PROJECT MANAGEMENT
TECHNIQUES
FOR
NON-PROJECT MANAGERS

Agenda

- Introduction
- Project Management Overview
- Project Management Concepts
- Project Management Techniques
- BC Technology
- Summary
- □ Q&A

Introduction

Speakers

- □ Session 1 Recap (4/6)
 - Value and Application of Project Management @ Boston College

Overview - Project

- What is project management?
 - Application of knowledge, skills, tools and techniques to project activities to meet project requirements

- □ What is a project?
 - A "temporary endeavor undertaken to create a <u>unique</u> product, service or results"
 - Definite beginning & end
 - Team is formed & reassigned at completion Vs. operations — ongoing, repetitive

Overview – Project Manager

- What is a project manager?
 - □ The person assigned to achieve the project objectives

.....In most cases – YOU

A role not necessarily a job



Project Management Profession

Project Management Institute (PMI®)

- □ World's leading not-for-profit association for the project management profession (40+ yrs)
- Membership / local chapters
 - Mass Bay & Central Mass (MA)
 - Ocean State (RI), Southern New England (CT)
 - New Hampshire & Greater Monadnock (NH)
 - Maine Chapter (ME), Champlain Valley (VT)
- Credentials / Certifications
 - Program Management Professional (PgMP®)
 - Project Management Professional (PMP®)
 - Certified Associate in Project Management (CAPM®)
- □ <u>www.pmi.org</u>



Overview – Project Challenges

Why are projects challenging?



- Unique, something new, no blueprint
- Sometimes difficult to define what is it, when does it end
- Working with people
- Too much to do, too little time
- As soon as you start, something changes

"If you don't know where you're going, then any road will get you there" – Alice in Wonderland

Overview – PM Importance

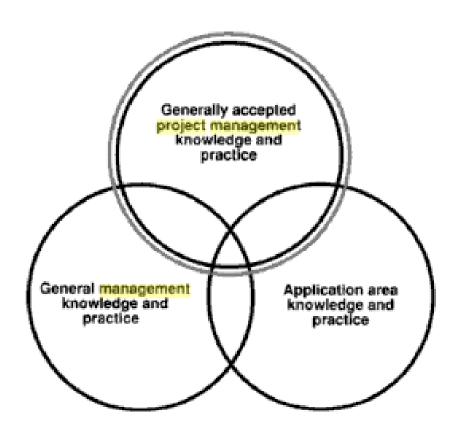
- Why is project management important?
- Why do we need project managers or people who can manage projects?

- to address the previous challenges
- to get the required work <u>done</u> as quickly and efficiently as possible

The value from a project is achieved at the END

Concepts – Management

Project Management vs. General Management



Concepts - Project Lifecycle

Project Management Processes

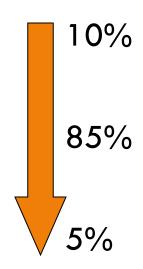
- Initiating
- 2. Planning
- 3. Executing
- 4. Controlling (and monitoring)
- 5. Closing



Concepts – Project Processes

Where is time typically spent?

