

Fully Utilize Your PMO: Implement Key Techniques and Best-In-Class Practices

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Objectives

- Discover how PMOs can be used to monitor and execute successful project plans
- Master innovative techniques for monitoring and controlling all enterprise projects using a successful PMO
- Implement best practices for project success using PMO compliance and portfolio management methodologies



The Boeing Company Overview









History

- Founded in 1916 in Puget Sound, Washington
- Became a leading producer of military and commercial aircraft
- Undertook a series of strategic mergers and acquisitions to become the world's largest, most diversified aerospace company
 - Aerospace pioneers now part of the Boeing enterprise include:
 - North American Aviation
 - McDonnell Douglas
 - Rockwell International (space and defense business)
 - Hughes Space & Communications
 - Jeppesen

A heritage that mirrors the history of flight

What We Do Today

Design, assemble and support commercial jetliners

- Boeing 7-series family of airplanes lead the industry
- Commercial Aviation Services (CAS) offers broad range of services to passenger and freight carriers
- Design, assemble and support defense systems
 - World's largest designer and manufacturer of military transports, tankers, fighters and helicopters
 - Support Systems provides services to government customers worldwide
- Design and assemble satellites and launch vehicles
 - World's largest provider of commercial and military satellites; largest NASA contractor
- Integrate large-scale systems; develop networking technology and network-centric solutions
- Provide financing solutions focused on customer requirements
- Develop advanced systems and technology to meet future customer needs

Connect and protect people globally

Vision 2016

People working together as a global enterprise for aerospace leadership



Strategies

Run healthy core businesses Leverage strengths into new products and services

Open new frontiers

Core competencies

Detailed customer knowledge and focus Large-scale systems integration Lean enterprise

Values

Leadership Integrity Quality Customer satisfaction People working together A diverse and involved team

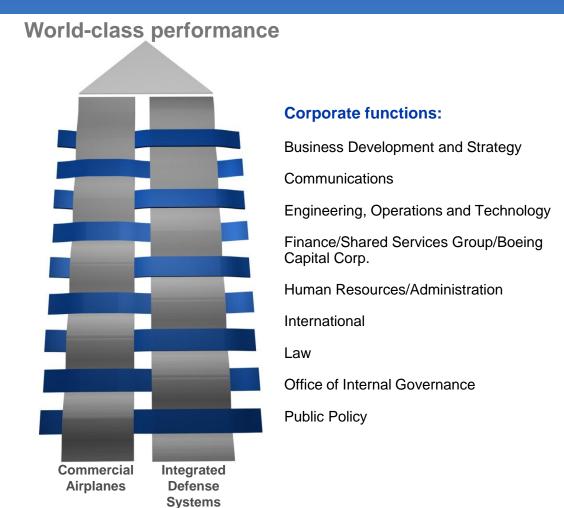
Good corporate citizenship Enhancing shareholder value

Global Boeing

- Customers in more than 90 countries
 - Total revenue in 2007: \$66.4 billion (41 percent from international sales)
 - 70 percent of commercial airplane revenue historically from customers outside the United States
- Manufacturing, service and technology partnerships with companies around the world
 - Contracts with 22,000 suppliers and partners globally
- Research, design and technology-development centers and programs in multiple countries
- More than 150,000 Boeing employees in 49 states and 70 countries

Partnering worldwide for mutual growth and prosperity

How We Are Organized



Two businesses supported by nine corporate functions

Boeing Commercial Airplanes

- Headquartered in Puget Sound, Wash.
- 2007 revenues of \$33.4 billion
- More than 55,000 employees
- Offering a family of airplanes and a broad portfolio of aviation services for passenger and cargo carriers worldwide
 - Boeing airplanes represent three quarters of the world's fleet, with nearly 12,000 jetliners in service
 - Approximately 70 percent of Boeing commercial airplane sales (by value) go to customers outside of the United States



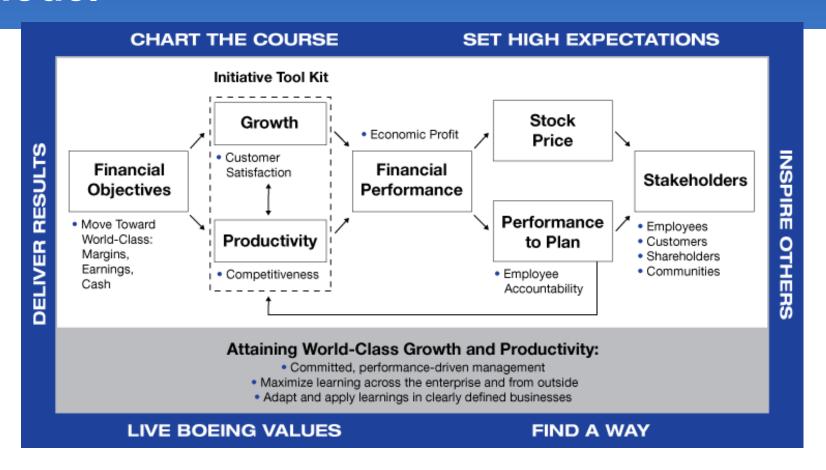
Integrated Defense Systems

- Headquartered in St. Louis, Mo., with global operations in 4 nations and 21 states
- Formed in 2002 integrating Boeing's defense, space, intelligence and communications capabilities
- Designing, building and supporting netenabled platforms and systems for government and commercial customers
- Balanced backlog across all markets including a strong mix of development, production and support contracts
- 2007 revenues of \$32.1 billion
- More than 70,000 employees

Delivering the future



How We Operate: Boeing Management Model



Driving performance through growth and productivity and leadership development



What's the difference between Project, Program & Portfolio Management?

Why are we here?



Prime purpose

- Make money?
- Produce products and/or services to customers?
- Chicken & egg scenario?
- Continued operation as a company?

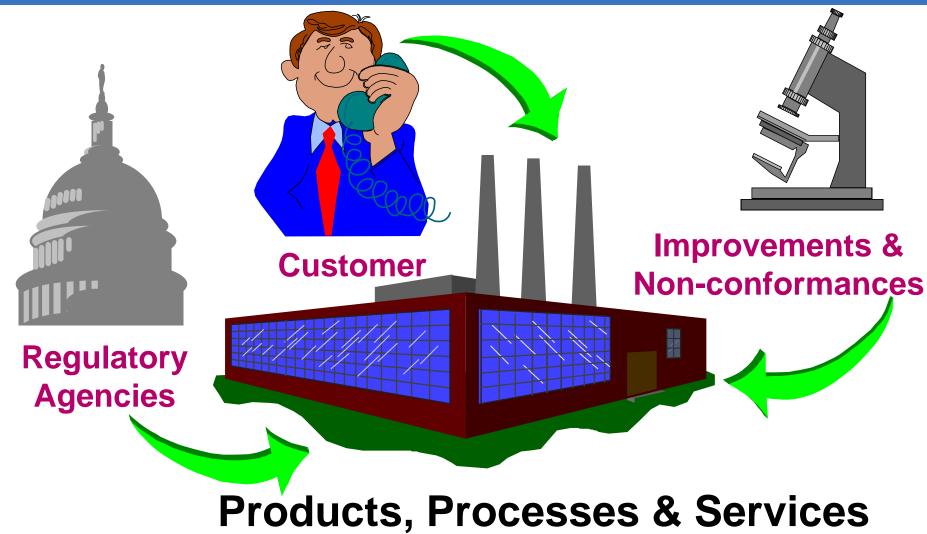
Why the Emphasis on Projects?

