

# SERDP-ESTCP Depot Cd/Chromate Replacement Initiative

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ASETSDefense 18 November 2014**



**SERDP**

DOD • EPA • DOE



**ESTCP**

# Report Documentation Page

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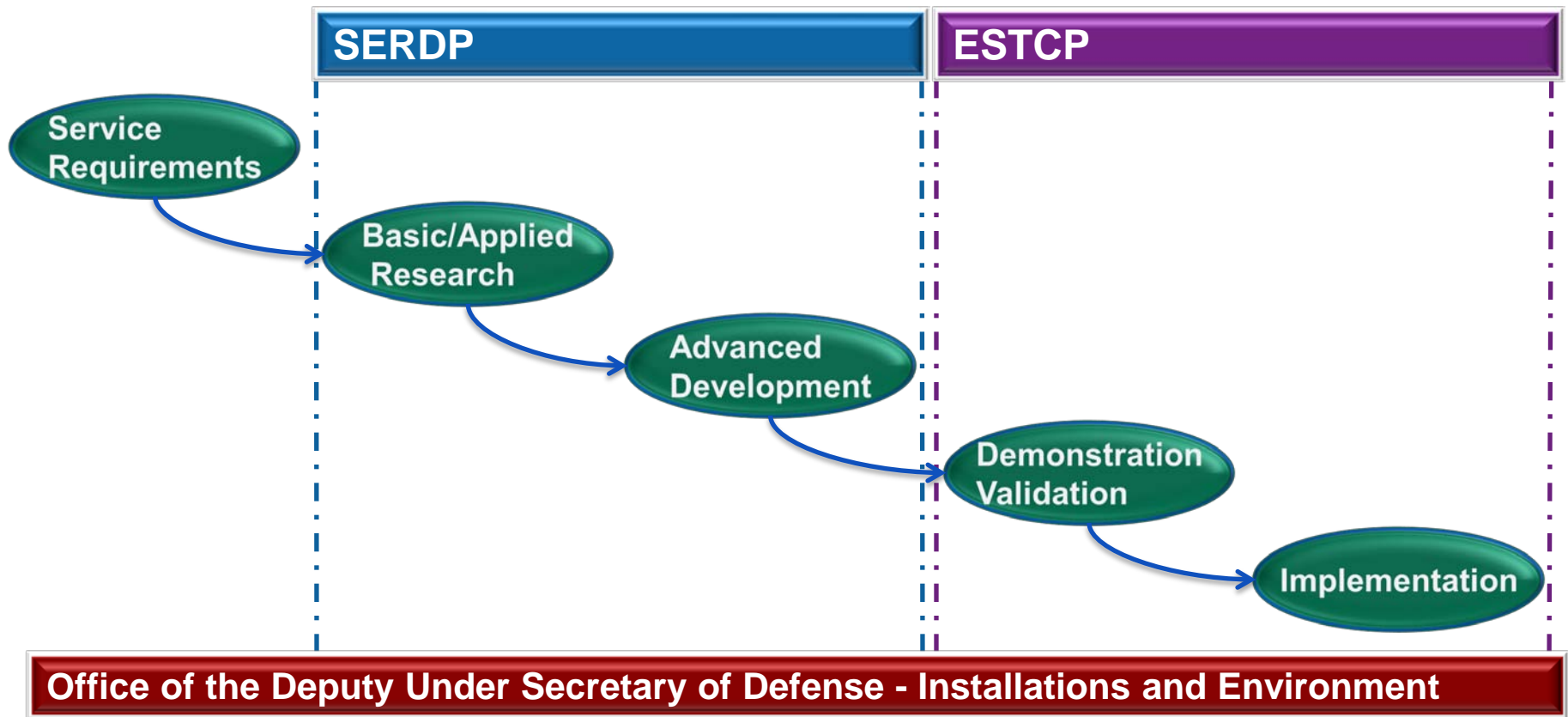
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# SERDP/ESTCP Initiative



- Numerous surface-engineering-related projects have been executed by SERDP, ESTCP and other organizations to develop and evaluate new technologies that are more environmentally friendly and reduce life-cycle costs
- Stakeholders and weapons systems owners do not have ready access to data to determine if new technology can be implemented
- ASETSDefense initiative is intended to develop information data bases and organize workshops associated with technologies in the surface engineering field; web site [www.asetdefense.org](http://www.asetdefense.org) is entry point to engineering data and materials selection data bases under development
- This workshop forum is intended to allow for information exchange and identification of alternative processes and materials as well as mitigation of potential risks at the implementation phase

