
Technomics Inc. Operating & Support Cost Analysis Capabilities

Prepared for:
ASN (RD&A) – ARO Program Assists Visits Team
1 March 2002

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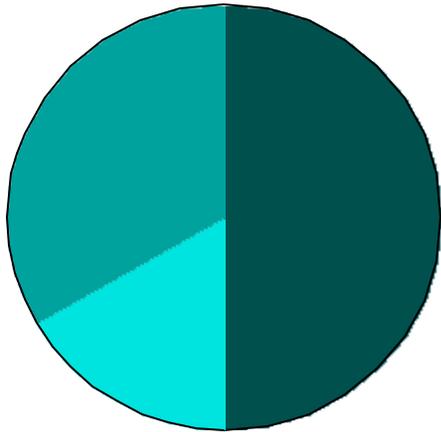
Agenda

- Company Overview
- O&S Cost Estimating Experience
- O&S Cost Research Experience
- O&S Tools Experience
- Why Technomics?

Corporate Overview

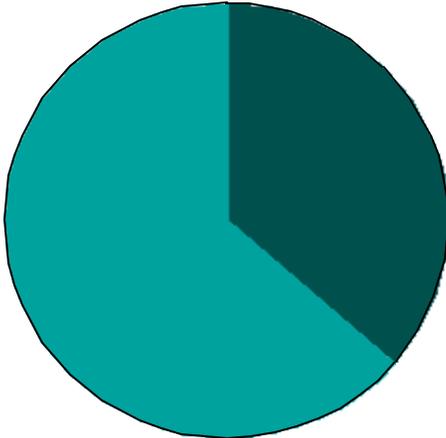
- Small business specializing in weapon system cost analysis since 1988
 - Employee-owned
 - Two offices
 - Santa Barbara, CA: corporate HQ
 - Arlington, VA
 - » Established in June 2000
 - » With one exception, staff is composed of former DON cost analysts from NCCA, NAVSEA & NAVAIR
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Staff Overview



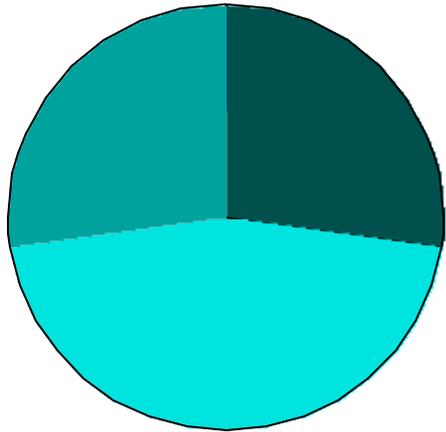
Field of Study

- Engineering & Physical Science
- Business, Accounting & Finance
- Math, Ops Research, Statistics, Economics, & Comp Science



Degree

- Bachelor's
- Master's



Experience

- Less than 5 years
- 10 to 20 years
- More than 20 years

Multi-disciplined staff specializing in cost analysis

Customer Overview

Department of Defense

- OSD (*Program Analysis & Evaluation*)
- Ballistic Missile Defense Organization
- Defense Systems Management College

U.S. Air Force

- Electronics Systems Center
- Aeronautical Systems Center
- Space & Missile Systems Center

U.S. Navy

- Naval Surface Warfare Center/Dahlgren
- Naval Surface Warfare Center/Carderock
- Naval Surface Warfare Center/Crane
- *Naval Sea Systems Command*
- Naval Air Systems Command
- Naval Air Warfare Center
- *Naval Center for Cost Analysis*

Industry / Other

- Boeing Aerospace
- Hughes Aircraft
- IDA
- Rockwell International
- Aerospace Corporation
- Triad Technologies
- Xontech