Work gets done in a company through projects

- New ideas/products/services
- Changes/modifications to existing products/services
- Fulfill company, business unit and/or organizational business strategies
- Become more competitive in the marketplace



Primary Forces Creating Projects



Business & Projects

Projects:

- Elicit business decisions
- Contain options from which to choose
 - e.g., phasing, decision points for "if, then, else" scenarios
 - Commit company resources to:
 - Product changes (e.g., airplane, software, procedures)
 - Process improvements
- Have one or more of three key purposes:
 - Fix problems, or increase the company's net worth through improvements
 - 2. Meet customer requirements
 - 3. Comply with regulatory requirements



Projects – A Puzzle





How

Why

When

Need to Link & Balance Each of These Items

Schedule (Urgency) (Speed)

Need to understand

- Methods
- •Tier Levels
 - WBS

Budgets

Need to understand

- Control
 Accounts
- Earned Value Methods

Need to understand

- Key SMEs needed
- •Key System Mgrs

Resources

Project Objectives

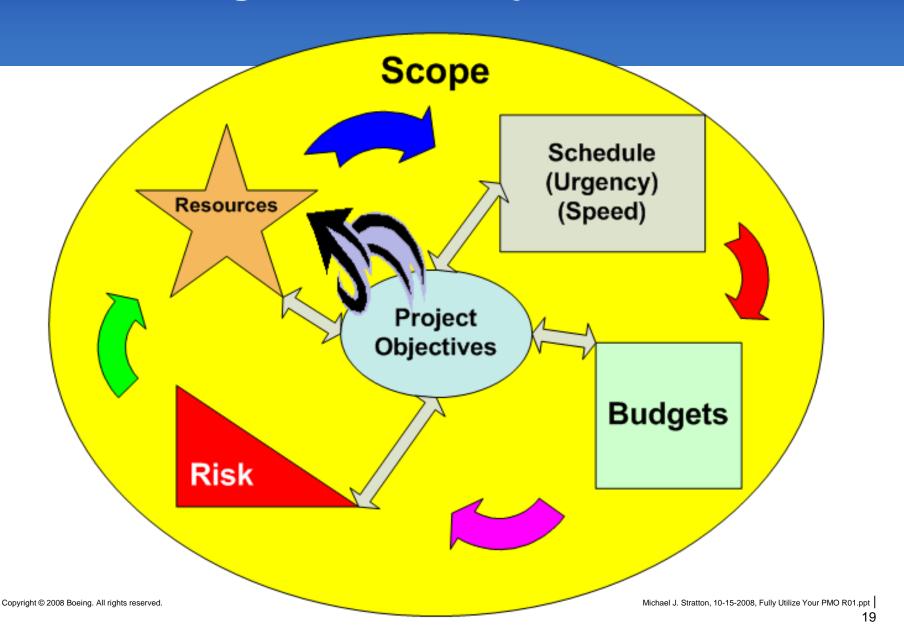
Need to understand

- Options
- Deliverables



Risk

The Swirling Life of a Project



Official Definition -- Project

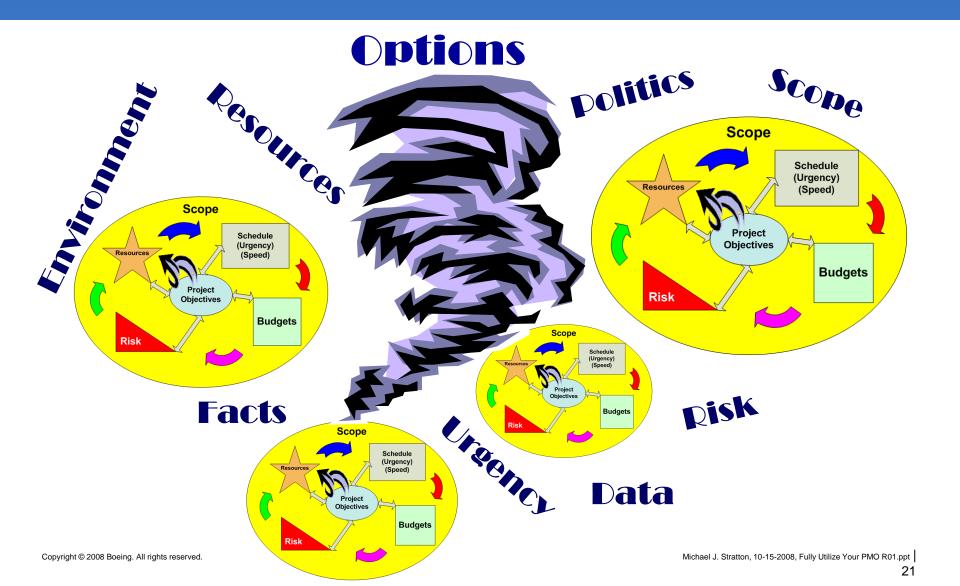
Project

A temporary endeavor undertaken to create a unique product, service, or result.

-- "PMBOK ® Guide"



The Swirling World of Projects



Official Definition – Project Management

Project Management

The application of knowledge, skills, tools, and techniques to project activities to meet the project requirements.

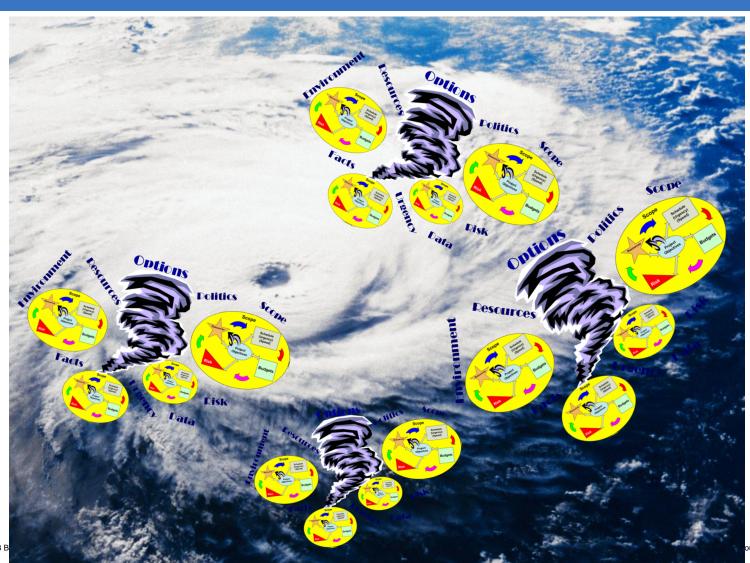
-- IEEE-1490-PMBOK and "PMBOK ® Guide"



A temporary endeavor undertaken to create a unique product, service, or result.

