



**2006 CTMA Symposium**

*"History in the Making"*

March 27th - 29th

Williamsburg, Virginia



# CTMA Program and Symposium Objectives

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L E V E R A G I N G E X C E L L E N C E

# Agenda for Briefing

- Who/What is NCMS
- CTMA Program Fundamentals
- Symposium Structure and Expected Outcome

# Who is NCMS?

...not-for-profit technology, information and education consortium providing value-added products and services that enable **collaboration** and learning among manufacturers

# This is NCMS

- Organized under the National Cooperative Research Act of 1984; formed in 1986
- Largest **cross-industry** collaborative R&D consortium in North America
- Devoted to manufacturing technologies, process, and practices
- Two decades of experience in the formation and management of complex multi-partner collaborative R&D programs

# NCMS Mission

... is to build the global competitiveness and strengthen the US-based manufacturing industry, private and public.

# NCMS Track Record

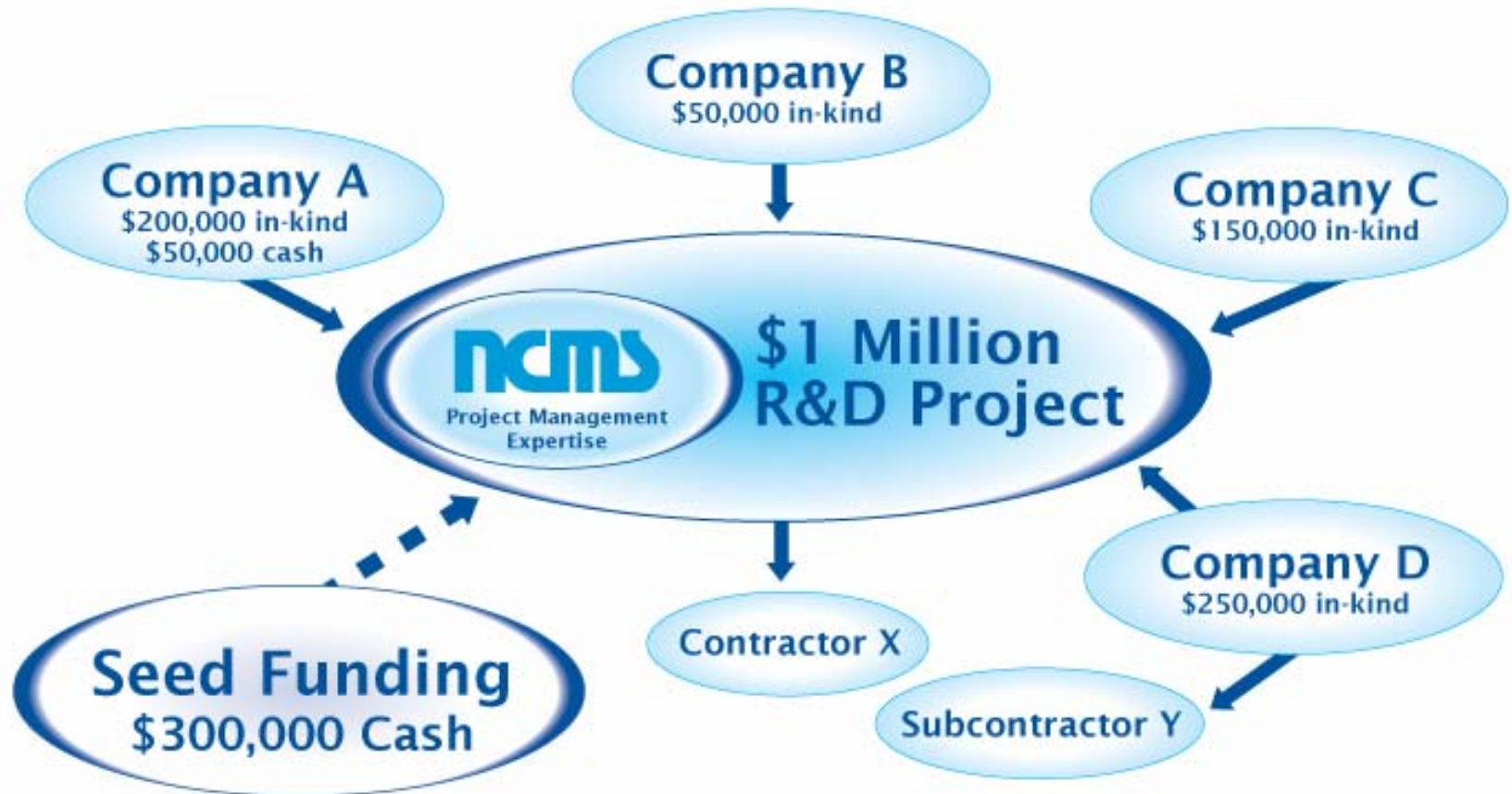
*Nearly two decades of experience in the formation and management of complex multi-partner collaborative R&D programs*

- Over 57 Cooperative Research & Development Agreements and Memoranda of Understanding
- 322 multi-participant projects, \$579M in collaboration funds involving over a 1000 participants and 37 Universities, including
  - Over 151 DoD projects totaling more than \$376 Million
- Four consecutive R&D 100 Awards
- Four Defense Manufacturing Excellence Awards

# Ongoing NCMS Programs: Government Partnerships

- **Department of Defense – CTMA**
- **Department of Defense – Critical asset protection**
- **Environmental Protection Agency – Sustainable Product Initiative**
- **Department of Energy – Manufacturing technologies for alternative energy systems**
- **Department of Labor – Workplace training**
- **Department of Transportation – Heavy Vehicle Fuel Economy Program**
- **City of Washington DC – Technology Transfer Partnership**

# A Typical Project- What We Do



# What is CTMA

Unique DoD/Industry partnership to bring new technologies into the DoD maintenance community to **increase weapon systems readiness** through increased reliability, improved maintenance procedures, and reduced costs.

