DoD's Corporate Environmental Technology Programs

SERDP
Strategic Environmental Research and Development Program

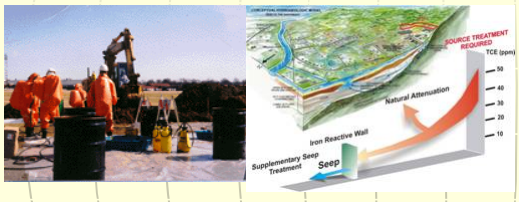
ESTCP

- **Basic and Applied Research**
- **Demonstration / Validation**

Environmental Drivers

Reduction of Future Liability

Contamination from Past Practices



- **Chlorinated Solvents Remain Intractable**
- **Large Potential UXO Liability**
- **New Contaminants Emerging (Perchlorate)**

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**

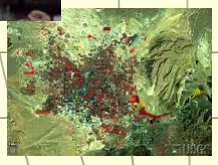
Environmental Drivers

Sustainability of Ranges and Range Operations


Maritime Sustainability
Threatened and Endangered Species


Toxic Air Emissions and Dust

Unexploded Ordnance



Urban Growth & Encroachment

Noise

Environmental Quality Taxonomy

Munitions Management

Weapons Systems & Platforms

Environmental Restoration

Sustainable Infrastructure

DoD Lands

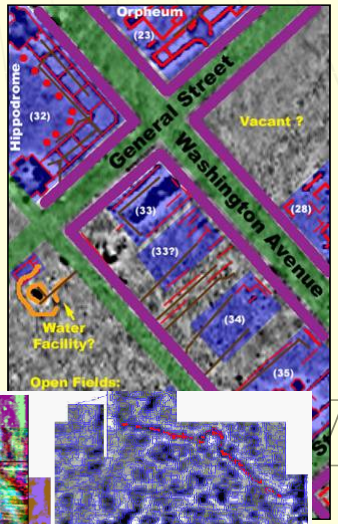
29 Million Acres

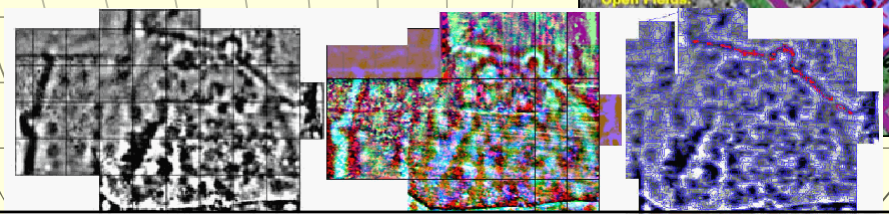
Broad Diversity Of Cultural Resources Types

Cultural Resources

Principal Research Issues

Detection of sites via remote sensing





SERDP/ESTCP Combined Program Office

Director ESTCP
Jeff Marqusee

SERDP Executive Director
Bradley Smith

Office Manager
Sam Figuli

Financial Officer
Jina Banks

Prg Mgr for Weapons Systems & Platforms
Charles Pellerin

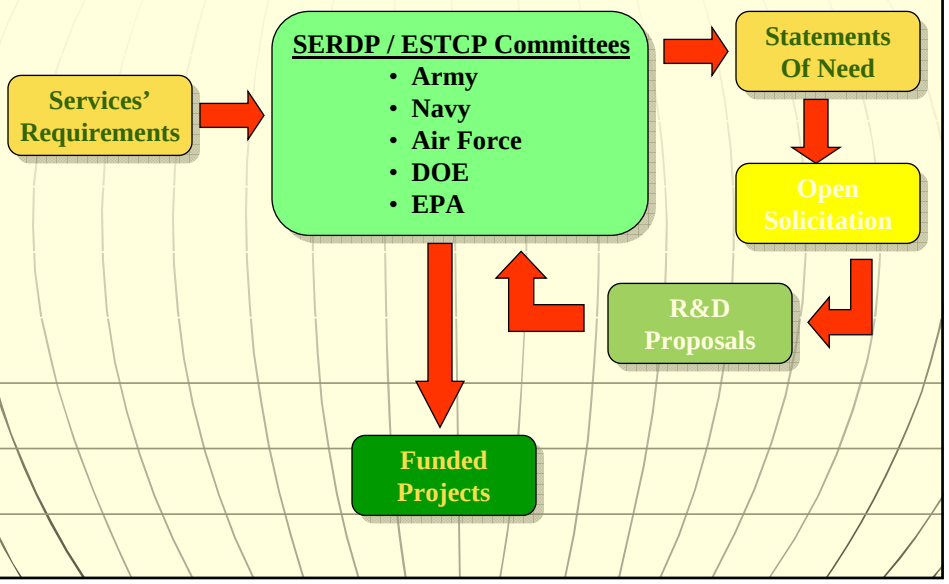
Prg Mgr for Sustainable Infrastructure
John Hall

