



Naval VAMOSC Overview

Department of the Navy Cost Analysis Symposium

08 Sep 2011



Naval Center for Cost Analysis



Visibility and Management of Operating & Support Costs (VAMOSOC)



- **Web-enabled** management information system that collects and reports historical **Navy and USMC Operating and Support_(O&S) costs** on an **annual** basis
 - \$96+B annual weapon system specific costs including DON Pers
 - ~ 140 financial and non-financial data sources
 - ~ 1200 *O&S* cost and non-cost elements
 - Weapons systems *direct* and *linked indirect* costs
 - Costs in Then Year and Constant Year dollars
- Data presented in alternative hierarchical formats
 - VAMOSOC cost element structure
 - OSD CAIG cost element structure



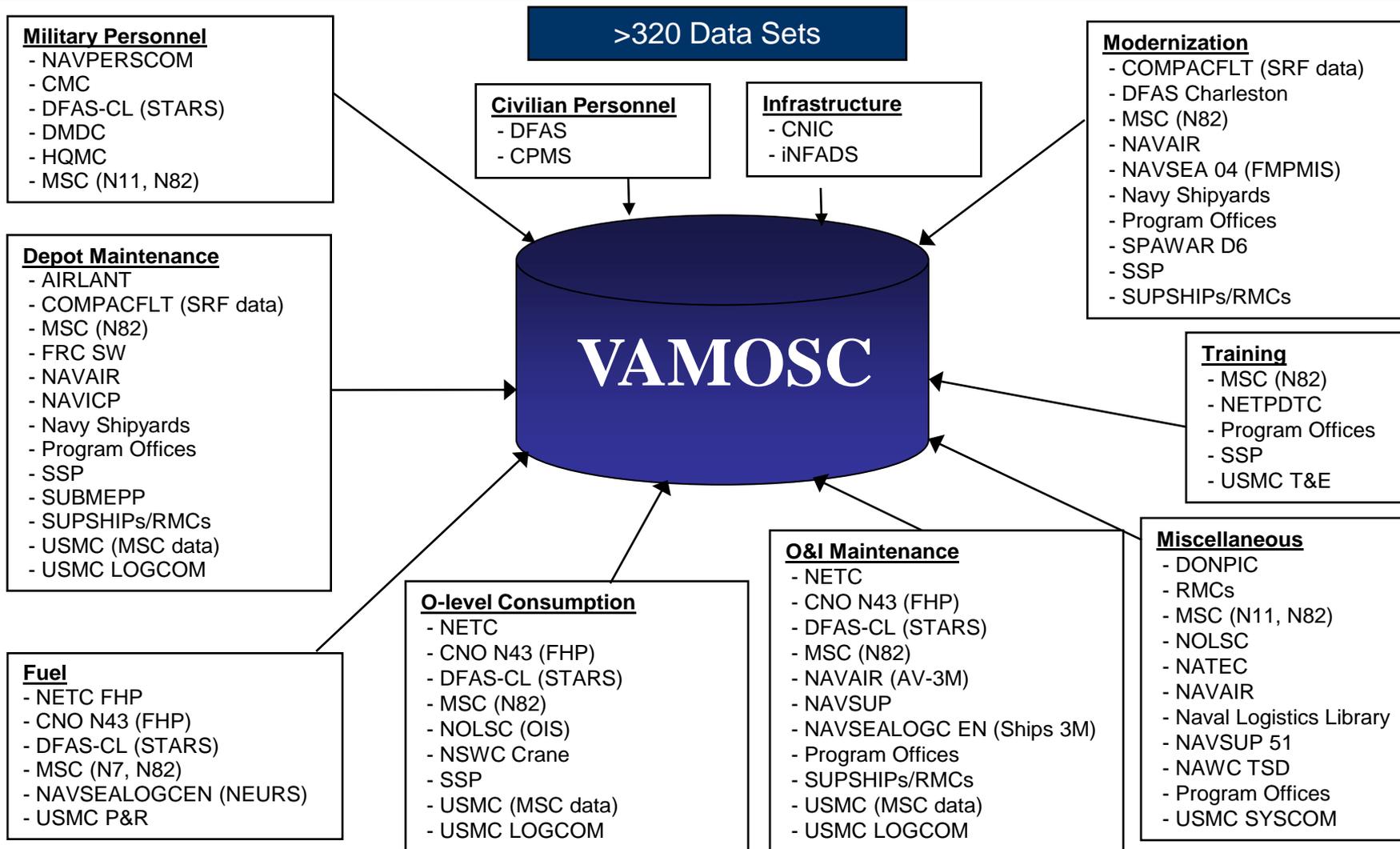
History of Naval VAMOSC



- ❑ **1975** Deputy Secretary of Defense directed Services to collect actual weapon system O&S costs
- ❑ **1976** CNO initiated Navy and Marine aircraft data system managed by Naval Air Systems Command
- ❑ **1984** DoD established VAMOSC program and steering group
- ❑ **1988** Senate Appropriations Committee directed Services to develop VAMOSC capability
- ❑ **1992** Management of Naval VAMOSC assigned to NCCA, and OSD CAIG identified to provide executive oversight
- ❑ **1997** Naval VAMOSC moved to electronic database environment
- ❑ **2002** Major Naval VAMOSC re-engineering completed, significant enhancements and improvements delivered
- ❑ **2003** Military Personnel database released
- ❑ **2008/09** Infrastructure, Ships Depot, CIVPERS databases and updated manpower model released

