



December 2011

AFFORDABLE READINESS THROUGH MODEL BASED ENTERPRISE (MBE)





Agenda



- **CG Introduction**
- **CG Definition of Logistics**
- **Vision & Concept of Operations**
- **Scope**
- **Approach**
- **Deliverables**
- **Risks & Discussion**





INTRODUCTION

- One of the 5 Armed Forces
- Only Military Org w/in DHS
- Guardian of our Nations Maritime Interest & Environment around the World since 1790
 - Broad legal authorities
- USCG impact: LOCAL, REGIONAL, NATIONAL & INTERNATIONAL

WORKFORCE TOTALS	
Enlisted	33,200
Officers	8,398
Civilians	8,342
Sub Total	49,940
Reserves	7,997
Sub Total	57,937
Auxiliary	31,419
TOTAL	89,356

AVERAGE COAST GUARD DAY

- Saves 12 Lives
- 64 Search & Rescue Responses
- 842 lbs. of Cocaine kept off the streets
- Services 116 bouys
- Screens 720 commercial Vessels & 183,000 Crew
- Issues 173 credentials to Merchant Mariners
- Investigates 13 Marine Accidents
- Inspects 68 Containers
- Inspects 29 Vessels for air emissions standards Compliance
- Performs 28 Safety & Environmental Exams of Foreign Vessels
- Boards 13 fishing boats ~ fisheries law compliance
- Responds/Investigates 10 pollution incidents

9

DISTRICTS

35

SECTORS

1208

UNITS

195

AIRCRAFT

247

CUTTERS

1784

BOATS



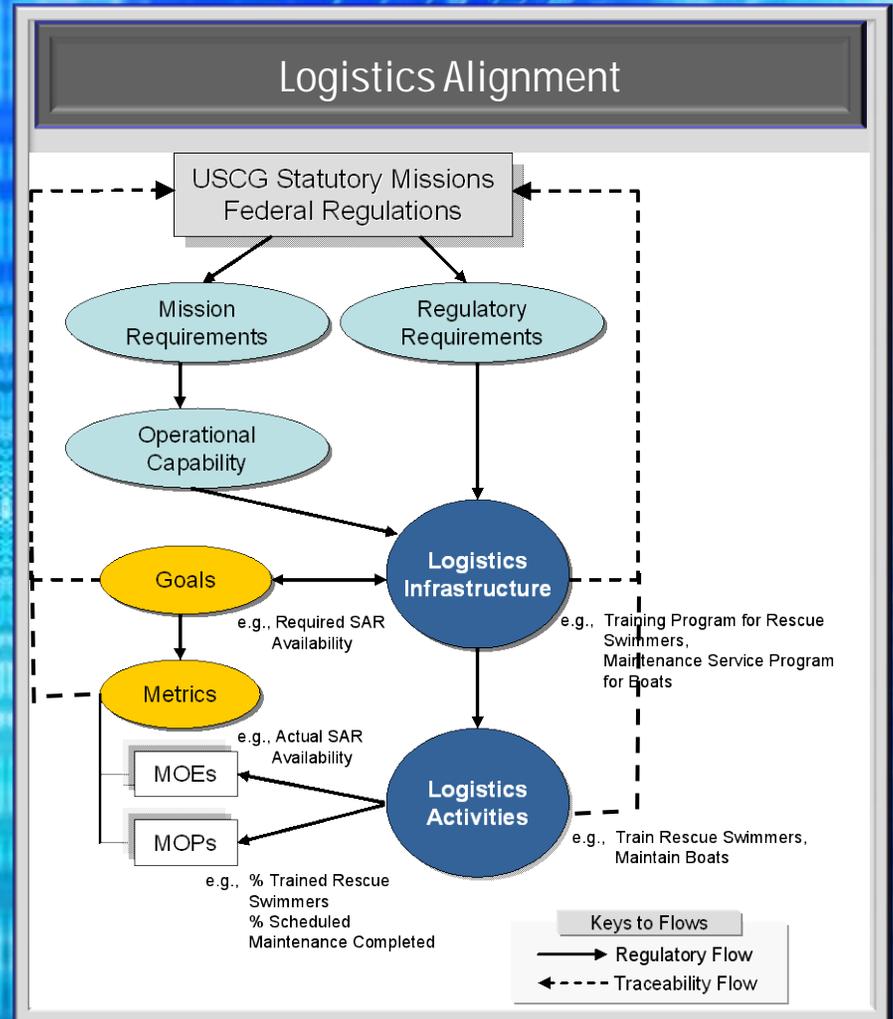


USCG Definition of Logistics



Coast Guard Logistics

- *"all the activities associated with developing, acquiring, sustaining, and eventually retiring the components of capability, including people, systems and information"*
- Logistics performs most Coast Guard activities outside those carried out by:
 - Operations, who perform the USCG's direct missions, and
 - The Commandant and his staff, who provide organizational governance

