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Global Sustainment

New Roles for Information Management

April 22, 2008 Stavanger, Norway

LOCKHEED MARTIN

Michael Ross Senior Manager, International Programs

Outline

- Global Sustainment
 - The Issues & Problems
 - Needs of Operators and Vendors
 - Examples of Specific Challenges
- Lockheed Martin's Approach
 - Performance Based Logistics
 - Lighthouse (R&D Facility)
- Challenges
 - Global Differences
 - Information Management
 - Exchange of IP and non-IP



Global Sustainment

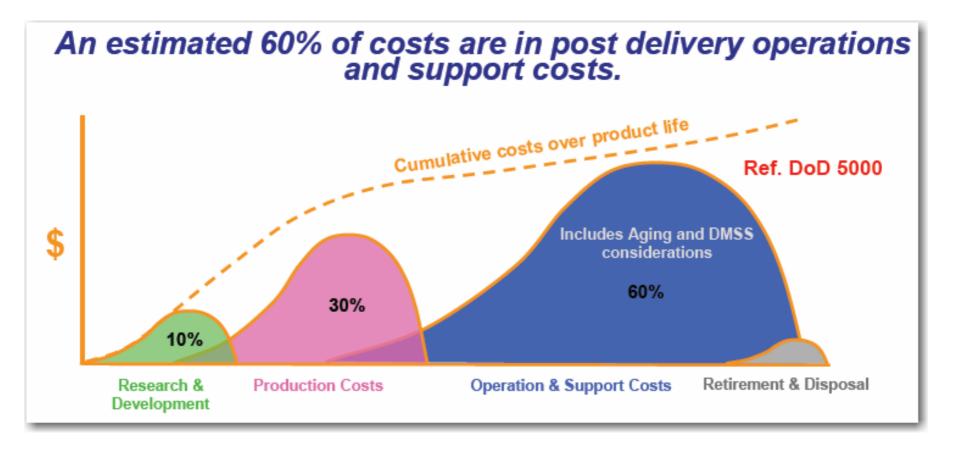


- The World Might be Flat; but the Data is All Shapes, Sizes and Colors
- Platforms Cost More and Will Be in Service Longer
- Global Sustainment Depends on Good Data Collection Gathering Techniques AND Needs to Be Clear for Good Analysis
- Global Nature of Alliances, Partnerships and Vendor/Suppliers Required to Provide an End Product or Service...This isn't your Father's Oldsmobile!
- To Remain Competitive, Coopetition is Acted Upon on an Opportunistic Basis. The Ones that Can Integrate Quickly, Win

Semantic Web Holds Great Promise

Total Lifecycle





Extending O&M to the Global Market Further Exacerbates the Tail-end

Lockheed Martin International Relationships

C130-J: UK and US



JSF: 8 Partner Nations







F-2: Partnership with Mitsubishi Heavy Industries



T-50: Joint Program with Korea Aerospace Industries (KAI)

MEADS: Joint Development Among US, Germany, and Italy







Deepwater: EADS/CASA HC-235A



Littoral Combat Ship: Significant International Content

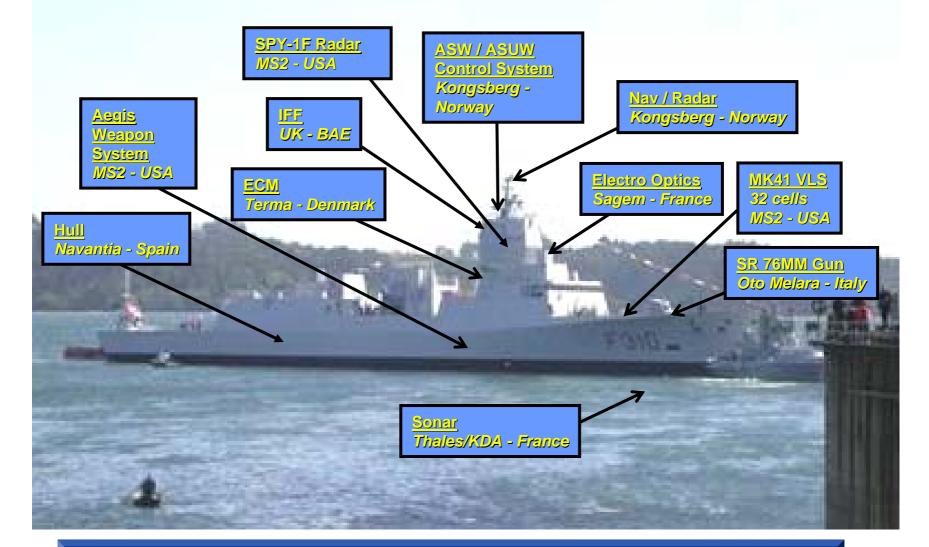


USMC LWPM: Designed by HMT Vehicles, UK subsidiary



Globalization is Here Today...

