• DOE EA Modernization Roadmap Planning
• Status of Troux Solutions Implementation
• Sample Troux Visualizations
• Implementing PortfolioStat
• Federal IT Shared Services Strategy
• The Common Approach to Federal Enterprise Architecture
• Success Story Sharing
• Agency-wide view of IT capabilities:
  - Strategic
  - Business and
  - Technology perspective

• Living document includes current, future and transition architecture strategy

• Required by OMB as part of the new “Common Approach”

• Submissions to OMB will continue to grow with increasing importance on “data”

• Due to OMB August 31, 2012
Troux Solutions Implementation

• Troux Solutions status:
  - OCIO implementing Troux solutions for business decisions, BI, etc.
  - All Troux modules installed and data review in progress
  - Implementing an Enterprise Level Agreement (ELA)
  - Enables joint Business/IT decision making, supported by EA principles
  - Realize better execution, risk control and financial performance
  - NNSA, EM, and nine (9) labs currently using Troux
  - Data Calls goals using Troux –
    • Use technology to improve efficiencies while reducing errors
    • Reduce overall efforts related to Data Calls
The Troux solutions will be used to build DOE’s EA program that further enhance analysis capabilities through:

- Linking information technology to the corporate mission
- Improving interoperability and integration across systems, people and processes
- Greater project agility and responsiveness
- Reduction of IT costs
- Reduction in technical risk
- Strategic planning based on reliable and current information
Troux Implementation Status

- Established Project Roadmap
- Accomplishments
  - Troux Products Installed in February 2012
  - Held Success Planning Workshop January 2012
  - Near term project focus on Procurement
    - Focus on Financial Assistance Segment, e.g., Grants Management
    - Captures who participates, what systems are used, overlap of functionality, what capabilities are fulfilled, what capabilities are needed for more efficient processing
    - Will provide ability to show “as is” and “to be” architectures
  - Roll out Enterprise implementation scheduled to start May 2012
    - Requires collaboration with HQ, Sites and Labs to be successful
    - Success: Provide business value by identifying potential sources of reuse of systems
Troux Implementation Next Steps

- Data Quality Phase (Continued)
  - Complete Population of ETG Spreadsheet
  - Promote data to Production

- Information Analysis Phase
  - Review Primary Reports/Outputs
  - Identify any additional data / Iteration of ETG data load

- Business Value Phase
  - Business Value Workshop (Onsite)
  - Deliverable: Results Brief
This report identifies the overall condition of the portfolio in terms of hardware and software. Use this report to identify where applications are at risk for using unsupported technology products.

**Portfolio Overview**

This report provides a summary of the overall condition of the portfolio. Specifically, the report displays what percent of the installed hardware and software products that are within each lifecycle phase, and the exact number of installed products.

**Software Lifecycles on 2012-03-13**

<table>
<thead>
<tr>
<th>Internal Lifecycle for Software Product Version</th>
<th>Installed SW Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase Type</td>
<td></td>
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<tr>
<td>Approved - Planned</td>
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<tr>
<td>Approved - Preferred</td>
<td>27</td>
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<td>Approved - Maintain</td>
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<td>Approved - Phase Out</td>
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<td>Approved - Remove</td>
<td>8</td>
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<tr>
<td>Exception</td>
<td>7</td>
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<td>Denied</td>
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**Manufacturer Roadmap Lifecycle for Software Product Version**

<table>
<thead>
<tr>
<th>Phase Type</th>
<th>Installed SW Count</th>
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<tbody>
<tr>
<td>Generally Available</td>
<td>7</td>
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<tr>
<td>End of Life</td>
<td>3</td>
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<tr>
<td>Obsolete</td>
<td>1</td>
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This report identifies misalignment in project spending by plotting business functions on a grid according to their strategic business values and their project costs. Use this report to identify business functions with high project costs and low strategic values. The projects associated with these business functions should be further analyzed for opportunities in project cost reduction.
This report lists application statistics for each business process. The report can either return all the Business Processes related to at least one Application in your portfolio or filter Business Processes by APO Category (or selected Applications).

<table>
<thead>
<tr>
<th>Business Process</th>
<th>Number of Supporting Applications</th>
<th>BIA Score</th>
<th>Average Number of Users</th>
<th>Average Cost Per User</th>
<th>Average Cost Per Application</th>
<th>Total Recurring Cost of All Supporting Applications</th>
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<tbody>
<tr>
<td>Access/Manage Balances &amp; Positions</td>
<td>66</td>
<td>55</td>
<td>55</td>
<td>4,814.01</td>
<td>266,897.42</td>
<td>22,953,176.20</td>
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<td>821</td>
<td>57</td>
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<td>Administration</td>
<td>85</td>
<td>209</td>
<td>56</td>
<td>6,015.86</td>
<td>335,477.57</td>
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<td>Assembly</td>
<td>86</td>
<td>386</td>
<td>58</td>
<td>5,142.88</td>
<td>296,672.30</td>
<td>25,513,818.20</td>
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<td>Bike development</td>
<td>87</td>
<td>0</td>
<td>64</td>
<td>5,029.20</td>
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<td>Bike Marketing</td>
<td>72</td>
<td>421</td>
<td>62</td>
<td>4,846.72</td>
<td>299,690.70</td>
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<td>Bike production</td>
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<td>201</td>
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<td>369,620.38</td>
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<td>Bike Selling</td>
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<td>57</td>
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<td>Capture Transaction</td>
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<td>Clearing &amp; Settlement</td>
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<tr>
<td>Confirm &amp; Match Trade</td>
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<td>5,019.84</td>
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<td>Develop and Maintain Marketing Strategy</td>
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<td>Distribution</td>
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<td>Employee Incentives</td>
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<td>332,691.60</td>
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<td>Enrich Transaction</td>
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<td>71</td>
<td>61</td>
<td>4,689.37</td>
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<td>Enter Customer Information</td>
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<td>Expand Market into Mexico</td>
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<td>278,391.93</td>
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<td>Fees &amp; Commissions</td>
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<td>969</td>
<td>55</td>
<td>5,180.80</td>
<td>284,444.55</td>
<td>23,668,897.40</td>
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</tbody>
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Implementing PortfolioStat

