CREATING A "SHOULD COST" CULTURE THROUGH OPPORTUNITY MANAGEMENT

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"The institution of "should cost" management and its consistent emphasis over the last 6 years by the acquisition chain-of-command has been a success and should be a permanent feature of the DoD's acquisition <u>culture</u>."

-- 2016 Performance of the Defense Acquisition System Annual Report

<u>Culture</u>: the set of shared attitudes, values, goals, and practices that characterizes an institution or organization (Merriam-Webster)



Connecting to Opportunity Management

- 2017 Department of Defense Risk, Issue, and Opportunity Management Guide for Defense Acquisition Programs
 - Opportunities are potential future benefits to the program's cost, schedule, and/or performance baseline, usually achieved through proactive steps that include allocation of resources.

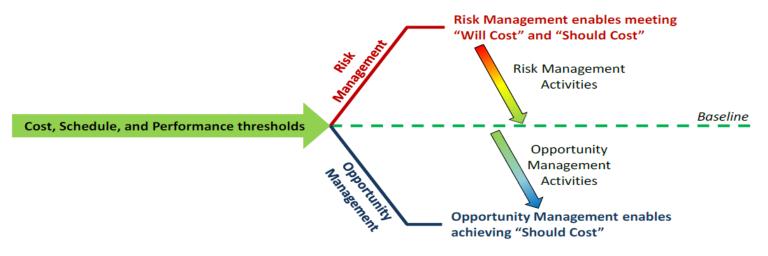


Figure 4-1. Opportunities Help Deliver Should-Cost Objectives

However, the question becomes, are opportunities as well understood and are they being as aggressively pursued and managed as risk and issues?



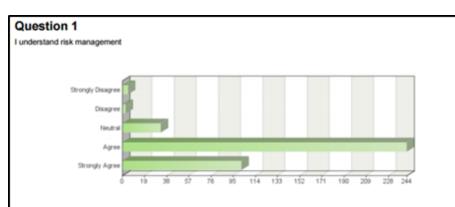
- Department of Defense Risk, Issue, and Opportunity Management Guide for Defense Acquisition Programs
 - Five pages dedicated to OM specifically versus 64 pages for RM
- Acquisition Workforce Education, i.e., Defense Acquisition University
 - One Terminal Learning Objective (TLO) dedicated to OM (ENG 301)
 - 22 TLOs on RM across ENG, PM, PQM
 - Continuous Learning Module for RM; none for OM



Risk and Opportunity Management Survey Results



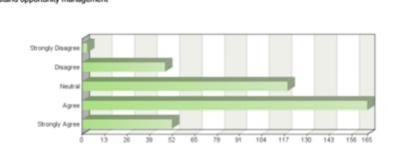
Understanding Risk and Opportunity Management



Frequency table			
Choices		Relative frequency	Adjusted relative frequency
Strongly Disagree	5	1.29%	1.29%
Disagree	3	0.77%	0.78%
Neutral	33	8.51%	8.53%
Agree	244	52.89%	63.05%
Strongly Agree	102	26.29%	26.36%
Sum:	387	99.74%	100%
Not answered:	1	0.26%	•
Total answered: 387			

89.2% of the participants either agreed or strongly agreed that they understood RM 55.9% of the participants either agreed or strongly agreed that they understood OM

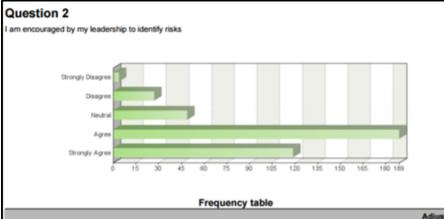




Frequency table			
Choices	Absolute frequency	Relative frequency	Adjusted relative frequency
Strongly Disagree	3	0.77%	0.78%
Disagree	48	12.37%	12.4%
Neutral	119	30.67%	30.75%
Agree	165	42.53%	42.64%
Strongly Agree	52	13.4%	13.44%
Sum:	387	99.74%	100%
Not answered:	1	0.26%	
Total answered: 387			

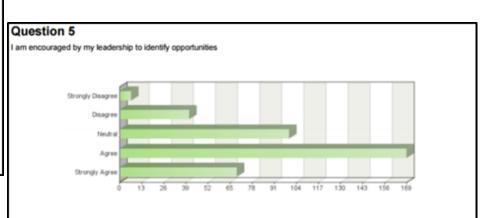


Encouraged by Leadership



Choices	Absolute frequency	Relative frequency	Adjusted relative frequency
Strongly Disagree	4	1.03%	1.03%
Disagree	27	6.96%	6.96%
Neutral	49	12.63%	12.63%
Agree	189	48.71%	48.71%
Strongly Agree	119	30.67%	30.67%
Sum:	388	100%	100%
Not answered:	0	0%	•
Total answered: 388			

