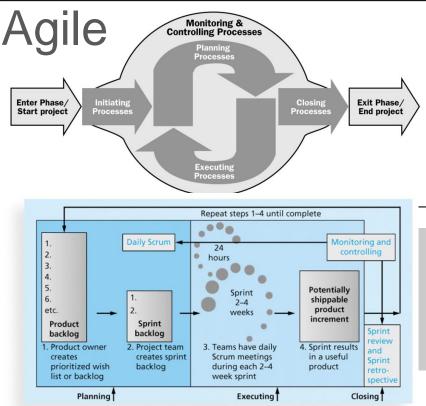




FIT2002 Week 11 Seminar



Project
Management
Process Group and



Recap from Video 1:

- Project management involves a number of interlinked processes.
- The five project management process groups are initiating, planning, executing, monitoring and controlling, and closing.
- Normally the executing processes require the most resources and time, followed by the planning processes.
- Mapping the main activities of each project management process group into the 10 project management knowledge areas provides a big picture of what activities are involved in project management.
- Some organizations develop their own IT project management methodologies, often using the standards in the PMBOK® Guide as a foundation.
- It is important to tailor project management methodologies to meet the organization's particular needs. Popular methods like PRINCE2, Agile, RUP, and Six Sigma include project management processes.



Mapping Project Management Process Groups to Knowledge Areas*

Knowledge Areas	Project Management Process Group					
	Initiating	Planning	Executing	Monitoring & Controlling	Closing	
Project Integration Management	1. Develop Project Charter	2. Develop Project Management Plan	3. Direct & manage project work4. Manage Project Knowledge	5. Monitor & control project work	6. Close Project or Phaase	
Project Scope Management		 Plan Scope Management Collect requirements Define Scope Create WBS 		5. Validate Scope;6. Control Scope		
Project Schedule Management		 Plan Schedule Management Define Activities Sequence Activities Estimate Activity Durations Develop Schedule 		6. Control Schedule		
Project Cost Management		 Plan Cost Management Estimate Costs Determine Budget 		4. Control Costs		



Source: PMBOK® Guide, Sixth Edition, 2017.

Continued...

Knowledge Areas	Project Management Process Group					
	Initiating	Planning	Executing	Monitoring & Controlling	Closing	
Project Quality		1. Plan Quality	2. Manage Quality	3. Control Quality		
Management		Management				
		1. Plan Resource	3. Acquire Resources	6. Control Resources		
Project Resource		Management	4. Develop Team			
Management		2. Estimate Activity	5. Manage Team			
		Resources				
Project		1. Plan Communications	2. Manage	3. Monitor		
Communication		Management	Communications	Communications		
Management						
		1. Plan Risk Managemen	t 6. Implement Risk	7. Monitor Risks		
		2. Identify Risks	Responses			
		3. Perform Qualitative				
Project Risk		Risk Analysis				
Management		4. Perform Quantitative				
		Risk Analysis				
		5. Plan Risk Responses				
Project		1. Plan Procurement	2. Conduct	3. Control		
Procurement		Management	Procurements	Procurements		
Management						
Project Stakeholder	1. Identify	2. Plan Stakeholder	3. Manage	4. Monitor		
Management	Stakeholders	Management	Stakeholder	Stakeholder		
ivianagement		X	Engagement	Engagement		

