

# **SERDP Funding Opportunities**

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**SERDP Executive Director**



## DoD's Environmental Technology Programs



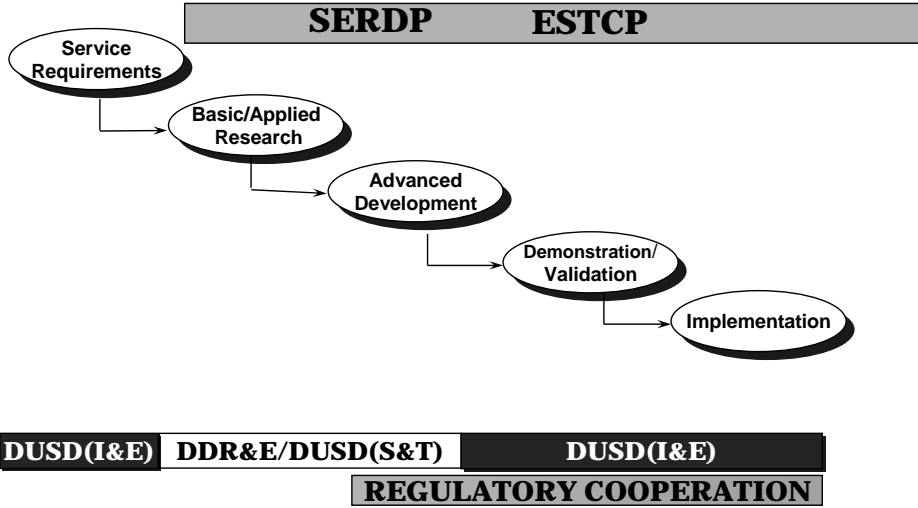
- **Demonstration / Validation**
- **Science and Technology**

## **Strategic Environmental Research and 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**



**Urban Growth &  
Encroachment**



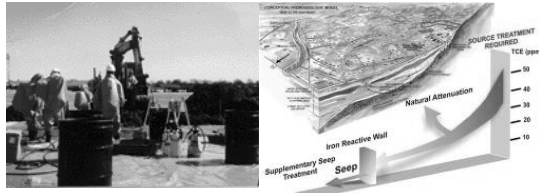
**Noise**

# Environmental Drivers



## Reduction of Current and Future Liability

### Contamination from Past Practices



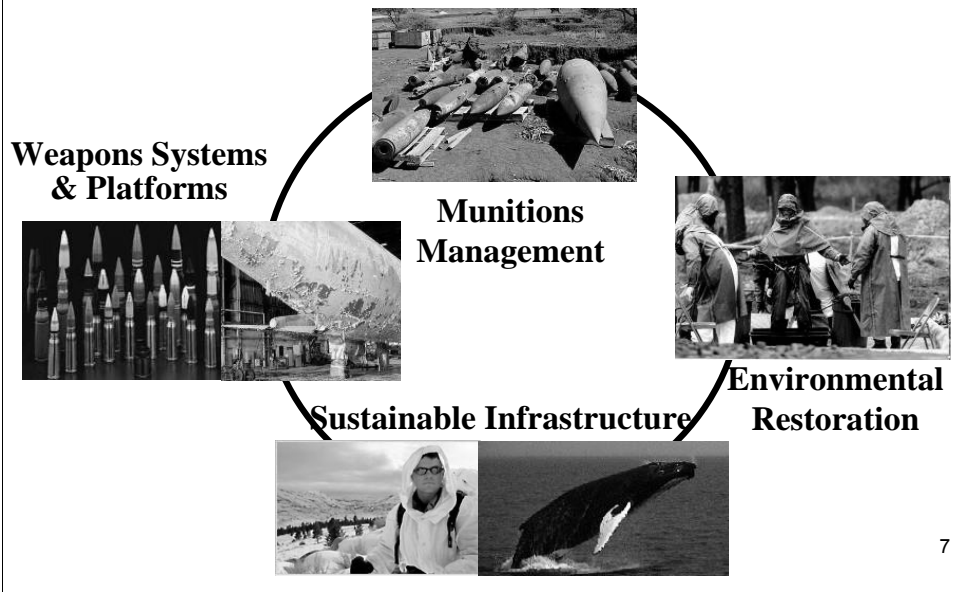
- Groundwater, Soils and Sediments
- Large UXO Liability
- Emerging Contaminants

