



NATIONAL ADVANCED
MOBILITY
CONSORTIUM

Defense Mobility Enterprise and National Advanced Mobility Consortium

March 2, 2016

Mr. Chris Yunker, President of the NAMC Board of Directors
General Manager – Virginia Operations
Hodges Transportation, NATC



What is the DME and NAMC?

Why Join NAMC?

Membership

What are the Contractual Requirements?

Progress To-Date

FY17 Schedule

Contact Info





DoD

- *Facilitates collaboration* with Service, Industry and Academic SMEs.
- *Leverages* IRAD funding and innovative technologies with U.S. industry and universities.
- Facilitates planning and execution with incremental funding options
- Enables breakthrough technologies to be more accessible to address DoD warfighter requirements
- Permits DoD technical staff to *focus on technology*, not contracting

Industry/Academia

- Enables and increases *business relationships and partnerships*
- Provides more visibility and *higher resolution of technology gaps*
- Allows for open communication/collaboration with DoD technical community during requirements development and project definition activities

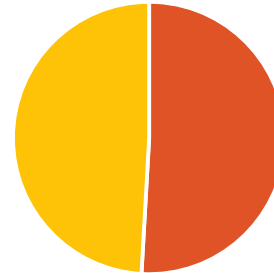
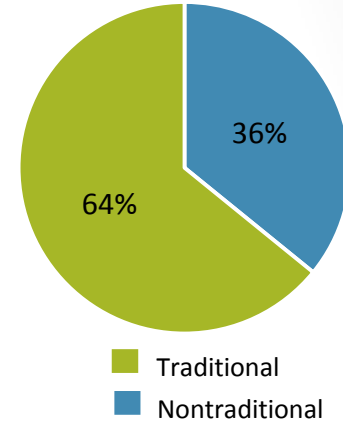
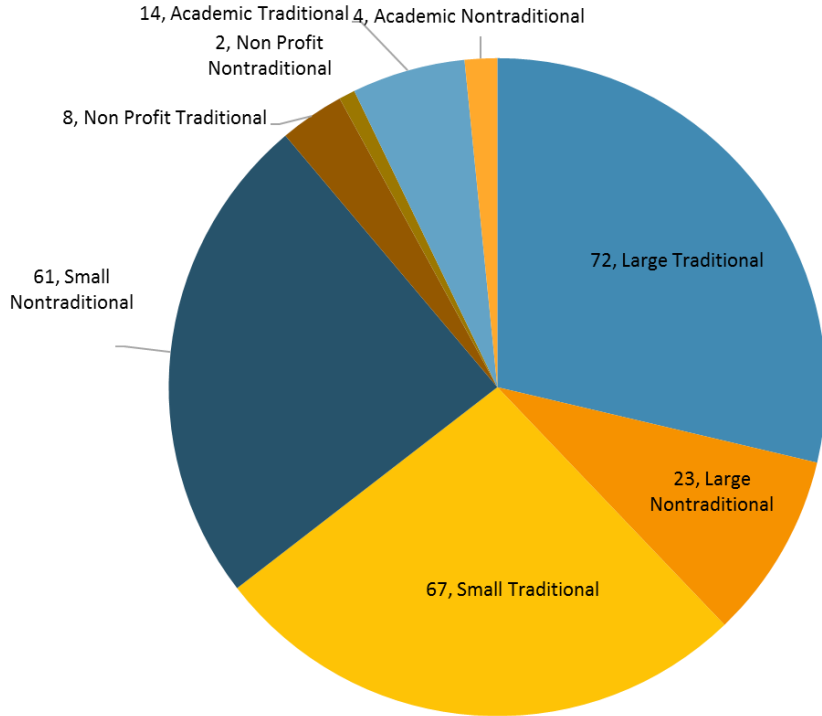
Defense Technology Base

- *Enables a more rapid response* to DoD warfighter requirements
- Provides a focus on the demonstration of prototypes, thus reducing risk in development and production
- Increases the number of private-sector companies participating in Defense technology development



National Advanced Mobility Consortium (NAMC)