Process Group Interact in a Phase

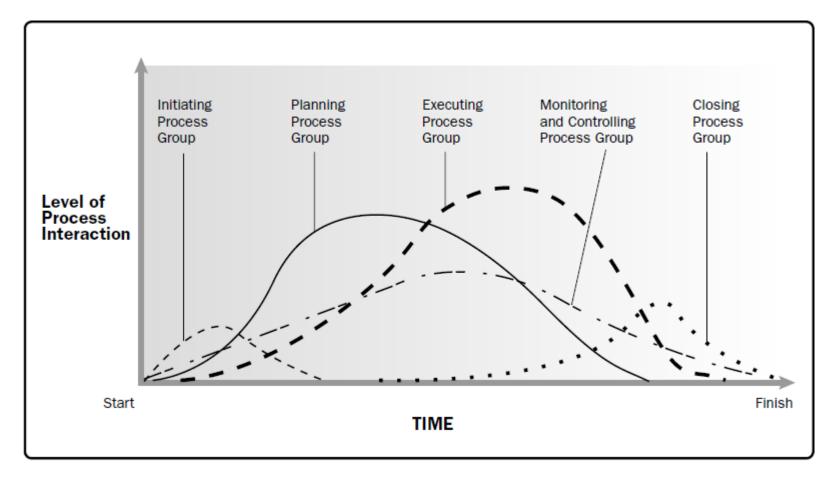
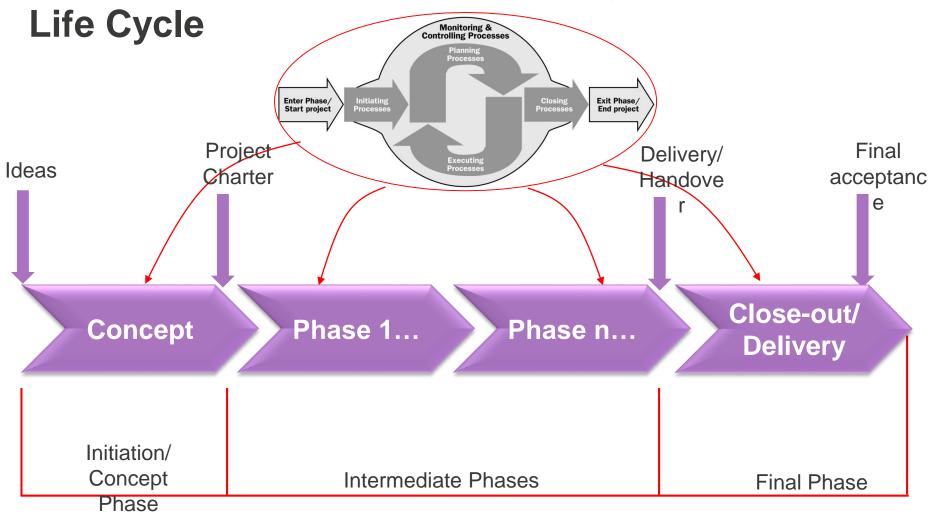


Figure 3-2. Process Groups Interact in a Phase or Project



Process Groups Repeating Along the Project





Recap from Video 2:

- The JWD Consulting case study demonstrates how one organization managed an IT project from start to finish.
- The case study provides several samples of outputs produced for initiating, planning, executing, monitoring and controlling, and closing:
 - Business case
 - Stakeholder register
 - Stakeholder management strategy
 - Project charter
 - Kick-off meeting agenda
 - Team contract
 - Work breakdown structure
 - Gantt chart
 - List of prioritized risks
 - Milestone report
 - Progress report
 - Lessons-learned report
 - Final project report

Recap from Video 3 & 4:

- The second version of the same case study illustrates how to use
 Scrum, the leading agile method, to manage the project.
- Instead of releasing the new intranet software just once near the end of the project, the team could release three iterations of the software.
- This version of the case study introduced some new tools, including a product backlog, sprint backlog, and burndown chart.



Types of Life cycle

- Predictive life cycle: A more traditional approach, with the bulk of planning occurring upfront, then executing in a single pass; a sequential process
- Iterative life cycle: An approach that allows feedback for unfinished work to improve and modify that work.
- Incremental life cycle: An approach that provides finished deliverables that the customer may be able to use immediately
- Agile life cycle: An approach that is both iterative and incremental to refine work items and deliver frequently.



