



Agenda

- The Boeing Company
- Challenges / Complexity in the business process
- Solution
- Demo video
- Progress / Results to date
- Where headed in future

The Boeing Company

- World's largest aerospace company and leading manufacturer of commercial jetliners and defense aircrafts, space and security systems.
- Headquartered in Chicago with commercial manufacturing and engineering operations in Seattle area
- Employs more than 170,000 people across the United States and in 70 countries.
- Products and tailored services include commercial and military aircraft, satellites, weapons, electronic and defense systems, launch systems, advanced information and communication systems, and performance-based logistics and training.









Boeing Research and Technology group - What does it do?

Preferred provider of technologies across the entire Boeing enterprise

Provides innovative support for current products, innovation for future products and services, global scouts for innovative technologies, and solving customers' technology challenges

Drives efficiency into the enterprise product and process standards and bring new capabilities across programs



Develop and maintain multiple projects that include engineering proof of concepts (POC).

Projects include individual statements of work (SOW) with specific budget, resources, schedules, and key milestones as part of their deliverables.

Business Process Challenges & Complexities

Program Management and Audit (Internal/External) Activities challenges & complexities: Large Number of Projects Diverse Nature of Projects/Products Difficult and Time Consuming to get Geographically Distributed Team an accurate Project Status Heterogeneous Systems used for Managing Projects Non-standard ways of Managing Projects

Solution

System that enables a standard and common method to manage and configure the entire lifecycle of all projects within its organization including the ability to support external audits required by customers

Manage projects

- Create, modify, and access project information including:
- Budgets, Resources, Risks, Schedules, Statements of Work, Policies & Procedures, Product Specifications, and Requirements
- Manage multi-project programs

Business workflow

- Stage-Gate Reviews
- Configuration & Change Management

- Track, Manage & Report on the Configuration Status of each individual Project
- Report generated based on Status of all Project Objects
- Rollup Results into a Single View for Senior Management Review and Decision Making
- Role-based and Customizable by the End User

Solution using ARAS

The Service Oriented Architecture (SOA) approach to facilitate the federation and integration of all of the systems necessary to create a common project management environment. ARAS Innovator was at the heart of this approach and formed the Service Manager for the Software System

- A collection of standardized reusable services using service-orientation design principles to build a service inventory
- Orchestrating services into Project Dashboard and Business Processes

ARAS Innovator for managing Process (definition, execution and monitoring; Gate Reviews).

Separation of "stable" services from "changeable" business processes using ARAS to enable quick changes in the Software System

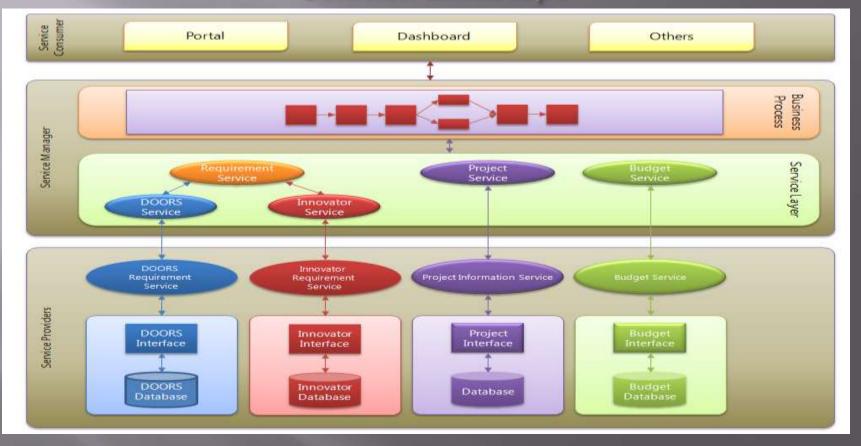
ARAS Innovator for WBS (Project Template)