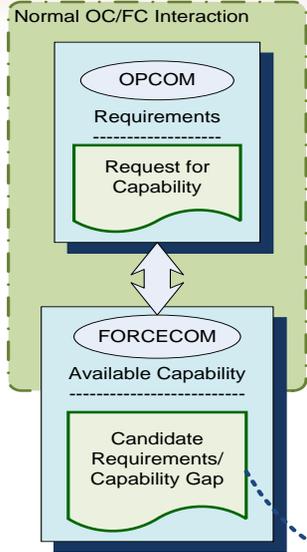




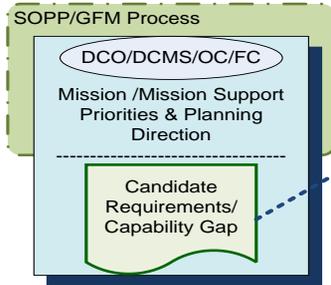
Composite Requirements Management/Capability Analysis Process



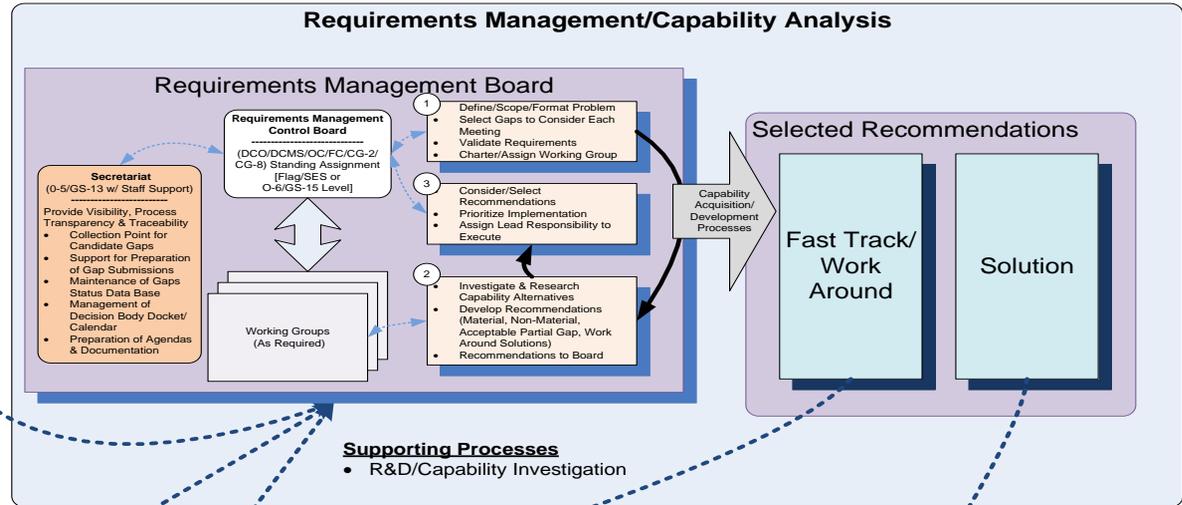
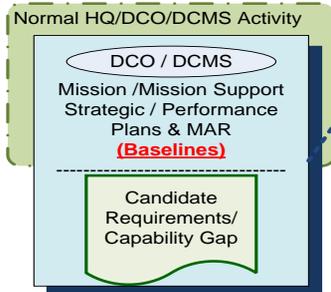
- Request for Forces/Capability
- Resource Allocation
- Platform Scheduling
- Readiness/ Standardization Assessments
- After Action Reports/ Patrol Summaries
- OPARs
- CASREPs/MISHAPS
- Lessons Learned
- Field Unit Requests/Studies
- R&D/Capability Investigation



