

SERDP Funding Opportunities

Dr. Jeffrey Marqusee
SERDP Executive Director





DoD's Environmental Technology Programs



Science and Technology

Demonstration/ Validation

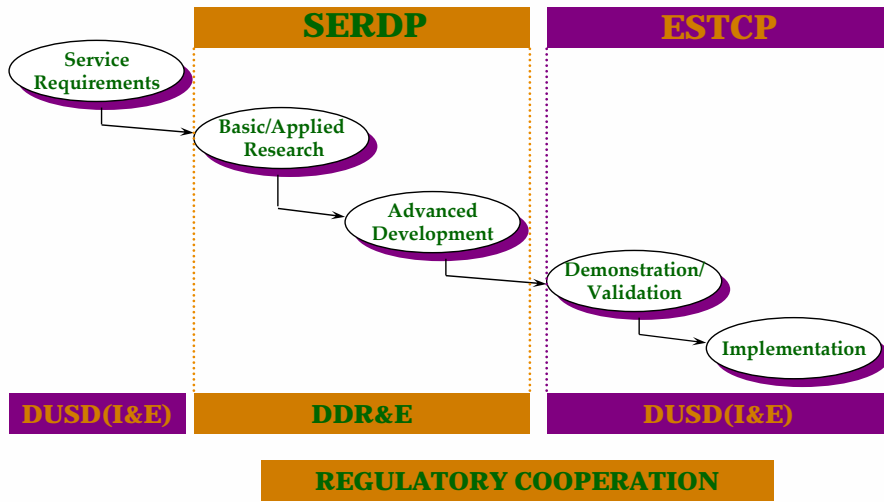


Strategic Environmental Research & Development Program (SERDP)

- Established by Congress in FY 1991
 - ◆ DoD, DOE, and EPA partnership

- SERDP is a requirements driven program that:
 - ◆ Identifies high-priority environmental science and technology investment opportunities that address DoD requirements
 - Advanced technology development to address near term needs
 - Fundamental research to impact real world environmental management

Environmental Technology Development Process



Environmental Drivers

Sustainability of Ranges, Facilities, and Operations



Maritime Sustainability
Threatened and Endangered Species



Toxic Air Emissions and Dust



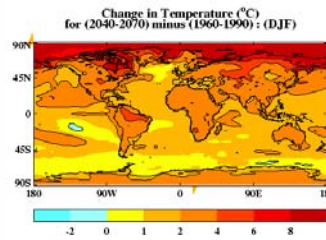
UXO & Munitions
Constituents



Noise



Urban Growth &
Encroachment



Climate Change

Environmental Drivers Reduction of Current and Future Liability

Contamination from Past Practices



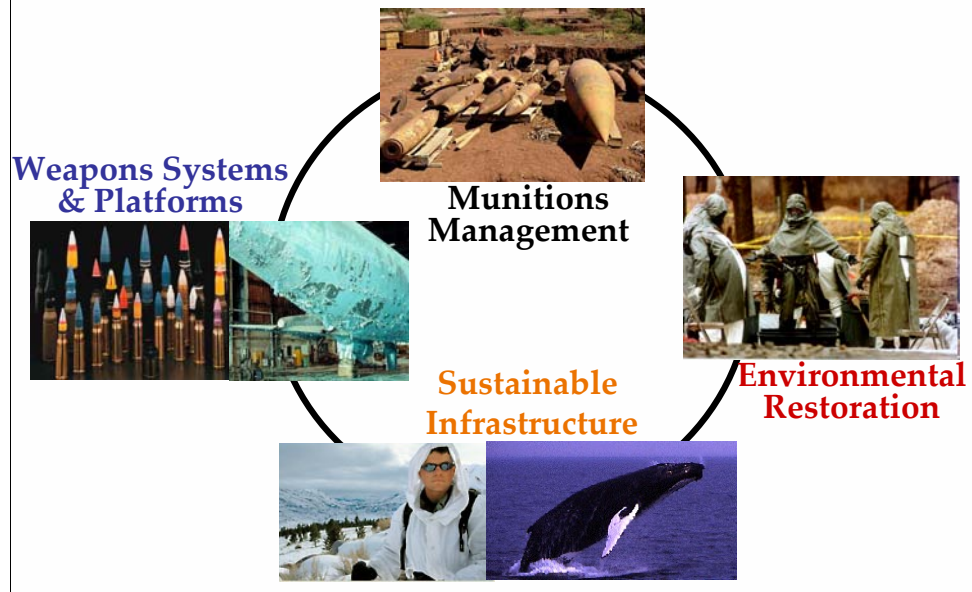
- Groundwater, Soils and Sediments
- Large UXO Liability
- Emerging Contaminants