U.S. Coast Guard

- *Deepwater Project Office*

NASA

- HQ
- Jet Propulsion Laboratory

U.S. Marine Corps

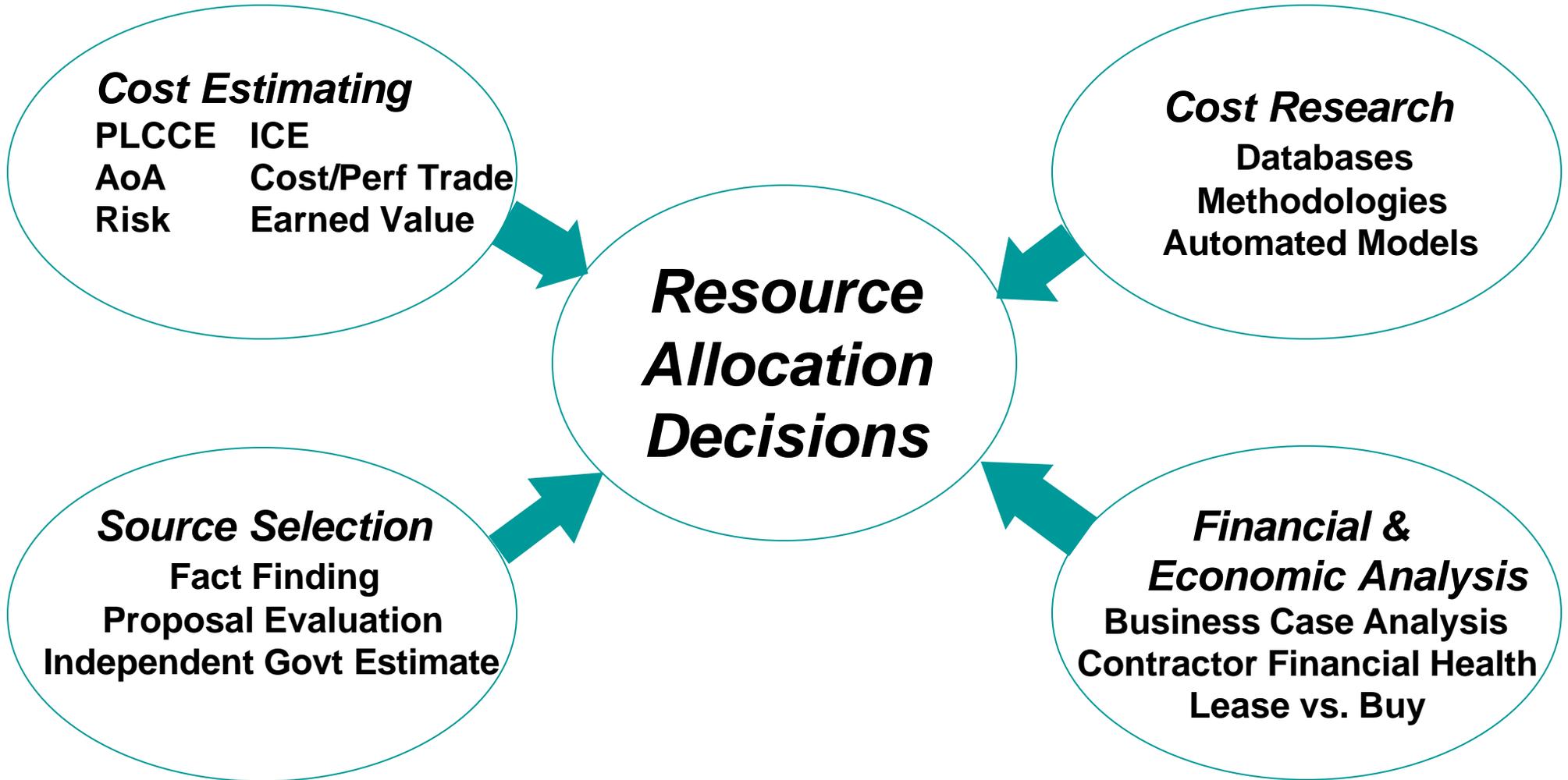
- *DRPM Advanced Amphibious Assault*
- MC Combat Development Center

U.S. Army

- Space & Missile Defense Command
- Aviation and Missile Command
- Night Vision Laboratory
- Cost & Economic Analysis Center
- Tank-Automotive & Armaments Command
- Simulation Training & Instrument Command
- Communications & Electronics Command

A broad base of satisfied customers

Product Overview



Our analysis facilitates informed decision making

O&S Cost Estimating Experience

Ship O&S Cost Estimating Projects			
	PLCCE	ICE	AOA
DDG 51 Flight IIA		●	
SC 21	●		
NSSN		●	
Strategic Sealift		●	
LPD 17		●	
CVNX		●	●
CVN 77	●		
T-AKE	●		
USCG Deepwater		●	

Ship System (Electronics) O&S Cost Estimating Projects			
	PLCCE	ICE	AOA
Cooperative Engagement Capability (CEC)		●	
Surface Ship Torpedo Defense (SSTD)		●	
SQY-1 (cancelled after MS II)		●	
Ship Self Defense System (SSDS)		●	
Common Command & Decision (CC&D)	●		●
Advanced Integrated EW System (AIEWS)	●		
Area Air Defense Commander (AADC)	●		
Remote Minehunting System (RMS)	●		

Ship System (Other than electronics) O&S Cost Estimating Projects			
	PLCCE	ICE	AOA
Submarine Offboard Mine Search System (SOMSS)	●	●	
Long-Term Mine Reconnaissance System (LMRS)			●
MK 30 Target			●
MK 48 ADCAP Torpedo			●
Waste Management Systems			
Pulpers & Shredders	●		
Plastics Processor	●		
Shallow Water Assault Breaching System (SABRES)	●		
Distributed Explosive Technology (DET)	●		