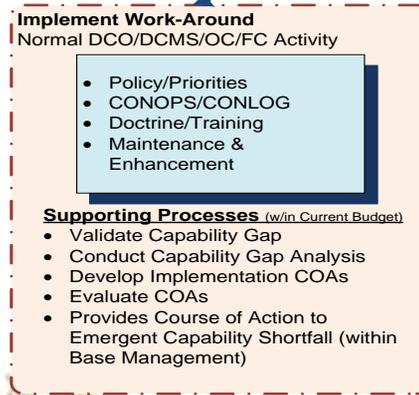
- Commander's Planning Assessment (CPA)
- Strategic Planning Direction (SPD)/Operational Planning Direction (OPD)
- Operational Planning Assessment Reports (OPAR)
- R&D/Capability Investigation



- External Mandates
- QHSR/QDR
- Evergreen
- Strategy
- Mission/ Mission Support Analysis
- Strategic Plans
- Performance Plans
- Policy
- Investment Plans
- Budget Development
- GAO/OMB Reports
- NTSB/MISHAPS
- R&D/Capability Investigation



- Supporting Processes**
- R&D/Capability Investigation

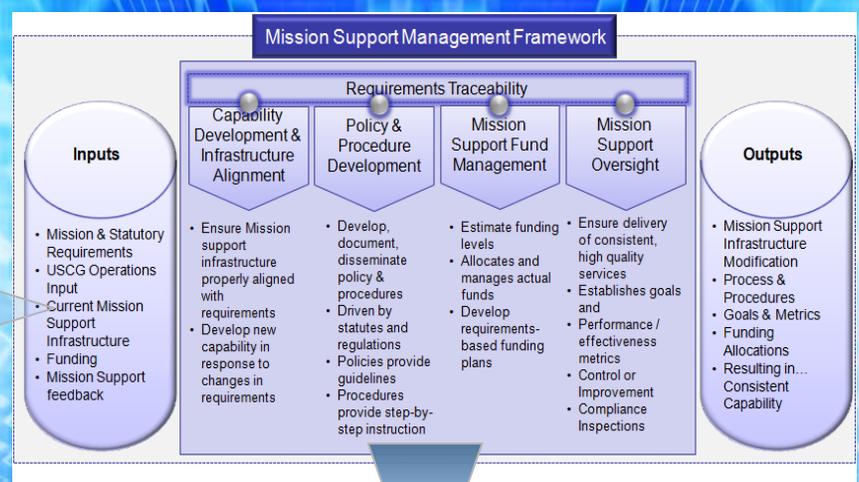




Vision

Program Objectives

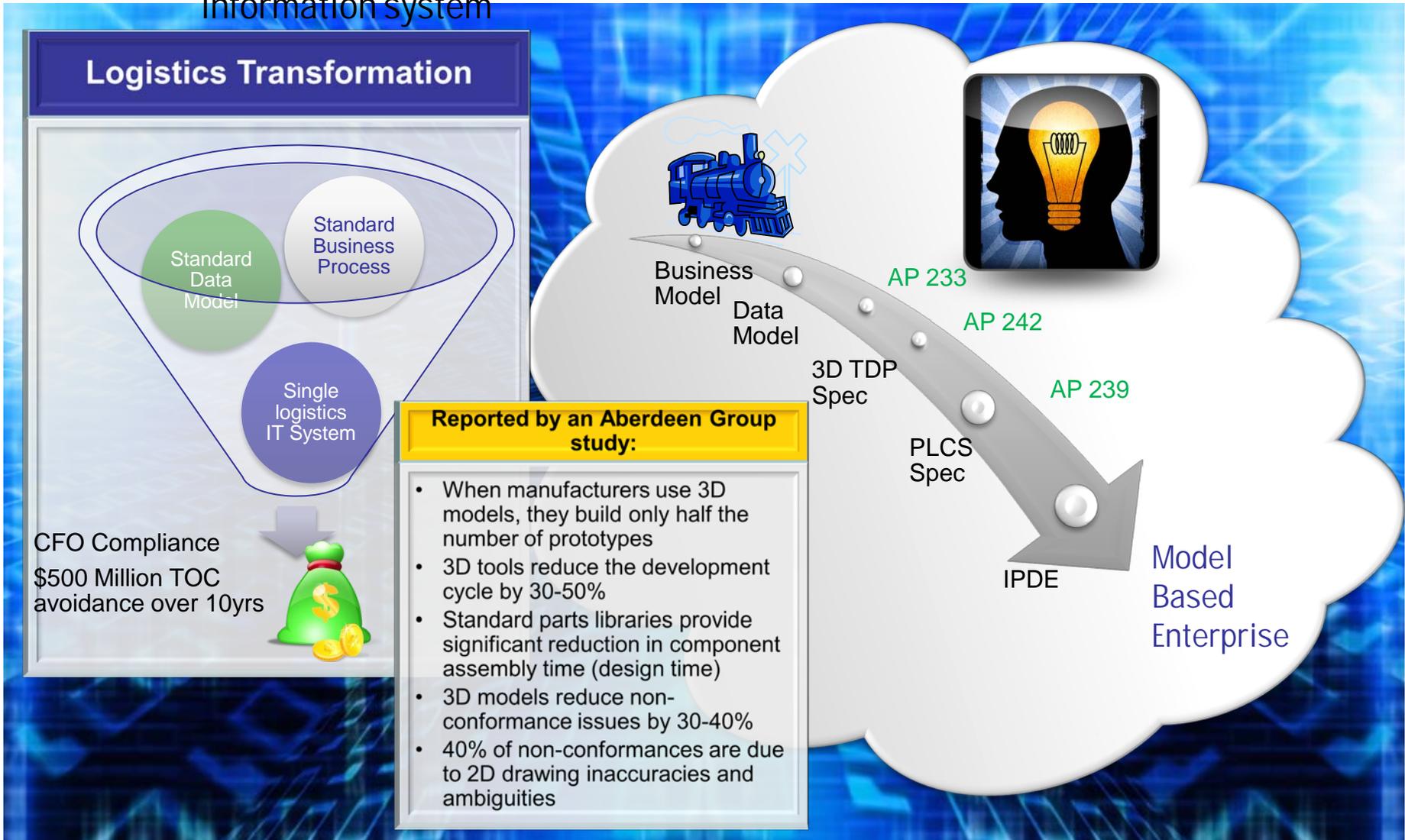
- Affordable Readiness
- Spiral MBE implementation
- Standardize CG processes across domains
- Implement integrated modular architecture
- Implement Configuration Based Business Model for: Air, Naval, Facilities, C4ISR Communities
- Baseline Management **