Global Supply Chain: F310 Norwegian Frigate



Fridtjof Nansen Launch

Global Supply Chain & Asset Management

- USMC, OUSD, & NDLO sought an integrated IUID solution that would:
 - Comply with DoD's IUID registry requirements
 - Demonstrate the business case for IUID transformation
 - Build on experience and life-cycle management capabilities
 - Exercise interoperability between 2 applications
- Pilot involved int'l partners, multiple agencies & commercial entities
- First USMC "in field" IUID marking & data submission to the DoD Registry
- First Norway IUID capability, data management, & PLCS linkage to DoD



Partnering to Implement Global Data Initiatives

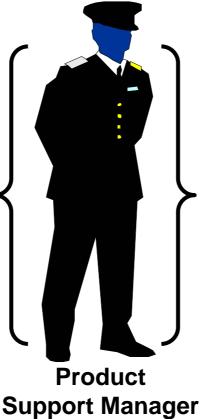
Lockheed Martin's Approach Center for Innovation

Systems Engineering Tools Modeling & Simulation **Operations Analysis** Networks **Reconfigurable Laboratories DOD Experimentation** Framework

Investigating and Implementing Strategic Technologies for our Customers Lockheed Martin's Preferred Approach: Performance Based Contracting

Traditional Support: Transaction Based

- Parts
- Repair
- Technical Support

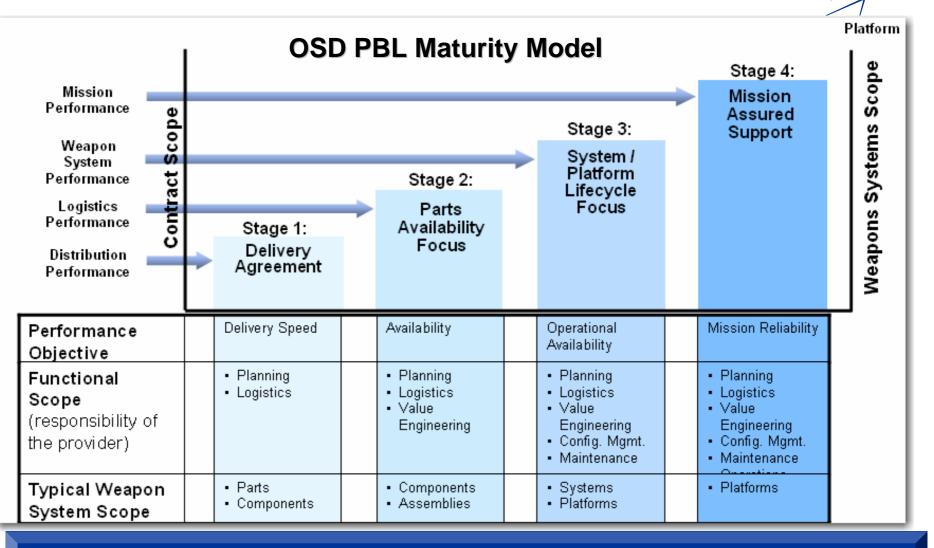


PBL Approach: Desired Outcomes

- Operational Availability
- Operational Reliability
- Logistics Response Time
- Cost-per-Unit Usage
- Reduced Footprint

PBL Buys Outcomes

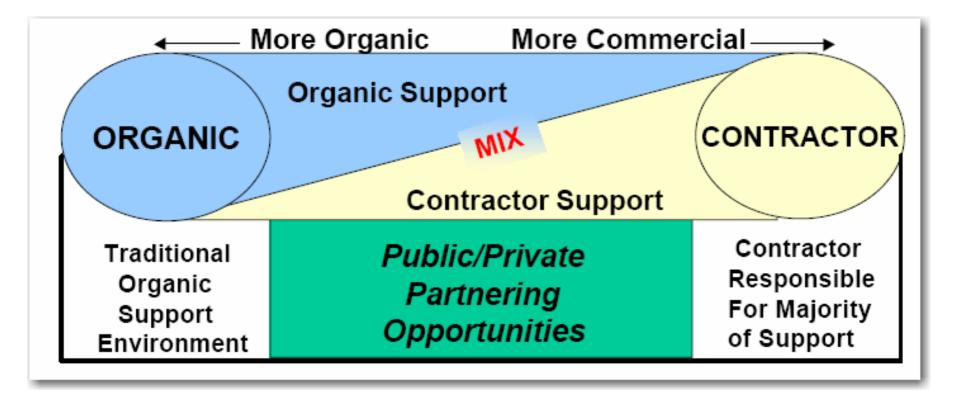
PBL Maturity



Integrating Maintenance and Supply Data Is Key to Unlocking the True Potential of PBL's. Frost & Sullivan Report, 2008

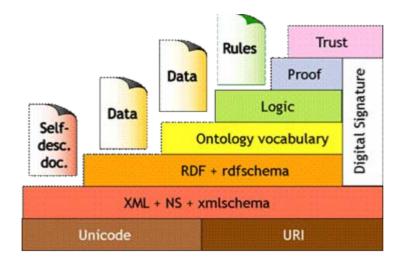


Spectrum of PBL Options



Extending PBLs in the Spectrum of PPPs Requires Enhanced Public/Private Systems Interoperability.

Information Management; Semantic Web @ Lockheed Martin



- LM "Fellows" Specializing in Semantic Web
- Being Applied in The Lab

Potential Being Demonstrated to Customers

Lockheed Martin's Incremental Approach Semantic Web: Follow / Adopt

What the Future Holds

- Today the PBL businesses are at a transition point. The business vision is to enable the adoption and use of Lifetime Support (LTS) best practices application throughout the business
- The vision includes taking full advantage of Internet and application integration technologies and common enterprise infrastructure to eliminate excess cost while leveraging the "Best of Practices" across the enterprise

Strong Opportunity for Semantic Web to Contribute