Pollution Prevention to Control Life Cycle Costs

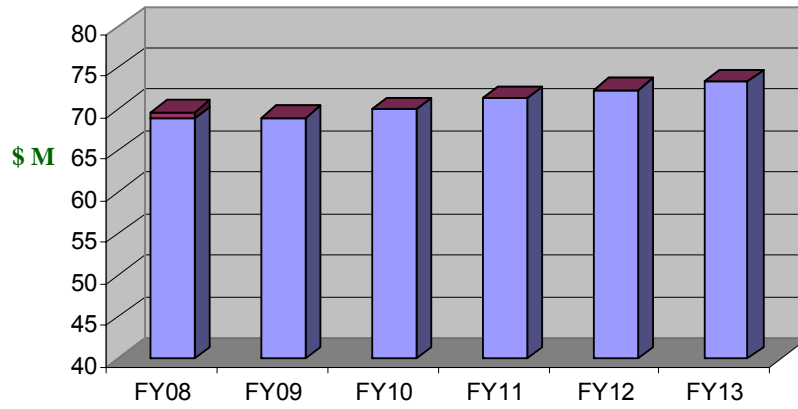


- Elimination of Pollutants and Hazardous Materials in Manufacturing Maintenance & Operations
- Achieve Compliance Through Pollution Prevention

Focus Area Management Structure



SERDP Funding

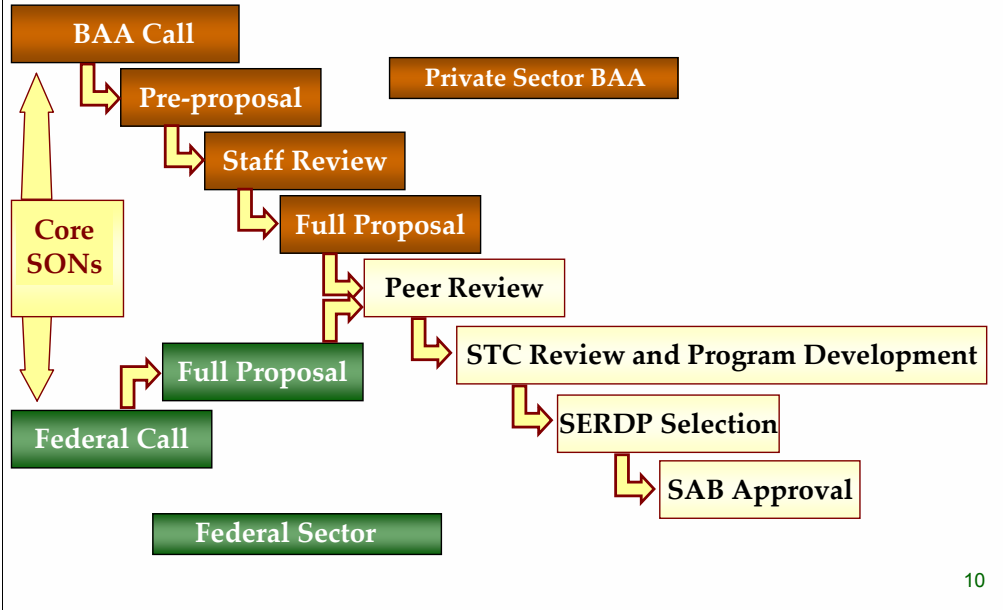


 = Congressional Adds

SERDP Solicitations

- CORE Statements of Need: 16 SONs
 - ◆ Multiple awards per SON
 - ◆ Multi-year Proposals & Limited Scope Proposals
 - ◆ Broad Agency Announcement (BAA)
 - Universities, Industry and non-governmental organizations
 - Pre-proposal required
 - ◆ Federal Call
 - Fixed number of multi-year proposal per agency
 - No restriction on limited scope proposals
- SEED Statements of Need: 3 SEED SONs
 - ◆ \$150K or less and approximately 1 year
 - ◆ Seeks innovative high risk and high payoff work
 - ◆ BAA and Federal Call

Core Solicitation Process





Core Solicitation Dates

- Broad Agency Announcement
 - ◆ Pre-proposals due: 4 PM January 7, 2010
 - Full Proposal requested by: February 4, 2010
 - ◆ Full proposals due: 4 PM March 11, 2010

- Call to Federal Agencies
 - ◆ Full Proposals due: 4 PM March 11, 2010
 - Check with agency's POC to determine internal due dates

- Proposers notified July 2010
- SAB Presentation (if required) Sept. or Oct. 2010

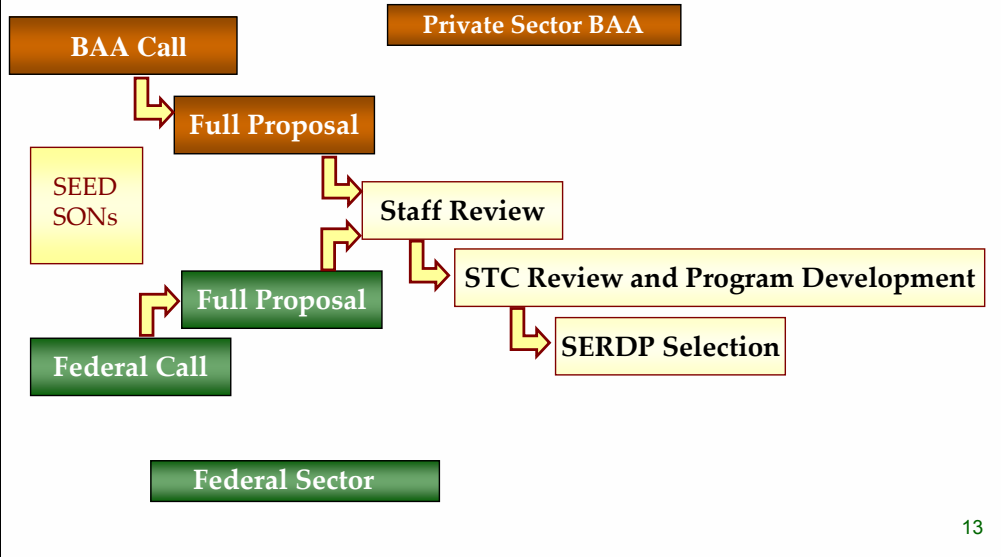
Visit the SEDRP web site for Details
www.serdp.org/funding

