Workshop

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Workshop Outline

- Introduction
- Essentials of a Good CTMA Project
- The Concept Paper
- MIPR Process/Requirements
- Project Execution
- Technology Transition
Introduction

• CTMA -- the perfect vehicle to accelerate innovation at DOD maintenance and sustainment facilities
• Understanding key CTMA elements impacting rapid deployment of new innovation is critical to success
• A highly interactive Workshop is planned to help
• Ask questions, interrupt speakers
• If you don’t, I will come to you. Watch out!!
CTMA Program -- Maintenance and Sustainment at Best Cost

• Unique joint NCMS/DoD partnership since 1998
• Focused on DoD Maintenance and Sustainability
• Fosters true collaboration between DoD and industry partners, both small and large
• Demonstrate/pilot advanced technologies/process capabilities/asset sustainment
• Allows DoD to “Try it before you buy It”
The CTMA Cooperative Agreement

• Between OSD and NCMS; Contracting Agency – Washington Headquarters Services (WHS)
• Effective through 2020
• Project requirements to qualify:
  ➢ Can not be used for asset acquisition
  ➢ RDT&E and O&M Federal funds can be applied to the CA
  ➢ Focus on public good first, DoD second
  ➢ Must satisfy a Maintenance and Sustainment need
  ➢ Industry Cost Share required
  ➢ Multiple project partners (industry, academia, DoD Services)
  ➢ Project partners chosen based on best value, best cost criteria
Essentials of a Good CTMA Project

• Must satisfy a Maintenance and Sustainment* need
• Must have a defined public good (plus DoD)
• Innovative technology or process -- nearly ready for primetime
• Test, prove-out, demonstration, pilot, not full acquisition
• Meets a DoD requirement (current or future)
• Applicable across Joint Services preferred
• Funding source identified
• One or more partners preferred (gov’t, industry, academia)
• Clear technology transition path identified

* Defined as actions/activities that ensure longevity of valuable assets through their useful lifecycle (and beyond) – think B-52
Essentials of a Good CTMA Project

Workshop Exercise #1
CTMA Project Proposal 1

Protection of Historical Military Assets for Public Viewing – Phase II

• Our military history is a very important portion of our country’s historical record. Military artifacts, relics, displays commemorate the many the historical military events that shaped our history for over two centuries.

• Currently, a coordinated program does not exist for military as well as other historical artifacts that assures the public’s best interests for an HSE perspective are fully met.

• A Phase I was recently completed by the Naval History and Heritage Command (NHHC). A new innovative process was developed to train inspectors, report results remotely and to identify and track mitigation actions needed to assure public safety. The process was validated through a pilot program that was launched in the state of Florida where over 200 aircraft were inspected.

• The team would like to launch a Phase II to complete the inspection of 1,200 aircraft and artifacts spread across the country as well as perform the needed mitigation on deficient aircraft.

• An estimated $2.1 M is needed to complete this phase.
CTMA Project Proposal 2

Research for Li-ion Battery Safety at Depot Maintenance Facilities

• DoD maintenance facilities continue to upgrade their fleet of maintenance vehicles and related equipment moving from lead-acid batteries to Lithium-ion. With more and more reports of fires and explosions, consideration of the safety aspects Li-ion batteries needs to be addressed.

• Safety features typically built into Li-ion cells (e.g., circuit interrupt device, pressure vent, and/or shutdown separator) to mitigate issues. Potential abuse issues such as “thermal runaway” caused by extended operation, abuse or other factors still exist.

• Intended to address Li-ion battery safety at a military maintenance facility related to “thermal runaway”, electrical failures, and mechanical abuse.

• The DoD maintenance depot chosen is expected to be a surrogate for commercial manufacturing facilities with similar issues.

• Industry (battery manufacturer and consultants), academia (research university), and the government will be members of the project team.

• Total project value is $675,000 with industry providing $125,00 of in-kind support.
Essentials of a Good CTMA Project

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Collaborative Project Process

Formation
- Define Need
- Define Concept
- ID Potential Technologies
- Qualify Potential Technology Providers

Approval
- Prepare Documentation
- Submit for Approval
- Notify Project Participants
- Initiate Sub-Awardee Agreements

Execution
- Kickoff Meeting
- Finalize Tasks, Deliverables
- Track Progress, Resolve Issues
- Monthly, Quarterly Reporting

Closeout
- Assure Deliverables Met
- Quantify Benefits, Transition Plan
- Prepare, Issue Final Report
- Closeout Sub-Awardee Contracts

Transition
- Release Report
- Showcase Technology
- Develop Requirements Document
- Promote Benefits across DoD
The Concept Paper

