strive to do exactly what was planned on time and within budget
- ▶ **Problem:** Stakeholders rarely agreed up-front on the project scope, and time and cost estimates were inaccurate
- ▶ **Modern view:** Project management is a process of constant communication and negotiation
- ▶ **Solution:** Changes are often beneficial, and the project team should plan for them

# Integrated Change Control -- Process



# Integrated Change Control Process



# Change Control System

- ▶ A formal, documented process that describes when and how official project documents and work may be changed
- ▶ Describes who is authorized to make changes and how to make them
- ▶ Often includes a change control board (CCB), configuration management, and a process for communicating changes



# Change Control Boards (CCBs)

- ▶ A formal group of people responsible for approving or rejecting changes on a project
- ▶ Provides guidelines for preparing change requests, evaluates them, and manages the implementation of approved changes
- ▶ Includes stakeholders from the entire organization

# Making Timely Changes

- ▶ Some CCBs only meet occasionally, so it may take too long for changes to occur
- ▶ Some organizations have policies in place for time-sensitive changes
  - ▶ “48 hour policy” allowed project team members to make decisions, then they had 48 hours reverse the decision pending senior management approval
  - ▶ Delegate changes to the lowest level possible, but keep everyone informed of changes

# Configuration Management

- ▶ Ensures that the products and their descriptions are correct and complete
- ▶ Concentrates on the management of technology by identifying and controlling the functional and physical design characteristics of products
- ▶ Configuration management specialists identify and document configuration requirements, control changes, record and report changes, and audit the products to verify conformance to requirements

# Suggestions for Managing Integrated Change Control

- View project management as a process of constant communications and negotiations
- Plan for change
- Establish a formal change control system, including a Change Control Board (CCB)
- Use good configuration management
- Define procedures for making timely decisions on smaller changes
- Use written and oral performance reports to help identify and manage change
- Use project management and other software to help manage and communicate changes