-- "PMBOK ® Guide"

The Swirling World of Programs



Official Definitions – Programs/Mgt

Program Management

The business and administrative planning, organizing, directing, coordinating, controlling, and approval actions designated to accomplish overall program objectives which are not associated with specific hardware elements and are not included in systems engineering. -- *MIL-HDBK-881A 7/30/2006*

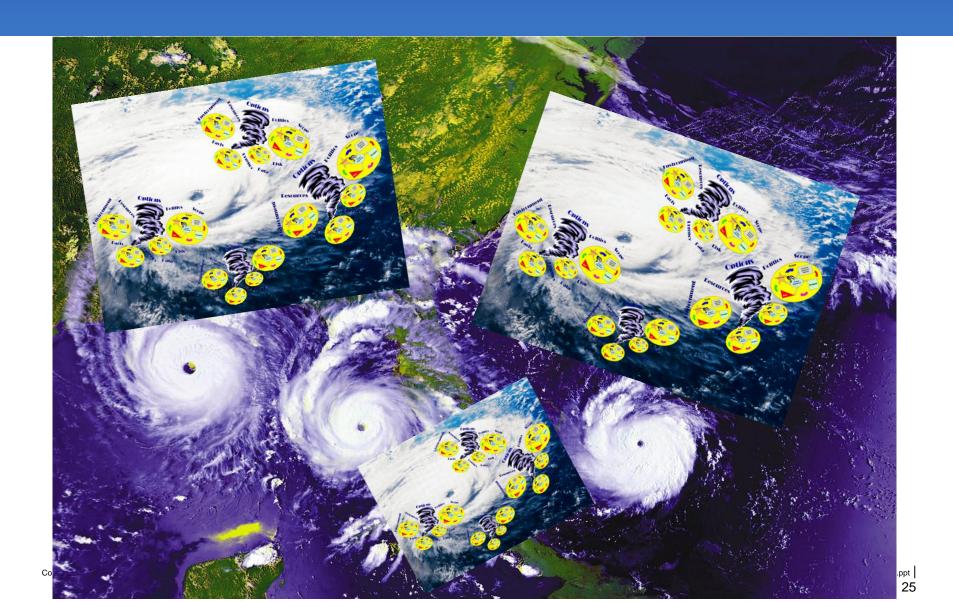
The centralized coordinated management of a program to achieve the program's strategic objectives and benefits. -- "PMBOK ® Guide"



A group of related projects managed in a coordinated way to obtain benefits and control not available from managing them individually. Programs may include elements of related work outside of the scope of the discrete projects in the program.

-- "PMBOK ® Guide"

The Swirling Universe of Portfolios



A Rose by Any Other Name

Portfolio Management (PfM) can take on many different

names throughout industry:

- Product Portfolio Management
- Project Portfolio Management
- Application Portfolio Management
- Investment/Project Management Process
- Etc.





Official Definitions – Portfolios/Mgt

Portfolio Management

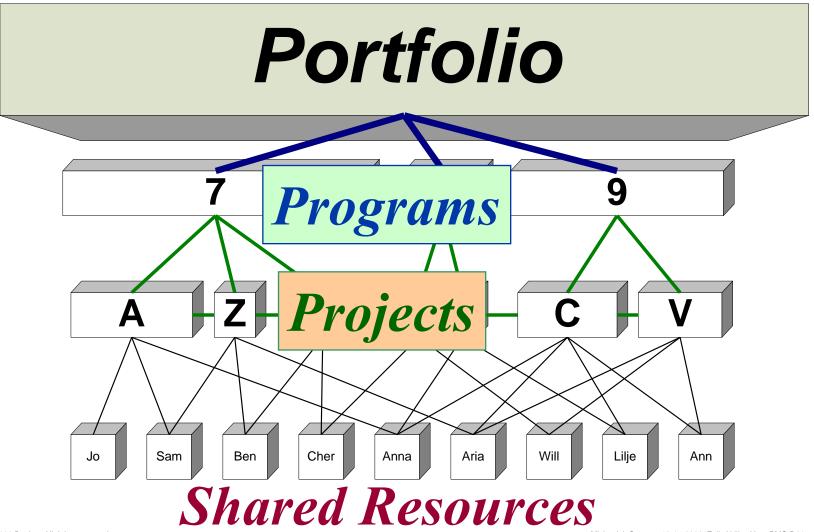
The centralized management one or more portfolios, which includes identifying, prioritizing, authorizing, managing, and controlling projects, programs, and other related work to achieve specific strategic business objectives. -- "PMBOK ® Guide"

Portfolio

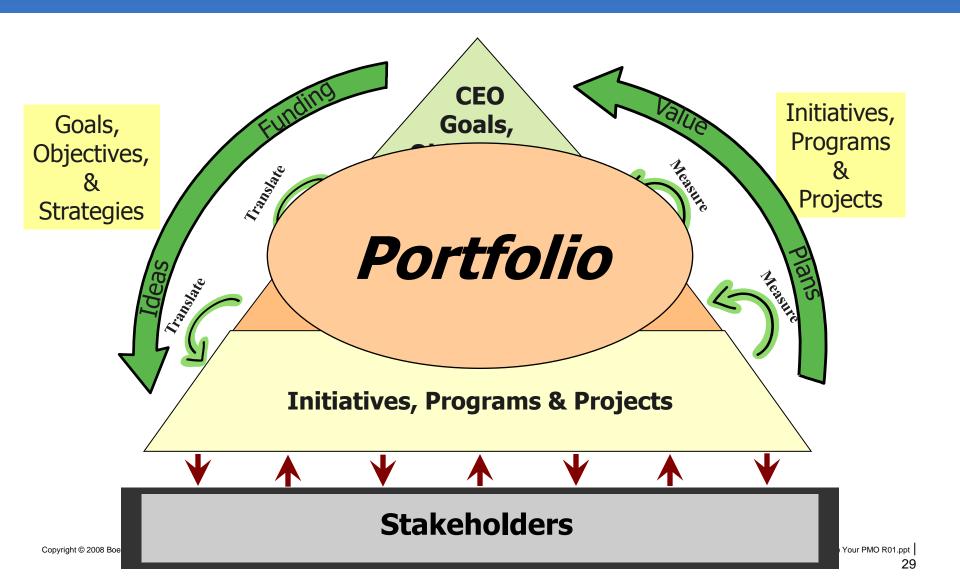
A collection of projects or programs and other work that are grouped together to facilitate the effective management of that work to meet strategic business objectives. The projects or programs of the portfolio may not necessarily be interdependent or directly related.

-- "PMBOK ® Guide"

Another View



Fulfillment of Business Purpose





Where do Project Management Offices fit?

Kinds of Project Management Offices (PMOs)

PMOs

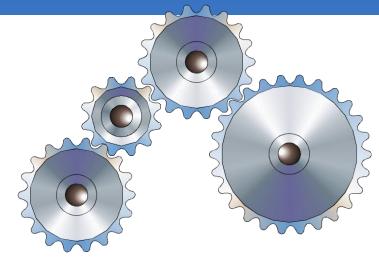
- Come in a variety of shapes & sizes
- Go by different names
- Located differently in company's organizational hierarchy
- Roles remain consistent

Kinds:

- Enterprise Formal
 - Usually resides high in organizational hierarchy reports to "C-level"
 - Given formal "power"
- Business Unit/Organization Formal
 - Resides within the business unit or organizational hierarchy
 - Given some formal "power"
 - Most "power" derived from expertise and relationships

Virtual

- Operates without formal "power"
- "Power" comes from expertise and relationships
- Usually plays a role in managing/facilitating the organization's portfolio



PMO Titles

PMOs called a number of different titles

- Project Management Office/Organization
- Program Management Office/Organization
- Investment Management Office/Organization
- Portfolio Management Office/Organization
- Enterprise Portfolio Management Office/Organization

– etc.