### Pollution Prevention to Control Life Cycle Costs

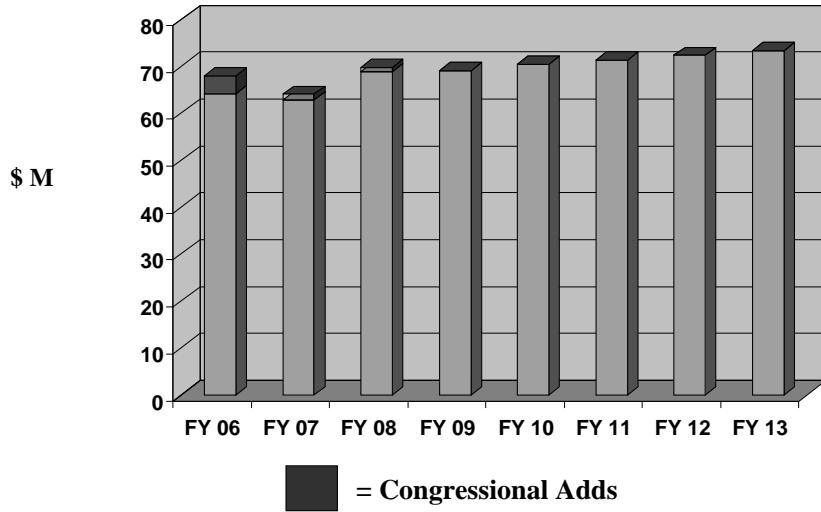


- Elimination of Hazardous Materials Reduces Cost of Operation, Repair & Demil
- Goal is to achieve Compliance Through Pollution Prevention

# Focus Area Management Structure



# SERDP Funding

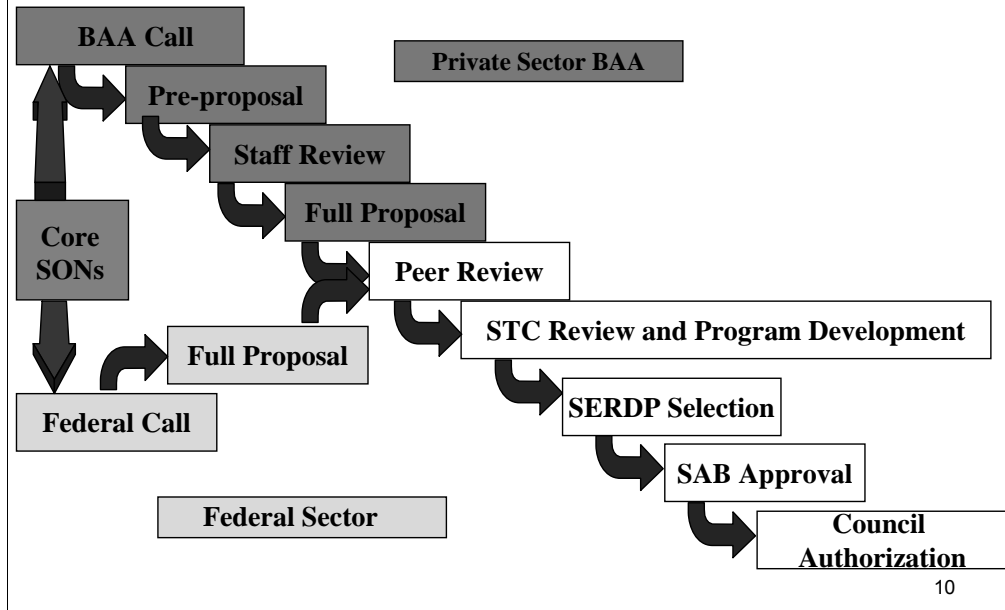


## SERDP Solicitations



- CORE Statements of Need: 14 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 8, 2009
    - Full Proposal requested by: February 5, 2009
  - ◆ Full proposals due: 4 PM March 12, 2009
  
- **Call to Federal Agencies**
  - ◆ Full Proposals due: 4 PM March 12, 2009
    - Check with agency's POC to determine internal due dates
  
- **Proposers notified July 2009**
- **SAB Presentation (if required) Sept. or Oct. 2009**