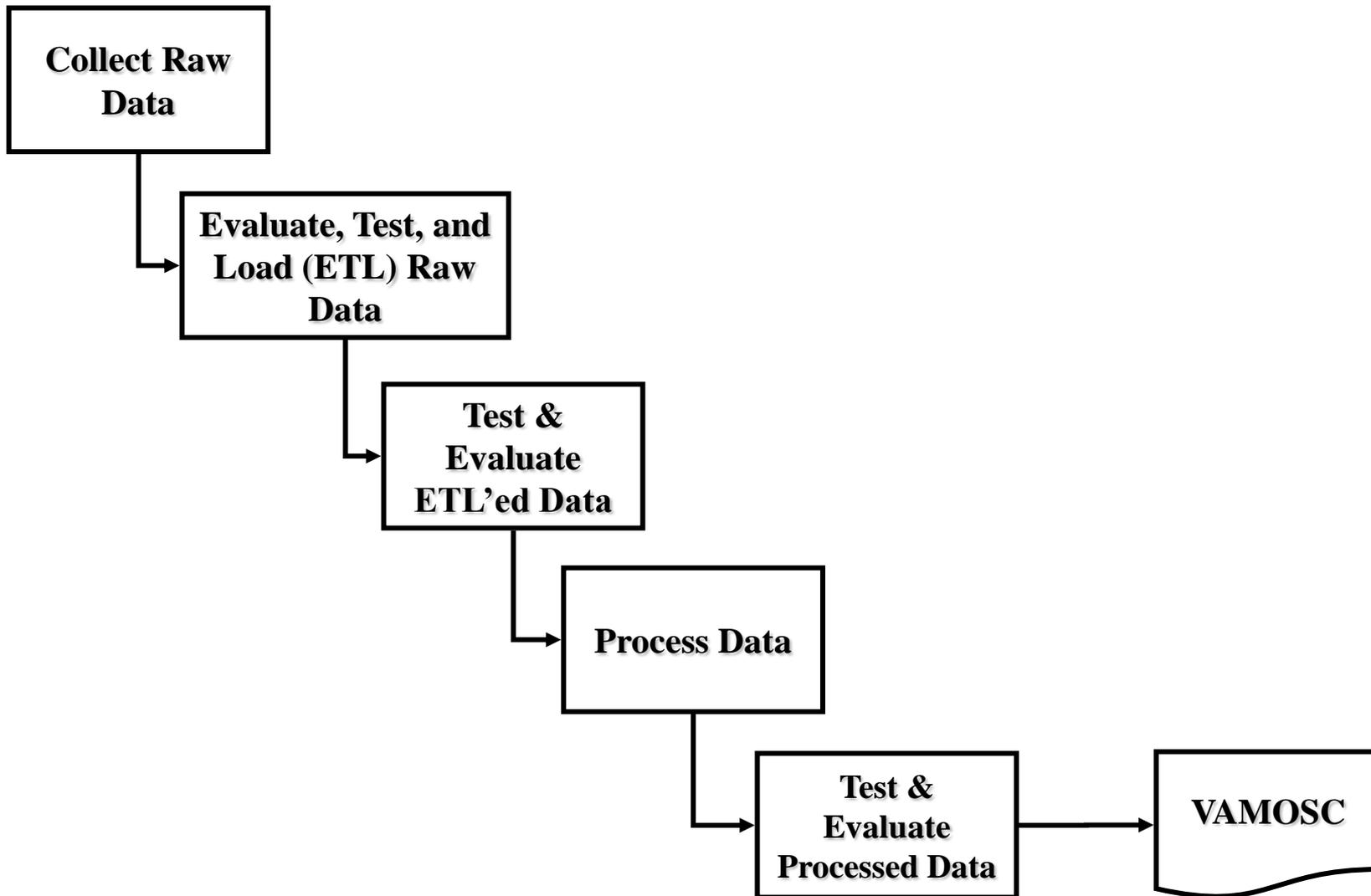


Naval VAMOSC Data Sources





VAMOSOC Process Flow





Naval VAMOSOC Users



- Cost communities
 - Analysis of current systems
 - SYSCOMs, Other Services
 - Estimates for emerging systems
 - NCCA, SYSCOMs, OSD Cost Assessment and Program Evaluation (CAPE)
- Navy maintenance, readiness, logistics communities
 - SYSCOMs (Program Offices, Naval Warfare Centers)
 - Naval Aviation & Surface Warfare Enterprises
 - OPNAV, Fleet staffs
- Cost research
 - NPS Monterey
 - Other government offices
 - Congressional Budget Office
 - Government Accountability Office

Approx 800 current registered VAMOSOC users plus 100's of ad hoc users



Obtaining Data



Corporate Documents

Business Objects Welcome: careyr

My InfoView | Search title

Document	Title	Last Run	Type	Owner	Instances
<input type="checkbox"/>	1-to-1 TAM-to-NSN Mapping for Additional 176 TAMS.xls Properties	Never run	Microsoft Excel	admin	0
<input type="checkbox"/>	1-to-1 TAM-to-NSN Mapping for Original 167 TAMS.xls Properties	Never run	Microsoft Excel	admin	0
<input type="checkbox"/>	10 Least Popular Documents (M) Modify History Properties Top 10 & Bottom 10	Never run	Web Intelligence Document	MainSupervisor	0
<input type="checkbox"/>	10 Least Popular Documents (W) Modify History Properties Top 10 & Bottom 10	Never run	Web Intelligence Document	MainSupervisor	0
<input type="checkbox"/>	A-6_Aviation_Almanac Properties	Never run	Adobe Acrobat	admin	0
<input type="checkbox"/>	Actions per Job Modify History Properties Job Information	Never run	Web Intelligence Document	MainSupervisor	0
