

# An Empirical Evaluation of Navy METOC Projects Using Project Management Standards



NAVAL  
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## Abstract

Although project managers are in high public-sector demand, the Navy Meteorology and Oceanography (METOC) command studied has yet to adopt a project management requirement. Without project management, mission-essential projects are done in a vacuum; personnel are often unaware of the impacts of specific tasks. Using the PMBOK as a baseline, we recommended designation of a person/position to support the ongoing project cycle, implementation of a hybrid project management office, and foundational project management training for one person in each department.

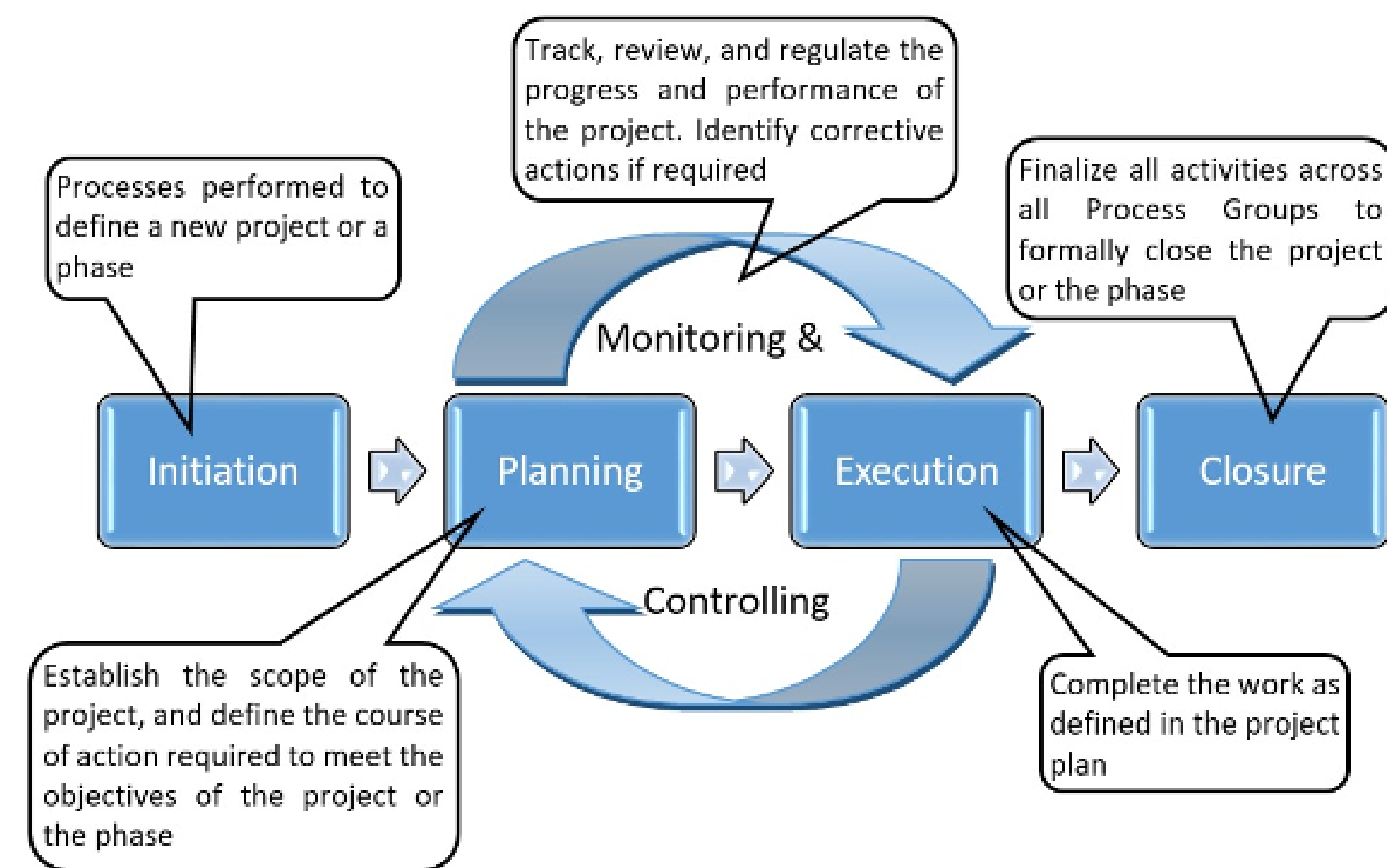


Figure 1. The project process groups. Adapted from Prakash (2017).