Vision

Pete – change Single IT to Integrated information system





CONOPS

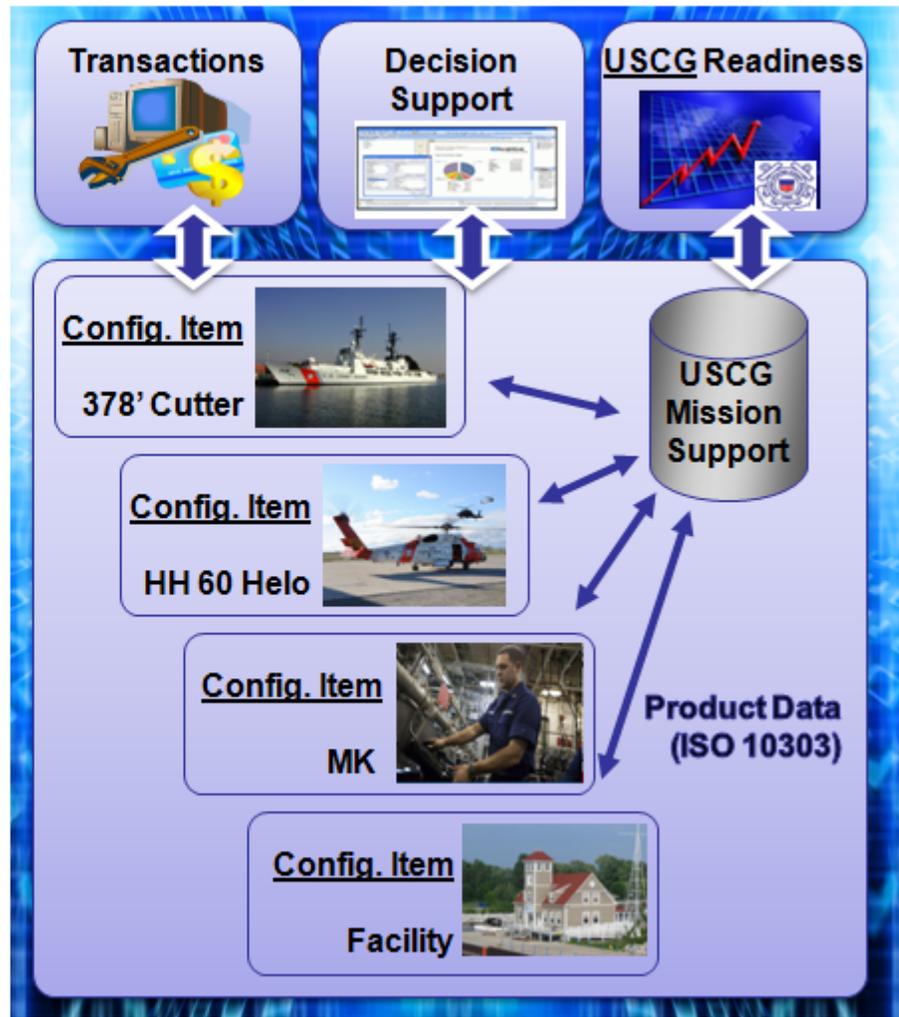


Key Attributes

- Tool Agnostic
- Tech Data Packages (TDP)
- Tech Data reuse through data tagging according to AP239 Schema
- Configuration based business model
- Baseline management (static & dynamic)
- Optimize resource execution
- Compliance through LCI

