



CRADAs for DDX Program Acquisition Support

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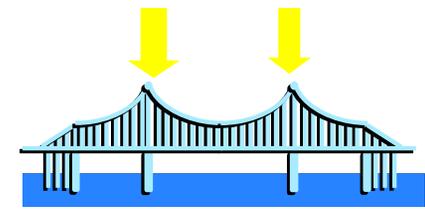
Cooperative Research & Development Agreements (CRADAs)

- Agreements between Navy Lab and one or more non-Federal parties to perform cooperative and mutually beneficial R&D consistent with lab mission
- Navy Lab may provide personnel, services, facilities and equipment, but not funds, to a non-Federal party
- Non-Federal parties may provide all of the above AND funds
- Preference for small businesses and businesses agreeing to manufacture products substantially in the U.S.



Cooperative Research & Development Agreements (CRADAs)

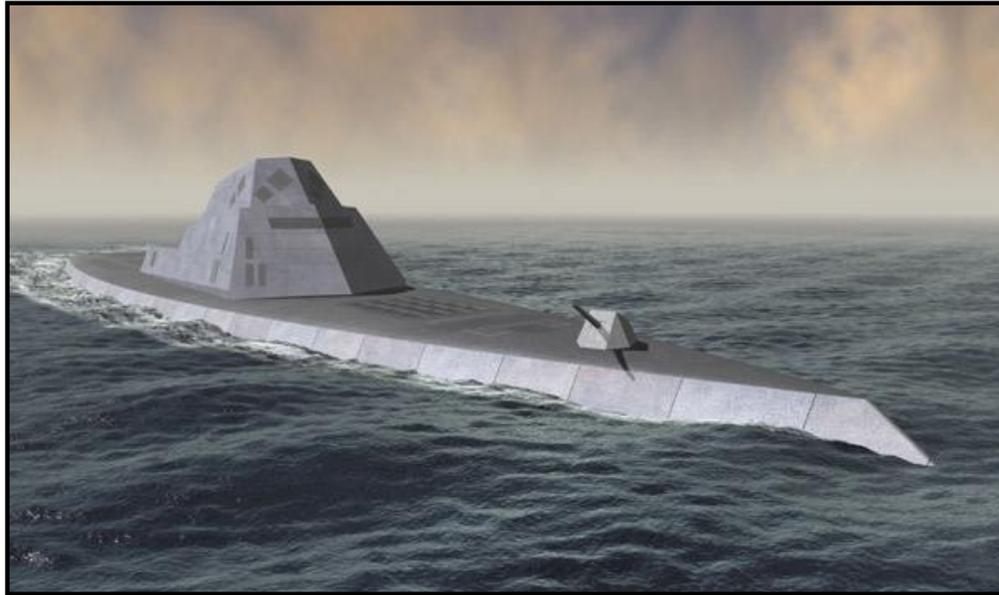
- Protection of intellectual property rights covered in CRADA document
- Provides essential know-how when combined with patent licensing agreement
- Utilization of unique facilities and expertise



Access to Unique Capabilities and Facilities

- Test and Evaluation services in support of the DD(X) concept and engineering development.
- Performance analysis of the effectiveness of signature control in defense against sonar detection and on ASW performance.
- Research and Development of IUSW technical areas such as High Frequency Sonar design for In stride Mine Avoidance, Torpedo Defense, Situational Awareness, and ASW.
- Performance analysis of the DD(X) baseline ASW systems suite through modeling and simulation.
- Performance assessment of the baseline ASW suite against the operational situations presented in the Design Reference Missions (DRMs).
- Integration of the DD(X) EDM hardware and software in the LBITS facility prior to ship board installation.

DDX CRADAs



OBJECTIVE

- Provide NUWC-unique expertise and engineering services to assist DD(X) Engine EDM design, engineering development, and test and evaluation.

PAYOFF

- Most technologically advanced warship ever built with reduced manning, lower acquisition cost and reduced operating cost.

PRODUCTS

- ASW Effectiveness Study
- DD(X) Signature Analysis
- TEMPALT for gray ship test
- Operational Environmental Assessment
- Briefings and technical reports

CRADA PARTNERS

- Raytheon
- Northrup Grumman
- Lockheed Martin
- NUWC Division Newport
Project leader: Janet Huntley,
Sensors and Sonar Systems Dept.



Summary

- CRADAs utilized to provide support to DDX program
- CRADAs with three major defense contractors
- Leveraged Division's IUSW and ASW expertise
- Financial savings for Navy