



Sandia National Laboratories

Site Report to NLIT

Art Hale, CIO

June 1, 2009



Transforming Sandia's Information Enterprise

- **CIO Strategies**

- Empower the front line workers to perform their jobs
- Transform the back office - SOA, network grid
- Provide authoritative information to decision makers at all levels

- **Approach**

- Balance & prioritize projects based on enterprise readiness and mission impact
- Consolidate, simplify, standardize on “platform” solutions
- Purposefully shift work mix to focus on innovation for strategic business needs

- **Align with technology directions and network enabled workplace**

- Transform edge devices – mobile, reduced state, low-touch support
- Invest in network grid – high availability, low or no touch support
- Applications and data move into network grid – available from anywhere, anytime



Empower front line workers

Thrust: Transform edge devices

- **Thin & Virtual Client Implementations on SRN - *move data and applications into the grid, decrease support costs***
- **Blackberry and Mobile Device Support in Limited Areas - *productivity and connectivity***
- **Streaming Application Capability - *immediate access to software to support mission***



Transform the back office

Thrusts: Network Grid and Application Services Architecture

- **Network Revitalization – increase reliability, reduce support costs**
- **Server Consolidation and Virtualization - decrease maintenance costs**
- **Transform the application architecture**
 - Consolidate & standardize & simplify – service oriented to simplify integration
 - Business Process Management System (BPMS) Capability & Implementation (agile application delivery)



Authoritative information

Thrust: liberate the data

- **Analytical Reporting Capability**
 - Enterprise Project Management Reporting Engine
 - Increase in mission efficiency, unlock the data to support new sandia business models
- **Content Management Transformation**
 - Full Content Management Implementation for mission projects - *mission efficiency*
 - Web 2.0 Environment - *user maintained collaboration capability*
 - Advanced collaboration capability for mission organizations - *mission efficiency*



Update on Transformational Activities

- **Piloting a Business Process Management (BPM) approach to realize efficiencies in process development and implementation of IT-enabling solutions**
 - Three pilots are underway, including enterprise risk management as a component of the Assure, Assess and Improve Process (AAIP)
- **Implementing a new Facilities Management System using Tririga COTS software.**
 - 20 IT-supported stand-alone Facilities applications and ~70 Facilities “systems” will be integrated into the solution, thereby eliminating the numerous ad-hoc efforts and resulting in increased efficiencies for both IT and Facilities
- **Lab-wide Product Lifecycle Management on track with Project Management and Configuration Management process development**
- **Desktop Transformation Phase 1 - Virtual hosted desktop infrastructure, thin clients, stream application capabilities**
 - Simplification of desktop provisioning, configuration, trouble-shooting, & maintenance, energy savings



Network Revitalization Investment Progress

- **‘Network Virtualization’ strategy is key to enabling a more agile infrastructure**
- **MPLS technology to improve information security**
 - uses labels to enforce an added layer of separation and control not present with our current VLAN logical separation method
- **Replace core to improve availability**
- **Replace active access layer with passive optical components**
 - Gigabit Passive Optical Network (GPON) significantly reduces operations and support
- **Contract awarded last week**



We are in the midst of application transformation

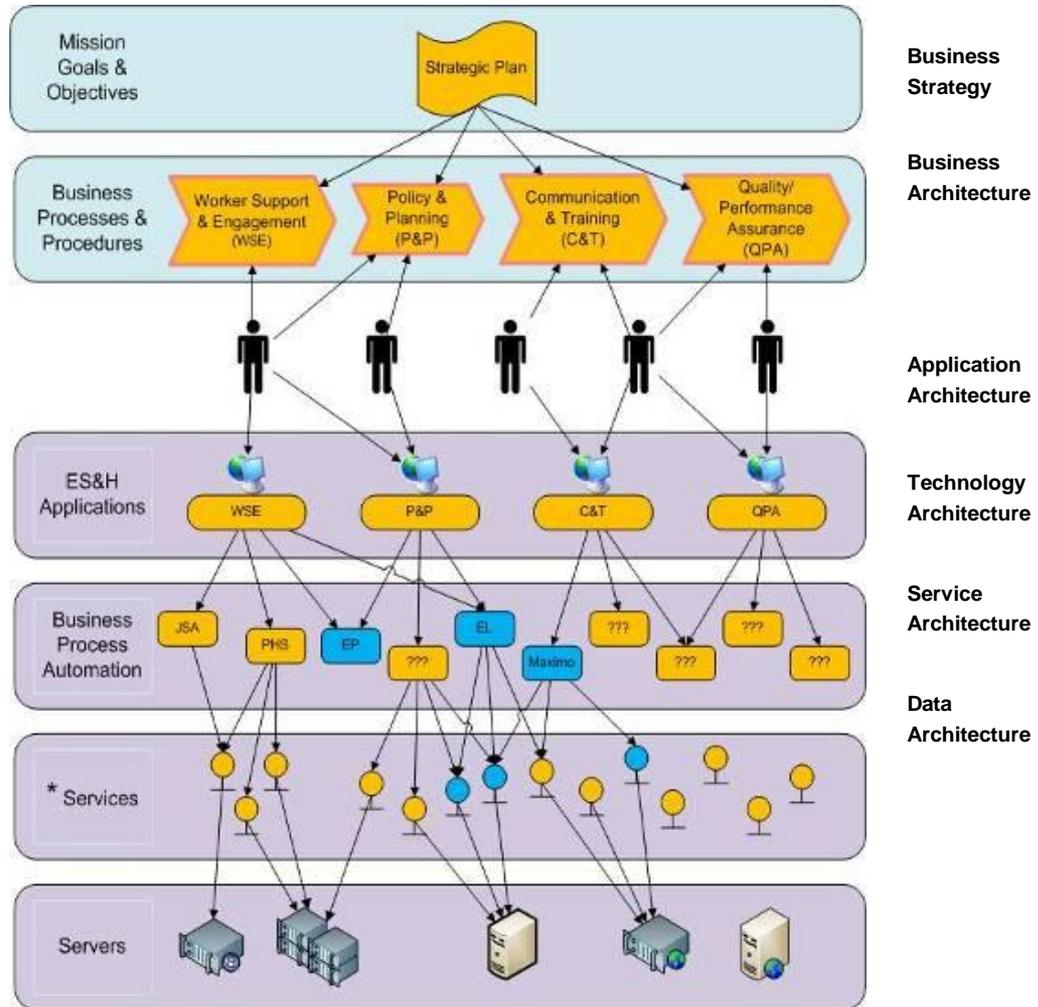
- **Over 1000 COTS and custom applications are in various states of consolidation and simplification**
- **Most were stove piped - each with a specific purpose, mostly stand alone with dedicated databases and minimal cross communication or sharing of resources**
- **Previous state reflects the Lab's distributed autonomy and discrete organizational focus**
- **Multiple copies of data – no “single source of truth”**
- **Multiple overlapping technologies in the environment**
- **Lack of integration and significant technology differences make applications complex, difficult to use, hard to modify and expensive to maintain**
- **A confusing view to users without a common look and feel**

