



OFFICE OF THE ASSISTANT SECRETARY
OF DEFENSE FOR INDUSTRIAL BASE POLICY

Enterprise Parts Management System (EPMS)

July 31, 2025

Final

Controlled by: OUSD(A&S)/IBP/IBAS
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U.S. Department of Defense

Building Weapons Systems Resiliency with EPMS

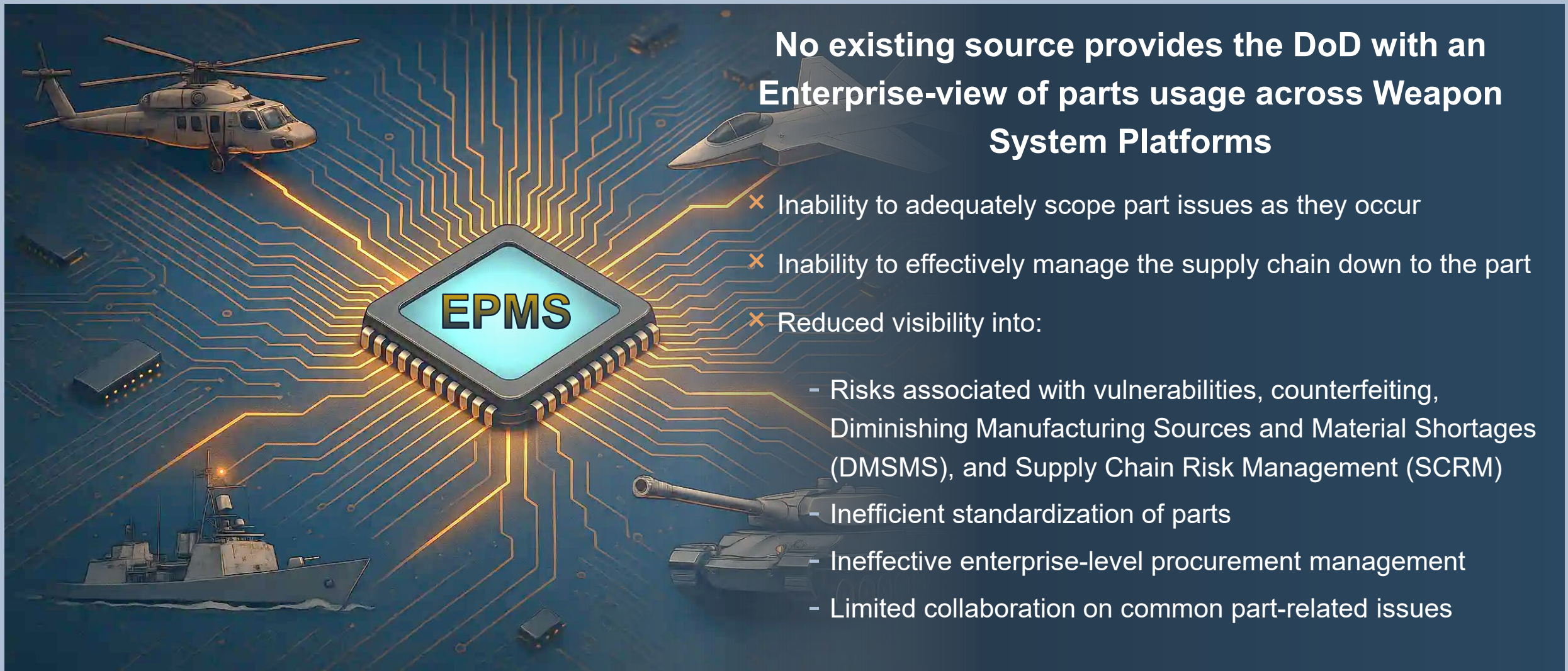


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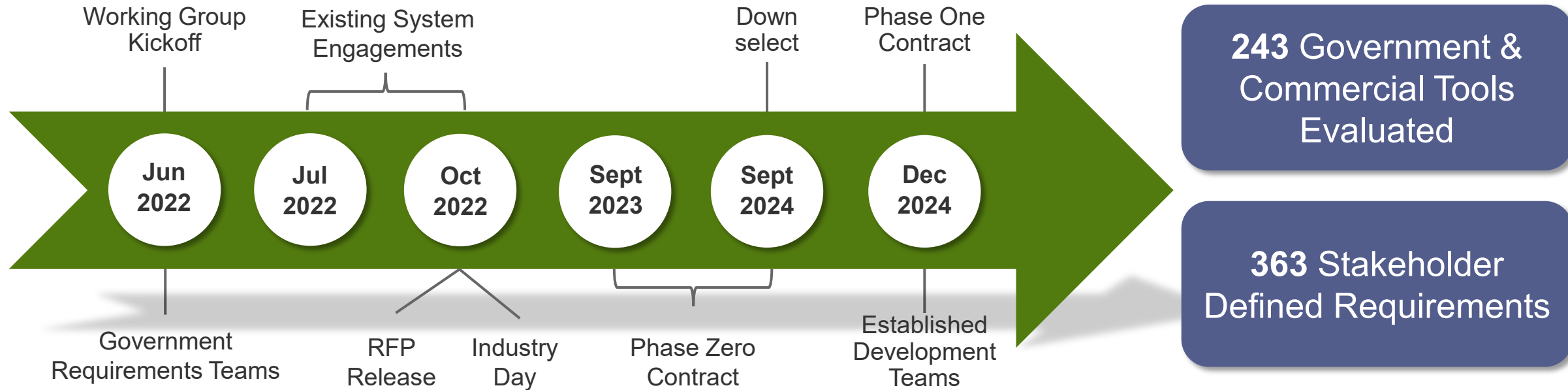
No existing source provides the DoD with an Enterprise-view of parts usage across Weapon System Platforms

- ✗ Inability to adequately scope part issues as they occur
- ✗ Inability to effectively manage the supply chain down to the part
- ✗ Reduced visibility into:
 - Risks associated with vulnerabilities, counterfeiting, Diminishing Manufacturing Sources and Material Shortages (DMSMS), and Supply Chain Risk Management (SCRM)