Class A (Term Expires Fall 2018)				
Name	Company	Seat	ExCom	Office
Christopher Rohe	Stryke Industries	NT, Defense Supplier	X	
Mike McNair	Univ. of Texas at Arlington Research Institute (UTARI)	Academia/Research	X	
Dan Richard	BAE	Lrg, For-Profit	X	
Paul Luskin	Google [X]	Appointed, NCMS		
Jon Riley	NCMS	Appointed, NCMS		
Dan Deguire	QinetiQ-NA	Appointed, AUVSI		
Class B (Term Expires Fall 2016)				
Tom Frost	iRobot Corporation	Robotics Sr. Executive	X	
Chris Yunker	Hodges Trans.	Sm. Business	X	President
Chris Mentzer	SWRI	Non-Profit	X	
Rebecca Taylor	NCMS	Appointed, NCMS		
Mike Bolon	GDLS	Appointed, NCMS		
Mark Gordon	Stratom	Appointed, AUVSI	X	Vice Chairman
Myron Mills	Lockheed Martin	Appointed, AUVSI		
Parag Batavia	Neya Systems	Ex-Officio, non-voting	X	Past President
Class C (Term Expires Fall 2017)				
Patrick D. Weldon	Polaris Industries, Inc.	Vehicle Sr. Executive	X	Vice President
Jerry Lane	Great Lakes Sys & Tech.	Sr. Technology	X	Treasurer
Rick Jarman	NCMS	Appointed, NCMS	X	Chairman
V. Suzy Young	UA, Huntsville	Appointed, AUVSI		