Life Cycles Characteristics

Table 3-1. Characteristics of Four Categories of Life Cycles

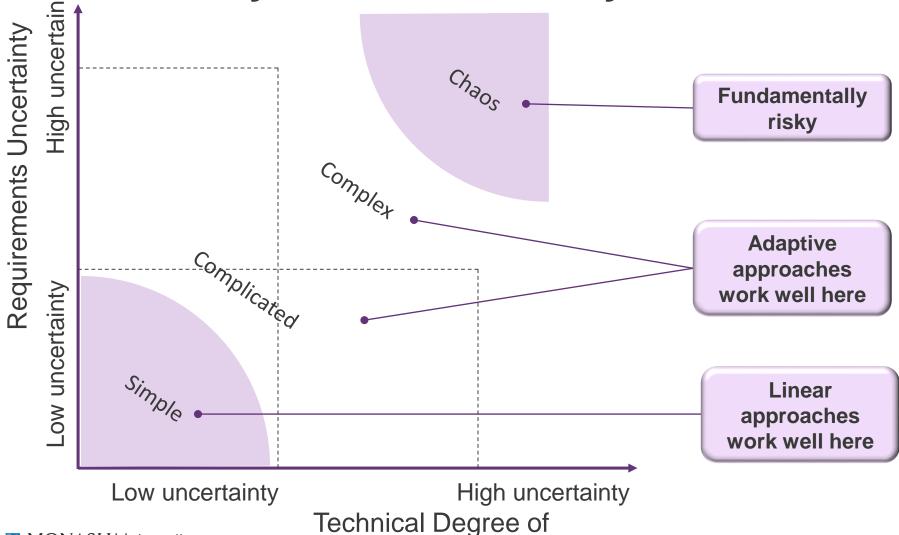
Characteristics								
Approach	Requirements	Activities	Delivery	Goal				
Predictive	Fixed	Performed once for the entire project	Single delivery	Manage cost				
Iterative	Dynamic	Repeated until correct	Single delivery	Correctness of solution				
Incremental	Dynamic	Performed once for a given increment	Frequent smaller deliveries	Speed				
Agile	Dynamic	Repeated until correct	Frequent small deliveries	Customer value via frequent deliveries and feedback				

Definable Work vs High Uncertainty Work

- Definable work projects:
 - characterised by clear procedures that have been proven successful on similar projects in the past
 - Low levels of execution uncertainty and risk
- High uncertainty projects:
 - New design, problem solving and not-done-before work is exploratory
 - High rates of change, complexity and risk
 - May pose a problem for traditional predictive approaches

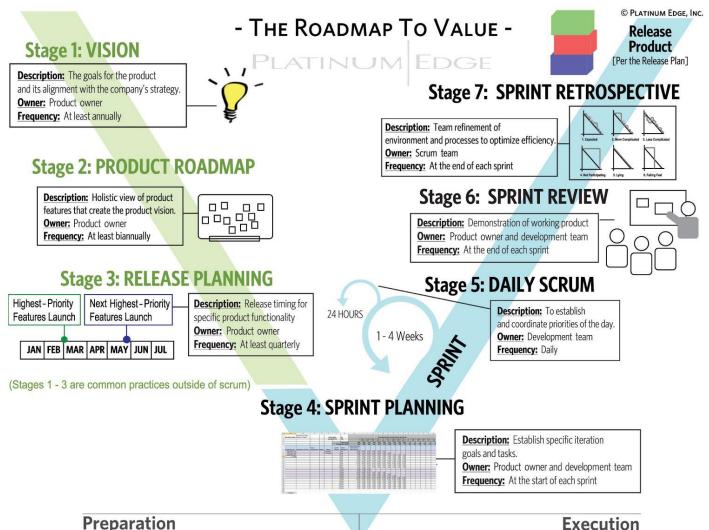


Uncertainty, Risk and Life Cycle Selection



12

An Agile Roadmap





Scrum Framework and the Process Groups