 - Inefficient standardization of parts
 - Ineffective enterprise-level procurement management
 - Limited collaboration on common part-related issues





EPMS Engagement and Requirements Process



EPMS had widespread representation from across services and DoD agencies to build Enterprise Requirements



Air Force



Army



Marines



Navy



Space Force



DMEA



MDA



OSD



DLA



CDAO

Available to Access for Testing with Limited Functionality to Future Users by February 2026

Expanding DMSMS Management Capabilities



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EPMS is partnering with existing tools to streamline development and enhance the DoD's DMSMS tool kit

DMSMS Management



OMIS (Navy)

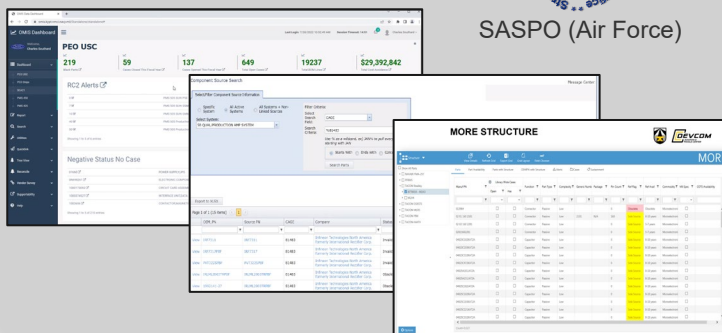


Horizon (Navy)

MORE
MORE (Army)



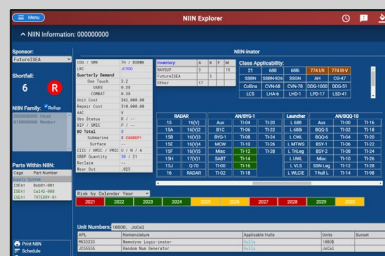
SASPO (Air Force)



