



TARDEC Dual Use Technology Briefing



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

National Automotive Center Tech Transfer Team

July / August 2009

Pete DiSante, Jim Mainero, Martin Novak

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 01 JUL 2009		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE TARDEC Dual Use Technology Briefing				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S) Pete DiSante; Jim Mainero; Martin Novak				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) US Army RDECOM-TARDEC 6501 E 11 Mile Rd Warren, MI 48397-5000				8. PERFORMING ORGANIZATION REPORT NUMBER 20027RC	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S) TACOM/TARDEC	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S) 20027RC	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES The original document contains color images.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT SAR	18. NUMBER OF PAGES 14	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Partnership Intermediaries (DoD)

Licensing of patented technologies

First Responder
Technology Transfer

TechLink

www.techlinkcenter.org

SpringBoard

www.gospringboard.org

FirstLink

www.dodfirstlink.com

Partnership Intermediary (Local)

Automation Alley

www.automationalley.com

- **Testing Services Agreements**
- **Education Partnerships**
- **Cooperative Research And Development Agreements (CRADA)**
- **Small Business Innovation Research (SBIR)**



- **Allows commercial entities to utilize unique capabilities of Government labs**
- **Government is reimbursed for operational and equipment expenses**
- **Cannot compete with private industry**
- **Test data belongs only to customer**



- **Encourage, enhance study in scientific disciplines;**
- **Set up with US non-profit educational institutions dedicated to improving science, math & engineering education;**
- **Provide assistance by...**
 - **Loaning or transferring equipment**
 - **Making lab personnel available**
 - **Involving students and faculty in research**
 - **Providing academic and career advice**



Cooperative Research
CRADA
And Development Agreement



- Created by the Federal Technology Transfer Act of 1986
- Extends to all government-owned laboratories
- Defined in U.S. Code, Title 15, Section 3710a
- Not a procurement contract; Federal Acquisition Regulations do not apply



- **Between Government Laboratories and commercial, academic, government or association partners;**
- **Facilitate technology transfer between the parties;**
- **Partner contributes personnel, services, property and funding;**
- **Government contributes all the above, except funding.**



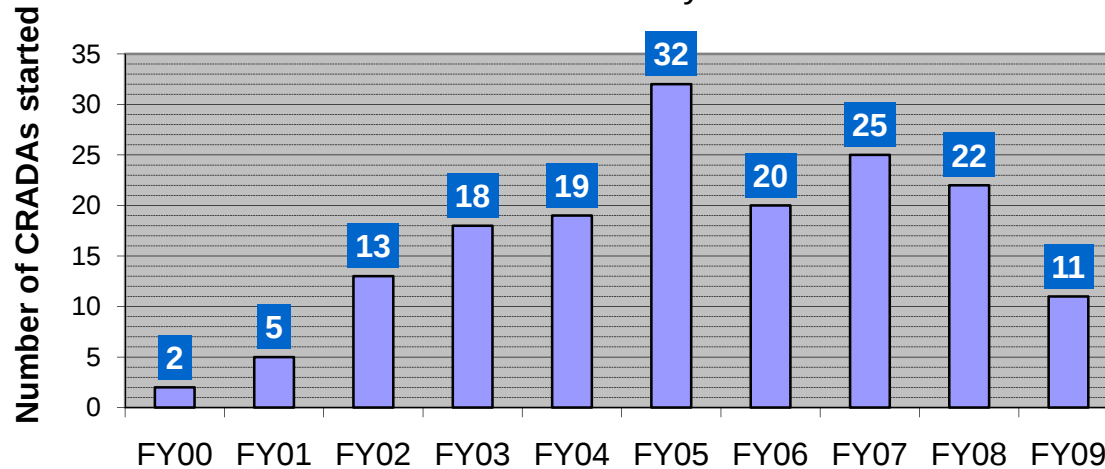
- **Quick** - Typically established within 60 days of initiation.
- **Flexible** - Leveraging of resources; each party pays for their tasks under flexible Statement of Work (SOW).
- **Mutually Beneficial** - Encourages cooperative R&D; partner has option to license exclusively technology Army invents under the CRADA.
- **Safe** - Proprietary information protected; all inventions developed under CRADA belongs to inventing party.
- **Simple** - Conditions and basic rights set forth in clear and concise language.