Prg Mgr for Munitions Management
Anne Andrews

Prg Mgr for Environmental Restoration
Andrea Leeson

Program Support
HydroGeoLogic, Inc

Service Coordination Process



Strategic Environmental Research and Development Program

- Established by FY 1991 Defense Authorization Act
  - DoD, DOE and U.S. EPA partnership
- Purposes
  - Address DoD and DOE environmental concerns through R&D
  - Share data collection and analysis capabilities
  - Identify and share DoD research technology
  - Identify private sector technologies useful to DoD

Environmental Security Technology Certification Program

PROGRAM GOALS

- Demonstrate innovative cost-effective environmental technologies
  - Capitalize on past investments
  - Transition technology out of the lab
- Promote implementation
  - Direct technology insertion
  - Gain regulatory acceptance

Priority: needs of the DoD user community

SERDP Method

- **Annual Solicitations to Meet DoD Needs**
  - **Two Solicitations**
  - **Open to All: Government, Academia, Industry**
- **Competitive Award**
  - **External Peer Review**
  - **Internal and Scientific Advisory Board Review**
- **Transition to Demonstration/Validation**

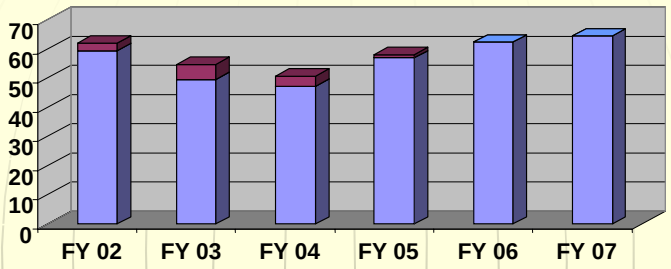
ESTCP Method

- **Partner with stakeholders and test at DoD facilities**
  - **Developer, regulators, end-user**
  - **Direct transition**
- **Validate operational cost and performance**
  - **Independent test and evaluation**
  - **Satisfy regulatory and user communities**
- **Identify DoD market opportunities**
  - **Technology transfer across federal and private sector**

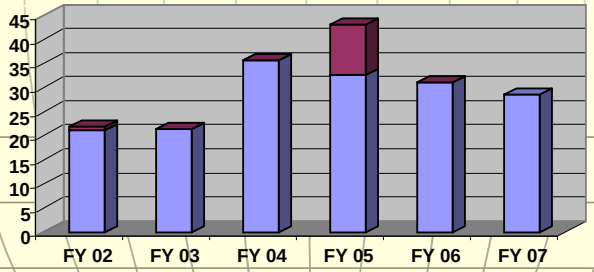
Demonstration/Validation

- **Demonstration scale and scope**
  - 3 years or less
  - Limited development
  - Assess full scale cost and performance
- **Validation**
  - Technical performance
  - Operational costs and logistics
  - Regulatory and/or end user acceptance

Funding ($ M)



SERDP



ESTCP

= Congressional Adds

SERDP/ESTCP Projects

- SI-1260: Detection and Identification of Archaeological Sites and Features Using Radar Data (Dr. Ronald Blom)
- SI-1261: Developing an Efficient and Cost Effective Ground-Penetrating Radar Field Methodology for Subsurface Exploration and Mapping of Cultural Resources on Public Lands (Dr. Lawrence Conyers)
- SI-1263: New Approaches to the Use and Integration of Multi-Sensor Remote Sensing for Historic Resources Identification and Evaluation (Dr. Frederick Limp)
- SI-0611: Streamlined Archaeo-Geophysical Data Processing and Integration for DoD Field Use (Dr. Michael Hargrave)

Solicitation Timelines

SERDP

- **Annual Solicitation - November**
- **"SEED" Solicitation - November**
- **Selection in July**
- **SAB Reviews in August/September**

ESTCP

- **Annual Solicitation - January**
- **Selection in September**

Sponsored by
SERDP and ESTCP

Partners in Environmental Technology

Technical Symposium and Workshop

November 28-30, 2006

Marriott Wardman Park Hotel
Washington, D.C.

Home Pages

SERDP

STRATEGIC ENVIRONMENTAL RESEARCH & DEVELOPMENT PROGRAM

ESTCP
Environmental Security Technology Certification Program

http://www.serdp.org **http://www.estcp.org**