

S&ET Innovation – Driving Next Generation Materiel Readiness



April 27, 2022 – 22nd Annual Science & Engineering Technology Conference Miami, Florida

ENGAGE. COLLABORATE. INFLUENCE.

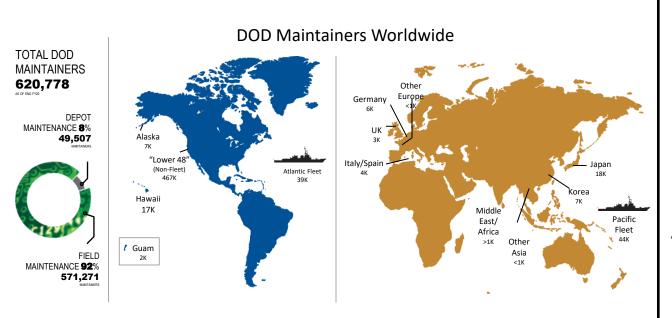


2022 National Defense Strategy Mandates

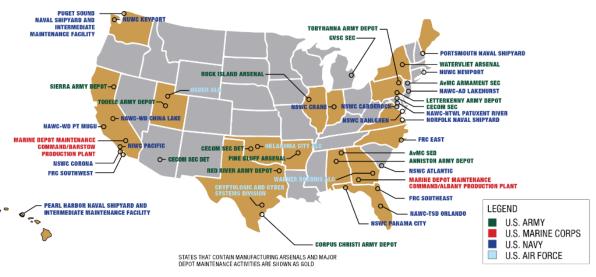
- Defending the homeland, paced to the growing multidomain threat posed by the PRC
- Deterring strategic attacks against the United States, Allies, and partners
- Deterring aggression, while being prepared to prevail in conflict when necessary, prioritizing the PRC challenge in the Indo-Pacific, then the Russia challenge in Europe
- Building a resilient Joint Force and defense ecosystem

Distribution A: Approved for public release **Sustainment Enterprise Scope** \$34.7 BILLION **14,883 AIRCRAFT** \$20.0B **Total Budget** \$687.8B **\$7.9**B Logistics Depot Cost \$173.0B \$16.2 BILLION Maintenance 239 SHIPS & SUBMARINES \$8.3B \$93.9B \$1.8B Depot Cost \$7.4 BILLION **330,150 VEHICLES** \$5.6B \$4.8B Depot Cost \$9.1 BILLION FY19 **COMMON EQUIPMENT \$4.3**B

The Maintenance Workforce

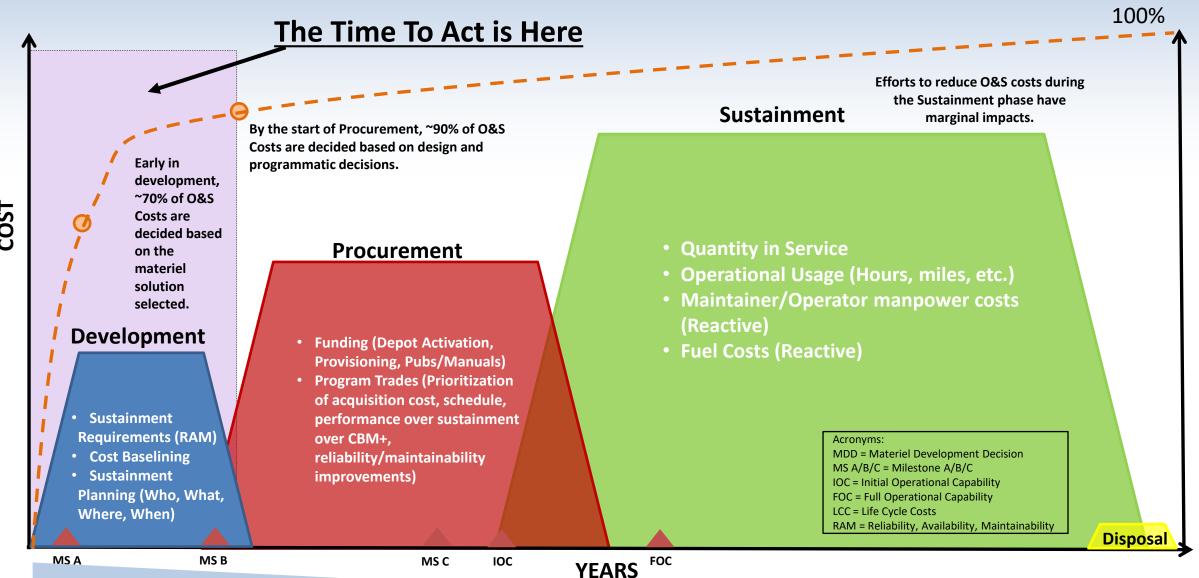


Organic Industrial Base Installations and Software Sustainment Activities





Why S&ET Is Important Early: I Need Your Help...



