

Surface Engineering Technologies Workshop

OCTOBER 10, 2017





Collaborative R&D
Industry Intelligence
Technology Strategy
B2B Networking
Commercialization
Strategic Planning
Public Contracts
IP Protection

GOVERNMENT COLLABORATIONS



- Collaborative programs, partnerships, and MOUs
- NCMS helps leverage non-traditional suppliers and bolster R&D
- Programs aligned with multiple ongoing Federal initiatives



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NCMS BREADTH & DEPTH

More 350 **APPLIED R&D Projects**

Leveraged \$1.3

BILLION

"500"

YEARS of experience



DoD Partnerships by State





- Venue that streamlines the process
- 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)

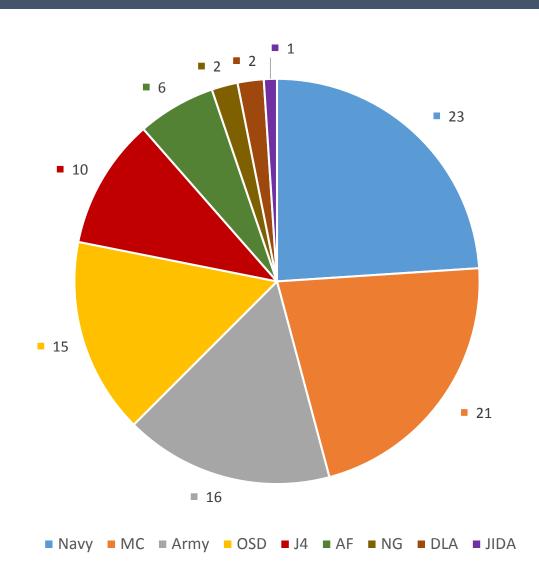
COOPERATIVE AGRENIT





CTMA FEDERAL AGENCY SPONSORED PROJECTS





	Total	Aircraft Focused
Navy	23	4
Marine Corps	21	-
Army	16	-
OSD	15	2
J4	10	5
Air Force	6	6
National Guard	2	-
DLA	2	-
JIDA	<u>1</u>	<u>-</u>
Totals	96	17

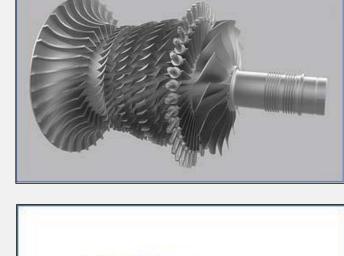


SURFACE ENGINEERING





- T56 Series III, Air Force
- T56 Series IV, NAVAIR
- T55, Boeing, TAPO (Army)
- AGT1500 Army
- T700 NAVAIR











OTHER DOD RELATED ACTIVITIES

- 2017 DoD Advanced Composite Maintainers Technical Interchange Meeting (8/22-24, 2017, Hill AFB)
- NCMS-DOD Maintenance Innovation Challenge
- Monthly Joint Technology Exchange Group (JTEG) Call

09/26/17: JTEG Tech Forum: Laser De-Paint / Automated Painting &

De-painting

10/31/17: JTEG Tech Forum: Point of Maintenance Aids

11/28/17: JTEG Tech Forum: Big Data Analytics

12/19/17: JTEG Tech Forum: Improved Business Processes



ADDITIVE MANUFACTURING

INFIED INITIATIVE

Additive Manufacturing Maintenance Operations

Real Parts Real Repairs Real Time





Additive Manufacturing (AM)
Business Model Wargame II
Discovering Business Processes
Critical to Enabling AM

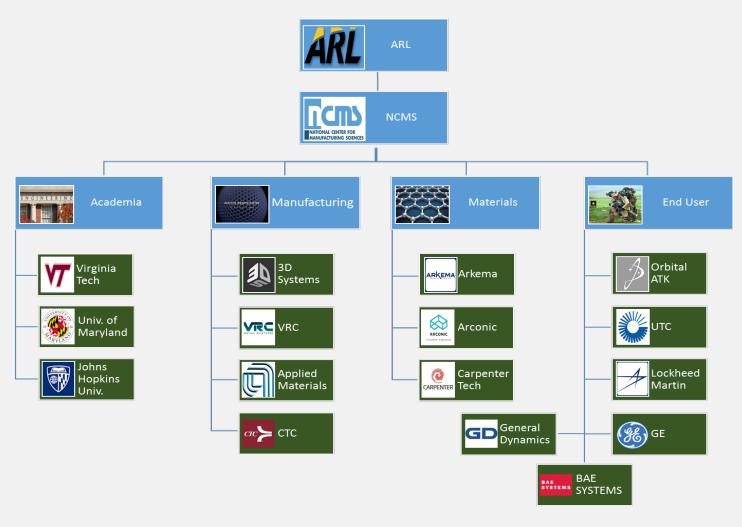
May 16-17, 2017

Lockheed Martin Corporation Global Vision Center Arlington, VA



US ARMY – ADVANCED MANUFACTURING & PROCESSES (AMMP) CONSORTIUM

- **Unprecedented speed** in part production.
- Novel weapon system designs and materials (unattainable with current technology)
- **Dramatic cuts** in cost and delivery times.
- Point-of-need part manufacturing







EMERGING PROJECT WORKSHEET

The Need/Gap Cost "Best Guest Industry Champion(s) Participant Names and Contact Info apable Technolog NCMS, Vice President, Technology

jonr@ncms.org

NATIONAL CENTER FOR MANUFACTURING SCIENCES

Strategic Technology Workshop

WE ARE...

HOW CAN WE WORK TOGETHER?



THANK YOU

Jon Riley jonr@ncms.org 734-995-0556 www.ncms.org