FY10 Core Solicitation Success Statistics

| | Pre-proposal to SAB | Full Proposal to SAB |
|--------------------------|---------------------|----------------------|
| SERDP BAA | 13% | 33% |
| SERDP Federal | - | 20% |
| SERDP All | - | 27% |
| NIEHS* | - | 18% |
| NIH* (R01 equiv.) | | 23% |
| NSF* (overall) | - | 25% |
| Engineering | - | 20% |
| Environmental Biology | - | 20% |
| Geosciences | - | 31% |

* Award percentages in 2008

SEED Solicitation Process



SEED Solicitation Dates

- SERDP SEED Solicitation
 - ◆ Proposals due by: 4 PM March 11, 2010
 - Government, Universities, Industry and NGO
- Proposers notified July 2010

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FY11 Statements of Need



FY11 Statements of Need

- Environmental Restoration
 - ◆ Determination of the Environmental Impacts of Munitions Compounds in the Marine Environment
 - ◆ Groundwater Fate, Transport & Treatment of Perfluoroalkyl Contaminated Groundwater
 - ◆ Improved Understanding of Impacts to Groundwater Quality Post-remediation
 - ◆ Improved Assessment of the Munitions Constituent Source Term on Operational Ranges
 - ◆ In-Situ Remediation of Contaminated Aquatic Sediments - SEED

FY11 Statements of Need

- Sustainable Infrastructure
 - ◆ Impacts of Climate Change on Alaskan Ecological Systems
 - ◆ Behavioral Ecology of Cetaceans
 - ◆ Ecological Forestry and Carbon Management
 - ◆ Ecology and Management of Source-sink Populations

FY11 Statements of Need

- Weapons Systems and Platforms
 - ◆ Development of Alternatives to Copper-Beryllium and Aluminum-Beryllium Alloys For Military Applications
 - ◆ Environmentally Benign, Insensitive, Castable, High-Performance, Minimum-Smoke Rocket Propellant
 - ◆ Understanding the Corrosion Protection Requirements for Adhesive Bond Primers
 - ◆ Combustion Science to Reduce Emissions from Military Platforms Burning Alternative Fuels
 - ◆ Environmentally Benign Low Observable Coating Removal Technologies (Restricted to U.S. Government Organizations Only)
 - ◆ Replacement of Hexachloroethane in Handheld Obscurants -SEED

FY11 Statements of Need

- **Munitions Management**
 - ◆ Advanced Technologies for Detection, Discrimination, and Remediation of Military Munitions on
 - ◆ Improvements in the Detection and Remediation of Military Munitions Underwater
 - ◆ Methods to Support Risk-based Decisions on Munitions Response Sites
 - ◆ Advanced Technologies for Detection, Discrimination, and Remediation of Military Munitions on Land and Underwater - SEED

Core Selection Criteria

- Relevance (Pass/Fail)
 - ◆ Does it address the SON Objective?
 - ◆ Is it basic research, applied research, or advanced technology development?
- Technical Merit
 - ◆ Overall scientific and technical merit of the submission
- Personnel
 - ◆ Qualifications capabilities and achievements
- Cost
 - ◆ Reasonableness for the technical complexity
- Transition Plan
 - ◆ Plan to transition to implementation or future development

SEED Selection Criteria

- **Relevance (Pass/Fail)**
 - ◆ Does it address the SON Objective?
 - ◆ Is it basic research, applied research, or advanced technology development?
- **Technical Merit**
 - ◆ Overall scientific and technical merit of the submission
 - ◆ Strong consideration will be given to innovation
- **Transition Potential**
 - ◆ Clear identification of the critical proof of concept
 - ◆ Identification of the future development path

Hallmarks of a Competitive Proposal

- Clearly Addresses the Statement of Need
- Demonstrates an understanding of the State of the Science
- Hypothesis Driven Work
- Focused on the Technical Approach
 - ♦ Detailed approach
 - ♦ Clear experimental design



SERDP

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SERDP and ESTCP**



Partners in Environmental Technology
Technical Symposium and Workshop

**December 1-3, 2009
Marriott Wardman Park Hotel
Washington, D.C.**



SERDP Website

SERDP STRATEGIC ENVIRONMENTAL RESEARCH
& DEVELOPMENT PROGRAM

www.serdp.org

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