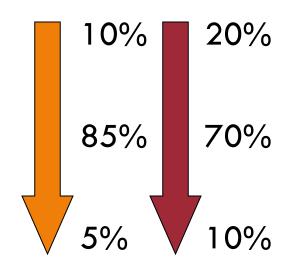
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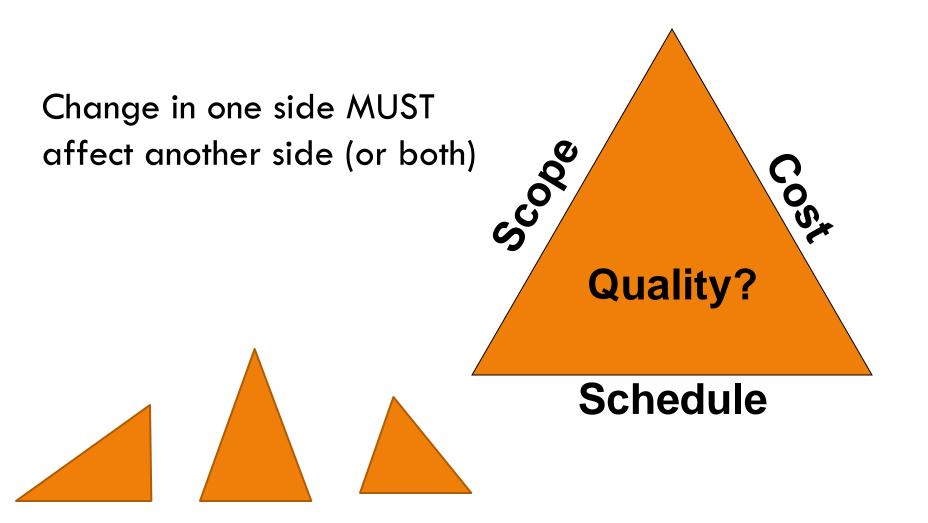
Concepts – Project Processes

How time should be spent!

- 1. Initiating
- 2. Planning
- 3. Executing
- Controlling (and monitoring)
- 5. Closing



Concept – Triple Constraint



Techniques – Overview

Definition: "a body of technical methods", "a method of accomplishing a desired aim"



- One size does NOT fit all tailor to project size / complexity
- Just enough PM not a burden or impediment to achieving your end goal (project's objective)

Concepts – Project Lifecycle

Project Management Processes

Initiating

- 2. Planning
- 3. Executing
- Controlling (and monitoring)
- 5. Closing



Techniques – Project Charter

Start the project – document 'hallway' conversation

- Project Charter / Project Definition / Business Case
 - What are you doing?
 - What are you NOT doing?
 - Why are you doing this?
 - □ How will you know when you' re done!

Project Kickoff



Initiation - Project Charter

- Overview
- □ Goal
- Objectives
- Benefits
- Success Criteria
- Approach
- Assumptions
- Constraints

- □ Scope (in / out)
- Stakeholders
- □ Risks
- Milestones
- Communications
- Approval



Project Charter – Examples

ct Definition Templete		Dat	e Created:	MM/DD/YY	7
Project Manager:			st Revised:		
Overview: Briefly introduce th	e project. How did it co	me about? Why	are we underta	king it? What is the problem of	T.
opportunity?				•	
Goal: Encapsulate the project's	cost in one centence	What are you to	vina to accome	(FB7	
doan bicapadete the project a	· your in one sentonee.	marare your	Just co account	1411	
Objectives: To accomplish this	s goal, the following will	l be done			
•					
Benefits: Who will benefit from	this project? How will	this project ber	efit Boston Coll	ege7	
·					
Success Criteria: List the acti	vities that must be acco	omplished in ord	er to achieve th	ne profect goals.	
•					
					_
Approach: Describe the approx house, or purchasing a vendor p					
be developing prototypes or pilo					ou i
will decide to move forward or I					
Assumptions: What circumsta	nnes or events, that an	e nutside of the	notiect teams	control, need to occur for the	
project to be successful? (i.e., i				to a second the	
•					
Constraints: Describe the thin	gs that might restrict, i	lmit, or regulat	e the project. O	ften constraints are not	
controlled by the project team.	(i.e., resources, policie	s, schedules, te	ethnologies, etc	J:	
•					
Scope: Define the products and	d/or services that will b	e included (in s	cope) and exclu	ded (out of scope) from this	
	d/or services that will b	e included (in s	cope) and exclu	ded (out of scope) from this	
		e included (in s		ded (out of scope) from this	
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Concepts – Project Lifecycle

Project Management Processes

- Initiating
- 2. Planning
- 3. Executing
- Controlling (and monitoring)
- 5. Closing