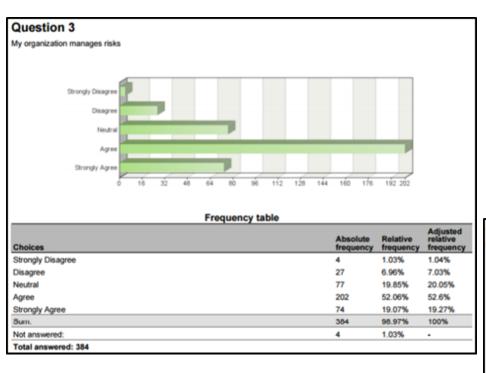
79.4% of the participants either agreed or strongly agreed that leadership encouraged them to identify risks 61.3% of the participants either agreed or strongly agreed that leadership encouraged them to identify opportunities



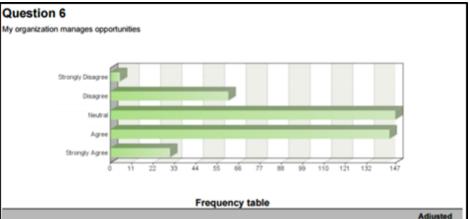
Choices	Absolute Relative frequency frequen	
Strongly Disagree	7 1.8%	1.81%
Disagree	41 10.57%	10.62%
Neutral	100 25.77%	25.91%
Agree	169 43.56%	43.78%
Strongly Agree	69 17.78%	17.1
Sum:	386 99.48%	100. 1
Not answered:	2 0.52%	
Total answered: 386		



Managed by Organization



71.3% of the participants either agreed or strongly agreed that their organization manages risks 45.1% of the participants either agreed or strongly agreed that their organization manages opportunities



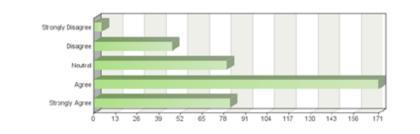
Choices	Absolute frequency	Relative frequency	Adjusted relative frequency
Strongly Disagree	5	1.29%	1.29%
Disagree	61	15.72%	15.72%
Neutral	147	37.89%	37.89%
Agree	144	37.11%	37.11%
Strongly Agree	31	7.99%	7.99%
Sum:	388	100%	100%
Not answered:	0	0%	
Total answered: 388			



Process Improvements for Cost Savings

Question 7

I am encouraged by my leadership to continuously improve my current processes to save money

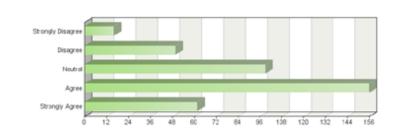


Frequency table		
Choices		Adjusted ative relative uency frequency
Strongly Disagree	5 1.29	
Disagree	47 12.1	1% 12.21%
Neutral	80 20.6	2% 20.78%
Agree	171 44.0	7% 44.42%
Strongly Agree	82 21.1	3% 21.3%
Sum:	385 99.2	3% 100%
Not answered:	3 0.77	% -
Total answered: 385		

65.2% of the participants either agreed or strongly agreed that their leadership encouraged their continuous process improvement 56.2% of the participants either agreed or strongly agreed that their leadership encouraged their business process improvement

Question 9

I am encouraged by my leadership to question current business process requirements when money can be saved



Frequency table

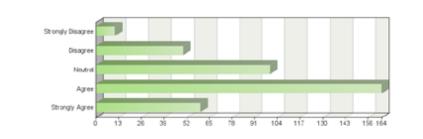
Choices	Absolute frequency	Relative frequency	Adjusted relative frequency
Strongly Disagree	16	4.12%	4.18%
Disagree	50	12.89%	13.05%
Neutral	99	25.52%	25.85%
Agree	156	40.21%	40.73%
Strongly Agree	62	15.98%	16.19%
Sum:	383	98.71%	100%
Not answered:	5	1.29%	-
Total answered: 383			



Requirements Trade-off for Cost Savings

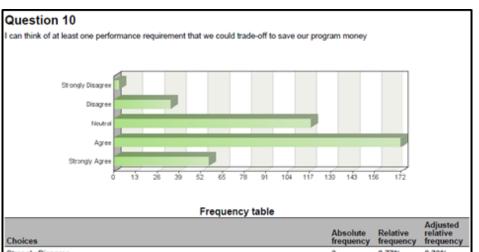


I am encouraged by my leadership to question performance requirements when money can be saved



Frequency table		
Choices	Absolute Relat frequency frequ	
Strongly Disagree	11 2.84%	2.86%
Disagree	50 12.89	% 12.99%
Neutral	100 25.77	% 25.97%
Agree	164 42.27	% 42.6%
Strongly Agree	60 15.46	% 15.58%
Sum:	385 99.23	% 100%
Not answered:	3 0.77%	
Total answered: 385		

