



COMMERCIAL TECHNOLOGIES FOR MAINTENANCE ACTIVITIES

CTMA PROGRAM OVERVIEW

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CTMA Overview



187

DEFENSE PARTNERS

Across

31

STATES

CTMA is the *only* DoD-wide program focused solely on maintenance and sustainment

over **557**

Multi-participant projects by FY 2020

17

Awards for innovation

\$75M

Applied in OSD & Congressional funds

\$679M

Service-directed funds applied

\$178M

Industry cost share contributed

\$450M

Cost savings to date

\$8B

Total projected technology transition savings by 2023

92%

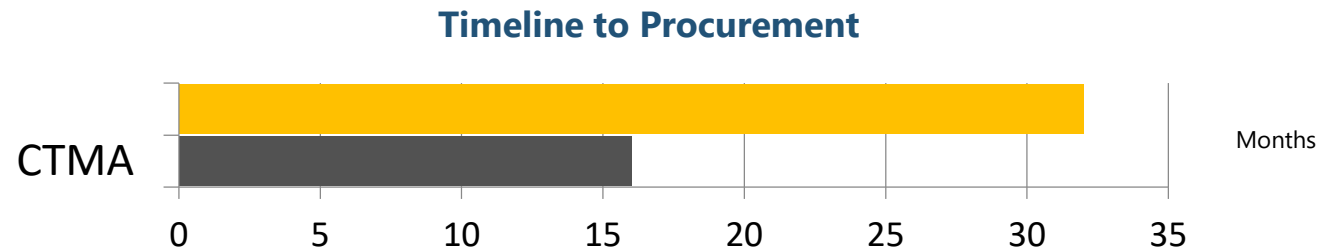
rate since 2005

Modernizing the Organic Industrial Base Since 1998!



The CTMA Product:

- Cooperative Agreement – Non FAR based contract
- Governed by 2 CFR Part 200
 - CAS Compliance not required
- Streamline business process – 45 - 90 days cradle to execution
- Leverages industry innovation
- Facilitates cross industry / cross service collaboration
- Requires industry investment – industry as technology solution partner
- Evaluate / Demonstrate / Validate
- Communicate / Champion / Outreach – DoD Wide Transition



CTMA initiatives are moving forward to transition while traditional development efforts are still initiating contracts.

- Unique Collaborative Agreement, a joint NCMS/DoD partnership since 1998
 - Focused on DoD Maintenance and Sustainment
 - Money transfer via MIPR
 - Demonstrate/pilot advanced technologies/process capabilities/system sustainment
 - Allows DoD to “try it before you buy It”
 - Project requirements to qualify:
 - Can not be used for asset acquisition (demonstration / evaluation only) *
 - RDT&E (2-5 years POP) and O&M (1 year POP) oriented projects accepted
 - Focus on public good first, DoD second
 - Satisfies a maintenance and sustainment need
 - Industry cost share required
 - Multiple project partners (industry, academia, services) preferred
- * 17 NDAA Section 806 Exception

HOW DO PROJECTS START?

- 1.) Government has conducted market research and has identified a technology they are interested in evaluating or demonstrating
 - NCMS works with technology provider to develop concept paper and statement of work
 - Project announcement is issued to inform industry what technology the government is currently evaluating
 - NCMS and government sponsor provide justification for value added solution and technology partner

- 2.) Government has a technology need and would like to see what is available in the public domain
 - NCMS issues a sources sought identifying the technology need
 - Sources Sought is emailed to distribution list and posted on the NCMS website
 - Request capabilities statement and cost summary form
 - Sources sought can leverage Section 806 language to complete competition up front
 - Government evaluates submitters and down selects technology provider
 - NCMS works with technology provider to develop concept paper and statement of work

Concept Paper – The Essentials (Not a Statement of Work)

- Follows a specific format established by WHS (approving agency)
- Strong focus on satisfying a public benefit (primary) and DoD (secondary)
- DoD entity identified as a testbed/demonstration/pilot
- Must be maintenance and sustainment focused
- General tasks and deliverables are identified
- Collaborative partners are delineated
- Partnering resources identified – government and industry cost share
- Period of Performance defined

Changing Maintenance Paradigms

Advanced NDI

Automated Laser Coating Removal

AWTS

Additive Manufacturing

3FAST

Data Interoperability

Synthetic Instrumentation

"Big Data" Analysis

Cold Spray

Intermittent Electronics Repair

$$y_1(n) = \frac{1}{n} \sum_{k=0}^{n-1} y_{t-k}$$

$$y_{t+1} = \alpha \cdot y_t + (1-\alpha) \cdot y_{t+1}$$

Moving Average

I believe that CTMA plays a critical role with interfacing the DoD and the commercial sector, especially those companies that don't traditionally work with the DoD. These emerging technologies expand our aperture and are a critical component to the readiness of our warfighter.

Colonel Howard K. Marotto II (Ret), Next Generation Logistics, Deputy Director, Additive Manufacturing and Innovation.