Techniques – Project Planning

Expand Project Charter to greater detail

- □ How are you going to complete your project?
 - What steps or actions are required
 - What resources are required
 - What is the timeline
 - What is the cost
 - What might derail you (risks)



Planning - WBS

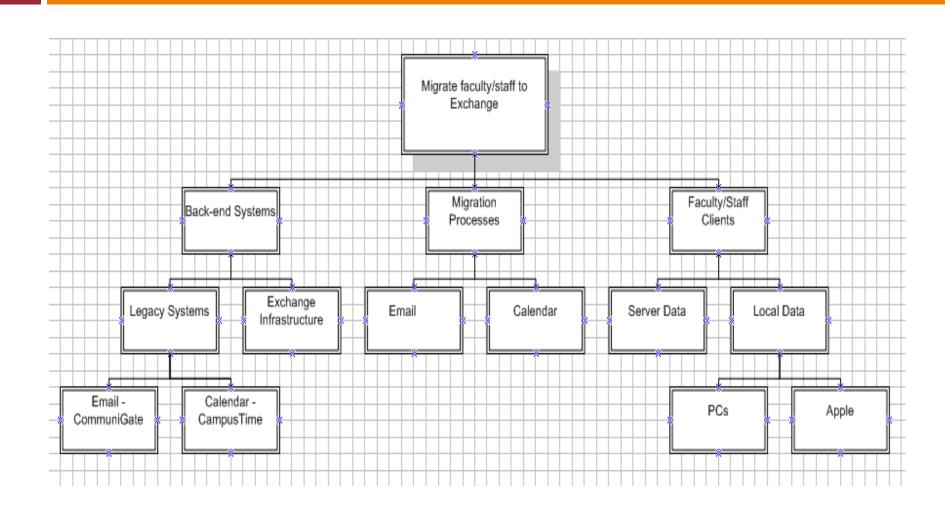
What steps or actions are required?

- Work Breakdown Structure (WBS)
 - Addresses total scope of project
 - Divides work into manageable components.
 - Scope decomposition start at the end
 - Hierarchical depiction

Defines High-level Tasks



WBS – Example



Planning – Resource Plan

What resources are required?

- Resource Plan (project team)
 - □ Roles and skill set
 - □ Timeframe start / end date
 - Demand full-time vs. part-time (fte)
 - Location local /co-located vs. remote / virtual

Defines what skills are needed when - and ultimately who



Resource Plan – Example

TS Resource Plan Project Name Date

Name	Project Role	Project Responsibilities	% of Project time	Project Backup	Start Date on Project	End Date on Project	Other Roles	% of Other time	Tota
							Project		
							Operations / Support		
,			Sub-to	eam1	•				
							 Project 		
							Operations / Support		
							 Projects 		
							Operations / Support		
							Training / mentoring		
			Sub	-team2					
							Project		
							Operations / Support		
							Project		
							Operations / Support		-

Planning – Project Schedule

What is the timeline?

- □ Project Schedule MS Excel (.xls) or Project (.mpp)
 - Task
 - Resource
 - Dependencies
 - Start Date & End Date (duration)