Logistics Management



DART (Navy)



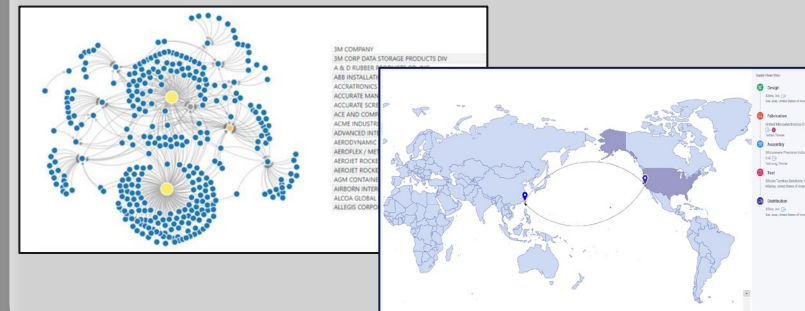
Supply Chain Illumination



SCI-DIVE (MDA)



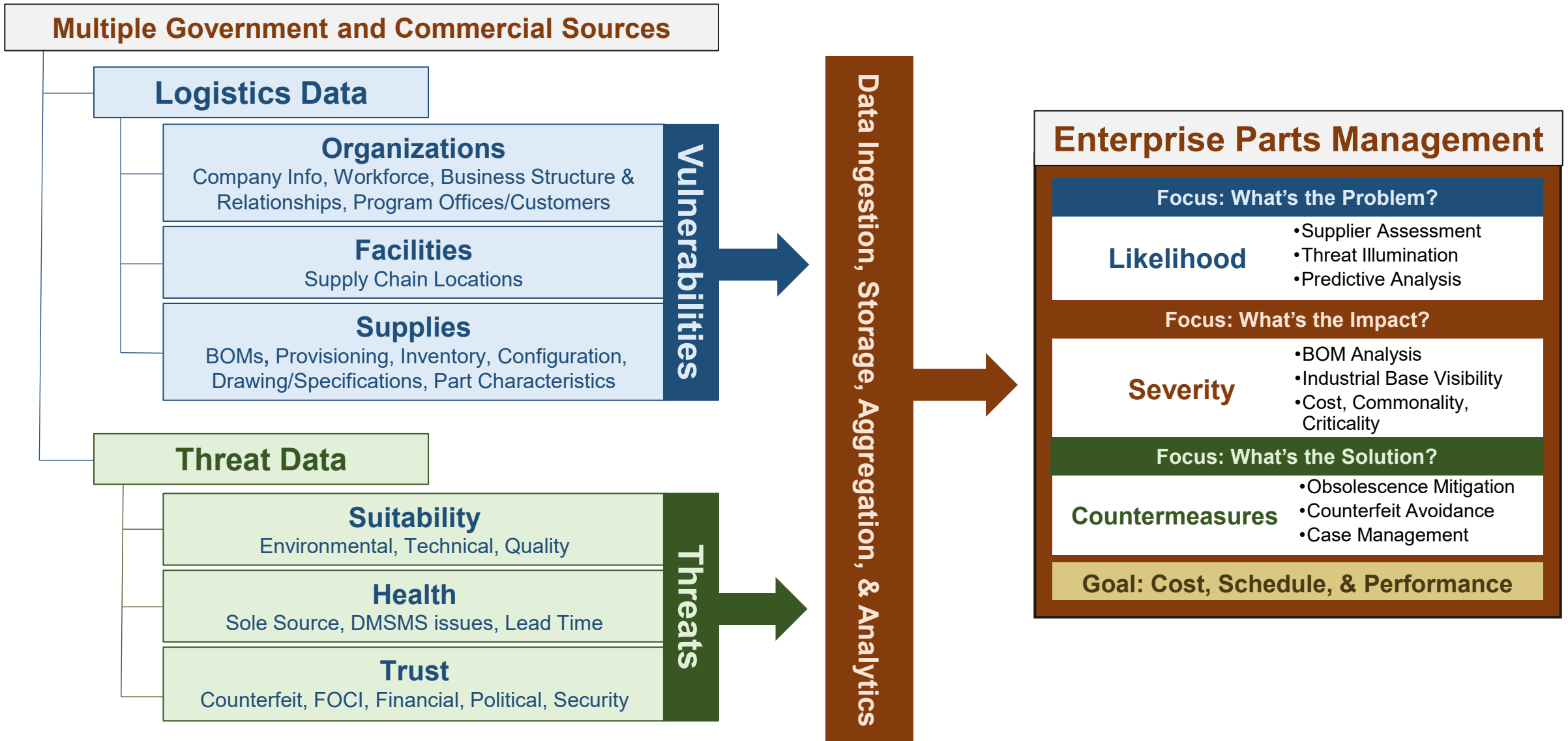
AMARO (OUSD/RE)