"Official Definitions"

Program Management Office (PMO)

 The centralized management of a particular program or programs such that corporate benefit is realized by the sharing of resources, methodologies, tools, and techniques, and related high-level project management focus. -- "PMBOK ® Guide"

Project Management Office (PMO)

– An organizational body or entity assigned various responsibilities related to the centralized and coordinated management of those projects under its domain. The responsibilities of a PMO can range from providing project management support functions to actually being responsible for the direct management of a project. --"PMBOK ® Guide"

The PMO Role

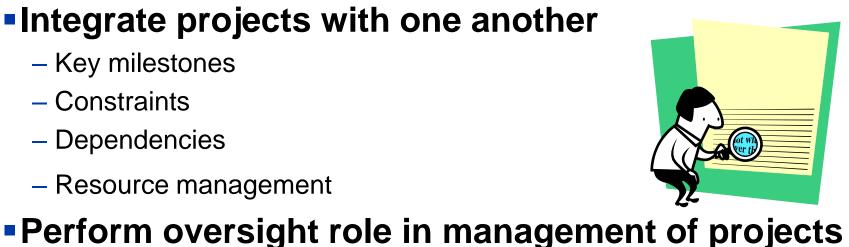
PMOs deal with the "white spaces"

- "White spaces" are the:
 - Areas, or spaces, between business processes
 - Gaps between organizations
- Processes guide the work
- Projects are the way work gets done

Integrate projects with one another

- Key milestones
- Constraints
- Dependencies
- Resource management





PMOs Manage

The processes, procedures, policies

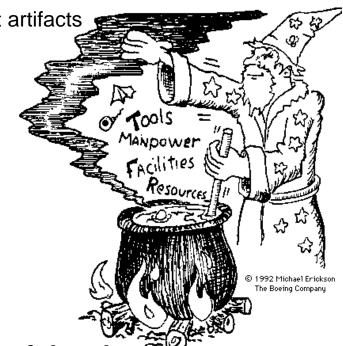
- Stage/Gate process for project decisions, including approval & monitoring
- Project Management process, including visibility and communication with stakeholders
- Configuration and change management processes
- Meetings and/or meeting preparations

The tools

Provide templates and guides for project management artifacts

- Project Proposal document
- Statement Of Work (SOW) document
- Business Case document
- Project Charter document
- Project Plan
- etc.
- Computing systems
 - SOW
 - Scheduling
 - Work flow
 - Portfolio management
 - etc.

· The training, consulting & mentoring for all of the above



Two Key PMO Best Practices

Project Management (PM) – MICRO VIEW

- Enables change to be implemented in the business
- Sets the stage for success by doing things in the right order
- Project Managers manage the projects
- Many sources of good information on this available in marketplace

Project Portfolio Management (PPM) – MACRO VIEW

- Takes the next step up in viewing the business
- Helps make PM easier
 - Allows integration of projects for successful business outcomes
 - Addresses resource issues across projects
 - PPM provides visibility of the projects by working with Project Managers
- Application of financial portfolio principles to projects is relatively new
- These two practices are not the same ... they're different, but complementary

Project Mgt (Micro) vs. Portfolio Mgt (Macro)

Project Management -- Micro

- Establish scope
- Develop & maintain detail plans
- Monitor deliverable quality
- Perform project communications
- Manage risks, issues & opportunities
- Control change
- Organize teams
- Show outcomes
- Improve delivery

Portfolio Management -- Macro

- Ensure alignment of projects to business strategies & objectives
- Perform portfolio communications
- Set up standard processes & tools
- Oversee projects
- Mentor, consult & guide
- Integrate projects
- Balance resources
- Supply governance
- Coordinate project managers



Another Key PMO Best Practice

True success is accomplished by people

- -PMOs provide technical help **to** people
- –More importantly, PMOs work <u>with</u> people and help them to be successful with:
 - Stakeholders
 - Other Project Managers
 - Customers
 - Suppliers
 - Management
- PMOs become the "translators" between projects and management



Where Did Portfolio Management Originate?

Origins of Portfolio Management

- Harry M. Markowitz, PhD.
 - Often called the father of modern portfolio theory
 - Published article in 1952 entitled "Portfolio Selection" (Journal of Finance, vol. 7, no. 1 (March):77-91)



- Published book "Portfolio Selection: Efficient Diversification of Investments" in 1959 – called "the single most influential work in modern finance" (Financial Analysts Journal, 1976)
- Coined the term "efficient frontier" a set of efficient investments making up a portfolio
- Received the <u>Nobel Prize</u> in Economics in 1990 for his work in this area

Concept Applied to Projects

 Concept began being applied to management of groups of projects and programs in the late 1990s

Pivotal work on the subject: "Portfolio Management for New

Products" by Robert G. Cooper, Scott J. Edgett and Elko J.

Kleinschmidt in 1998





What does Portfolio Management do for the business?

Portfolio Management Explained

What is it?

– Process of actively & dynamically:



Why?

- Ensure projects align with the strategies, goals and objectives of the business
 - Communicate project purpose & details
 - Manage projects as a whole
 - Measure project progress
- Ensure resources used to best advantage and not "over-booked"

The PPM Conversation

- PPM enables leaders to discuss the key issues facing the business
 - Highlights key needs
 - Demonstrates the current operation of the business
 - Validates/corrects the vision

 Results in consensus among the leadership on direction, objectives and project support



Decisions, Decisions ...

So, What is a Decision?

Decision

- a: the act or process of deciding
- b : a determination arrived at after consideration : CONCLUSION
- : a report of a conclusion

From the Latin for "to decide"

Decide

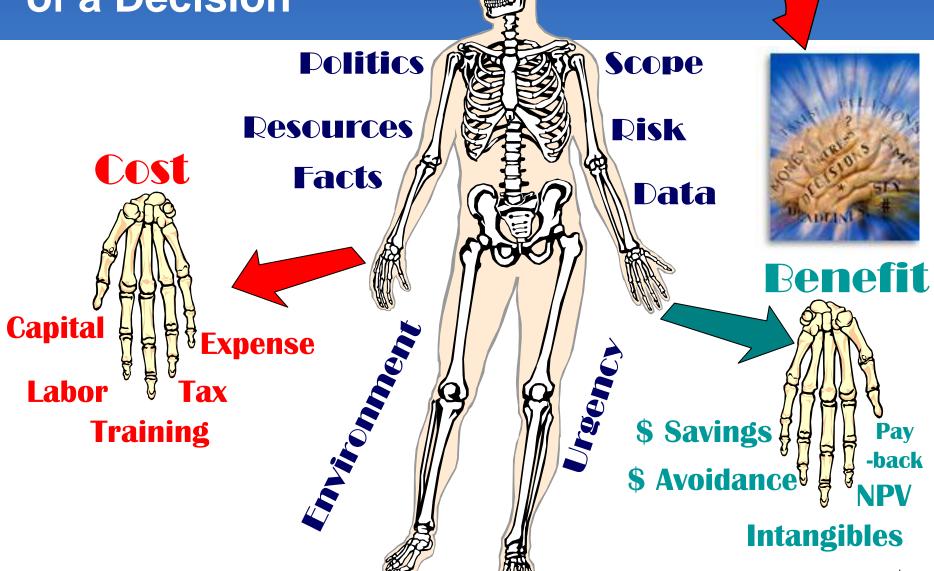


- a : to arrive at a solution that ends uncertainty or dispute about <decide what to do>
- b : to select as a course of action -- used with an infinitive <decided to go>

Source: Merriam-Webster OnLine Dictionary http://www.m-w.com/dictionary

Anatomy of a Decision





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Michael J. Stratton, 10-15-2008, Fully Utilize Your PMO R01.ppt



A Foundational Principle ...

