

Getting Started with Enterprise Architecture using Rational System Architect and Focal Point

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Cutting cost and risk by making the right strategic decisions

Actionable Enterprise Architecture



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Businesses are facing an unparalleled rate of change





Economic pressures are driving the need to achieve greater value from enterprise investments

"Supporting investment in information technology is critical in order to raise productivity... Those who maintain their investments in IT will be primed for more aggressive growth when the economy recovers."

> - Helen Walters, BusinessWeek, January 26, 2009 "For Recession Help, an IT Innovation Tax Credit?"

"Transformation and innovation will lead recovery. When we come out the other side of this crisis, companies will look quite different – and technology will have been a catalyst in those changes.

> - George Colony, Forrester Research, October 26, 2008 "Why this tech recession will be different"

"Although times are lean, many companies are finding that they can't afford to postpone IT investments that lead to increased security, efficiencies or revenues."

> – Denise Dubie, NetworkWorld, April 14, 2009 "Recession resistant: 10 technologies CIOs are still buying"

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The need for transformation planning and execution is clear...



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Make the right strategic decisions, align investments with priorities

1. Make faster, better-informed strategic and tactical decisio Enterprise blueprinting with interactive visualization and analysis "Our enterprise planning helped us recover \$10M in costs by optimizing IT landscapes & processes"

2. Crystallize business priorities for IT action Make planning actionable



"We can easily prioritize our next steps, and predict how change will impact the organization."

3. Achieve cost savings from consolidation, M&A and other change initiatives

Increase operational efficiency while reducing recurring and incremental costs



"We were better able to visualize and compare our current infrastructure with our future goals and visualize the journey between the two."

4. Turn strategy into execution and measure the results

Efficiently deliver solutions that keep pace with the business plan



"We have seen a 33% reduction in IT end-user costs based on implementation of enterprise architecture"



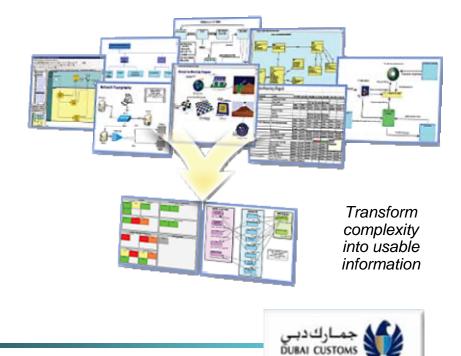


1. Make faster, better-informed strategic and tactical decisions Enterprise blueprinting with

interactive visualization and analysis

- Link, consolidate and analyze business and IT information in blueprints
 - Strategies, goals, and organizational info
 - Business architecture and process analysis
 - Applications, services, and data
 - Systems, networks, and components
- Simplified modeling with robust support for standards
 - Create a common and consistent information resource to guide enterprise planning
 - Multiple modeling standards in one tool
 - Changes are propagated throughout the data blueprint, simplifying maintenance

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"We are able to manage enterprise information, run impact analysis, and make decisions more effectively." *Juma Alghaith Executive Director for Customs Development*



2. Crystallize business priorities for IT action

Make planning actionable

- Prioritize competing projects and supporting investments
 - Perform cost benefit and trade-off analysis of the business and IT architecture
 - Collaborate on priorities across broad constituencies
- Show impact of portfolio decisions
 - Extend application planning into enterprise architecture
- Assure projects remain aligned with business goals
 - Use IT roadmaps to guide planning to successful outcomes



"[We] saved time and money by prioritizing applications for reuse, and by identifying areas where spend is not aligned to the IT roadmap."

> Chief Information Officer Large Financial Organization

3. Manage the impact of change, consolidation, and M&A

Increase operational efficiency, reduce recurring costs and mitigate risks

- Understand your current state, and use it to map to your future optimized state
 - Set the course to optimal ROI
- Identify redundancy and reuse of business and technology assets
 - Enterprise analysis reports provide complex IT information in business-friendly formats
- Identify and minimize execution risk
 - Group information for accurate integration planning
 - Reveal critical data required for accurate decisions

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 Minimize execution risk through transformation due diligence



"We used enterprise architecture to guide the consolidation of our US operations in an efficient and cost-effective manner."



4. Leverage resources for innovation; improve organization performance

Realize business benefits from technology solutions

- Make architecture actionable
 - New integrations *drive* transformation and traceability of artifacts from business and IT strategy to solution development and delivery
 - Pinpoint how and when to leverage services and technologies
 - Improve efficiency and agility change architectures to respond to business change
- Reduce cost and improve solution quality
 - Achieve increased asset reuse and governance
 - Assure new applications and services are driven by business needs



"The challenge in any company is to do more with less, [our enterprise architecture] continues to enable us to achieve our goals at relatively low cost."