We must implement a services architecture that enables more business agility

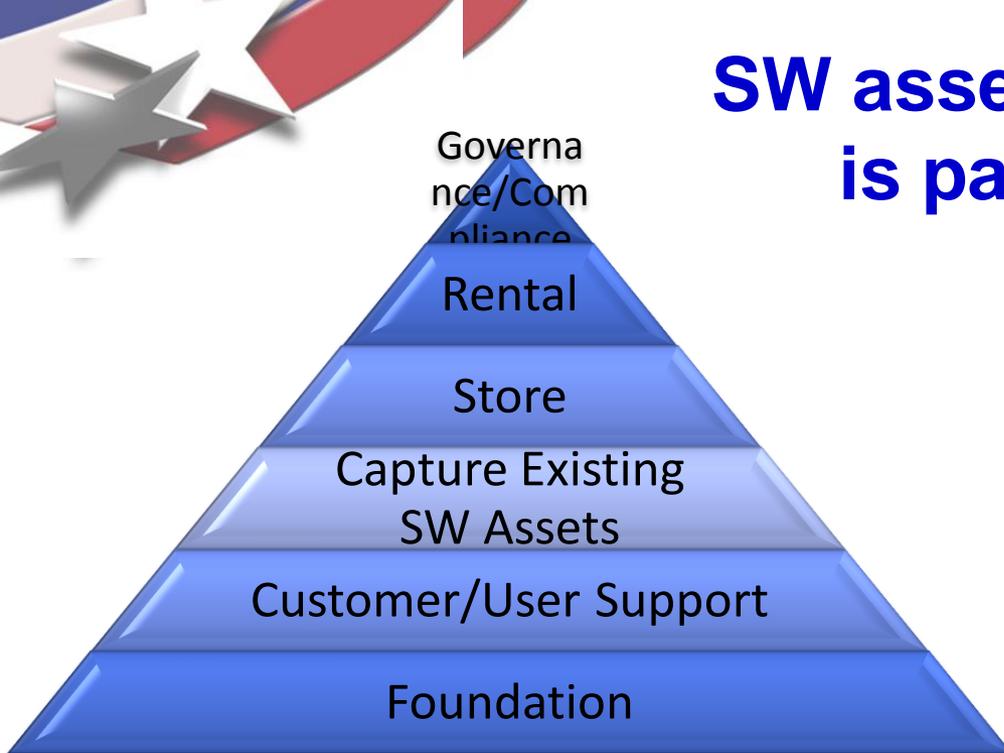
Business Processes are isolated allowing for easy change

Services enable evolving business processes

Increased reuse increases consistency across applications and improves maintainability



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Lessons Learned Implementing ISO9001:2000, Cynthia Caton

FDCC Birds of a Feather, Stan Hall

Tuesday June 2, 2009

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Sandia Vista Project Lessons Learned, Roman Selever

Blackberry Project at Sandia Laboratory, Marcia Jacobs

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Portable Encryption Technologies, Jeremy Baca

Desktop Management Software Transformation, Gary Shoemaker

Software Asset Management at Sandia, Ramona Gallegos/Andrew Steele

Lessons Learned During Sandia's Mobile Data Encryption Implementation, Sam Jones

SharePoint Superusers: The Stealthy, Wealthy Pool of SharePoint Knowledge, Phyllis Teague

Branding and Customizing SharePoint Sites Birds of a Feather, Phyllis Teague