Business Case: Decision Support Tool

Business Case aids leadership

- Defines value of a proposed project
- Shows the life cycle of the project
- Explains options
- Gives recommended course of action

Project Plan enables Business Case development

- Lays out implementation options
- Estimates resource requirements & timing

Enables prioritization scoring

- Facts & Data
- Assumptions

Elicits a decision

- Asks for "Go/No-Go/Wait"
- Funding explained/requested



Business Case Expanded Definition

- A Business Case is a <u>decision support and planning tool that</u> <u>documents</u> the <u>predicted effect of actions under consideration to</u> solve a problem or take advantage of an opportunity.
- A true business case includes financial, strategic and other commercial, industrial or professional outcomes of the change.
- The action under consideration must have more than one option to be considered <u>and</u> the need for a decision to be made from among the options for the business.
- The business case should include a recommendation from among the options.
- Ultimately, it elicits a business decision from those individuals with the responsibility, authority and accountability for the resources to be allocated to achieve the desired outcome.

The Business Case is a Decision Support Tool

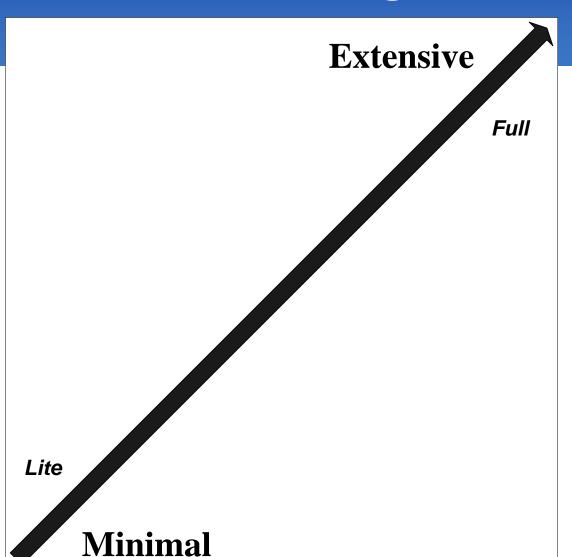
Business Case

Business Case – How Long?



Business Case

-- Confidence in Outcome Quality



Data Collected/Evaluated

Fidelity of Estimates

Business Case Outline



- Executive Summary
- Overview
- Current Situation
- Assessment of Alternatives
- Sensitivity & Risk Analysis
- Contingencies & Dependencies
- Recommendations & Conclusions
- Metrics



{Business Case Name Here}

Business Case Document {Organization Name Here}

(Author's NAME)
The Boeing Company
P.O. Box 3707 MC ____
Seattle, WA 98124-2207
{Author's Email Address}

Business Case Blank Template Version R07.0 May 2, 2004

<DATE>

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Major Headings in Business Case Document



Decision Matrix



{Title of Business Case goes here}								
	-		Options					
Criteria Type	Decision Criteria	Option 1 Business As Usual	Option 2	Option 3				
Must	{List key decision criteria here}	Met	Not Met	Met				
Must	{List key decision criteria here}	Met	Not Met	Met				
Desired	{List key decision criteria here}	Not Met	Not Met	Met				
Desired	{List key decision criteria here}	Medium	Medium	Low				
Desired	{List key decision criteria here}	Low	Medium	Medium				

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Options Comparison



Case

Dollars in X

Business Item	Option 1 Business As Usual	Option 2	Option 3
NPV			
Payback			
IRR			
Capital Requirement			
Total Project Investment			
Probability of Success			
Strategic Alignment			
{List others here. Add lines as needed}			

Metrics Defined by Business Case



Primary Metrics

- The primary metrics for the project are shown in the business case
- Include, at a minimum, a Financial Analysis Payback Graphic
- These metrics are used as a base of comparison to other projects underway and under consideration
- Project-Unique Metrics
- Used at Gate & Project Reviews

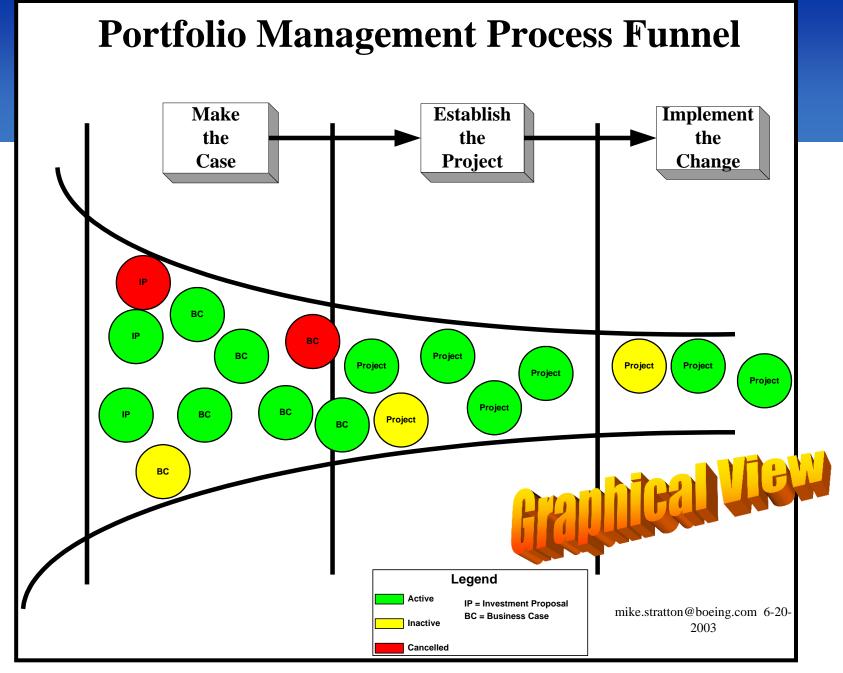
Metrics Aid in Deciding to Continue Funding

Project Proposal Template Example

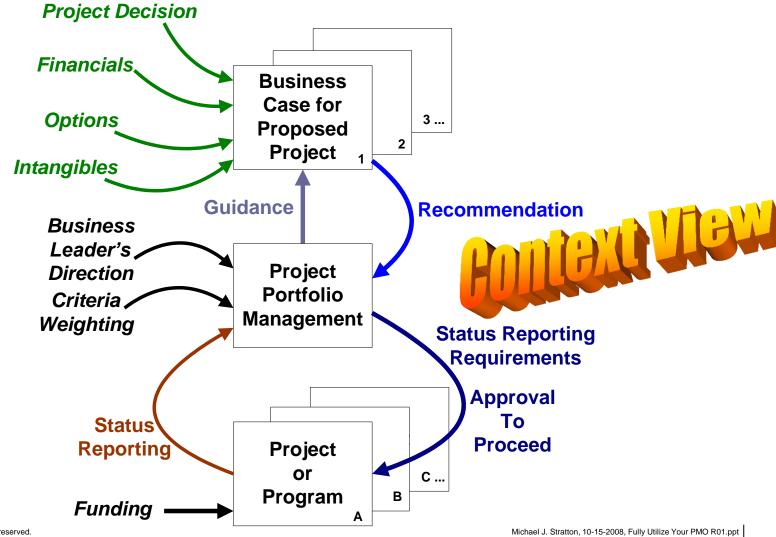
		Projec	t Propo	sal Ter	nplate			
Originating Organization:		User Defined:						
Project Proposal #:		Date:						
Data Focal:								
Title:								
Description:								
Project Attributes:								
Strategy Linkage		1						
Project Type		1						
Committed in Budget		1						
Dependent On Other Project		1	Green	-colored co	ells require i	pout by Or	iginating	
Multiple Organizational Funding		1	Green	-0010104 00			igiriatirig	
Required					Organizatio	n		
IT Applications or Infrastructure		1						
Involved								
Multiple Organizations/Programs								
Involved & Integration Required								
		Investment		Your	Your	Others		
	Capital	Expense	Capital	Investment	Investment	Investment	Others	Investment
	Expenditures -	' '	Expenditures		Cost Avoidance		Investment Cost	
Investments:	Туре	Depr)	K\$'s	Savings K\$'s	K\$'s	Savings K\$'s	Avoidance K\$'s	(In FTE)
Year	Capital Type	Inves	tment		Investme	nt Returns		Staffing
2008	7,							
2009								
2010								
2011								
2012								
2013								
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0



How Does this Project Portfolio Management Process Work?