## Methods

### Data Collection & Analysis

	INITIATING	PLANNING	EXECUTING	MONITOR/ CONTROL	CLOSING
Used	0%	63%	40%	50%	1%
Not Used	0%	38%	60%	50%	0%

	INITIATING	PLANNING	EXECUTING	MONITOR/ CONTROL	CLOSING
Used	100%	83%	90%	83%	100%
Not Used	0%	17%	10%	17%	

	INITIATING	PLANNING	EXECUTING	MONITOR/ CONTROL	CLOSING
Used	50%	25%	50%	33%	0%
Not Used	50%	75%	50%	67%	0%

### Guidance Used



### Summary of Results

A		INITIATING	PLANNING	EXECUTING	MONITOR/ CONTROL	CLOSING
Used		0%	63%	40%	50%	1%
Not Used		0%	38%	60%	50%	0%
B		INITIATING	PLANNING	EXECUTING	MONITOR/ CONTROL	CLOSING
Used		100%	83%	90%	83%	100%
Not Used		0%	17%	10%	17%	
C		INITIATING	PLANNING	EXECUTING	MONITOR/ CONTROL	CLOSING
Used		50%	25%	50%	33%	0%
Not Used		50%	75%	50%	67%	0%

## Results & Their Impact

My research found that a hybrid PMO could be inserted into a specific Navy METOC command to help centralize program and project management, guidance, and help identify cross-departmental risks.

- A PMO would take time, money, and effort, but it would prove efficient to decrease overall costs, improve work-life balance, impact turnover rates and create awareness for projects across the command.

Schedule Management	Plan Schedule Mgt	Control Schedule		
	Define Activities			
	Sequence Activities			
	Estimate Activity Durations			
Cost Management	Plan Cost Mgt	Control Costs		
	Determine Budget			
	Monitor Budget			
	Manage Budget			
Resource Mgt	Plan Resource Mgt	Acquire Resources	Control Resources	
	Estimate Activity Resources	Develop Team		
	Manage Team			
	Monitor Team			
Communications Mgt	Plan Communications Mgt	Manage Communications	Monitor Communications	
	Implement Communications			
	Monitor Communications			
	Close Communications			

Results of Project A

Scope Management	Requirements	Control Scope		
	Define Scope			
	Validate Scope			
	Monitor Scope			
Schedule Management	Plan Schedule Mgt	Control Schedule		
	Define Activities			
	Sequence Activities			
	Estimate Activity Durations			
Cost Management	Plan Cost Mgt	Control Costs		
	Determine Budget			
	Monitor Budget			
	Manage Budget			
Resource Mgt	Plan Resource Mgt	Acquire Resources	Control Resources	
	Estimate Activity Resources	Develop Team		
	Manage Team			
	Monitor Team			
Communications Mgt	Plan Communications Mgt	Manage Communications	Monitor Communications	
	Implement Communications			
	Monitor Communications			
	Close Communications			

Results of Project B

Scope Management	Collect Requirements	Control Scope		
	Define Scope			
	Validate Scope			
	Monitor Scope			
Schedule Management	Plan Schedule Mgt	Control Schedule		
	Define Activities			
	Sequence Activities			
	Estimate Activity Durations			
Cost Management	Plan Cost Mgt	Control Costs		
	Determine Budget			
	Monitor Budget			
	Manage Budget			
Resource Mgt	Plan Resource Mgt	Acquire Resources	Control Resources	
	Estimate Activity Resources	Develop Team		
	Manage Team			
	Monitor Team			
Communications Mgt	Plan Communications Mgt	Manage Communications	Monitor Communications	
	Implement Communications			
	Monitor Communications			
	Close Communications			

Results of Project C