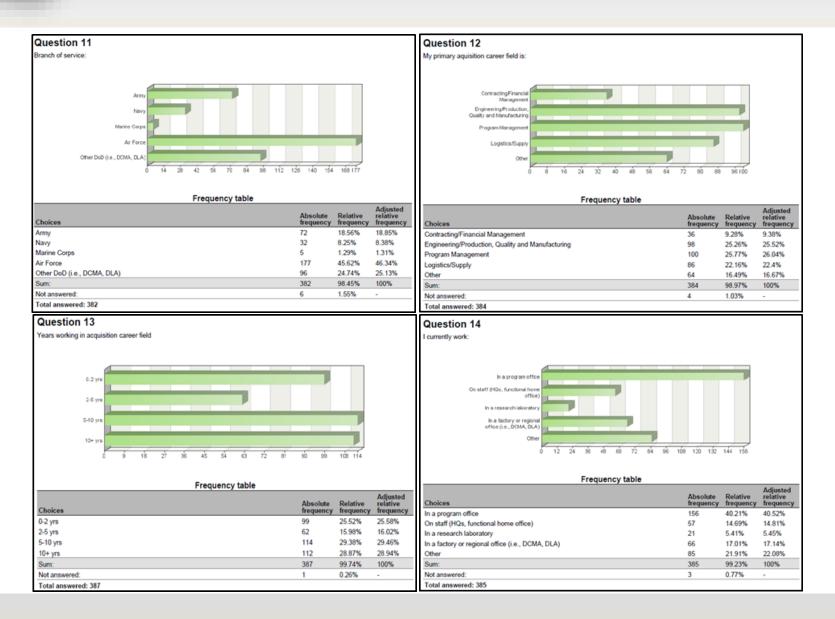
57.7% of the participants either agreed or strongly agreed that their leadership encouraged questioning performance requirements 59.0% of the participants either agreed or strongly agreed that can think of at least one performance requirement that we could trade-off to save our program money



Choices	Absolute frequency	Relative frequency	relative frequency
Strongly Disagree	3	0.77%	0.78%
Disagree	34	8.76%	8.85%
Neutral	118	30.41%	30.73%
Agree	172	44.33%	44.79%
Strongly Agree	57	14.69%	14.84%
Sum:	384	98.97%	100%
Not answered:	4	1.03%	
Total answered: 384			



Demographics





- Address largest gap between participants
- Lack of TLOs addressing OM should be analyzed by Functional IPTs and any adjustments communicated to DAU
- Investigate developing DAU Continuous Learning Module on OM
- Other military higher education organizations, e.g., NPS, AFIT, etc., should analyze their curriculum to determine applicability



- The role of "lean" in developing a "should cost" culture is identified as implementation strategies
 - Carter/Mueller: PMs should "call in the assistance of Lean Six Sigma experts to assess your processes and trim the fat."
 - Van Buren/Morin: "Program managers must begin to drive leanness into their programs by establishing Should-Cost estimates at major milestone decisions."
- Survey results encouraging, but could be improved
- Inculcating continuous process improvement into acquisition workforce is beyond the scope of this research; however:
 - Importance that lean is part of culture rather than program to follow
 - Liker: "most attempts to implement lean ... fairly superficial ... most companies focused too heavily on tools ... without understanding lean as an entire system that must permeate an organization's culture."
 - Womack: "The big danger is that it becomes a 'program' that everyone is doing as a staff exercise but which no one understands and no one believes in ... It inevitably will fail."

Performance Requirements Trade-off (Questions #8 & 10)

- SAF/AQ: "The warfighter can point us to the knee in the curve and say, 'You know what? I'm not willing to pay more for this capability than that capability'"
 - Oriented towards pre-award
 - Risks and opportunities often become more evident as the detailed design progresses
- Use OM methods to outline cost-avoidance/savings opportunities using robust "tradeoff – benefit" statements per practices from RIO Guide's RM section
 - Using RIO Guide for registry development, requirement tradeoff opportunities (RTO) can be documented/tracked using same handling choices for opportunities – pursue now, defer, reevaluate or reject
 - RTO Register could designate RTO; likelihood of warfighter reducing or eliminating requirement; negative impact on performance; and positive impact on producibility, reliability, maintainability and life cycle costs
- This extension of OM process is only possible if OM process enjoys more consistent application as tool for Should Cost



- Leadership incentivize system engineering to emphasize OM in manner similar to RM
 - Opportunity Management Reviews
- Culture change is hard
 - Requires visible signs of OM posters, brochures, published success stories, reward and recognition
- Goal-setting important tool
 - Must ensure doesn't drive unintended behaviors
- Recommend longitudinal study as indicator of cultural inculcation success
- Leadership-driven, persistent OM emphasis will be key



Questions