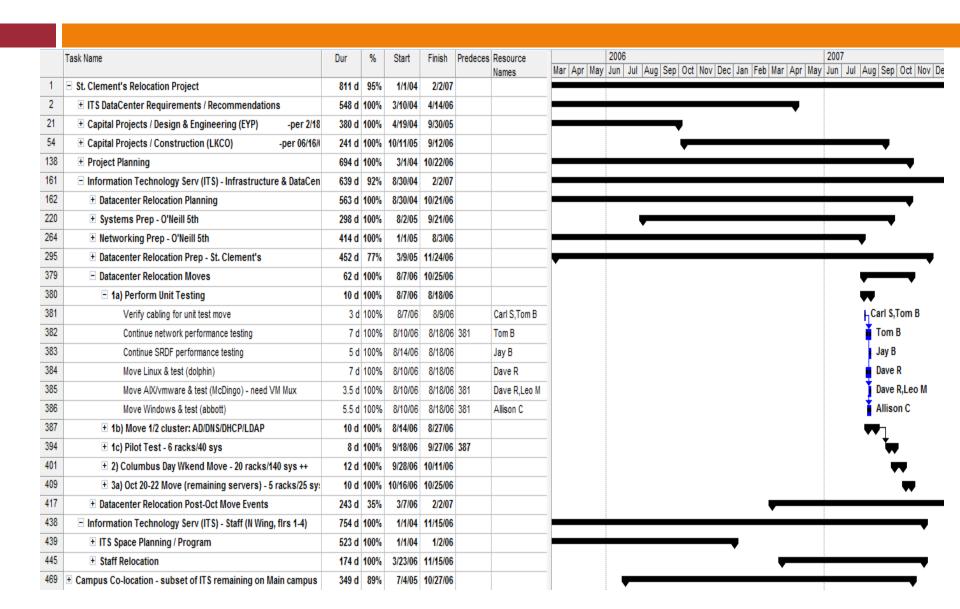


Resolves constraints based on WBS, activity sequence / duration, and resource plan; defines critical path

Project Schedule – xls Example

Table	Planned	Planned	De service ve suite mente	Resource managers		
Task	start date	finish date	Resource requirements	consulted		
Research/Analysis/Database and System			2 Enterprise systems developers for 2 months each;			
Design and Development	7/1/2006	8/31/2006	1 DBA for .5 month	Manager 1, Manager 2		
Installation of new hardware and software	., ., =====	0,01,000	1 System admin. for .5	manager i, manager =		
environments	9/1/2006	9/22/2006	month; 1 DBA for .75 month	Manager 3, Manager 1		
Common componentsprototype			3 Developers for 1.5 months			
development and unit testing	9/23/2006	11/7/2006	each	Manager 1		
OSP componentsprototype development and unit testing	11/8/2006	2/22/2007	3 Developers for 3 months each	Manager 1		
ORC componentsprototype development and unit testing	2/23/2007	7/7/2007	3 Developers for 4.5 months each	Manager 1		
Implementation of OSP validations and enhancements not directly covered in migration	7/8/2007	8/22/2007	3 Developers for 1.5 months each at 50% of their time	Manager 1		
Implementation of ORC validations and enhancements not directly covered in migration	8/23/2007	10/7/2007	3 Developers for 1.5 months each at 80% of their time	Manager 1		
Integration of new system with existing systems	10/8/2007		TBD			
Other budgetary considerations						
Hardware	\$50,000 for s	erver to house	e new systems			
Software			ware to be developed in-house			

Project Schedule - Gantt example



Planning – Project Budget

What is the cost?

- □ Project Budget
 - Hard dollars (\$)
 - Hardware, software, vendor / consulting services, travel
 - Funding: capital vs. departmental
 - Don't forget operating costs
 - Soft dollars
 - BC resources



Based on project schedule

Planning – Project Risk

What might derail you (risks)?

- □ Project Risk
 - What could happen?
 - What is the likelihood of it happening?
 - What is the impact if it did happen?
 - For high priority items, define risk strategy / approach
 - Accept, mitigation, contingency

Identify risk, action strategy & trigger (if applicable)



Project Risk – Example

Risk	Plan - Pr	oject Nar	ne										
	Date												
				Risk			Risk						
Risk	Risk	Date		Proba	Risk	Risk	Response		Risk	Review		Previous	
#	Class	Raised	Risk Description	bility	Impact	Rating	Strategy	Risk Response Plan	Owner	Date	Curent Status	Review	Previous Status
Ope:	n / Currer	t Risks											
Clos	ed / Pass	ed Risks											

Concepts – Project Lifecycle

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Techniques – Execution / Control