<http://ctma.ncms.org>

# Program: Commercial Technologies for Maintenance Activities (CTMA)

- Cooperative Agreement between NCMS and the Office of the Secretary of Defense
  - David Pauling, ADUSD (MPMR)
- Participants co-sponsor technology development, deployment, and validation for DoD maintenance facilities
- Industry co-funding on a 2:1 match basis
  - In-kind and/or cost share
- FY'06 CTMA Funding: \$10.2 million

# CTMA Project Launch Process

- Begins with a one page description
  - Submit on-line at <http://ctmaideas.ncms.org>
  - Review one-pagers with DoD Review Team
  - Project team constructs project concept paper (~7 pages long)
- Joint Industry/DoD interest and needs
  - Hard deliverables, strong impact on weapon system readiness
- Cost/Benefits summary sketched out
  - Quantifiable
- Participant roles defined
- Validated Industrial cost-share
- Letter of endorsement from base command
- Submission of concept to Pentagon (Office of Secretary of Defense)
- 20 day turnaround for approval...

# Symposium Structure

- **Tuesday Plenary:**
  - Definitions of Needs
    - Formal presentation followed by open discussions
  - Capturing project benefits and knowledge
- **Tabletop Displays of Projects (Networking Event)**
- **Wednesday Morning Track Sessions: CTMA Active Project Reviews**
- **Lunch – Lt. Gen. Donald J. Wetekam, USAF, HQ USAF/IL**
- **Wednesday Afternoon Track Sessions: CTMA Emerging Project Ideas**
- **Wednesday Closing Plenary Session: Review of New Project Ideas from this Symposium**

# Expected Outcome

- Slate of candidate project ideas for CTMA Program
- Sharing of ideas and knowledge amongst all of us
- Increase your contact list

# 2006 CTMA Plenary Session Candidate Project Ideas

Project:

Problem:

Solution:

DoD Participants:

Industry Participants:

Champion:

# What we need from you:

- Participate
- Represent your company/facility
  - Network

**This is a Working Symposium!**

# Symposium Presentations can/will be found at

<http://ctma.ncms.org/symposium2006/presentations.htm>

There are no links to this site from the CTMA or NCMS website, but is exclusive to you! Take a moment and write it down.

All presentations should be posted (as .pdf files) by the end of next week.

- Any presenters not wishing their brief being posted, please let me know

# Today's Agenda

8:45 – 9:30 "DoD Strategy for Materiel Readiness", *David Pauling, Assistant Deputy Under Secretary of Defense for Materiel Readiness and Maintenance Policy (ADUSD(L&MR)/MRMP)*

9:30 – 10:00 Networking Break

10:00 – 11:00 "Expeditionary Combat Support Systems (ECSS)", *Edwin Kincaid, US Air Force, Oklahoma City Air Logistics Center*

11:00 – noon "Readiness and Maintenance Issues at the Navy Shipyards", *Captain Joseph Campbell, Shipyard Commander, Norfolk Naval Shipyard*

12:00 – 1:30 p.m. Buffet Lunch and Networking

1:30 – 2:30 "Readiness and Maintenance Issues at US Army Facilities", *Michael Burke, US Army, Director of Production Engineering, Anniston Army Depot*

2:30 – 3:30 "Readiness Issues at DLA Facilities", *Karron Small, Defense Logistics Agency*

3:30 – 4:00 Networking Break

4:00 – 4:30 "Capturing and Tracking CTMA Project Benefits", *Gary Waggoner, LogTec*

4:30 – 5:00 "Capturing Project Knowledge", *Bill Chenevert, NCMS*

# Tonight's Reception – Tabletop Displays

1. LENS and M3D
2. 3D High Performance Scanning System
3. Smart Machines II
4. Rapid Manufacturing and Repair
5. Robotic Painting Optimization
6. Heat Transfer Classification for Production Tooling and Composite Repair
7. Advanced Tooling for Hard Chromium Plating
8. Six Sigma for Product Lifecycle Management
9. Assembly, Design and Documentation
10. OptiCAM III
11. Durable Non-Skid Coating for Carriers
12. Gear Isotropic Finish Generation Process Control and Alternate Tooth—by-Tooth Process for Large Gears
13. NCMS Educational Services
14. Legacy Lifecycle Management
15. Casting Knowledge Re-use Based Advisor
16. Direct Part Marking for High Strength Metals and Painted-over Articles
17. Enhanced Wiring Integrity Systems
18. Traceless Object Marking and Sensing Technology
19. Advanced Prognostic and Diagnostic Tools for Maintenance Personnel

# Wednesday Sessions

- Wednesday Morning Track Sessions:
  - CTMA Active Project Reviews
  
- Lunch: Lt. Gen. Donald J. Wetekam, USAF, HQ USAF/IL
  
- Wednesday Afternoon Track Sessions:
  - CTMA Emerging Project Ideas
  
- Wednesday Closing Plenary Session:
  - Review of New Project Ideas from this Symposium

**Let's now get  
down to  
business**