<input type="checkbox"/>	Aliased Tables Modify History Properties Impact Analysis	Never run	Web Intelligence Document	MainSupervisor	0
<input type="checkbox"/>	ATMSR TM Query(FY97-Present, Constant FY07\$) Modify Schedule History Properties	Never run	Web Intelligence Document	admin	0
<input type="checkbox"/>	ATMSR TM Query(FY97-Present, Constant FY08\$) Modify Schedule History Properties	Never run	Web Intelligence Document	admin	0
<input type="checkbox"/>	ATMSR TM Query(FY97-Present, Constant FY09\$) Modify Schedule History Properties	Never run	Web Intelligence Document	admin	0
<input type="checkbox"/>	ATMSR TM Query(FY97-Present, Then Year\$) Modify Schedule History Properties	Never run	Web Intelligence Document	admin	0
<input type="checkbox"/>	ATMSR TMS Non-Cost Metrics Only (FY97-Present) Modify Schedule History Properties	Never run	Web Intelligence Document	admin	0
<input type="checkbox"/>	ATMSR TMS Query(CAIG Format, FY97-Present, Constant FY07\$)	Never run	Web Intelligence Document	admin	0



Obtaining Data



Custom Queries

The screenshot displays the Business Objects software interface. The main window shows a tree view of data objects under the 'Ships' folder, including 'Individual Ship' and various 'Element' and 'Desc' objects. The 'Query Filters' section is visible, showing filters for 'Fiscal Year' (set to 2007) and 'Hull Number' (set to 'Type a constant'). A 'List of Values' dialog box is open, allowing the user to select hull numbers from a list. The list includes hull numbers from DDG-0044 to DDG-0063. The 'Value(s) Selected' field is currently empty, showing '[No value]'. The 'List of Values' dialog box has a search bar and buttons for 'OK', 'Cancel', and 'Help'.