Improved Parts Selection / Management



Integrating Data to Enable Proactive Solutions





Granular Data Collection Improves Macro Capability

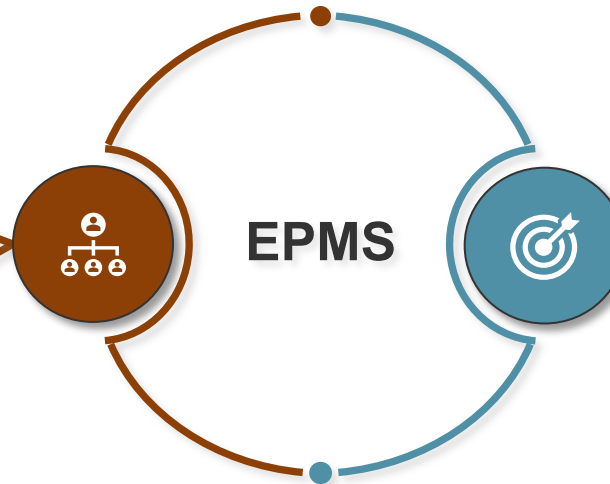
DoD, Military Service, PEO

Macro Visibility

- Enterprise Level Visibility
- Consolidated Procurement
- Collaborative Solutions
- Part Standardization
- Aggregate Threat Assessment

What if?

- Impact of Fab Closures
- Offshoring of Technologies
- Loss of Critical Materials



Programs, Parts Managers, Practitioners

Micro Visibility

- Case Management
- Predictive Analysis
- Part Selection
- DMSMS
- Supply Chain Threat Illumination

What if?