■ Small Business ■ Other

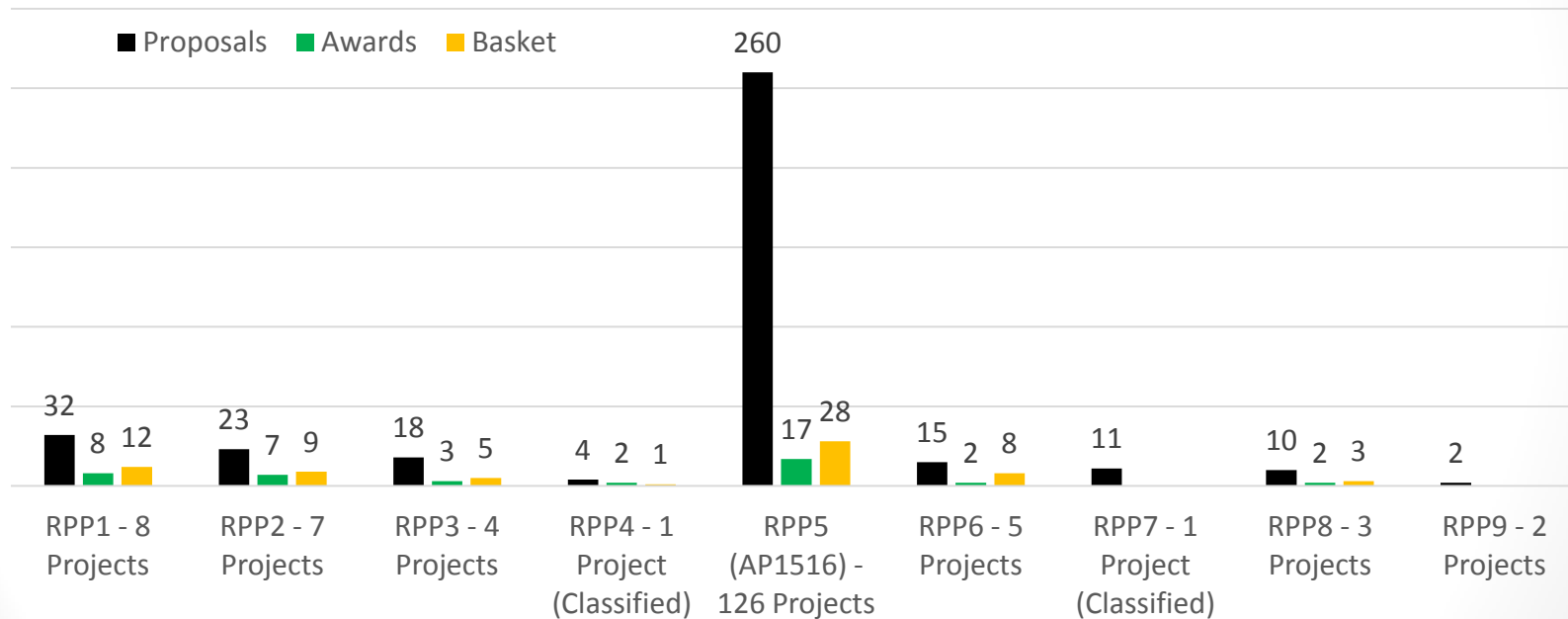


In accordance with provisions contained in 10 USC 2371 governing the use of OTA's, each NAMC Member Organization must have at least one nontraditional defense contractor participating to a significant extent in the performance of an awarded vehicle or robotics project or provide cost share of no less than one third of the value of the Project awarded to the Member Organization.

- **Nontraditional Defense Contractor (NDC) Definition:** An entity that is not currently performing and has not performed, for at least the one year period preceding the issue date of the Request for Project Proposals, any contract or subcontract for the Department of Defense that is subject to full coverage under the cost accounting standards prescribed pursuant to section 1502 of Title 41 and the regulations implementing such section.
- **Cost Share Definition:** Cost sharing is defined as the resources expended by the award recipients on the proposed statement of work (SOW) and subject to the direction of the initiative management.

Request for Project Proposals

Data as of 02/17/16



Research Area	AP1516 Projects	WPs Received	RPP 5 Projects	Proposals Received*	Proposals Evaluated	RPP 5 Awards	Basket
Architecture, Security, and Modularity (ASM)	3	26	1	3	3		
Autonomy	32	158	32	90	57	3	5
Collaboration	2	3	1	0	N/A	N/A	N/A
Mobility	33	101	28	49	37	3	9
Modeling and Simulation (M&S)	11	33	9	23	5		
Petroleum & Water Systems (PAWS)	3	2	2	1	1		
Payload	5	14	5	4	2		1
Platform	12	41	11	22	21	2	2
Powertrain	3	14	3	7	7	1	2
Survivability	42	142	33	59	51	8	9
Test and Evaluation (T&E)	2	5	2	2	2		
Total	148	552	126	260	186	17	28

*This number has been adjusted (less 6) to accommodate proposals received but moved or withdrawn

