



# INF 151: Project Management

Week 3: Thursday

# Today's Agenda

## Announcements:

- Grades - I will review and release A1-A3 tomorrow
- Assignment 4 Due Tonight

## Today:

- Project Integration Management
- Quiz 2!
- Team Work Time (if possible)

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# Managing the Project



# The Project Development Life Cycle

We discussed the essential phases of a PDLC on Tuesday:

- Requirements Analysis
- Design
- Development
- Test
- Support

Project Management Process Groups are required:

- Initiating
- Planning
- Executing
- Monitor and control
- Closing



# Project Management Process Groups

- Initiating Process
- Planning
- Executing
- Monitor and control
- Closing

Define and construct project and project phases

Occurs during each phase (not just at start)

Includes tasks and actions necessary to begin a phase



# Project Management Process Groups

- Initiating Process
- **Planning Process**
- Executing
- Monitor and control
- Closing

Develop a plan to ensure that all project goals are met

Includes scope, schedule, costs, procurement, and so on. Everything required to support the project

Highly mutable! Evolves with the project as it moves through each phase



# Project Management Process Groups

- Initiating Process
- Planning
- **Executing Process**
- Monitor and control
- Closing

Coordination of resources (people, assets, artifacts, services, systems, etc.)

Role assignments, evolving.



# Project Management Process Groups

- Initiating Process
- Planning
- Executing
- **Monitoring and controlling  
Processes**
- Closing

Oversight of executing processes

Measure and monitor project/phase progress

Outcomes of measurement can influence changes to other process groups

Necessary to keep project on track





# Project Management Process Groups

- Initiating Process
- Planning
- Executing
- Monitor and control
- **Closing Process**

Acceptance and closure of project/project phase

Includes:

- Archiving materials
- Completing documentation
- Conducting reviews and reflection

# Project Management Process Groups

Common phases of a PDLC:

- Requirements Analysis
- Design
- Development
- Test
- Support

Project Management Process Groups:

- Initiating
- Planning
- Executing
- Monitor and control
- Closing

These *might* align, but do not equate!

# Strict Adherence to Process Groups

Analysis of data from 860 project managers

What can we learn?