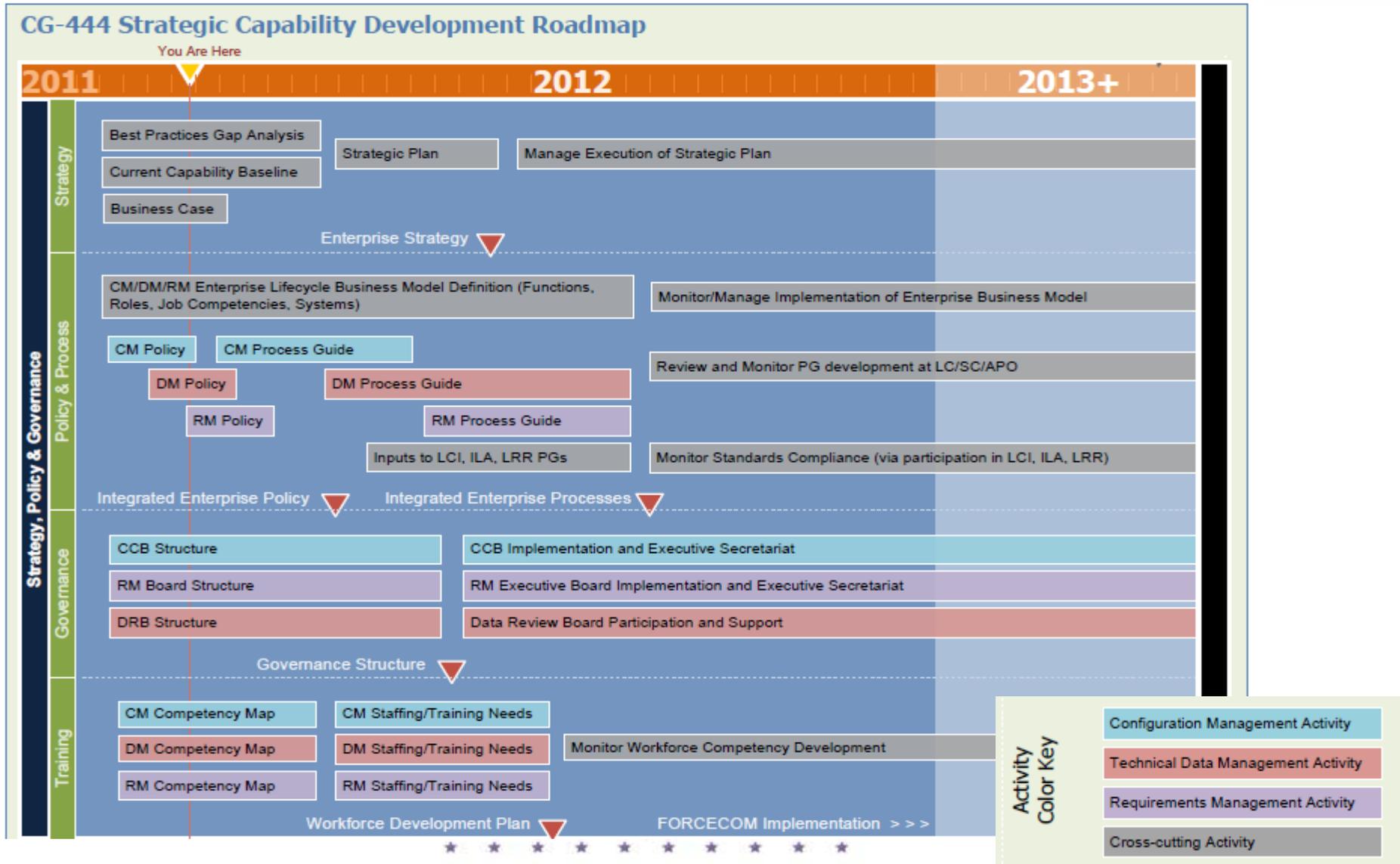
COAST GUARD OPERATIONS

MISSION SUPPORT



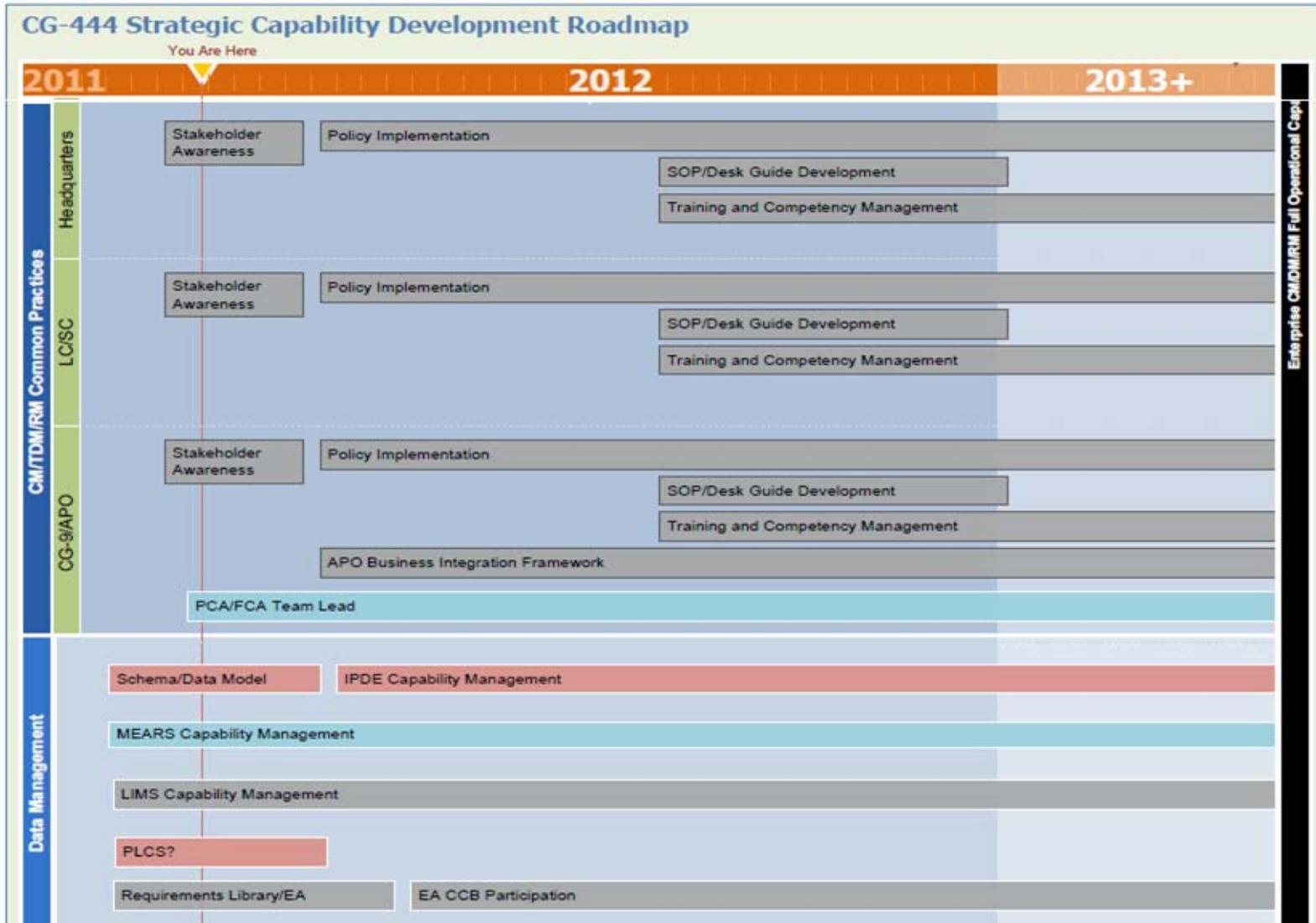


Approach





Approach





Project Plan

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	
1	Develop LOGISTICS DOCTRINE	1 day?	Thu 11/3/11	Thu 11/3/11																		
2	Draft 1st Edition	1 day?	Thu 11/3/11	Thu 11/3/11																		
3	Execute Stakeholder Analysis	1 day?	Thu 11/3/11	Thu 11/3/11																		
4	Complete final Draft	1 day?	Thu 11/3/11	Thu 11/3/11																		
5	Conduct Concurrent Clearance	1 day?	Thu 11/3/11	Thu 11/3/11																		
6	Mitigate Comments	1 day?	Thu 11/3/11	Thu 11/3/11																		
7	Publish	1 day?	Thu 11/3/11	Thu 11/3/11																		
8	Enhance Joint Logistics Parts	1 day?	Thu 11/3/11	Thu 11/3/11																		
9	Manage ILIG officer	1 day?	Thu 11/3/11	Thu 11/3/11																		
10	Policy Interoperability	1 day?	Thu 11/3/11	Thu 11/3/11																		
11	Support DELC	1 day?	Thu 11/3/11	Thu 11/3/11																		
12	Active NLI participant	1 day?	Thu 11/3/11	Thu 11/3/11																		
13	Establish CG-445 as Operational	1 day?	Thu 11/3/11	Thu 11/3/11																		
14	Re-assign LTPIO task	1 day?	Thu 11/3/11	Thu 11/3/11																		