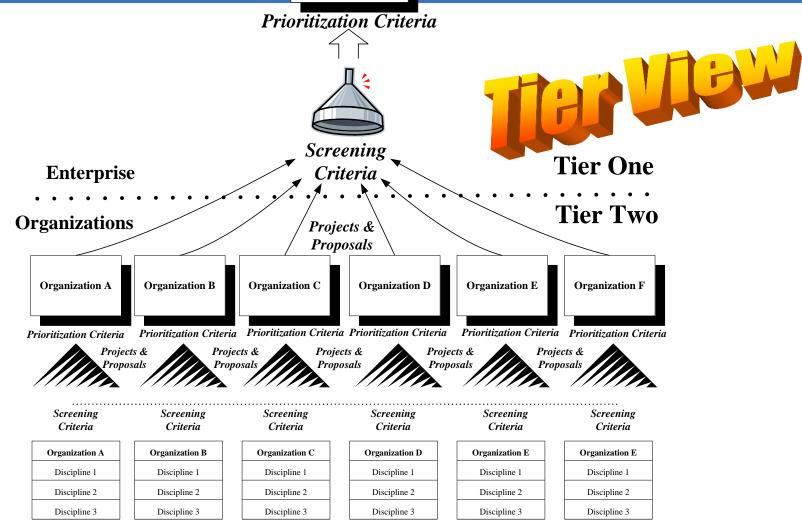


Project Portfolio Management Context View

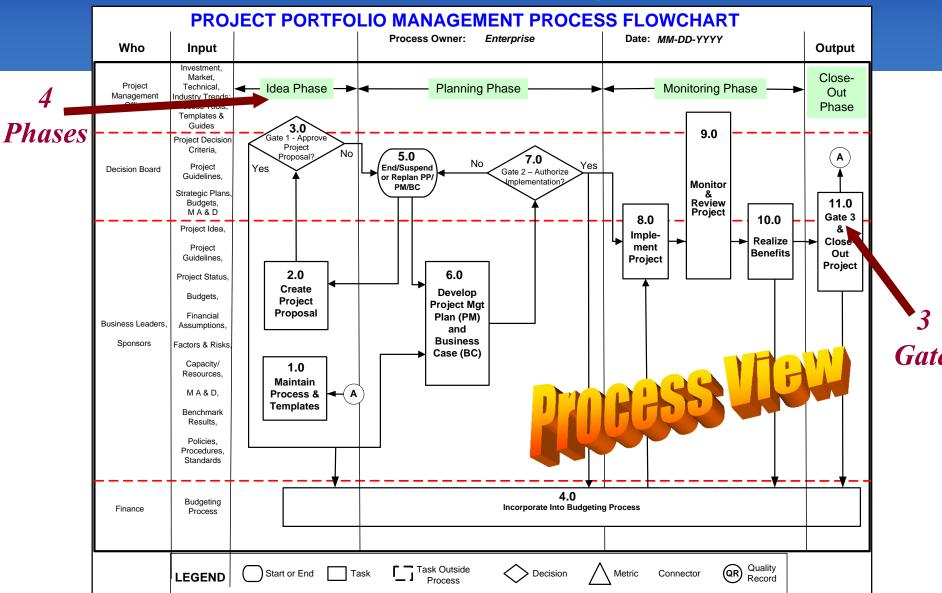


Portfolio Tiering

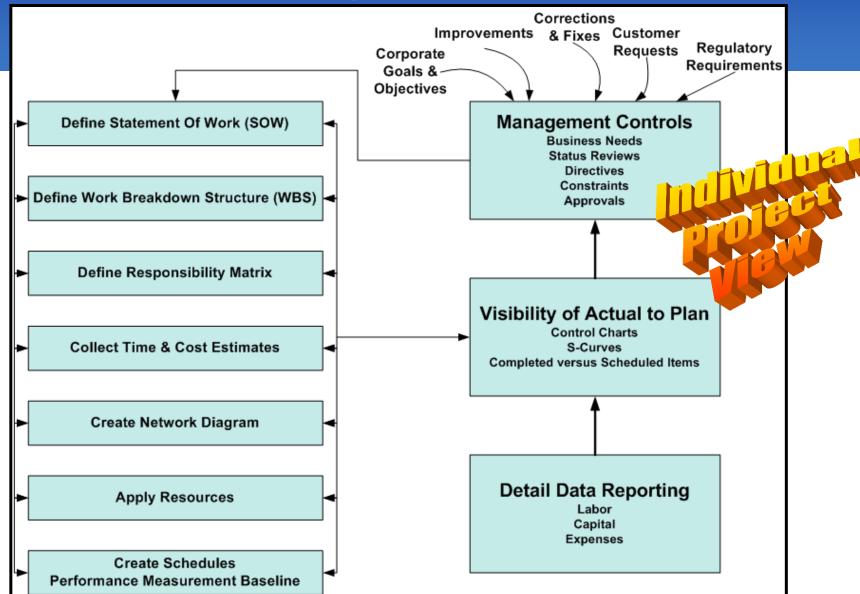
Project Portfolio



Generic Project Portfolio Management Process



Generic Project Management Process





What Drives the Portfolio Management Process?

Criteria Drive the PPM Process

- Screening (Qualification)Criteria Yes/No
 - Key business absolutes
 - Numbers of criteria can vary by company & environmental conditions
 - Example criteria
 - Mandatory
 - Regulatory requirement
 - Company directive
 - Runs counter to strategy "X"
 - Breeches thresholds
 - Cost in excess of "\$Y"
 - Risk is above "Z"

- Prioritization (Evaluation)Criteria -- Weighted
 - Value
 - Cost Savings (NPV, Payback)
 - Cost Avoidance
 - Return In (XX) Months
 - Strategy
 - Corporate
 - Group
 - Business Unit
 - Balance
 - Intangible Benefits
 - Probability of Success
 - Resource Availability

Two Types of Criteria, Two Different Purposes

Business Case Enables Prioritization

Business Case

- Provides data for scoring each criteria used for prioritization
- Lists assumptions
- Details options considered
- Even "mandatory" projects have options
 - Meet requirements with motorcycle?
 - Meet requirements with sport utility vehicle (SUV)?
 - Not just proceed because "we have to do it" planning and analysis needed
- Coupled with project plan enables scenario & option analysis



Why weight prioritization criteria?