Percentage of time spent on each process group

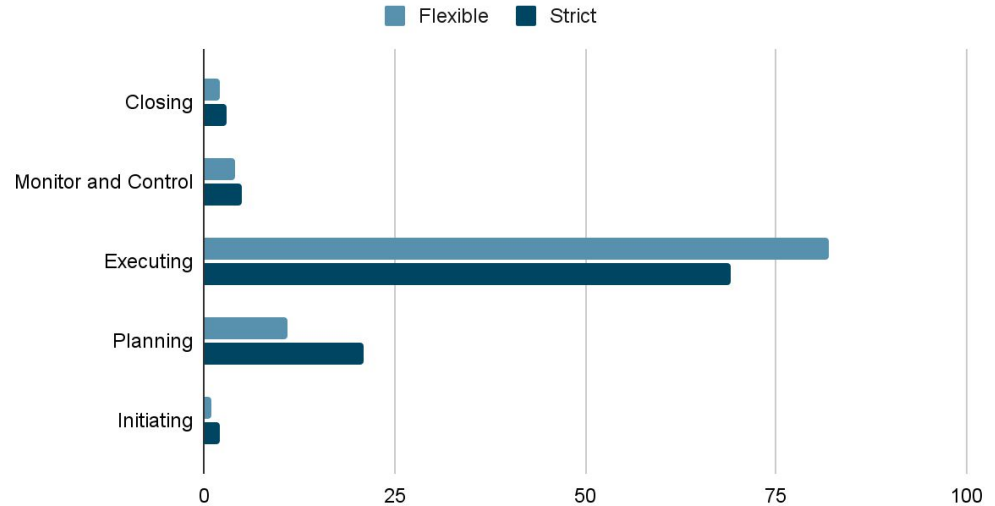



Figure 3-1 from Schwalbe Chp. 3



# Project Integration Management

Coordination of all other project knowledge areas

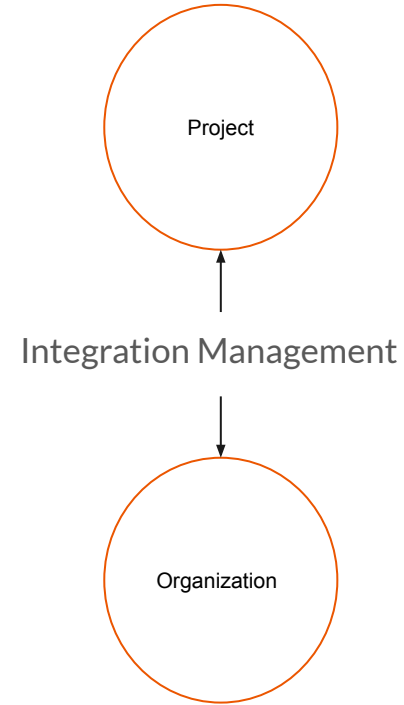
Integration Management

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- Scope Management
  - Schedule Management
  - Cost Management
  - Quality Management
  - Resource Management
  - Communication Management
  - Risk Management
  - Procurement Management
  - Stakeholder Management



# Project Integration Management

Coordination with the broader goals of the organization





# Project Integration Management

Integration management involves seven primary activities

1. Develop the project charter
2. Develop project scope statement
3. Develop project management plan
4. Direct and manage project execution
5. Monitor and control project work
6. Perform integrated change control
7. Close the project

**Most of what you have done so far is Integration Management**

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# Project Integration Management

Integration management involves seven primary activities

1. Develop the project charter
2. Develop project scope statement
3. Develop project management plan
4. Direct and manage project execution
5. Monitor and control project work
6. Perform integrated change control
7. Close the project





# Project Integration Management

## Project Charter

Document that formally recognizes the existence of a project, signed by key stakeholders

Provides direction on the project's objectives and management

Authorizes project manager to use organizational resources to work on the project

Can incorporate (if existing):

- Contracts, Statement of Work
- Environmental factors
- Organizational assets



# Project Integration Management

Stakeholder Analysis

A document that contains a list of key stakeholders

Includes:

- Names
- Roles on project
- Interesting/unique facts
- Level of interest in project
- Level of influence on project
- Suggestions for managing relationship



# Project Integration Management

Scope Statement

Document used to develop and confirm a common understanding of the project scope

Details what is included in the project:

- Core requirements (must haves)
- Enhancements (nice to have)
- Future features (wish list)

Prevents *scope creep*



# Project Integration Management

Project Management Plan

All documents required to coordinate project plan

Guides execution and monitor/control phases

Includes:

- Introduction/overview of project and team
- Description of project organization (roles, responsibilities)
- Management and technical process employed
- Work to be done, the schedule, and budget



# Project Integration Management

Project Execution

Managing and performing the work

Leadership, politics, communication skills  
all critical during this phase

Majority of tool use during this phase



# Project Integration Management

Monitor and Control Work

Collect, measure, and disseminate  
performance information

Apply corrective actions as needed

Proactively take preventative actions as  
process changes are identified



# Project Integration Management

Change Control

Formal, documented process that describes when and how project resources change

Documents who is authorized to make changes

*Change happens...plan accordingly.*



# Project Integration Management

Closing Projects

Finalize all activities and transfer completed work to the appropriate resources

- Administrative closure procedures
- Contract closure
- Final products, services, results
- Organizational process updates





# Next Class



# Tuesday 10/18

Project Integration Management,  
continued

Team Management

- Start Assignment 5
- Quiz 3 & 4
- Read chapter 5 & 6
- Additional readings posted tomorrow on course website

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# References



- 1.
- 2.