

Information Technology Capital Investment Program  
Project Close Out Report

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**To:** Information Technology Strategy and Investment Committee  
John Vittner, Office of Policy and Management

**From:** Irene Garcia

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**Agency:** Department of Energy and Environmental Protection

**Project:** IT Capital Investment Program - Enterprise Data Management Program

**Project Start Date:** 1/1/2013



**Project End Date:** 12/31/2018



**Project Manager:** Multiple Project Managers

**Total Funds Requested:** \$2,500,000

**Total Funds Allotted to Agency:** \$2,500,000

**Accumulative Total Capital Fund Expenditures to Date:** \$3,154,510

**Brief Project Description/Summary:**

The DEEP data management program will integrate critical data systems to provide common source for DEEP data. Consolidated data provides one system to query all data allowing for ad hoc reporting and real time decision making. Systems can now be developed to provide visibility to all customers and DEEP personnel from one source. This will provide for better tactical and strategic decision-making because these decisions can be made based on a consolidated view of data. The agency would also like to provide both external customers and internal staff dashboards that can aid into the decision making process. This data will be available to be leveraged by remote users utilizing multiple methods to access data.

**List Project Goals and Deliverables Completed:**

*(Please provide a brief summary of the goals and deliverables that were implemented. Please reference the IT Capital Investment Brief for the initial goals of the projects.)*

- ✓ Integration of Boating, Fishing, Forestry, Pesticides, PURA, Radiation, Stormwater, and Underground Storage Tank data into DEEP's enterprise SQL Server SIMS database resulting in the elimination of 75% of all RBase and over 50% of all IT supported Access databases.
  
- ✓ Provided greater public accessibility to DEEP enterprise data:
  - ✓ ezFile public portal to search Boating, Fishing, Radiation, Stormwater, and UST registration information.
  - ✓ Multiple DEEP datasets posted on Open Data including Manifest and Underground Storage Tank information.
  - ✓ Multiple spatial data representations available on the DEEP website including Fish Stocking, Land Registry, and Sewage Bypass/Overflow.
  - ✓ Air Monitoring Public Website provides real-time data from the agency's air monitoring stations across the state.
  
- ✓ Established electronic data flows to the EPA of various DEEP datasets including National Pollutant Discharge Elimination System (NPDES) and Ambient Water Quality data thus reducing data reporting errors and improving program level business efficiency.
  
- ✓ Modernization of obsolete ESRI ArcGIS spatial viewer and geodatabases using out-of-the box technology and integrating with the enterprise SIMS database.
  
- ✓ Investment in Cognos and ESRI Business Intelligence tools to support reporting and executive dashboard presentation.
  
- ✓ Implementation of BEST hosted application, web, and database servers which DEEP currently self-manages to support all DEEP eGov initiatives.
  
- ✓ Implementation of the IBM FileNet and ICM software in three environments to support the development, testing and production hosting of various DEEP applications. BEST completed this effort in support of the DEEP investment, but equally important to the State of Connecticut is that this software is available to the state enterprise. DEEP has been an active supporter both technically and financially to the state enterprise and has provided crucial resources in support the FileNet P8 document repository and the IBM Case Management (ICM) environment.

**Project Replication Opportunities:**

*(Are there opportunities to repeat or leverage the project solution by other state agencies? Please provide a brief explanation.)*

DEEP's IT Investment projects started with the initial build of a hardware and software environment at BEST. The build consisted of the implementation of the IBM FileNet and ICM software in three environments to support the development, testing and production hosting of these applications. BEST completed this effort in support of the DEEP investment, but equally important to the State of Connecticut is that this software is available to the state enterprise.

**Key Lessons Learned:**

*(Provide any lessons learned or experienced during this project that may be helpful to other agencies starting a similar project.)*

- Building out new architecture and infrastructure takes time, particularly at the enterprise level.

-Sharing of data and modernization of legacy systems requires full management backing to be successful since many business staff are reluctant to let go of these.