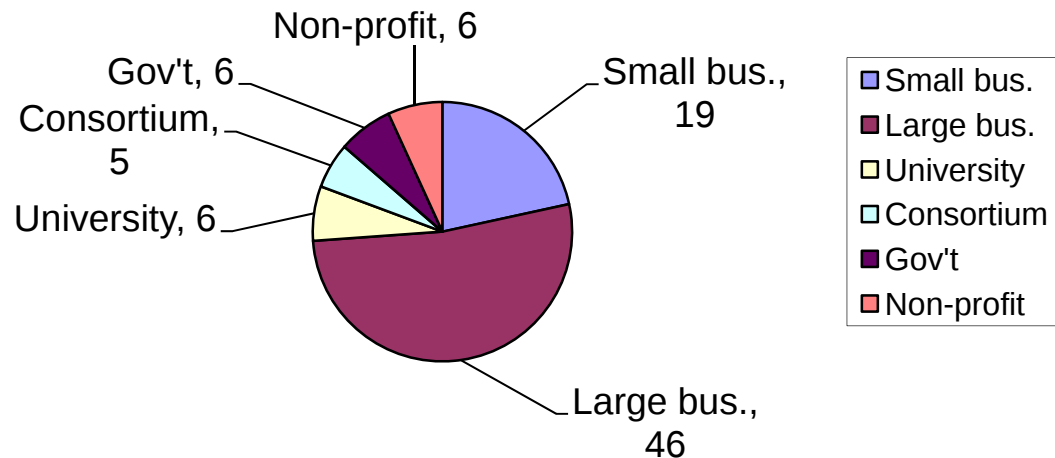
- **Duration – Typically 3 years; renewable.**
- **Termination – Upon expiration, by mutual consent, or unilaterally (with written notice).**
- **Multiple CRADAs – A partner may have more than one CRADA with TARDEC simultaneously.**
- **Special Agreements**
 - Master Agreement: many SOW's under one contract
 - 3-way: more than one partner
 - Foreign partner: requires approval from trade rep.



CRADA Starts by FY



CRADA Partner Category





CRADA/SBIR – NAC Homepage



National Automotive Center (NAC)

National Automotive Center (NAC)

Broad Agency Announcement

CRADA

Education Partnership Agreement

Patent License Agreement

SBIR

Test Services Agreement

Unsolicited Proposal



Chartered by the Secretary of the Army 21 June 1993

Mission

The Center will serve as the Army focal point for the development of dual-use automotive technologies and their application to military ground vehicles. It will focus on facilitating joint efforts between industry, government and academia in basic research, collaboration, technology, industrial base development and professional development.

Introduction

The NAC, founded in 1993, is the DoD/Army focal point for collaborative ground vehicle research and development (R&D). The NAC, located at the Tank-Automotive and Armaments Command (TACOM), is an integral part of the Army's Tank-Automotive Research, Development and Engineering Center (TARDEC). The NAC serves as a catalyst linking industry, academia and government agencies in the development and exchange of automotive technologies. The NAC leverages government, commercial industry and academia R&D investments, and initiates shared automotive technology programs. Its primary focus is to benefit current and future military ground vehicle systems through: performance improvements, service life extensions, and reduction in ground vehicle design/manufacturing/production/operation/support costs.

Key Collaborative Mechanisms Used

The NAC employs several key mechanisms to leverage investments in automotive technology R&D and for initiating shared technology programs. These mechanisms include: Collaborative automotive technology contracts, Small Business Innovative Research (SBIR) contracts, Cooperative Research and Development Agreements (CRADA) and Cooperative Agreements. The NAC also sponsors an academic Center of Excellence for Automotive Research

<http://tardec.army.mil/nac.asp>

Webmaster






GROUND VEHICLE GATEWAY

U.S. ARMY TANK AUTOMOTIVE RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

TARDEC Technology Submission

Soldiers are our NUMBER 1 priority. Help us make them your priority as well. Submit your ground vehicle systems technology concepts, ideas and innovations to TARDEC today using the electronic submission form below. Your submission will be treated confidentially, and a TARDEC technologist will thoroughly evaluate your proposal.

For all other inquiries, click on this link: <http://tardec.army.mil/contact.asp>.

Your Submission

* Submission Title:

* Submission:

Maximum 8,000 characters

Documents:

Click "Browse" and select the file you want to attach.
Typing file names in the fields above will not attach your files.

* Business Name:

Industry:

* Name:

Job Title:

Address 1:

Address 2:

City:

State:

Zip Code:

* Business Phone:

Mobile Phone:

Fax Number:

* E-mail:

Web Address:

<https://tardec.groundvehiclegateway.com/>

- ❖ Online tool for technology submissions
- ❖ Formally announced at SAE World Congress 20 April 2009