PLCCE = Program Life Cycle Cost Estimate
ICE = Independent Cost Estimate
AOA = Analysis of Alternatives

O&S Cost Research Experience

■ Current

- Software maintenance cost database/methodology for shipboard electronics
- Hardware maintenance cost database/methodology for shipboard electronics

■ Past

- O&S Cost Analysis Model (OSCAM)
 - Visibility & Management of O&S Cost Database (VAMOSOC)
 - Various O&S cost estimating methodologies for surface & subsurface ships & ship systems
 - » Specific to Navy, MSC and commercial ships
 - » Historical-based, statistical & non-statistical methodology
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O&S Tools Experience

- Our analysts have an in-depth understanding of:
 - Visibility and Management of Operating and Support Costs (VAMOSC)
 - Operating and Support Cost Analysis Model (OSCAM)
 - Cost of Manpower Estimating Tool (COMET)
 - Their working knowledge is the result of having
 - Developed (or managed development of) these tools
 - Used the tools
 - Trained tool users
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OSCAM Overview

- Innovative approach to analyzing O&S costs for new and in-service systems
 - Separate models for ships & ship systems
 - Models also available for aircraft, aircraft systems & amphibious assault vehicles
- Business process model that facilitates understanding of O&S processes, O&S costs and their interdependencies
- Appropriate for use throughout the life cycle by logisticians, cost analysts, engineers, etc.

Ideal tool for understanding & managing O&S costs

OSCAM Players

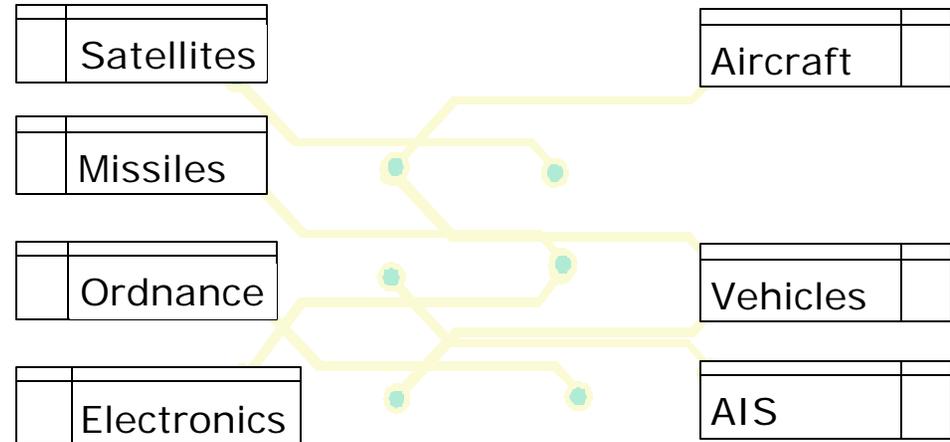
- NCCA: finances, manages development, sponsors training & provides access to qualified users
 - HVR Consulting Services, Ltd: develops model software, prepares training materials & conducts training
 - NSWCC Carderock: transition agent for ship & ship system models
 - Technomics, Inc: consultant to ship & ship system model users
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OSCAM 'Users'

- Programs that have used the model
 - CVNX (NAVSEA & Newport News)
 - CVN 77 (NAVSEA & Newport News)
 - T-AKE (NAVSEA required use by Phase 2 bidders)
 - DD21 (Lockheed Martin)
 - LPD-17 (Avondale, BIW & Raytheon)
 - Training
 - Four day class held 2-3 times a year
 - 110 Navy & industry reps trained since Aug 98
 - Separate courses provided to T-AKE, T-AKE bidders, CVNX, Ingalls and Avondale
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Other Specialty Areas

- Hardware cost analysis
 - Development
 - Production
- Software cost analysis
 - Development
 - Maintenance
- System integration cost analysis
 - Shipboard
 - Aircraft



Expertise to solve our customer's unique challenges

Why Technomics?

- Over 45 staff-years experience conducting and managing Naval weapon system cost analyses as Department of Navy employees
 - Working knowledge of DON/DOD cost analysis policies & procedures
 - Established relationships w/key managers & analysts in all DON cost organizations and OSD CAIG
 - In-depth, hands-on knowledge of Naval cost databases, cost estimating approaches/methodologies/models and their strengths/weaknesses
 - Demonstrated integrity as independent cost estimators trained to question, challenge & think creatively
- Track record of analytical products that:
 - Satisfy DOD's most respected cost analysts
 - Facilitate informed decision making

Unique product-oriented expertise

Contact Us

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