# Environmental Technology Development Process

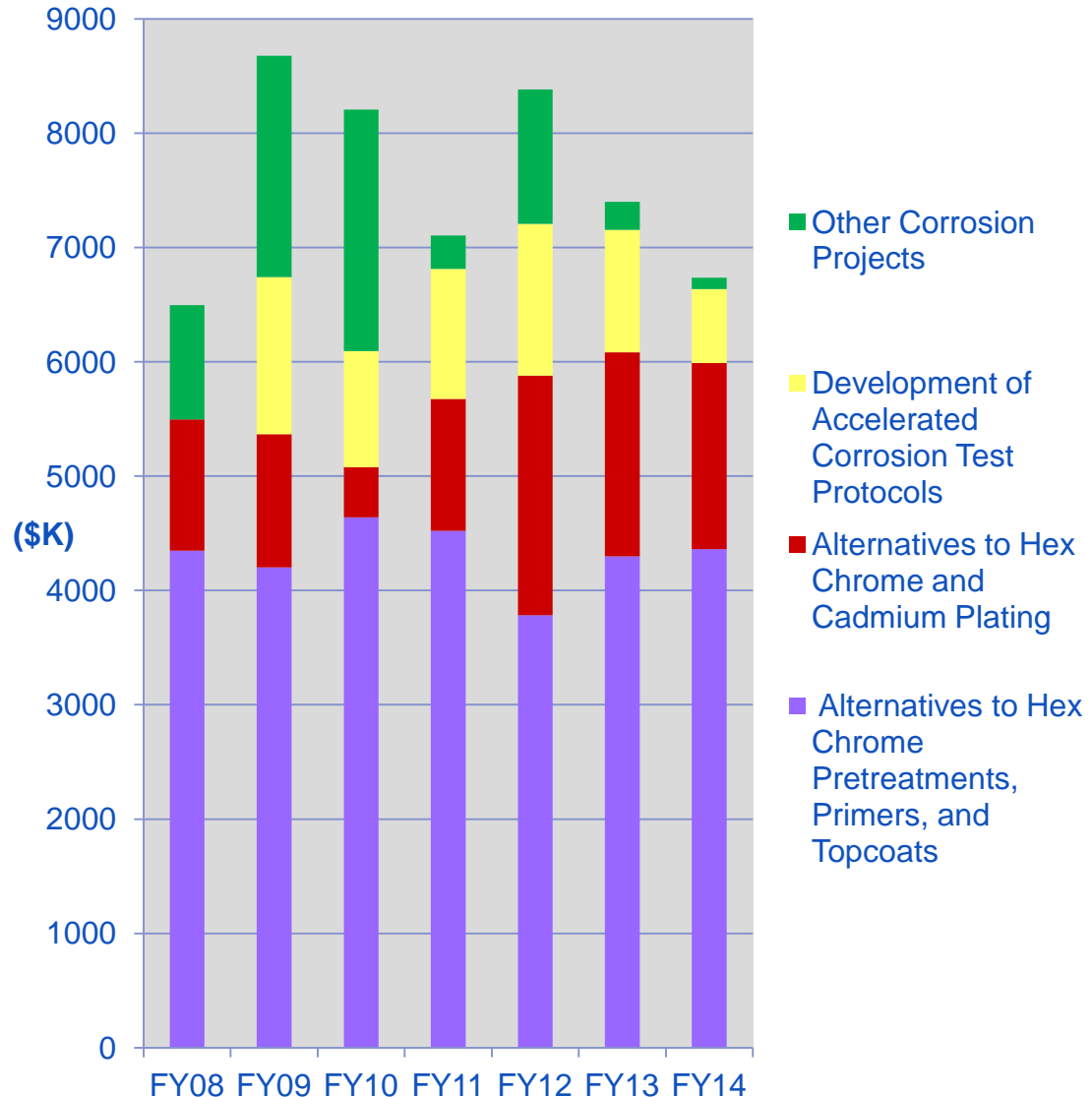


# SERDP/ESTCP Investments Related to Corrosion

DoD assets are subject to significant degradation due to corrosion, with specific impacts in following areas:

- **Financial:** \$18-\$22 billion annually
- **Readiness:** Weapons systems routinely out of commission
- **Safety:** Weapon systems mishaps documented

**Many materials used to impart corrosion resistance have environmental and/or worker safety concerns**



# Path Forward

- **Capitalize on Previous Investments**
  - Collect current process and use data from Depot Community
  - Identify successful technologies and material solutions that could apply across platforms and operational sites
  - Actively pursue user community to understand their business case for engineering and material changes
  - Work with all stakeholders to share success stories
- **Long Range Planning**
  - Collect technical information at workshops and from user community
  - Identify gaps in our scientific understanding and develop an investment strategy
- **Identify Barriers to Transition**