**Visit the SERDP web site for Details**  
**[www.serdp.org/funding](http://www.serdp.org/funding)**

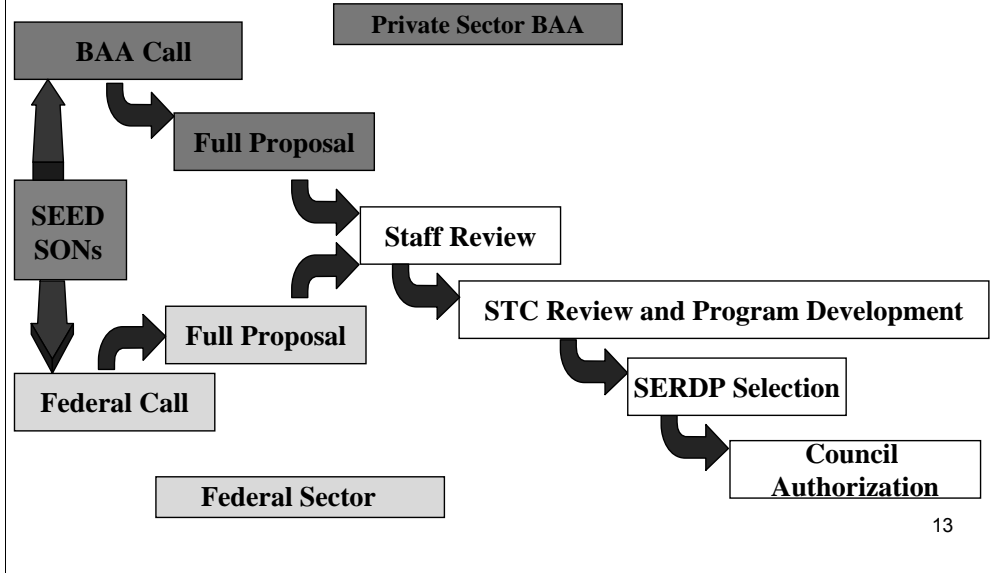
## FY09 Core Solicitation Success Statistics



	Pre-proposal	Full Proposal
SERDP BAA	15%	37%
SERDP Federal	-	19%
SERDP All	-	27%
NIEHS* (R01)	-	21%
NSF* (overall)	-	26%
Engineering	-	19%
Environmental Biology	-	20%
Geosciences	-	31%

\* Average for 2006 and 2007

# SEED Solicitation Process





## **SEED Solicitation Dates**

- SERDP SEED Solicitation
  - ◆ Proposals due by: 4 PM March 12, 2009
    - Government, Universities, Industry and NGO
- Proposers notified July 2009

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## **FY10 Statements of Need**

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### **Environmental Restoration**

- Predictive Techniques for Assessment of the Environmental Impact of New Munition Compounds
- Improved Fundamental Understanding of Contaminant Bioavailability in Aquatic Sediments
- Mechanisms of Contaminant Interaction with Soil Components and its Impact on the Bioavailability of Contaminants
- The Impact of Contaminant Matrix Storage on Chlorinated Solvent Groundwater Plumes

## **FY10 Statements of Need**

### **Sustainable Infrastructure**

- Southwest Ecological Systems on DoD Lands: Altered Fire Regimes, And Non-Native Invasive Species
- Managing and Restoring Southwest Intermittent and Ephemeral Stream Systems on DoD Lands
- Fugitive Dust Emission Due to DoD Activities
- SEED: Innovative Control/Eradication Approaches for The Brown Tree Snake

## **FY10 Statements of Need**

### **Weapons Systems and Platforms**

- Scientific Understanding of the Impact of Lead Free Electronics
- Environmentally Benign Alternative to Sulfur Hexafluoride in DoD Applications
- Sustainable Materials and Processes for Resins and Fibers Used in Military Composites
- Environmentally Friendly, Non-Aqueous Cleaners for use on Weapons Systems
- Environmentally Benign, High-Performance Non-Media Paint Strippers
- SEED: Replacement of Ammonium Perchlorate in Tactical Missile Rocket Motors

## **FY10 Statements of Need**

### **Munitions Management**

- Improvements in the Detection and Remediation of Underwater Military Munitions
- Advanced Technologies for Detection, Discrimination, and Remediation of Military Munitions
- SEED: Advanced Technologies for Detection, Discrimination, and Remediation of Military Munitions on Land and Underwater

## 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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SERDP and ESTCP**



**SERDP**

*Partners in Environmental Technology*  
**Technical Symposium and Workshop**

**December 2-4, 2008  
Marriott Wardman Park Hotel  
Washington, D.C.**



## **SERDP Webpage**

**SERDP** STRATEGIC ENVIRONMENTAL RESEARCH  
& DEVELOPMENT PROGRAM

**[www.serdp.org](http://www.serdp.org)**

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