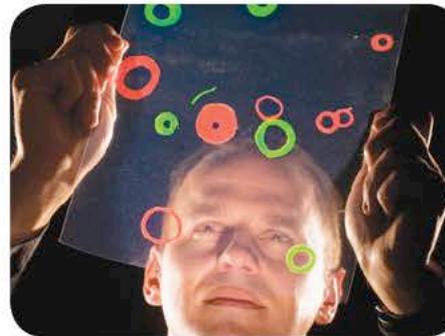


Exceptional service in the national interest



Sandia R12.1.3 Upgrade Lessons Learned

Tracy Jones, Manager Enterprise Resource Planning

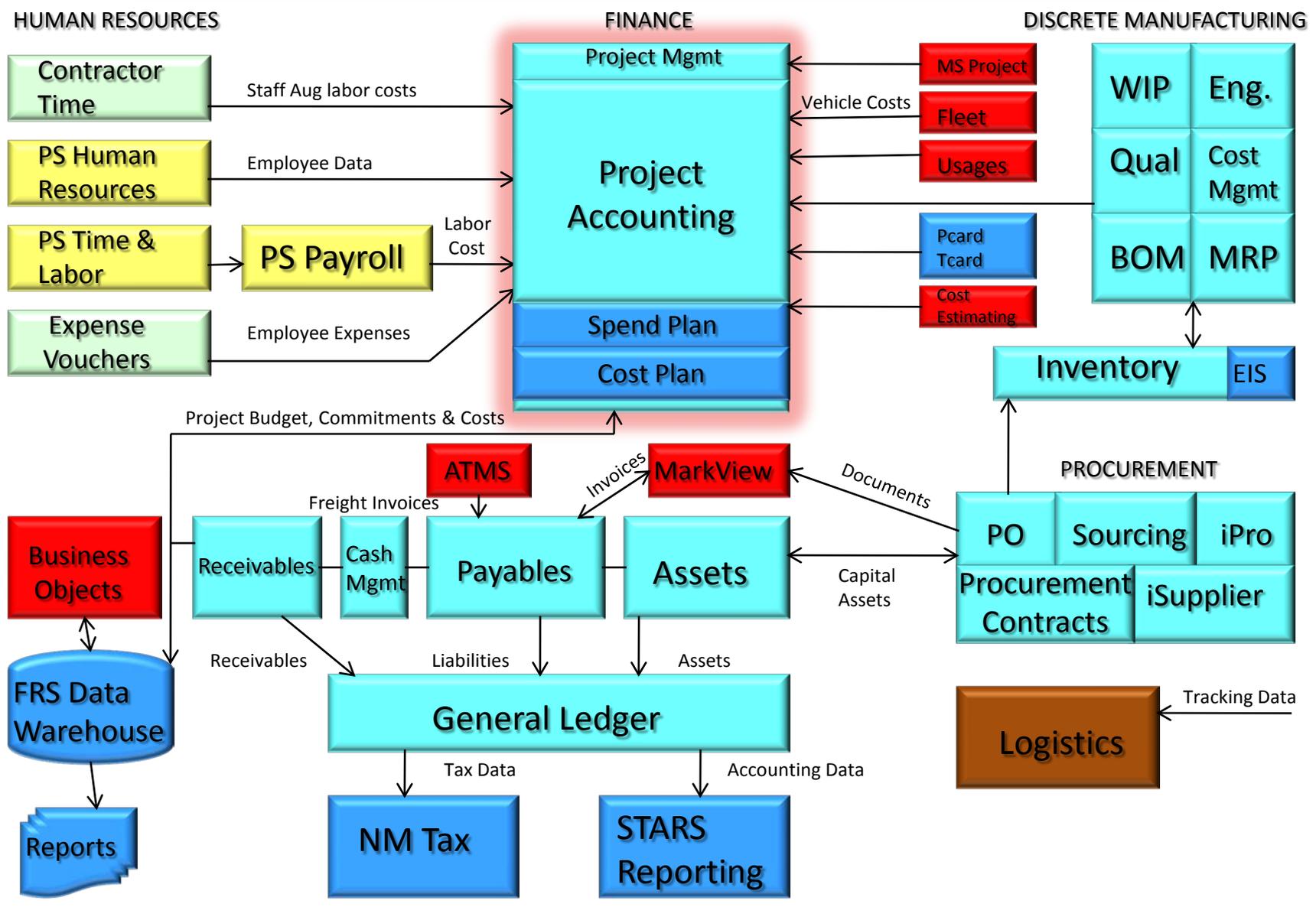


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Agenda

- Overview of Oracle E-Business Suite at SNL
- Business Case For R12 Upgrade
- Challenges & Mitigations
- Available Documentation
- Upgrade Planning
- Upgrade Best Practices
- Follow up – Was it worth it
- Q&A

Sandia National Laboratories Enterprise Resource Planning System

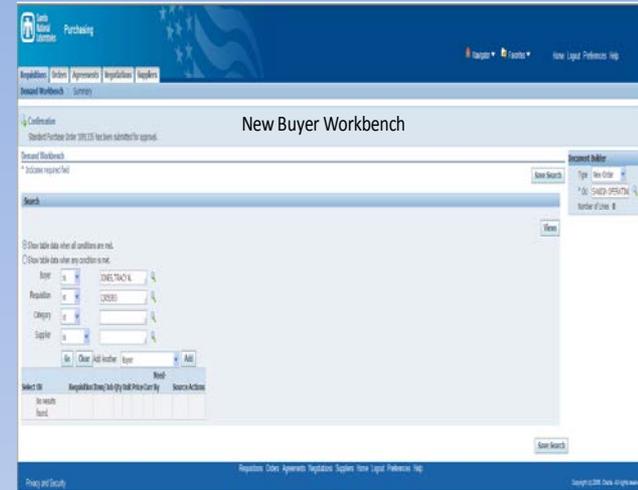


Business Case For R12 Upgrade –

Version R12.1.2 functionality can simplify the business and reduce customizations

- New Sub Ledger Accounting (SLA)
- New Consolidated Purchasing Workbench
- New Centralized Banking Module
- New Payment Processing Module
- New BI Publisher Report Format
- New Look & Feel – streamlined processes & navigation
- New Federal Support of Agreements
- Ability to run depreciation more than monthly
- New middle tier to support technology and security
- Including Service Oriented Architecture (SOA) capabilities to integrate with other corporate applications