- OMB M-12-10, “Implementing PortfolioStat” March 30, 2012
- Directs agencies to weed out duplicative and low-value IT by holistically evaluating the entire IT portfolio

<table>
<thead>
<tr>
<th>Phase</th>
<th>Deadline</th>
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</thead>
<tbody>
<tr>
<td>Phase 1: Baseline Data Gathering</td>
<td>Initial survey by May 31, 2012 Commodity IT specific survey by June 15, 2012</td>
</tr>
<tr>
<td>Phase 2: Analysis and Proposed Action Plan</td>
<td>Draft plan to OMB by June 29, 2012</td>
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<tr>
<td>Phase 3: PortfolioStat Session</td>
<td>First session held by July 31, 2012</td>
</tr>
<tr>
<td>Phase 4: Final Action Plan Implementation</td>
<td>Final plan to OMB by August 31, 2012</td>
</tr>
<tr>
<td>Phase 5: Lessons Learned</td>
<td>Document submitted to OMB by February 1, 2013</td>
</tr>
</tbody>
</table>
The Federal IT Shared Services Strategy helps drive Federal IT ROI:

- Take a Shared-First approach to all agency service delivery models
- Eliminate wasteful spending that results in duplicative systems
- Reduce support costs of redundant IT resources
- Improve cost efficiencies and streamline through shared commodity IT
- Improve transparency of available shared services across government
- Leverage future-first principles in designing shared services to:
  - Improve interoperability
  - Establish common standards
The Shared Services efforts are estimated to save the government approximately $1B over the next five years.

DOE submissions:

- **eCPI**C - planning to migrate our internally hosted eCPI**C** application to a cloud-based, shared service model managed by GSA this summer. An information flyer is available for those who wish to learn more.

- **ServiceNow** – a Web 2.0 IT service management solution which allows the creation of semi-autonomous instances for the programs, as well as DOE. To learn more, consider attending “Service Now ITSM (and PPM) Implementation at DOE” later this week.
ServiceNow – an Integrated Management Tool

Some Highlights from the tool:

- **Actionable Service Catalog** with Pricing and integrated billing

- **Change Management**, Problem Management, Knowledge Base, Configuration Management, License Management, **automated capture of technical architecture**

- **Project Portfolio Management (PPM) Module** with all projects, their **Risks and Issues**, Resource Management, and **goal mapping**

- Access to More **Management Reports** that can be scheduled to email automatically

- Programs able to add **customization such as new fields, scrolling News**, and custom reports (using drag and drop functionality) while maintaining an overall standard

* Self-Service Interface for end users to enter requests directly (without charge for licenses) with a survey of experience

* **Totally customizable view for each user** to view only what they use and value

* **Totally customizable view for management** to view what metrics / activity they like to watch including risk watch lists
The Common Approach to Federal EA

• The Common Approach to Federal Enterprise Architecture accelerates Agency business transformation and new technology enablement by providing
  • Standardization
  • Design principles
  • Scalability
  • An enterprise roadmap
  • An agile and repeatable architecture project method

• Enterprise Architecture should be a source of authoritative information for intra- and inter-Agency planning, decision making, and management
The Common Approach to Federal EA

- “Collaborative Planning Methodology” (CPM) replaces the Federal Segment Architecture Methodology (FSAM)
- Minimum, or “core” artifacts required for each architecture layer (Strategic, Business Services, Data and Information, Enabling Applications, Host Infrastructure, Security Controls)
- New / updated reference models:
  - Performance Reference Model
  - Business Reference Model (former BRM & SRM merged)
  - Data Reference Model
  - Application Reference Model
  - Infrastructure Reference Model
  - Security Reference Model
Document DOE EA success stories

Establish EA panel to formulate EA Success Charter

Document EA success stories within the EA Modernization Roadmap – submitted to OMB annually

Recognize various offices / individuals with efforts related to EA

Become an model for other agencies and resulting EA successes

Establish a EA knowledge base to enable EA methodologies

Goal is to have EA success charter in place by April 2013
1. Collaboration Portal
2. Enterprise Portfolio Analysis Tool (EPAT)
3. ePerformance
4. Geospatial
5. Green IT
6. Joint Cybersecurity Coordination Center (JC3)
7. Records Management
8. Records Management Revitalization
9. Spectrum
10. Televideo Expansion
11. Y-12 MOMentum Project