15	HQPM for Operational Log	1 day?	Thu 11/3/11	Thu 11/3/11																		
16	Update 445 Functional Statement	1 day?	Thu 11/3/11	Thu 11/3/11																		
17	Sector Logistics TRNG TA	1 day?	Thu 11/3/11	Thu 11/3/11																		
18	Develop Base PCO/PXO C	1 day?	Thu 11/3/11	Thu 11/3/11																		
19	J4 LCDR swap	1 day?	Thu 11/3/11	Thu 11/3/11																		
20	Review CG Logistics Policy	1 day?	Thu 11/3/11	Thu 11/3/11																		
26	Initiate TECH DATA Policy	1 day?	Thu 11/3/11	Thu 11/3/11																		
27	Research TD requirements	1 day?	Thu 11/3/11	Thu 11/3/11																		
28	Conduct Stakeholder Analysis	1 day?	Thu 11/3/11	Thu 11/3/11																		
29	Benchmark	1 day?	Thu 11/3/11	Thu 11/3/11																		
30	Develop TD CONOPS	1 day?	Thu 11/3/11	Thu 11/3/11																		
31	Draft TD Policy	1 day?	Thu 11/3/11	Thu 11/3/11																		
32	Enhance CM Awareness	1 day?	Thu 11/3/11	Thu 11/3/11																		
33	CM	216 days?	Wed 1/19/11	Wed 11/16/11																		
34	Baseline current Capability	1 day?	Thu 11/3/11	Thu 11/3/11																		
35	Update CM Policy	207 days?	Wed 1/19/11	Thu 11/3/11																		
36	Approve Update	1 day?	Thu 11/3/11	Thu 11/3/11																		