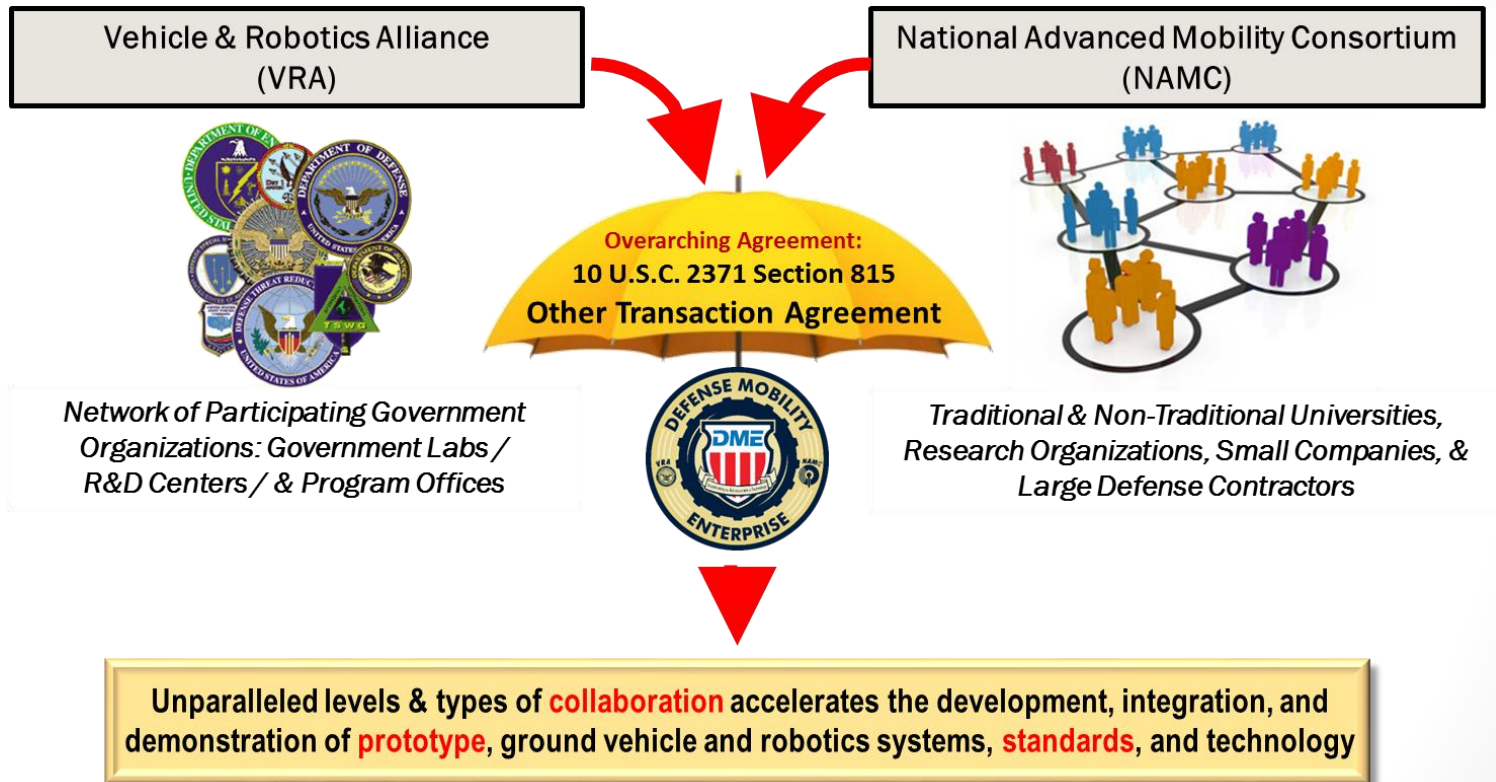
- **Projects focused on technical (or other) issues of common interest to the Government and NAMC members *writ large***

Develop, mature, enhance, maintain, propagate, and support open architectures, open source software, and other standards

- **General concept is to leverage, build off of, and encapsulate members' expertise into standards, tools, and know-how that benefit all**
- **Members undertake projects on behalf of the entire consortium, not their company or organization**
- **All results and outcomes are Government property**



Unique to the OTA



- **Community of Interest (COI) - NAMC members with existing subject matter expertise willing and able to voluntarily contribute to the task request (oftentimes organized into working groups)**
 - *Actively participate in virtual and in-person meetings and discussions*
 - *Provide input and recommendations on key issues*
 - *Review deliverables, provide feedback, and help seek consensus*

- **Core Team** – subject matter experts competitively selected from among NAMC members
 - *compensated for their time*
 - *help organize, lead, and coordinate the contributions of the COI*
 - *develop the deliverables*
 - *otherwise ensure the success of the task request*

- White Papers and Proposals are Solicited from NAMC Members to Participate in the COI and Propose Individuals for the Core Team
- White Papers and Proposals are Reviewed to Organize Working Groups, Identify the Core Team, and Prepare a Final Proposal
- Upon Government Acceptance, P.O.s are Issued to the Core Team
- In-person and WebEx COI and working group meetings are organized to provide input and feedback on the deliverables developed by the core team
- Training and support services are provided to NAMC members to propagate use of the deliverables



Task Requests

RTC OTA TR01 –
Common
Controller
Software
Architecture
(CCA)

Now GVS
OTA TR05

RTC OTA TR02 –
Interoperability
Profiles
Standard (IOP)

Will move
to the
GVS OTA

GVS OTA TR01
Modular Active
Protection
System
Framework
(MAF)

Project in
Process

GVS OTA TR02 –
Conformance
Verification Tool
(CVT)

No Cost
Task
Request

GVS OTA TR03 –
VICTORY

Project is
in
Progress

GVS OTA TR04 -
Military Robotic
Operating
System (ROS-M)