- Discontinued Parts
- Counterfeiting
- Quality issues

Supply Chain Connections



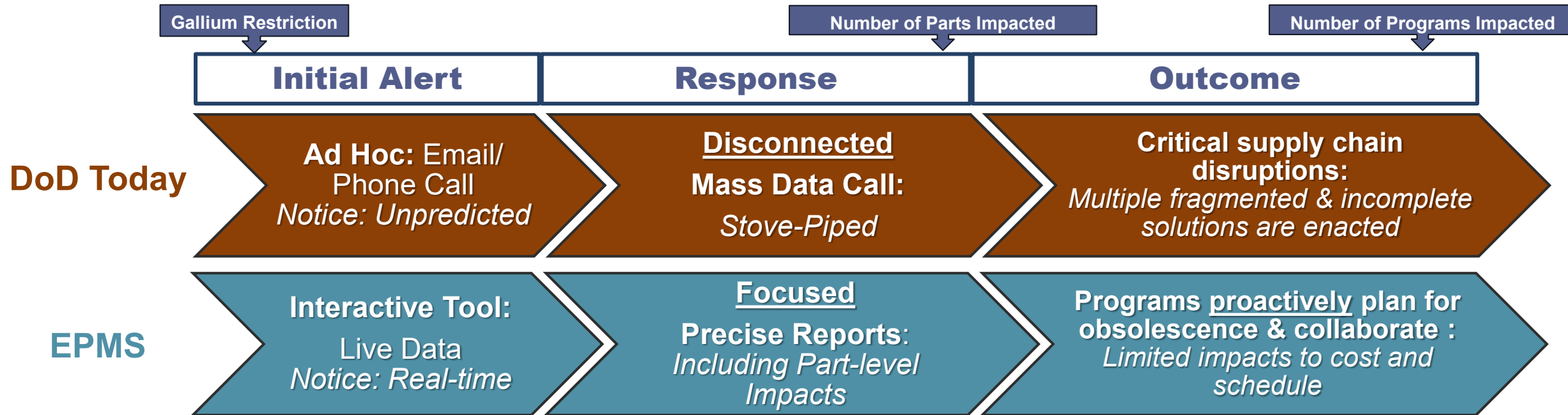
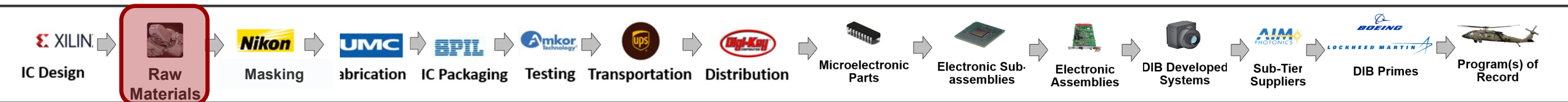
Part Details



Leveraging granular Microelectronic Part Details supports decision making across all levels of the DoD from the individual program practitioner up through the full Enterprise