37	Validate requirements	1 day	Wed 1/19/11	Wed 1/19/11																		
38	CM Process Model	1 day	Thu 1/20/11	Thu 1/20/11	37																	
39	Draft new policy language	2 days	Fri 1/21/11	Mon 1/24/11	38																	
40	CMW review	2 days	Tue 1/25/11	Wed 1/26/11	39																	
41	Concurrent Clearance	10 days	Thu 1/27/11	Wed 2/9/11	40																	
42	Comment remediation	3 days	Thu 2/10/11	Mon 2/14/11	41																	
43	Promulgation	2 days	Tue 2/15/11	Wed 2/16/11	42																	

Project: CG44.PRO.11.3.11.mpp
Date: Tue 11/29/11

Task Milestone
 Split Summary
 Progress Project Summary External Tasks
 External Milestone
 Deadline





Deliverables

Deliverable	Status	Expected Completion
Standardized Business Model	80%	Continuous
CM & TD Capacity & Capability Baseline •Processes, Tools, Systems, Training	100%	2014
TD Tailoring Guide • Contract Spec • CDRLs / DIDs	75%	2012
Benchmarking • OGA and <u>Industry</u>	75%	2012
Gap Analysis	75%	2012
Strategy • ISO 10303 Business Case	35%	2012
Step Implementation Planning •Policy, PG, Spec, CDRL, DID, IT Req, Data Migration Protocol	50%	2012
STEP Pilots •DLA 3D TDP survey •NAVSEA Config & Log STEP data exchange	Ongoing	Ongoing
IPDE Requirements	10%	2012