Implement the Project Schedule & control the project

- Manage reality
 - Scope changes, scope creep, scope misunderstandings
 - □ Resource changes, resource unavailability, resource skills
 - Estimates are incorrect, tasks are missing
 - Risk events occur



- "No battle plan survives contact with the enemy"
- Colin Powell

Project Execution / Control

- Tracking
 - Progress against Project Schedule
 - Risks
- Change Control
 - Manage change process
- Communication
 - Update team and stakeholders

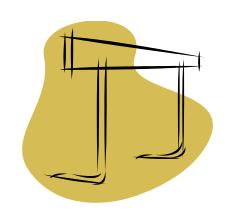


Project Execution — Tracking

Implement the Project Schedule

- Project Tracking
 - □ Schedule % complete
 - □ Risks monitor triggers, address new risks
 - Issues / Actions Log new or missed items, items
 preventing task completion

Make it happen



Project Issues/Action – Example

_	0					Project Management INFORMATION TECHNOLOGY SERVI	Office	
				Iss	ues Lis	t		
Issue #	Issue Description	Assigned To	Date Identified	Planned Date	Revised Date	Resolution/Comments	Current Status	Actual Resolve
				Acti	ons Li	st		
Action #	Action Description	Assigned To	Date Identified	Planned Date	Revised Date	Resolution/Comments	Current Status	Actual Close

Project Execution - Change

'Manage' the Project Schedule

- □ Project Change
 - Recognize change
 - Accept / manage change
 - Assess impact
 - Approve & implement change (or not)



Integrate change, update project plan, communicate revised plan

Project Change – Example

Ch	ange Log -	Project Nam	ne							
	Date									
Ва	seline doci	ument/cont	ract / sow & date.							
	Request	Requested			Assessed	Assessed	Change	Decision		
#	Date	Ву	Change Description	Change Assessment / Impact	Date	Ву	Decision	Date	Decided By	if approved, Change Next Steps
_										

Project Execution — Communications

Keep the team & stakeholders informed

- □ Project Communications
 - Stakeholders manage expectations, tailor message
 - Meetings effective (agenda, monitored, summary)
 - Email targeted and tagged
 - Files standard naming convention
 - Reporting status reports



The right information at the right time to the right people

Project Status – Example

Project Repository:

Project Name Monthly Status Report	Project Management Office INFORMATION TECHNOLOGY SERVICES @ BC			
Project Manager:	Date Created: Reporting Period:	From: To		
Project Health: Place an "X" in the appropriate bo X Green (project is on track) Yellow (issues or problems may impact com Red (project won't be completed by schedestablished scope	pletion date, cost, or s	scope)		
Health Explanation: Provide a few sentences regarders. Accomplishments: List the activities that have be				
Planned Activities: List the activities that will be o				
Issues/Risks: List any outstanding items of concerninterfere with achieving the project.	ern as well as any unc	ertain occurrences that may		
General Comments: Enter any important remarks/	observations relevant	to the project and its status.		
Key Project Milestones > Project Meetings: > >				

Concepts – Project Lifecycle

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Techniques – Project Close

Achieved your project's objective

- Project Transition
 - To support / operations
- □ Project Closeout
 - Lessons learned / continuous improvement
 - Celebration / thank you



"Insanity: doing the same thing over and over again and expecting different results" (attributed to Albert Einstein)

Close - Project Closeout

- Project Summary
 - Description, size, complexity, resources
- Metrics: baseline vs. actuals (variance)
 - Schedule, cost, scope and variance explanation
- Lessons Learned
 - PM Project Lifecycle
 - Process and product related
- Project Repository
- Outstanding Tasks



