Commercial Technologies for Maintenance Activities

Readiness at Best Cost

CTMA Program Overview

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A Joint NCMS/DoD Partnership
Maintenance Challenge

FY 2015 DoD Budget

$565.0B **

Operations & Maintenance: $248.7

Military Personnel: $140.0

Procurement: $102.8

RDT&E: $64.0

Other: $9.5

Maintenance cost: ~$73.3 billion

DoD’s military equipment is valued at ~$601 billion

Systems Supported by DoD Mx

356K
Comm./electronics, Support equipment, Other systems

35K
Maintained by: 618K DoD/ Private-sector personnel

884
237
15K

Cost of Mx Doubled Since 2001

Military Equipment

Maintain Readiness with Significantly Reduced Funding

- Unprecedented Budgetary Pressure
- High Sustained OPTEMPO
- Aging Weapon Systems/deteriorating Material Condition
- Obsolescence
- Increasing Sustainment Costs

Maintenance Technology Insertion is a Key Factor to Success

** Source: DoD Maintenance 2015 Fact Book
CTMA OVERVIEW

CTMA is the *only* DoD-wide program focused solely on maintenance improvements.

- **107** Defense Partners across **27** States
- Over **303** Multi-participant projects by FY 2016
- **17** Awards for innovation
- **$75M** Applied in OSD & Congressional funds
- **$120M** Service-directed funds applied
- **$152M** Industry cost share contributed
- **$450M** Cost savings to date
- **$8B** Total projected savings by 2023
- **92%** Technology transition rate since 2005

Last updated: 01-17 Mod 10
NCMS/CTMA TRACK RECORD

**Project Impact**

- Mx Management Improvement:
  - 17% in 2000
  - 38% in 2005
  - 44% in 2010
- Environmental:
  - 13% in 2000
  - 25% in 2005
  - 38% in 2010
- Mx Avoidance & Reliability:
  - 15% in 2000
  - 30% in 2005
  - 44% in 2010
- Cost Savings:
  - 20% in 2000
  - 44% in 2005
  - 52% in 2010

- % of Projects Impacting Major Mx Criteria:
  - 0% in 2000
  - 20% in 2005
  - 40% in 2010
  - 60% in 2015
  - 80% in 2020

**Cumulative Results**

- Actual:
  - $10M in 2003
  - $450M in 2007
  - $8B in 2012

- Projection:
  - $10M in 2016
  - $450M in 2021

**Deployment Rates**

- Completed 2005+:
  - 92%

- 1998 to 2005:
  - 33%

**Total CTMA Funding Profile**

- $191,375,819

**Last updated:** 01-17 Mod 10
The CTMA Product:

- Cooperative Agreement
- Streamline business process – 45 days cradle to execution
- Leverages industry innovation
- Facilitates cross industry / cross service collaboration
- Requires industry investment
- Evaluate / Demonstrate / Validate
- Communicate / Champion / Outreach – DoD Wide Transition

CTMA initiatives are moving forward to transition while traditional development efforts are still initiating contracts.
• Existing cooperative agreement with broad applicability  
  (FAR compliance not required)
• Military Interdepartmental Procurement Request (MIPR)  
  (Ease of funding transfer from services to the CTMA contract vehicle)
• MIPR normally accepted within 1 – 2 days  
  (At this point funds have been committed)
• Streamline CA 30 – 45 days  
  (Time that MIPR is issued to contract mod, funds have been obligated)
• Well staffed technology transition professionals
• Funding available for business development
• Streamline process execution
• Business to business contracting
• Working in parallel for project formation and project execution
• Expedient and seamless
• Leverage government funding
• Streamlined technology transition

Try it before you buy it
• Turn key operation
• Streamlined well documented process
• Government sponsor can focus on steering, requirements development, evaluation of capability (SME)
• NCMS focuses on blocking / tackling, meeting coordination, accounting, contracting and reporting
• NCMS is responsible for coordinating and delivering the reports, business case analysis project data
• NCMS is a technology transition leader
  • Focus on transition
CTMA AWARENESS AND OUTREACH

- Cross-pollination
- CTMA Connector - Highlight activities and technologies
- Joint Technology Exchange Group
- Technology Calls
- Industry Days / Technology Showcases
- Partners Meeting
- Partnerships: AMMO, JIT, ECRC, America Makes Mx and Sustainment Advisory Group, Composite Maintainers
- DoD Mx Symposium
Changing Mx Paradigms

Advanced NDI

Automated Laser Coating Removal

EWIS

Additive Manufacturing

3FAST

Data Interoperability

“Big Data” Analysis

Cold Spray

Synthetic Instrumentation

Intermittent Electronics Repair

“CTMA is changing the very nature of DoD maintenance” ~ Bill Black, Col USMC retired
CTMA: Legacy of Success; Relevance Going Forward

- Masterful technology transition provides solutions to problems
- CTMA is a force multiplier for available resources (gov’t, industry, academia)
- Initiatives consistently produce substantial benefits
- Delivers value across *multiple* DoD focus areas

- Collaborative streamlined business process
- Mx Technology is a key element in DoD’s strategy to reduce life cycle O&S costs
- Mx costs will continue in order to maintain legacy assets
- Collaboration creates unity of efforts and enables leveraging resources