- Helps determine project ranking within portfolio
 - Orders projects according to current priorities
 - Allows leadership discretion in final project ranking
- Enables leadership to reorder portfolio of projects dynamically by changing criteria weighting
 - Accommodate changing business conditions
 - Implement shift in strategic direction
 - Execute change in priorities

Weighting Gives Flexibility

Project Portfolio Management Equalizer

Criteria_Grouping

Individual Criteria

Project Portfolio Management Prioritization Criteria for Project Proposals & Business Cases

Criteria	Weighting (1 to 10, L to R)					
Value						
1. Cost Savings						
2. Cost Avoidance	—					
3. Return Rate for 12 Months						
Strategy						
4. Corporate Strategies						
5. Business Unit Strategies						
6. Organizational Strategies						
Balance						
7. Intangible (non-dollar) Benefits						
8. Probability of Success						
9. Resource Availability						
Linkage						
	Value 1. Cost Savings 2. Cost Avoidance 3. Return Rate for 12 Months Strategy 4. Corporate Strategies 5. Business Unit Strategies 6. Organizational Strategies Balance 7. Intangible (non-dollar) Benefits 8. Probability of Success 9. Resource Availability					

Individual Criteria Weighting

Example Weighting Shown

Scoring Projects

- Score each project independently
- Using prioritization criteria
- Document scores on a prioritization scorecard/matrix
- Record reasons for scores as needed
- Numerous acceptable methods for scoring projects
 - Prioritization by total numbers
 - Prioritization with Criteria Group Weighting
 - Prioritization with % Balancing by Criteria Grouping
 - Prioritization with % Weighting by Individual Criteria Only



Prioritization by Total Numbers

#	Criteria	Raw Assessment	Raw Score	Weighting	Weighted Score			
				Totals	293			
	Value							
1	Cost Savings	Medium	5	8	40			
2	Cost Avoidance	Medium	5	5	25			
3	Return in next 12 months	Medium	5	10	50			
	Strategy							
4	Corporate Strategies	Medium	5	5	25			
5	Business Unit Strategies	Medium	5	9	45			
6	Organizational Strategies	Medium	5	4	20			
		Balance						
7	Intangible (non-dollar) Benefits	Medium	5	3	15			
8	Probability of Success	Medium	5	7	35			
9	Resource Availability	Medium	5	8	40			
Li	nkage							

Prioritization with Criteria Group Weighting

#	Criteria	Raw Assessment	Raw Score	Weighting	Weighted Score
				Totals	96.40
	Value				155.00
1	Cost Savings	High	10	8	80
2	Cost Avoidance	Medium	5	5	25
3	Return in next 12 months	Medium	5	10	50
	Strategy			60%	99.00
4	Corporate Strategies	High	10	5	50
5	Business Unit Strategies	Medium	5	9	45
6	Organizational Strategies	Low	1	4	4
	Balance			20%	30.00
7	Intangible (non-dollar) Benefits	Medium	5	3	15
8	Probability of Success	Low	1	7	7
9	Resource Availability	Low	1	8	8
Linkage					

Prioritization with % Balancing by Criteria Group

#	Criteria	Raw Assessment	Raw Score	Weighting	Conversion %	Weighted Score		
				Totals	100%	4.98		
	Value	20%	6.74					
1	Cost Savings	High	10	8	35%	3.48		
2	Cost Avoidance	Medium	5	5	22%	1.09		
3	Return in next 12 months	Medium	5	10	43%	2.17		
	Strates	зу			60%	5.50		
4	Corporate Strategies	High	10	5	28%	2.78		
5	Business Unit Strategies	Medium	5	9	50%	2.50		
6	Organizational Strategies	Low	1	4	22%	0.22		
	Balan	ce			20%	1.67		
7	Intangible (non-dollar) Benefits	Medium	5	3	17%	0.83		
8	Probability of Success	Low	1	7	39%	0.39		
9	Resource Availability	Low	1	8	44%	0.44		
Linkag	Linkage							

Prioritization with % Weighting by Individual Criteria

#	Criteria	Raw Assessment	Raw Score	Weighting	Conversion %	Weighted Score		
				Totals	100.0%	4.81		
Value 2.								
1	Cost Savings	High	10	8	13.6%	1.36		
2	Cost Avoidance	Medium	5	5	8.5%	0.42		
3	Return in next 12 months	Medium	5	10	16.9%	0.85		
	Strategy					1.68		
4	Corporate Strategies	High	10	5	8.5%	0.85		
5	Business Unit Strategies	Medium	5	9	15.3%	0.76		
6	Organizational Strategies	Low	1	4	6.8%	0.07		
	Balance					0.51		
7	Intangible (non-dollar) Benefits	Medium	5	3	5.1%	0.25		
8	Probability of Success	Low	1	7	11.9%	0.12		
9	Resource Availability	Low	1	8	13.6%	0.14		
Linkag	Linkage							

Example Individual Prioritization Criteria Scoring

#	Prioritization Criteria	Scoring Choices	Value	Score Assigned
1	Cost Savings - What is the After-Tax/NPV of the expected savings per year after project completion?			
	1. \$X or more	High	10	
	2. \$Y to \$X-\$1	Medium	5	
	3. \$Negative Value to \$Y-\$1	Low	1	



Scoring the portfolio ... it's different than scoring a project

Classify Each Project

"Must do"

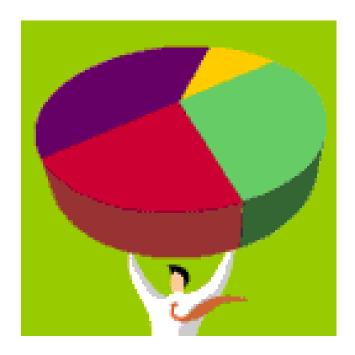
- Strategically essential
- Mandatory to meet
 - Regulatory requirement
 - Company directive

"Need to do"

- Important
 - Meet customer requirement
 - Major improvement in product or cost
- Not mandatory

"Should do"

- If enough resources are available
- Moderate improvement in product or cost (avoidance or savings)
- "Could do" nice if we can get to it



"Rack and Stack" the Projects



- Collect individual project scores by criteria
- Collect project classifications
- Multiple acceptable methods for viewing the scores for projects in priority order by each project's:
 - Total score
 - Score by classification
 - Score by major criteria
 - Contribution to portfolio by criteria, major criteria and overall
 - Advanced technique
 - Implement after portfolio is up and running for a time
- Remember, this is only the starting point ... numbers are just indicators of priority, the <u>final decision</u> is still up to the leaders

Prioritized Project Portfolio Example

Prioritized Project Portfolio														
						Weighting for Evaluation Criteria								
					8	5	10	5	9	4	3	7	8	None
					Evaluation Criteria									
Ranked Projects		Previous Current Total		Value			Strategic Importance			Balance			Linkage	
Proj ect ID	Project Name	Ranking			Cost Savings	Cost Avoidance	Return Rate for 12 Months	Corporate Strategies	Business Unit Strategies	Org. Strategies	Intangible (non- dollar) Benefits	Probability of Success	Resource Availabilit y	No Score
11	Project A	3	1	445	10	10	5	5	10	5	5	5	10	
2	Project B	1	2	383	10	5	5	10	5	5	1	10	5	
8	Project C	2	3	348	5	5	1	10	10	5	1	10	5	
3	Project D	4	4	159	1	1	1	5	5	5	1	5	1	

What about the projects "below" the line?

- Acknowledge the business need
- Make sure that the score is not the only reason for the project being "below" the line
- Explain that the project just cannot be done right now, rather it may:
 - Require adjustments to the project management constraints:
 - Time
 - Money
 - Quality
 - Scope

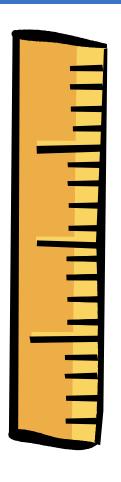


 Be able to be accomplished in another manner (e.g., contractors, outsourcing)



When Should We Do Project Portfolio Management?