User Support Documentation



- BusinessObjects Quick Reference Guide
- CAC/PKI FAQ
- CAC User Guide
- User Manuals
 - Updates and improvements
 - Definition of cost & data elements
 - Usage tips - obtaining data
 - Appendices
 - Acronyms, escalation indices, data flow diagrams, valid values
- Anomalies Documents
 - Changes in data sources, structures
 - Abnormally high or low values
 - Data provider explanations
- Deficiencies Documents
 - Lists specifics on missing or incomplete data
- On-line training videos
 - General “how-to” and database-specific videos





Naval VAMOSOC Components



Aviation

FY86-10 (A/C Level Report)
FY96-10 (O&I Level Maint.)



Navy Infrastructure

FY06-10
CNIC Certified Obligations
NAVFAC Property Records



Ships

FY84-10 (Ships)
FY93-10 (Depot & Ship Systems)
FY93-10 (MSC)



USMC Ground Systems

FY1995 - 2010
474 Ground Combat Systems



Weapons

FY1990 - 2010
17 Air-Launched Missiles
10 Surface-Launched Missiles
6 Torpedoes



Military & Civilian Personnel

FY02-10 DON Military
FY04-10 DON Civilians





Recent Enhancements and Improvements



- Quarterly Updates
 - Refresh data that's easily retrieved
 - Add source data not previously available
 - Take advantage of gains in data / business processes
- Annual Updates
 - Fourteen databases updated annually
 - Third consecutive early release



Recent Enhancements and Improvements (Cont.)



MILPERS

- Fixed data deficiencies:
 - FY02-09 bonus data
 - FY04 Reserve Component Incentive Program Pay
 - FY07/08 Active Duty Separation Pay (USMC/Navy)
 - FY02/07 PCS data (USMC/Navy)
 - FY03-10 Marine PCS allocation rate differentiated between officers and enlisted
 - FICA recalculated to be based on Base Pay only
- Updated UIC descriptions with supplemental data source
- Added 'RUC Description', 'RUC/MCC Code' and 'RUC/MCC Description' elements to USMC subfolders
- MILPERS and CIVPERS - developed a standardized Data Element "Count Who Received Dollars" as a way to count numbers if individuals receiving base pay

CIVPERS

- Added capability to query in constant year dollars and by descriptions of 'Major Occupation Group Code-Functional Occupation Group Code', 'DoD Occupation Group Code', and 'Occupation Code'



Recent Enhancements and Improvements (Cont.)



Aviation

- Added Flying Hours folder to NAMSR
- Added Aircraft Category and PEO as data measures to improve query capabilities
- Added FY02-09 Personnel counts
- Fixed data deficiencies:
 - FY10 non-personnel costs due to aircraft inventory updates
 - FY03-09 FHP fuel consumption factors
 - FY00-09 FHP costs for C-130T, previously misreported as TC-130G
 - FY03-09 Operational Training costs to better map certain devices to the appropriate aircraft TMS
 - FY04- 07 Modification Kits and Installation Costs to capture previous years' obligations



Recent Enhancements and Improvements (Cont.)



Ships

- Added new element L.0: Days - Steaming Underway
- Added new element M.0: Ship Age to the Class Averages Folder
- Updated FY02-09 Ships O and I level maintenance costs
- Added FY02-09 Ships O and I level maintenance dimension elements to Detailed Ships
- (MSC) Added the breakout of material and labor costs for Intermediate Level maintenance for FY96-09
- Fixed data deficiencies:
 - FY09-10 Program Office data for submarine EW systems
 - FY10 FMP Other data for ships



Recent Enhancements and Improvements (Cont.)



Infrastructure

- Updated iNFADS with USMC facilities data and 'Maintenance Responsible UIC' for 30 Sept 2006
- Added Plant Replacement Value (PRV) at the Utilization level in iNFADS
- Added "Other Unit of Measure" (3rd measure to supplement 'AREA' and 'ALTERNATE') in iNFADS
- Included new element derived from NAVFAC P72:
 - DoD Facility Analysis Category Codes and Descriptions for each Facility's Prime Use Category

USMC Ground Equipment

- Added 70 new systems
- Consolidated folders to query by RAC for Parts and Labor
- Added parts nomenclature to NSNs and added ERO counts to O and I maintenance
- Realigned ammunition process to capture data otherwise lost due to TAMCN/DODIC mapping
- Removed Fuel and OPTEMPO data