SERDP Funding Opportunities

Dr. Jeffrey Marqusee
SERDP Executive Director

DoD's Environmental Technology Programs

SERDP

ESTCP

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

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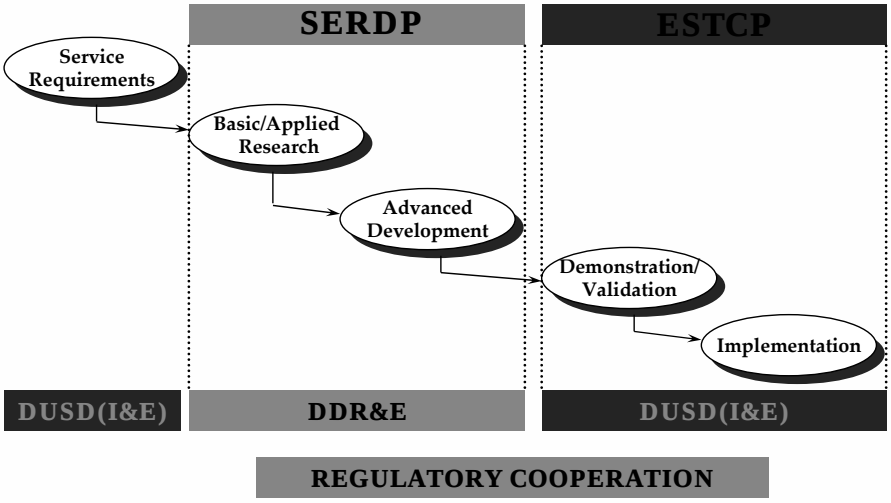
Environmental Technology Development Process



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Environmental Drivers

Sustainability of Ranges, Facilities, and Operations

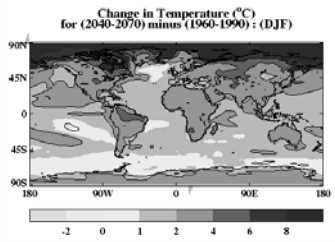
Maritime Sustainability
Threatened and Endangered Species

