COOPERATIVE RESEARCH and DEVELOPMENT AGREEMENT (CRADA)

National Small Business Conference

National Defense Industrial Association (NDIA) Los Angeles Airport Marriott June 1-2, 2005



Agenda

- CRADA Definition
- Public Law / General Authority
- Specific Legislative Authorities
- Award Considerations
- Partners Who Can Play ?
- Conceiving the CRADA
- Developing the CRADA Agreement
 SYMVIONICS CRADA Examples



DEFINITION

Cooperative Research and Development Agreement (CRADA):

A legal agreement between a federal laboratory and a non-federal party to conduct specified research or development efforts that are consistent with the missions of the federal laboratory



Public Law / General Authority

- Stevenson-Wydler Technology Innovation Act of 1980. Public Law 96-480
- Federal Technology Transfer Act of 1986. Public Law 99-502
- 15 USC Sec. 3710a: General Authority
 - Established Office of Research and Technology Applications (ORTA) in Govt. laboratories
 - Permitted all Federal laboratories to enter into CRADAs with other business entities (OBE)
 - Permitted negotiation of license agreements between Govt. and OBE



Specific Legislative Authorities

- Laboratory may license, assign or waive its rights to intellectual property
- Laboratory may grant patent license for invention to collaborating OBE
- Laboratory may grant patent license to OBE for invention made prior to CRADA
- Laboratory shall ensure OBE retains title to OBE inventions
- And, most importantly...



Specific Legislative Authorities (cont.)

 Laboratory may accept, retain and use funds, personnel, services, equipment and property <u>from</u> OBE and provide personnel, services, equipment and property <u>to</u> OBE towards the conduct of R&D efforts consistent with the efforts of the laboratory



CRADA Award Considerations

- CRADA selection done by the Director of Govt. Laboratory (delegated to ORTA)
- CRADA selection not subject to FAR (because no funds go from Govt. to OBE)
- 'Special consideration' given to small business in CRADA selections
- 'Preference' given to CRADAs which manufacture the product in U.S.
- Typical CRADA term is 3 to 5 years
- Research results exempt from FOIA disclosure for 5 years



CRADA Partners - Who Can Play?

 Any Govt. owned Federal laboratory, or any GOCO laboratory (if CRADA included in strategic plan or as joint work statement),

and...

 Other Business Entities (OBE) such as Federal agencies; State/local Govt.; corporation / LLC / partnership; foundations; Non Profit Org; even individual person



Conceiving the CRADA

CRADA must benefit BOTH parties

Theme: Technology Transfer

- Technology developed with public funds transferred to private sector for commercial use
- Technology developed by private sector transferred to Govt. for Govt. (military) use

Define the Goals for each party

- Advance the research
- Prototype development
- Commercialization
- Product improvement
- Positive Public Relations



Conceiving the CRADA (cont.)

- Estimate the "Value" of the Goals to Each Party
- Define Each Party's Contribution
 - Funds (license agreement)
 - Personnel (scientists, managers, admin asst)
 - Services (network admin, metrology)
 - Equipment (office, lab test, aircraft)
 - Property / facility (runway, control room, building)
 - Other (unlimited, except for Govt. \$)
- Return On Investment (ROI)
 - "Dollarize" the contributions from both sides
 - Are the costs worth the investment ? ROI>1 ?
- Good to Go !



Developing the CRADA Agreement

Formats/Templates

- Air Force AFI 61-302 Cooperative Research and Development Agreements
- Standard Navy CRADA 5th Edition, rev 1, May 2002
- Typical Sections of Air Force CRADA Agreement
 - CRADA number
 - Preamble
 - Definitions
 - Work Plan
 - Financial Obligations



Developing the CRADA Agreement

- Typical Sections of Air Force CRADA Agreement (cont.)
 - Patents / Copyrights
 - Proprietary Information
 - Term / Modifications / Disputes
 - Representation and Warranties
 - Liability
 - General Terms and Provisions
 - Notices
 - Approval Signatures
 - Appendix A Work Plan



SYMVIONICS CRADA Examples

- Air Force AF Flight Test Center, EAFB
 - Interactive Analysis and Display System (IADS®)
 - DeltaSym™

NASA – Ames Research Center

 Comprehensive Identification from FrEquency Responses (CIFER®)

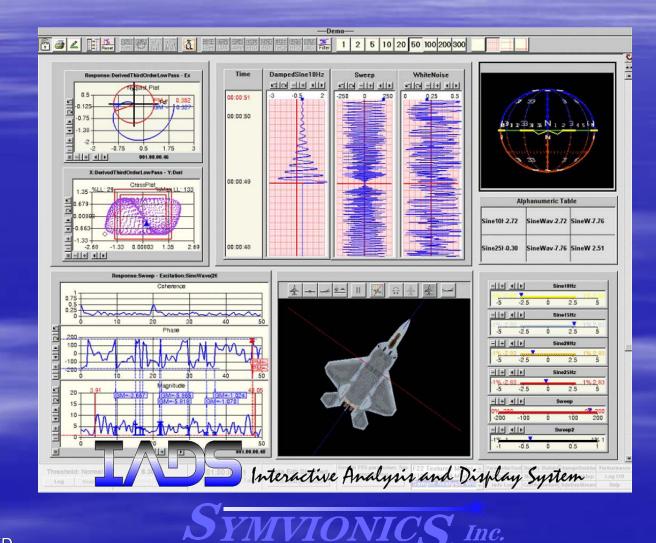


SYMVIONICS CRADA - JADS®



1-2 June 2005 UNCLASSIFIED SYMVIONICS, Inc.

SYMVIONICS CRADA - IADS®



Inc.

SYMVIONICS CRADA - IADS®

- Highlights of CRADA Agreement
 - Allows commercialization of IADS
 - Allows sales of IADS to major defense contractors and commercial aircraft mfgrs.
 - Extends IADS use to other Air Force & Navy bases, NASA
 - Provides funds and public relations to AFFTC
 - Provides equipment, facilities and public relations to SYMVIONICS
 - ROI for both parties >> 1



SYMVIONICS CRADA - DeltaSymm





SYMVIONICS CRADA - DeltaSymm





SYMVIONICS CRADA -DeltaSym

- Highlights of CRADA Agreement
 - Allows commercialization of DeltaSym
 - Will provide funds and public relations to AFFTC
 - Will provide equipment, facilities and public relations to SYMVIONICS
 - ROI for both parties = ???