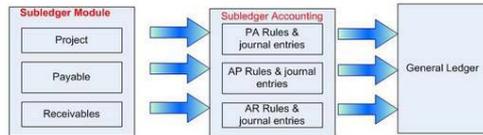
ORACLE E-BUSINESS SUITE R12 UPGRADE



Sub Ledger Accounting Model

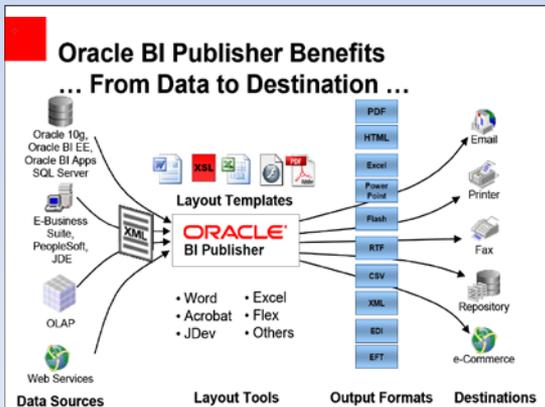


Release 12.0 Accounting model is separated from the transaction model

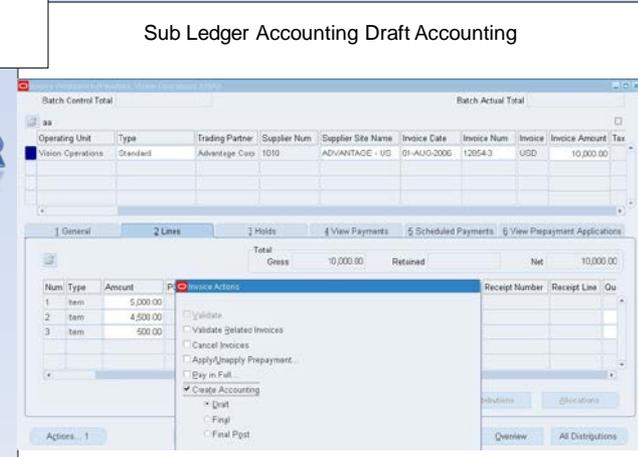


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Challenges & Mitigations

- **Oracle 11.5.10.2 went into extended support November 2010**
- **Fusion vs. R12 Upgrade vs. R12 Reimplementation**
- **Support Model**
 - Process Owner, Functional Team Member, Technical Analyst
 - Change Control Boards
 - Turnover
 - Overbooking
- **Upgrade Planning**
 - Projects can be between 10 to 18 months
 - Conference Room Pilots
 - New hardware platforms
 - Funding
- **Narrow Window for Upgrade**
 - Need to minimize downtime
- **Testing**
 - Unit
 - Integrated
- **Communication & Training**
- **Risk Reduction**

Available Documentation

- **Release 12.1 Documentation Library**
http://download.oracle.com/docs/cd/B53825_07/current/html/docset.html
 - Oracle E-Business Upgrade Guide, Release 11i to 12.1.3 E16342-03
- **Oracle E-Business Suite Technology Blog**
<http://blogs.oracle.com/stevenChan/>
 - Identifying Data Model Changes Between EBS 12.1.3 and Prior EBS Releases
https://blogs.oracle.com/stevenChan/entry/ebs_data_model_1213
EBS Data Model Comparison Report Overview (Note 1290886.1)
 - Four Critical Changes for Customizations in Release 12
https://blogs.oracle.com/stevenChan/entry/four_critical_changes_for_cust
 - Oracle E-Business Suite Release 12.1.3 Release Content Documents (Note 561580.1)
- **Oracle E-Business Suite 12.1 Information Center (Oracle Support 807937.1)**
- **Webcasts from Oracle on many R12.1.3 Topics**

Upgrade Planning

- Initial Analysis
- Stand Up R12.1.3 Instance
- Gap & Customs Analysis
- Process Analysis
- Conference Room Pilot
- Design Development
- Build Development
- Test in Development
- Build Quality
- Integrated Test in Quality
- Communication & Training
- Rollout
- Post Upgrade Steps

E-Business Tech Stack Version Changes



	E-Business Version	
	11.5.10.2	12.1.3
Database RDBMS	9iR2 9.2.0.6	10gR2 or 11gR2 10.2.0.4 11.2.0.2
Developer Forms & Reports	6i 8.0.6.3	10g 10.1.2.3
Web & Java	9iAS 1.0.2.2.2	10gAS 10.1.3.4
Java (JDK)	Jinitiator 1.3.1.24	Sun JRE 1.6.0_24

Upgrade Best Practices

- Understand and mitigate project risks
- Do technical upgrades ahead of the upgrade window
 - The Upgrade Manual Script (TUMS)
 - Oracle Application Tablespace Model (OATM)
 - Database Upgrades
 - Data Cleanup
- Size for at least 10% to 15% growth in database
- Conduct at least three test cycles
- Communicate early and often – suggest Upgrade Portal
- Bring in additional people for testing
- Contract for at least one consultant to fill in gaps
- Training with job aids, User Productivity Kit, Abode Captivate training, Classes
- Enjoy the process

Follow-up

- Number of bug fixes for R12.1.3 was relatively light
- Reserve time for super users to acclimate themselves
 - Ran into some STARS Transmission issues but quickly worked out
 - Built some new balancing reports
- Oracle Support worked with us to quickly resolve data conversion issues and to create patches to resolve issues
- It was a lot of work but it was worth it
- New Features in R12.1.3 speed up modifications
 - Sub Ledger Accounting with B&R Recast
 - Changing Banks
 - Using Sourcing Abstract
- With all the issues on Cyber Security we are grateful to be on newer middle tier & technology