Toxic Air Emissions and Dust

Noise

UXO & Munitions
Constituents

Urban Growth &
Encroachment

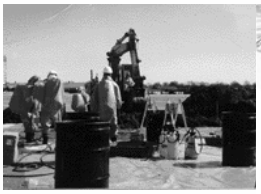


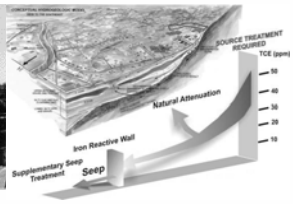
Climate Change

Environmental Drivers

Reduction of Current and Future Liability

Contamination from Past Practices



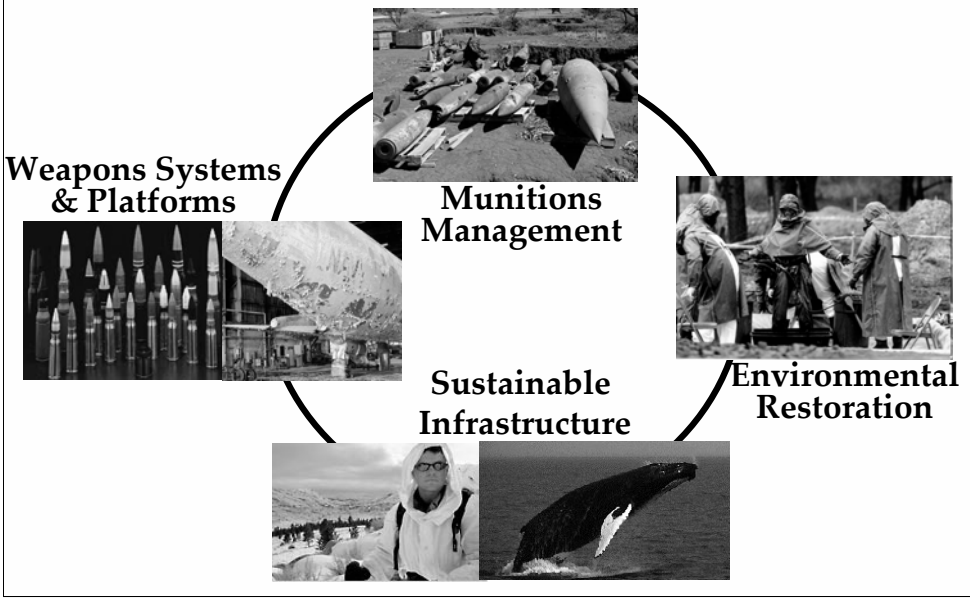


- Groundwater, Soils and Sediments
- Large UXO Liability
- Emerging Contaminants

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



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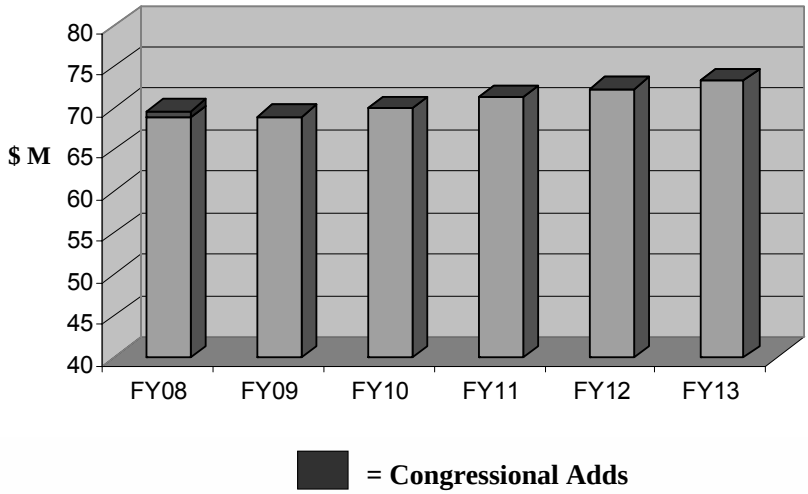
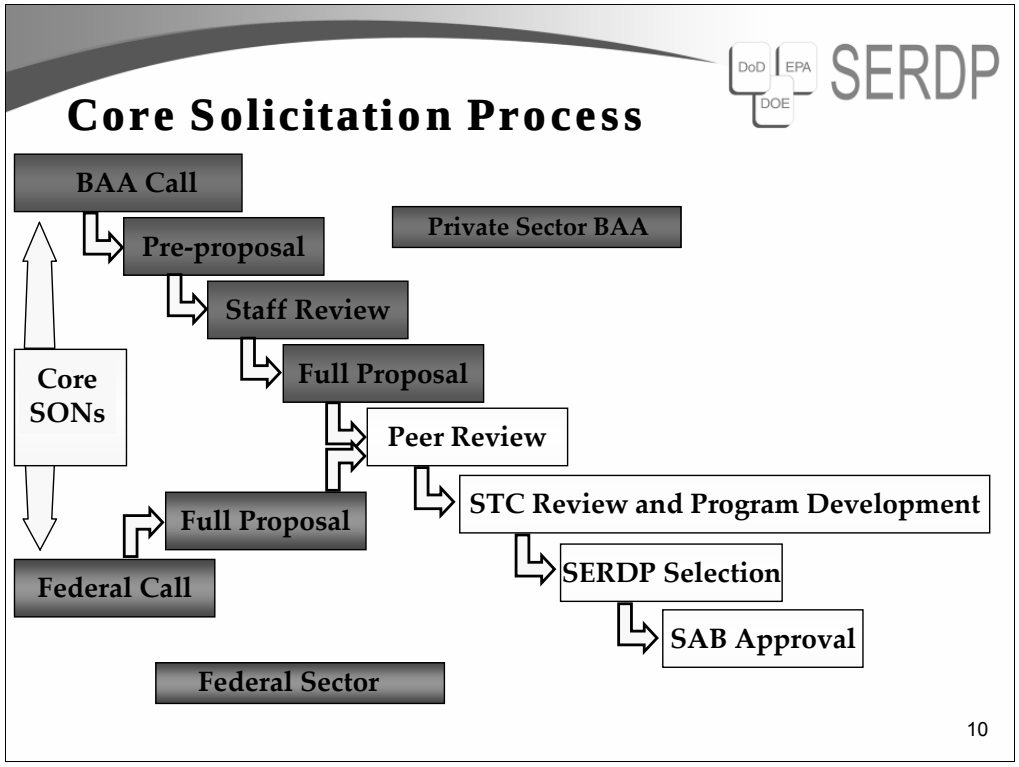
SERDP Funding



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
DoD
EPA
DOE
SERDP
BAA Call
Pre-proposal
Private Sector BAA
Staff Review
Core SONs
Full Proposal
Peer Review
STC Review and Program Development
Full Proposal
SERDP Selection
Federal Call
SAB Approval
Federal Sector
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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

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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

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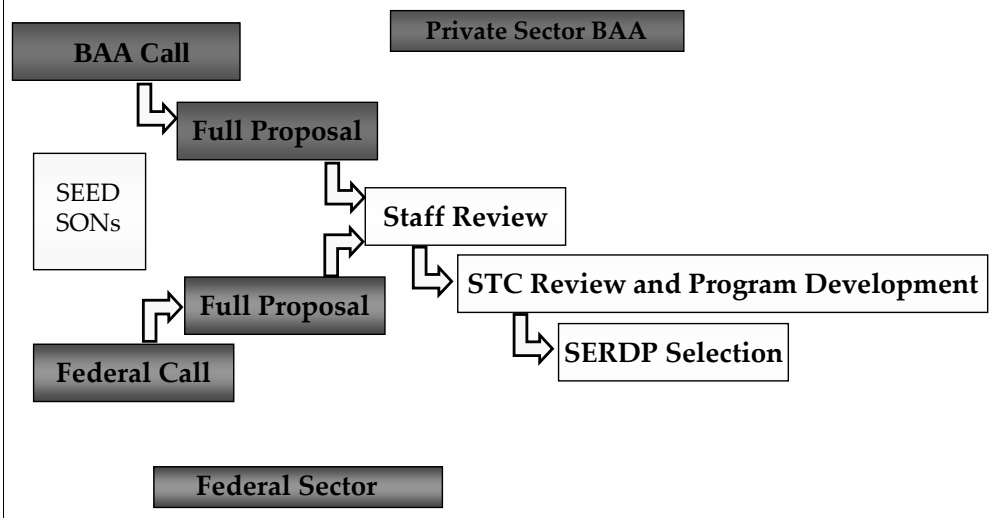
SEED Solicitation Process



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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

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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

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Partners in Environmental Technology
Technical Symposium and Workshop

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

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SERDP Website

SERDP STRATEGIC ENVIRONMENTAL RESEARCH & DEVELOPMENT PROGRAM

www.serdp.org

Thank You

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Links to Additional Resources

Feedback Form