Simulated Scenario: Material Restrictions or Shortages

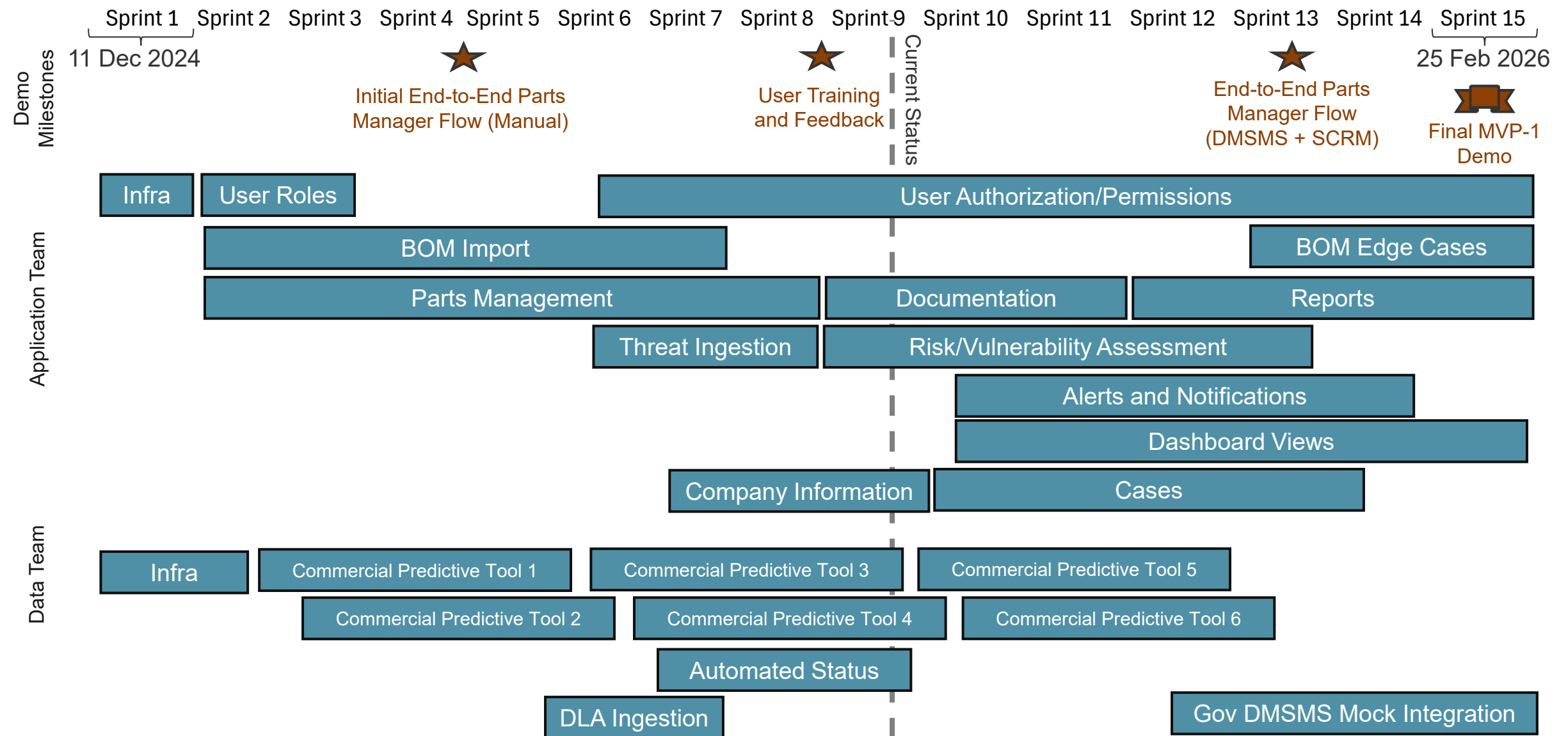


EPMS leverages instantaneous part-focused data sets that provide specific end-to-end connectivity across the supply chain

EPMS Functional Roadmap



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The Core Team



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Colby Millett

Project Lead
OUSD IBP ICAM

15 yrs DoD
Experience

Program Management,
Quality Assurance,
SCRM



Isaiah Mullis

Systems Lead
Dept. of Navy

18 yrs DoD
Experience

DMSMS, Counterfeit,
Microelectronics SCRM



Dr. Dallas Rosson

Architecture Lead
Dept. of Navy

27 yrs DoD
Experience

Computer science, Data
Management, and Agile
Software Development,
PhD in Systems
Engineering



Michael Graham

Training Lead
Dept. of Air Force

27 yrs DoD
Experience

DMSMS / Supply
Chain Training SME



Kevin Boenning

Outreach Lead
Dept. of Army

5 yrs DoD
Experience

DMSMS, Counterfeit,
Communications
Instructor for DAU



Tracy Daubenspeck

Requirements Lead
OUSD R&E

40 yrs DoD
Experience

DMSMS, Parts
Management, Program
Management



Robin Brown

Policy Lead
OUSD R&E

23 yrs DoD
Experience

DMSMS & Parts
Management Program
Manager for DSPO

155+ years of combined experience in addressing DMSMS, SCRM, and DoD parts management challenges