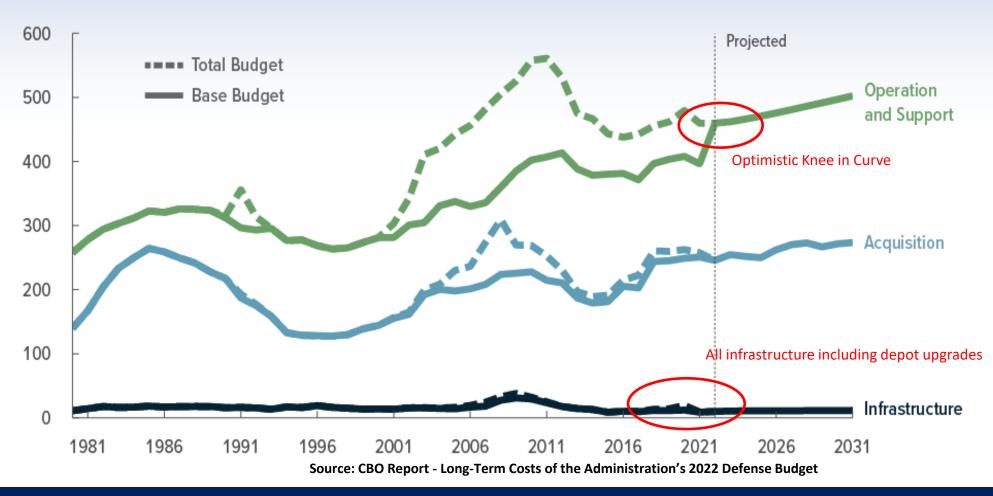
Most effective time to influence O&S costs

Cumulative % of LCC decided



Historical and Projected O&S Costs

DoD's Costs for Operation and Support, Acquisition, and Infrastructure, 1980 to 2031



The Future is Unaffordable - We Need to Act Now!

Drive Competitive Advantage
Fortify & Protect DoD Installations
Modernize & Sustain Nuclear Determines USD(A&S) Goals & Priorities

• Shape a 21st Century DIB • Enhance Global Partnerships • Cultivate Our Human Capital

Defend the Nation
Take Care of Our People
Succeed Through Teamwork

Logistics and Materiel Readiness Strategic Plan 2022–2028

Vision: Military Operations Empowered through Logistics

Mission: Provide Logistics and Materiel Readiness to Deliver Military Capability for the Nation

Goals



G1: Deliver sustainable Logistics to support **DoD** mission requirements

Objectives (2-6 years)

- ☐ 1.1 Provide effective Logistics capability for DoD mission ops
- ☐ 1.2 Improve Logistics processes that enhance mission ops
- ☐ 1.3 Develop Logistics enhancements and improve mission enablers

Goal Champion: DASD (Log); OCRs J4/DLA/TRANSCOM



G2: Deliver cost effective materiel readiness to meet the **DoD's Warfighting** requirements

- ☐ 2.1 Expand and optimize Sustainment data integration
- ☐ 2.2 Ensure a resilient and responsive Organic Industrial Base
- ☐ 2.3 Drive adoption of Sustainment innovations to improve Materiel Readiness
- ☐ 2.4 Improve explosives safety and munitions risk integration

Goal Champion: DASD (MR); OCRs DASD (PS)/J4



G3: Enable effective. affordable and sustainable Warfighting capability

- □ 3.1 Provide policy, processes, and guidance that foster effective Product Support (PS)
- □ 3.2 Provide DoD decision-makers with comprehensive, timely, and actionable program sustainment assessments in order to develop affordable PS
- ☐ 3.3 Develop and lead civilian logistics workforce policy, training, and recognition
- □ 3.4 Develop and synchronize strategic and operational logistics initiatives with international allies/partners

Goal Champion: DASD(PS); OCRs DASD(MR)/J4



G4: Transform global Logistics to deliver readiness and lethality

- □ 4.1 Provide Sustainment solutions for competitive and contested logistics environments
- ☐ 4.2 Build supply chain transparency, accountability, and customer-centricity
- ☐ 4.3 Expand industry engagement and market intelligence to foster innovation and manage risk

Goal Champion: DLA(J3); OCRs DASDs (Log, MR, PS)/J4

Outcomes

- ☐ Responsive end-to-end Log processes
- ☐ Effective Log IT enterprise meeting mission needs
- Balanced and optimized OIB
- A_O meeting Warfighter requirements
- Early integration of sustainment & product support
- ☐ Minimized life-cycle costs
- Tailored Logistics solutions for contested requirements
- ☐ Mission-driven Logistics innovation

DASD(MR) S&ET "Customer Priorities"

Enterprise Data Management

- Advanced Computing & Software
- · Advanced Analytics & Decision Support
- Integrated Network Systems-of-Systems
- Quantum Information Science

Blockchain

OIB Optimization

- Workforce
- Facilities & Equipment Modernization
- Process Optimization
- Technology Insertion (Cold Spray)
- Performance to Plan

Machine Enabled Processes

- Troubleshooting
- Automating Support Processes & Shifting To High Value Work – e.g., Autonomous Maintenance & Sustainment
- Digital Twin
- Human-Machine Interfaces
- Functional Improvement of Key Assets Over Time (Self Repair)
- Corrosion Prevention & Control

Artificial Intelligence (IOT-enabled)

- Natural Language Processing
- Data Decision Tool To Support Sustainment
- Machine Learning
- Unmanned and Augmented-Manned Rapid Capability Development
- Integrated Sensors & Cyber
- Microelectronics
- · Remote Sustainment



Materiel Readiness Outcomes

- Responsive End-To-End Log Processes
- Effective Log IT Enterprise Meeting Mission Needs
 - Balanced & Optimized OIB
 - Ao Meeting Warfighter Requirements
- Early Integration of Sustainment & Product Support
 - Minimized Life Cycle Costs
- Tailored Log Solutions For Contested Rqmts
 - Mission-driven Log Innovation



DIB Resilience & Growth

- Robotics
- Renewable Energy Generation& Storage
- Future Generation Wireless (Future G)
- Digital MRO
- Industry 4.0