\$250k

Proposal
Response
Due
02/11

GVS OTA TR05 –
CCA

~\$425k

In Legal at
ACC-NJ

GVS OTA TR06 –
MAF Int'l COI
Subgroup

Seed
Stage



RAS Specific Task Requests

Common Controller (CCA)

- **Development of a prototype architecture, implementation and demonstration of first reference implementation software, and commence propagating among NAMC members**

Interoperability Profiles (IOP)

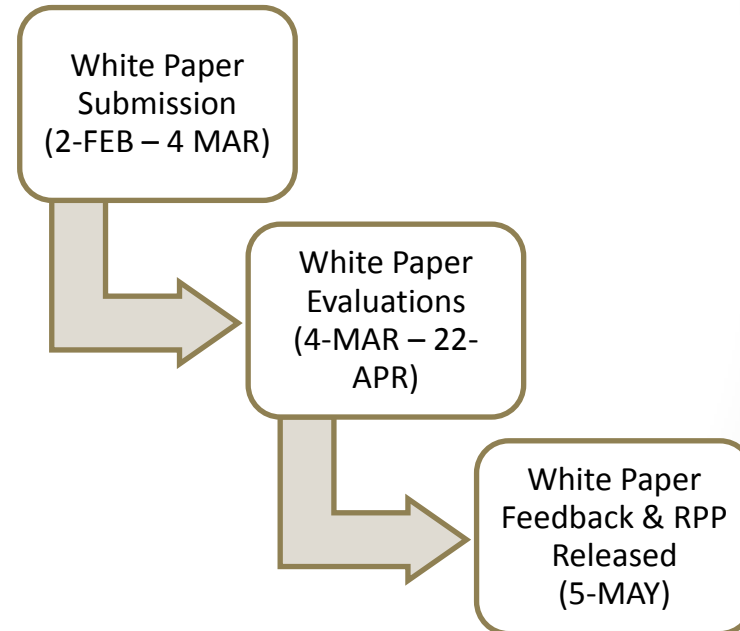
- **Develop new standardized baseline instantiations (SBIs) (e.g. SMETS), organize IOP V3 working groups, and provide ongoing support and maintenance services is being initiated as a new task request**

Military Variant of ROS (ROS-M)

- **Solicit and incorporate feedback on a Concept Definition Document from NAMC members, further investigate various aspects, and produce a detailed implementation plan for the Government**

Research Area	AP Projects
Architecture, Security, and Modularity (ASM)	3
Autonomy	4
Collaboration	14
Mobility	8
Modeling and Simulation (M&S)	2
Fuels and Lubes	5
External Systems (Payloads)	1
Platform	4
Powertrain	0
Survivability	40
Test and Evaluation (T&E)	0
Total	81

Immediate Next Steps...



FY17 Annual Cycle Schedule

NAMC Good Idea Submission Phase	3 Aug – 28 Aug 2015
NAMC General Membership Meeting	3 Aug 2015
GVSETS/DME Collaboration Days	4 Aug – 6 Aug 2015
VRA Deadline for New Project Input	30 Nov 2015
Draft FY17 Annual Plan: NAMC for Comment Phase in BIDS	1 Dec – 8 Jan 2016
VRA PO Deadline for Project Revisions	15 Jan 2016
Publish RPP to NAMC Members via NAMC Member Site	2 Feb 2016
NAMC General Membership Meeting	9 Feb – 11 Feb 2016
NAMC Whitepaper Submission Phase	2 Feb – 4 Mar 2016
VRA Whitepaper Evaluation Deadline	22 Apr 2016
Whitepaper Feedback Released to NAMC	5 May 2016
NAMC Proposal Submission Phase	5 May – 30 Jun 2016
VRA Proposal Evaluation Phase	1 Jul – 31 Aug 2016
Annual Plan Awards Begin	Sep – Nov 2016

* Dates are considered “Best Estimates” which may change periodically.



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- Public Site
 - Information on the Enterprise
 - Links to NAMC and VRA

www.DefenseMobility.org



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 - About
 - Annual Plan Process
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 - RPP Information
 - Award Announcements
 - Current Annual Plan
 - Meeting Proceedings
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<https://NAMConsortium.org>