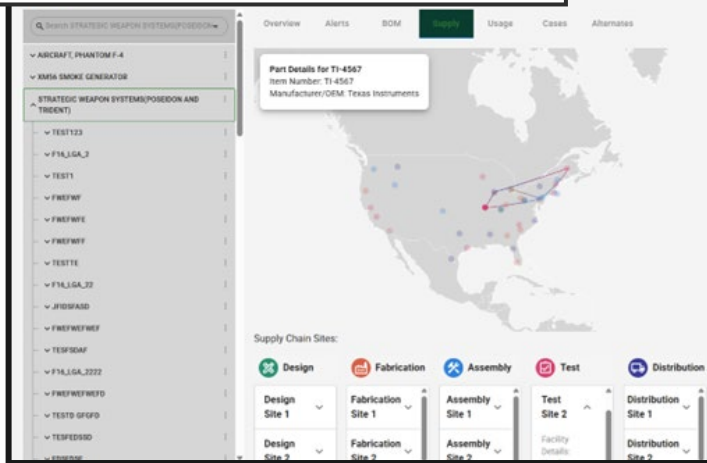
BACK UP



EPMS Will Improve Part Selection & Management

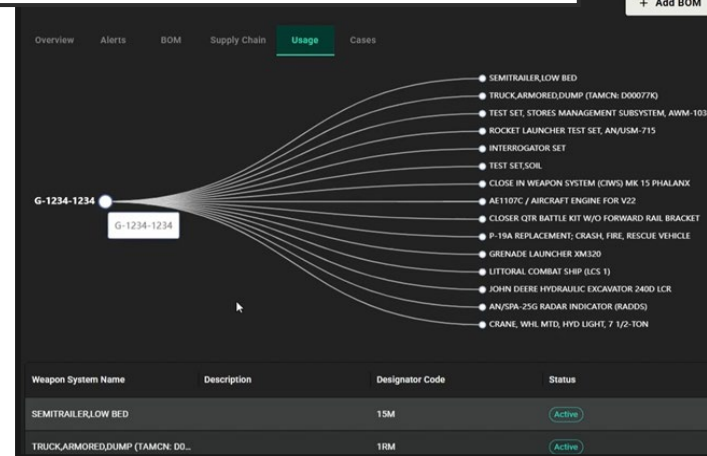
Enables DoD to build more *resilient* designs with better parts selection, *forecast* in advance when issues occur to increase time to *proactively resolve*, and facilitates collaborative solutions through *Case Management*

Supply Chain Threats



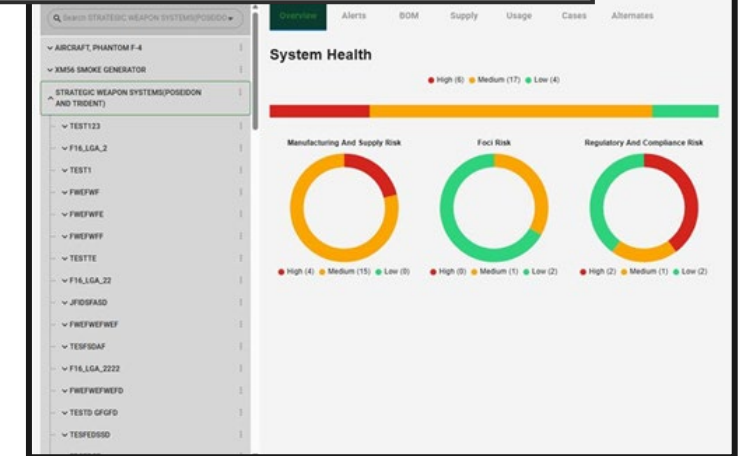
Leverages AI/ML to Predict, Detect, Map, and AVOID threats throughout the supply chain in **REAL-TIME**

Program Dependencies



Identifies dependencies with insight into parts usage & associated infrastructure

Risk Visibility & Analysis



Provides Risk visibility, Impact Assessments, and Enterprise-wide Analysis

EPMS is focused on *Microelectronics Parts* data but is designed to quickly scale beyond to meet future expansion demands and will be capable of storing and managing **ALL DoD Product Types**

Software Acquisition Pathway Alignment



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The DoD is leveraging a flexible contracting approach for EPMS development to deliver cutting-edge capabilities to the warfighters faster

- ✓ Aligned to Software Acquisition Pathway (DoDI 5000.87)
- ✓ Leveraging commercial innovation via OTA for quick contracting actions and broader solution development
- ✓ Utilizing Agile Development to field the capability faster and more efficiently
- ✓ Utilizing Open Architecture that has flexibility as technology evolves, providing the ability to swap out, include or remove commercial or government data source APIs as needed and quickly scale beyond Microelectronics to meet future expansion demands
- ✓ Designed containerized solution as a “plug & play” model to streamline the transition to preferred Cloud Hosting Environment
- ✓ Aligned to DoD Security Guidelines to ensure architecture supports authentication of user at each Impact Level (IL) for safeguarding of weapon system information



Designed with maximum flexibility to rapidly evolve & adapt to overcome Defense Industrial Base challenges and align with National Defense priorities



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