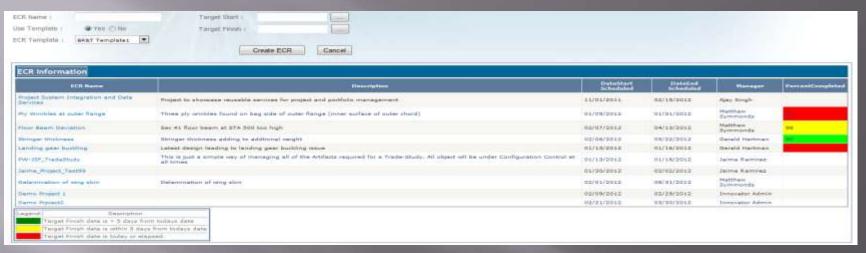
ARAS Innovator and IBM Doors for Requirements Management

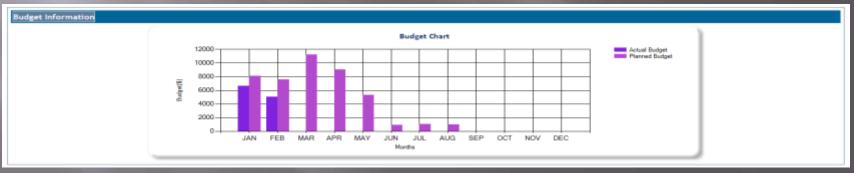
ARAS Innovator for Budget

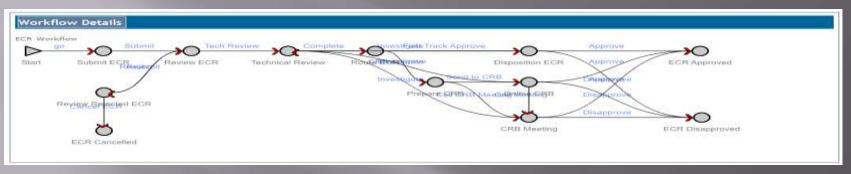
Microsoft SharePoint for Project Dashboard

Solution Landscape

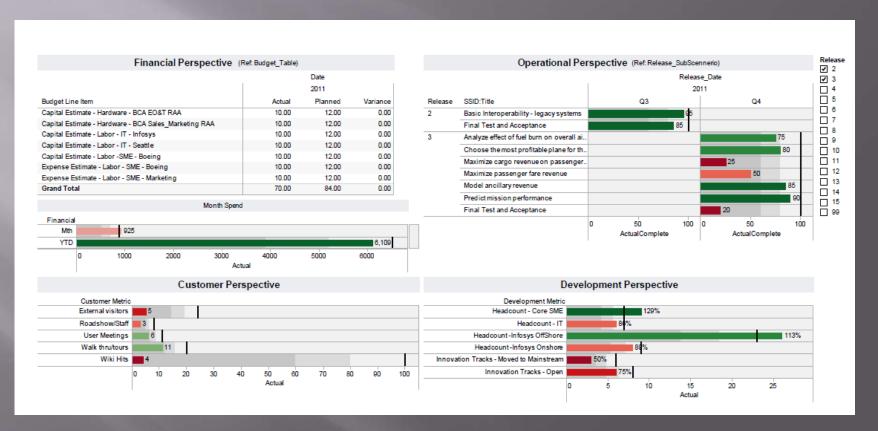












Progress / Results to date

Service Manager

Integration with SharePoint

Service Inventory (Project Information, Requirement, Budget, Schedule, Workflow and Login)

Basic Requirements Management in ARAS

Basic Budget Management in ARAS

Where headed in future

Expand the Service Inventory

Enhance the Requirement Management features in ARAS

Enhance the Budget Management features in ARAS

Customization of Dashboard by Users

Develop an independent non .NET client to use Aras

Non .NET Client Interfacing with ARAS

- Applications developed using .NET can interact with ARAS using IOM.dll
- ARAS functionalities can be exposed through web services.
- Web services can be generated easily using ARAS "Web Service Configuration" and ARAS web service code generator
- Any .NET or Non .NET application can interface with ARAS through published web services

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