Project Closeout – Examples

1. Project Closeout - Summary Provide a high level description of the project - what was the result or delivered value (new functionality/service, modified functionality/service, removed functionality/service, etc.) Insert summary text here 2. Project Closeout - Metrics Compare the baseline values against the actual results to determine the variance against plan; explain the variances or if no variance, the method used to meet cost, schedule or scope. 2.1 Baseline vs Actual (cost, schedule, scope) Baseline Actual Variance % Variance Start Date modifypyy *WALUE! *#VALUE! Budget (\$) < \$000,000.00> modifypyy> *WALUE! *#VALUE! Budget (\$) < \$000,000.00> modifypyy> *#VALUE! **Scope text text text text **Lext text **Lext text **Lext text **Lose Note: Variance & %Variance columns contain form 2.2 Description Explain the variances or if no variance, the method used to meet cost, schedule or scope, ie. 1) was the end date met by a) decreasing project scope and/or creating a phase 2 or b) by adding resources/cost; 2) was the scope met by a) extending the end date or b) noreasing resources/cost, 3) was the cost met by a) decreasing project scope and/or creating a phase 2 or b) accelerating the timeling cannot be scope with the project scope and/or creating a phase 2 or b) accelerating the timeling cannot contain form 2.2.1 Cost insert scope variance text here 3. Project Closeout - Key Takeaway Document the project's key takeaway - what was the most important lessons learned (significant new understanding for next project); information on project performance (requirements, scope, cost, resources, schecule, etc.), risk, quality, vendor, etc.	Project I	Vame:	insert Project Name here				
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TECHNOLOGY TOOLS

Project Management

Project Repository - MyFiles@bc

- Web-based file-storage system
- □ Access at bc.edu/myfiles
- Faculty, staff, and students have accounts
- Share files with other members of the team
- □ Keep track of different versions of the same file
- Receive reports when files are viewed or changed
- Use a consistent convention when naming projectrelated folders and files

Project Communications — BCPost

- □ Email Listserv
- Easily communicate with all members of project team at once via email
- Subscribers can request a digest, containing all the messages from a given time period
- All messages are archived so you have a history of discussions
- Learn more and access BCPost at bc.edu/bcpost

Project Communications – Campus Groups

- A group available for emailing, filesharing (MyFiles@bc), web-based collaboration, and voicemail distribution.
- Good option if you need to use the group for functions other than just email.
- Campus Groups do not have all the functionality of BCPost, for example postings cannot be restricted and/or moderated.
- Access through Agora Portal

Project Communications — Email

- Create folders to store all project-related messages
- Use labels/categories to prioritize
- Learn how to sort messages quickly by sender, recipient, subject, date to find key information quickly
- Use a consistent convention for subject lines
- Use "To" field for calls to action and "CC" for conveying information

Project Templates – Microsoft Office

- Built-in Professional Templates (agendas, calendars, schedules, reports)
- "Track Changes" to collaborate with others
- Compare different versions of same document
- Improved sorting and filtering of Excel data

Learn about These and More...

- ITS Training Classesbc.edu/training
- Online Microsoft Classes bc.edu/mselearning
- The Technology Help Site bc.edu/help

SUMMARY

Summary

- Projects, project management & you the "project manager"
- Project Techniques
 - Initiating, Planning, Executing/Controlling and Closing
 - □ 80/20 rule
 - Apply just the right amount

The more you plan, the luckier you get



References

- □ PMI[®]: www.pmi.org
- □ EDUCAUSE: <u>www.educause.edu</u>
- □ Northeast Reg Computing Pgm: <u>www.nercomp.org</u>
- CSOM course: Managing Projects (MD255/MD831)
- □ BC ITS PMO: <u>www.bc.edu/pmo</u>
- □ Thank you
- Session Evaluation



Food for Thought

- □ If it's not written down, it does not exist
- Murphy is alive and well If it can go wrong it will
- And so is O' Malley (alive & well) If it can't possibly go wrong, it will
- 'No news' is not necessarily good news
- Warning: dates in the schedule are closer than you think
- A project becomes one year late, one day at a time

If you fail to plan, you are planning to fail