Indicators Project Portfolio Management Needed



- Business goals & objectives not being met
- Projects frequently finish late, over-budget, less scope
- Time, money, resources spent on lower-value projects
- Once approved, project's value not re-examined regularly
- "Pet" projects become the norm
- Project relationships go undiscovered
- Projects become resource constrained
- Project approvals are done individually



Duplicate projects exist

Other Indicators

Resources are limited/overtaxed

"Everything" is "top priority"

Budgets have been, or are being, slashed



- Investments, projects, programs and initiatives
 - Need to be treated holistically
 - Including funding and tracking using PPM

Key Best Practice

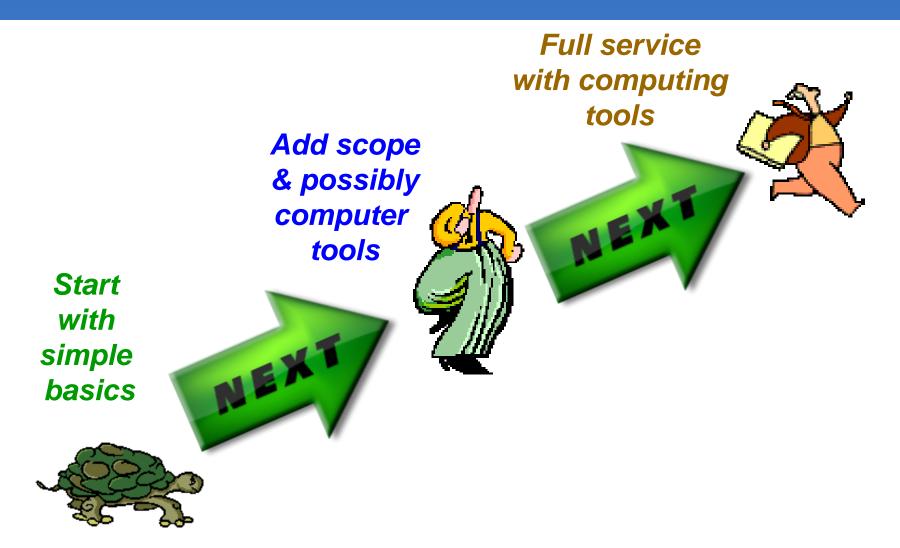
- Investments, projects, programs and initiatives
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How Do We Start Portfolio Management?

Crawl – Walk – Run Implementation



PPM Process Development

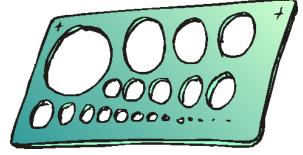
<u>Step</u> <u>Action</u>

- 1. Obtain executive sponsorship for the process development and implementation.
- 2. Form a cross-functional team for development and implementation. (This includes a charter, etc.)
- 3. Develop process requirements.
- 4. Define process steps, inputs, outputs, customers and suppliers. This includes identification or roles, responsibilities and accountability for those involved in the process.
- 5. Document the process. This includes tools, templates, criteria & thresholds.
- 6. Develop implementation plan, including communication.
- 7. Obtain executive approval and participant buy-in for the process.
- 8. Communicate the process. This includes waterfall communication and training. Web sites and portals are helpful for disseminating communication, process documentation, tools and templates.
- 9. Implement the process.

Tools, Templates & Guides

Work to provide simple, fool-proof tools & templates

- These change & mature over time
- Eventually automation may be chosen



Create guides for use of the tools & templates

- Intuitive & built-in
- Build detailed guides for the novice & as reference for others





When and How Do We Review the Portfolio?

Gates plus ...

Implementing a gate process

- Great first step
- Watch out for:
 - Evaluating projects one at a time at a gate
 - Not comparing projects to one another at a gate
 - Ignoring, or not considering resource constraints
- Otherwise may end up with:
 - Sub-optimized portfolio
 - Virtually every project getting a "Yes" vote at each gate
 - Clog in the project pipeline due to over-burdened resources



Steps to maintain an effective portfolio

At gates

- Employ a portfolio review also
- Look at the entire portfolio
- Helps guarantee:
 - The right projects get the "yes" vote
 - Balanced portfolio with regards to:
 - -Risk
 - Project types
 - Objectives
 - Right priorities of projects
 - Efficient and sufficient resources to do the "yes" projects

Perform a thorough portfolio review:

- At least four times per year
- Anytime a new project is added to the portfolio

Decision Factors During Project Reviews

Projects reviewed for performance to:

- Schedule
- Cost
- Technical
- Key Requirements

• Additional considerations:

- Market conditions
- Environmental changes
- Emergent requirements
- Budget/Funding changes
- Customer/Partner feedback



Typical project portfolio prioritization

- All projects initially part of prioritization exercise
 - Just because a project was number one, does not mean it will stay there
 - Conditions change, priorities of projects may need to change also
 - Projects need to "earn" their way onto the priority list
- Place projects into project classifications
 - "Must do"
 - "Need to do"
 - "Should do"
 - "Could do"
- Put "must do" projects at the top of the list
- Under the "must do" projects put those from the other classifications that are:
 - Strategically essential
 - Almost completed and still viable
 - Meeting a key customer commitment
- These two groups of projects are removed from the balance of the exercise
 - Designated as top priority
 - Resources protected
 - Put at the top of the portfolio ranking



Prioritize Balance of Projects

- Use criteria
 - Individual
 - Groupings
- Put projects in scoring order
- Evaluate and validate scoring
- Place projects in final priority





Draw the "line"

- Apply resources to projects, especially:
 - Key resources
 - "Drum" resources



- Check for portfolio balance
 - Determine approximate share of resources going to projects according to pertinent attributes
 - Attribute examples: dollar value, strategic value, market, business area, risk level, driving force behind project
 - Pie charts, bubble diagrams, histograms help in communicating balance
 - Compare resource shares to pre-set thresholds for pertinent attributes
- Reorder projects as needed
- Adjust resources as needed





Wrap-up

Remember

- No process is perfect -- modify as needed
 - ... but only as needed
- Criteria are not perfect modify as needed
 - ... but only as needed
- Without a process project approval and monitoring may be based on a:
 - Gut feeling
 - Politics
 - Shoot-from-the-hip approach
 - Squeaky wheel getting the grease manner
- So ... <u>any</u> project portfolio management process ... will be better than <u>no</u> process at all !!

It's About Balancing ... & ... Conversation







Key PMO Best Practices

- Project Management (PM) Process Micro View
- Project Portfolio Management (PPM) Process Macro & Holistic
 View
- True success is accomplished by People ... PMOs simply
 - Provide technical help <u>to</u> people
 - Work <u>with</u> people and help them to be successful
 - Become the <u>"translators"</u> between projects and management
 - Communicate, communicate, communicate ...
- All projects, programs & initiatives need to do Business Cases
- Clearly define PPM Criteria drives the process & decisions

Conclusion & Lessons Learned

- Project Portfolio Management (PPM) needed in business today when:
 - Resources are limited
 - Projects/work needs to be prioritized
 - Budgets have been, or are being, slashed
 - Investments, projects, programs and initiatives need to be treated holistically, including funding and tracking using PPM
- Implementation is a process, not a "big-bang"
 - Not everything will be "perfect" at first
 - PPM will mature with time & experience
 - Start simple Crawl, Walk, Run
- Decisions are decisions, only the scale changes
- Keep simplifying the process, tools & templates
- PPM applies to profit or cost centers in a company



Thank You!!





BACKUP SLIDES

Project Management Plan

Project Management Plan

 A formal, approved document that defines how the project is executed, monitored and controlled. It may be summary or detailed and may be composed of one or more subsidiary management plans and other planning documents. -- "PMBOK ® Guide"