USCG CM/PDM CAPABILITIES & CAPACITIES BASELINE ANALYSIS



- **Methodology: Conduct an independent assessment of existing CM and PDM capabilities (Aviation, Surface, Shore, and C4I Communities)**
 - Assessment covered: Policy, Spec & Standards, Tools & Capabilities, Processes, and Training, Staffing, & Resources
 - Baseline established
- **What's Working :**
 - Configuration Planning and Control
 - MPC/Technical Manual Development, Management, and Distribution
- **Efforts Underway to Resolve Gaps:**
 - Policies and Standards
 - Concise, Actionable, and Enforceable
 - Developing Framework for Product Data Life Cycle Management (PDLCM)
 - Data format/compatibility
 - Data Rights
 - Exchange Capability
 - Tailoring Guidance
 - Tools and Capabilities
 - IPDE CONOPS
 - IPDE Requirement Definition
 - IPDE Interface Control Documents





USCG CM/TDM CAPABILITIES & CAPACITIES BASELINE ANALYSIS



- CG LIMS
- Legacy Data Strategy
- Processes
 - Baseline Management
 - Communication
 - Metrics
 - Process and Data
 - Compliance
- Training, Staffing, and Resources
 - CM Certification Programs
 - CM Core Competencies
 - Competency Alignment within the Organization
 - PDM?
- **Approach**
 - Systems Engineering Approach for Business Model Development & Management
 - Leverage Government and Industry Best Practices
 - Benchmarking Opportunities with Government and Industry





USCG CM/TDM CAPABILITIES & CAPACITIES BASELINE ANALYSIS



- **Our Methodology: Conduct an independent assessment of existing CM and TDM policies, processes, tools, and infrastructure capabilities in the CG Aviation, Surface, Shore, and C4I Communities**
 - Assessment covered 4 major areas: Acquisition Policies and Standards, Tool & Capabilities, Processes, and Training, Staffing, & Resources
 - Baseline established through interviews with CG SMEs
- **What's Working :**
 - Configuration Planning and Control
 - Technical Manual Development, Management, and Distribution
- **Efforts Underway to Resolve Gaps:**
 - Acquisition Policies and Standards
 - Writing CG Policy and Process Guide to be more Concise, Actionable, and Enforceable
 - Developing Framework for Product Data Life Cycle Management (LCM)
 - Data format/compatibility
 - Data Rights
 - Exchange Capability
 - Tailoring Guidance
 - Tools and Capabilities
 - IT LCM Infrastructure CONOPS
 - IPDE Requirement





USCG CM/TDM CAPABILITIES & CAPACITIES BASELINE ANALYSIS



- CG LIMS
- Legacy Data Strategy
- Processes
 - Baseline Management
 - Communication
 - Metrics
 - Process and Data
 - Compliance
- Training, Staffing, and Resources
 - CM Certification Programs
 - CM Core Competencies
 - Competency Alignment within the Organization
 - TDM?
- **Approach**
 - Taking a Systems Engineering Approach for Management of Enterprise Capability
 - Leveraging Government and Industry Best Practices
 - Discussing Benchmarking Opportunities with Government and Industry
 - CG more aligned to Industry with regard to our desires to execute Configuration and Technical Data Management





Risks

- **No comprehensive STEP pilot**
 - No Proven Spec
- **Limited STEP expertise**
- **Competing Standards**
- **Organic Ability to Sustain**
- **Process Independence**
- **Data Schema Interface Control**
- **Revisions to APs make end-state a moving target**
- **Funding constraints**
- **Complexity and coordination of efforts government wide**

CG-LIMS
CDMD-OA VLS
TMAPS MEARS
CMIS TDMIS
NE-TIMS ALMIS
Powerlog-J DOORS

DEDMWG Acquisition Workforce (AWF) WG MIL-STD 973 EIA 649
CG Requirements Management WG Lifecycle Logistics WG PDRD CG CM WG GEIA-STD-0007
MIL-STD 31000 RACER / NSERC CG TDM WG CG SDLC WG RRPB



Questions / Comments