• What is it?
• What it isn’t?
• Why is it needed?
• What must be included?
• Who writes it?
• Who approves it?
Concept Paper – The Essentials

• Follows a specific format established by WHS (approving agency)
• Strong focus on satisfying a public problem/need first followed by industry and DoD last
• Clearly articulate the benefits to the DoD and general public
• DoD facility/activity identified as a testbed/demonstration/pilot
• Must address a maintenance and sustainment need
• High level view of project – not a statement of work
• Industry cost share identified
Concept Paper – Template

1. Overview/Background
2. Problem/Proposed Solution
3. Objective
4. Scope/Solution Approach
5. Tasks (optional -- 5,000 foot view)
6. Deliverables
7. Overall Project Costs
8. Benefits to the General Public
9. Benefits to DoD
10. Project Participants
11. Period of Performance
12. Security Requirements
13. CTMA Program Activities (Transition Plan)
Concept Paper – Format

• Font 10 point Times Roman, 1 inch margins
• Sections must follow Concept Paper Template (previous slide)
• Limited to 5-7 pages, do not include page numbers
• Pictures/graphics must be JPEG or PNG, not layered
CTMA Program Activities

In addition to its financial and programmatic management of this project, NCMS will perform technology transition efforts to disseminate the results of this initiative as appropriate across the full spectrum of DoD and most importantly to commercial sustainment activities, from field to depot maintenance and logistics. These activities are important as they allow NCMS to build strong relationships with commercial and government partners to provide a thorough understanding of the supply and maintenance needs of the industry.
Key Elements - Concept Paper

✓ Addresses Maintenance and Sustainment
✓ Focuses on a Public Need/Problem
✓ Public Good Benefits Highlighted
✓ DoD Benefits Secondary
✓ Cost Share Included
✓ Program Activities (Outreach/Transition) Included

*High Level View of Initiative (not in the weeds)*
The Concept Paper

Workshop Exercise #2

Project Formation
Key Elements - Concept Paper

✓ Addresses Maintenance and Sustainment
✓ Focuses on a Public Need/Problem
✓ Public Good Benefits Highlighted
✓ DoD Benefits Secondary
✓ Cost Share Included
✓ Program Activities (Outreach/Transition) Included

*High Level View of Initiative (not in the weeds)*

Project Formation
The MIPR Process/Requirements

• To apply funds to the CTMA CA a MIPR (Military Interdepartmental Purchase Request) is typically used
• The MIPR is completed by the Government Sponsor for the initiative
• CTMA CA accepts RDT&E, O&M and Procurement funds
  – Research Development Test & Evaluation Funds (RDT&E)
    • RDT&E funds must be obligated to a contract within 2 years
    • RDT&E funds are preferred for CTMA
  – Operations & Maintenance Funds (O&M)
    • O&M funds must be obligated to contract within 1 year
  – Procurement
    • Procurement funds must be obligated to contract within 3 years
• CTMA CA Mod Approval Request submitted to OSD/WHS
  • Concept Paper
  • SF424 and SF424A
  • MIPR & MIPR Acceptance
    • WHS can typically process a contract modification within 30 to 45 days
• CTMA CA Modification approval received
TEAM ROLES

• NCMS
  – Project management, contract/legal & accounting administration, quarterly and Final reporting OSD, communication and outreach

• Government
  – Actively participate teleconferences; engaged with and monitors tasks and deliverables

• Industry/Academia
  – Actively involved with communication, cost and schedule
  – Detailed monthly status reports/invoice
TRANSITION Activities

• Develop project success story and announce completion of project (with abstract) in CTMA Connector

• Release Final Report to public, industry (based on terms of agreement with project participants and NCMS policy)

• Showcase Technology

• Brief at CTMA Partners Meeting

• DoD Maintenance Symposium

• JTEG, Joint Technology Enterprise Group

• Initiate Requirements Document, BCA (Government Sponsor)

• Promote benefits across DoD and public sector
Project Transition

Workshop Exercise #3

- Project Examples
- Roadblocks that may prevent or make transition difficult

*Application/Demonstration to Acquisition*
Q&A
THANK YOU
Reference Documents

• Workshop Exercise #1 – CTMA Project Proposals and “Essentials of a Good CTMA Project” for Evaluation
• Cost Share
• Sample MIPR
Cost Share

- Cost Sharing, often referred to as In-kind or Matching refers to the portion of project costs not borne by the Federal Government.

- There are numerous ways for project participants to provide cost share.

- The CTMA program is a very unique program, cost share is required for all initiatives.

- CTMA offers the opportunity to the Government to leverage their initial investment.

MORE FOR THE MONEY!