Wayne Pales, Head of Strategy & Architecture, AGL



Make the right strategic decisions; align investments with priorities

IMPACT

BPMN Process



Rational System Architect

- Streamline your decision-making
- Consolidate and link business and IT information
- Provide key input into enterprise planning
- Provide accurate risk and impact analysis
- Guide successful enterprise transformation
 - Rational Requirements Composer ensures business stakeholder satisfaction by enabling more precise requirements elicitation



 Rational Asset Manager and Tivoli CMDB reduce cost by driving greater reuse across distributed and legacy environments



Rational Focal Point

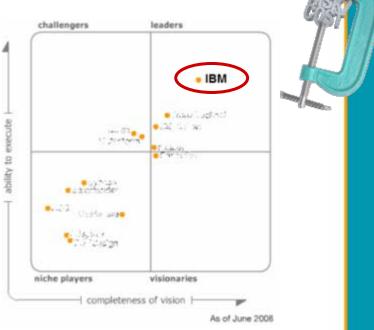
- Build, Buy, and/or Implement the right assets
- Build and implement assets in the right manner
- Maintain & operate assets in the right ways and retire or replace them at the right times
- Rational Software Architect integrates with Rational System Architect to drive alignment from enterprise architecture to solution architecture and design





Rational System Architect

IBM's Enterprise Architecture Foundation



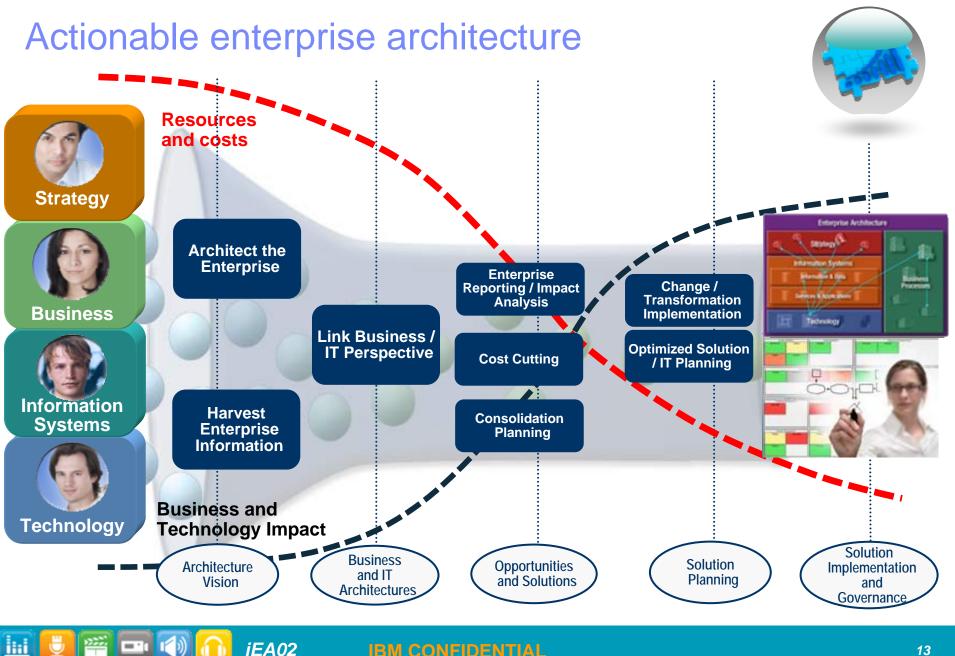
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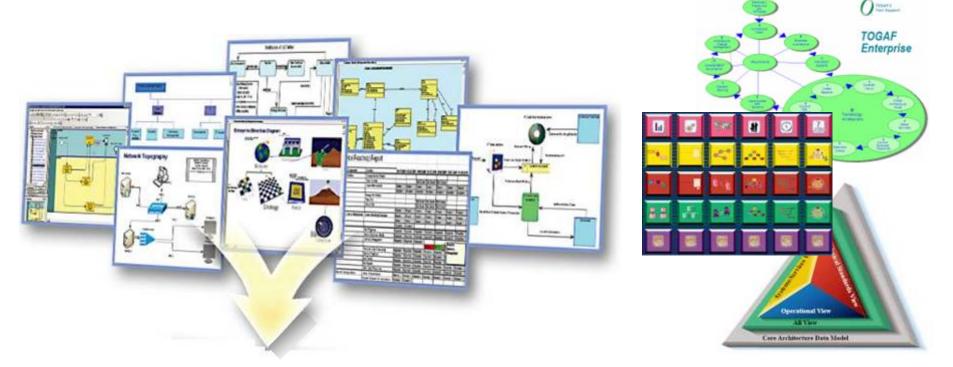
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Capture and model all domains of the organization Utilize industry-standard modeling notations and frameworks



Multiple Modeling Notations and Standards

- Strategy Modeling (Business Motivation Model (BMM))
- Business Process Modeling (BPMN)
- Network and Infrastructure Modeling

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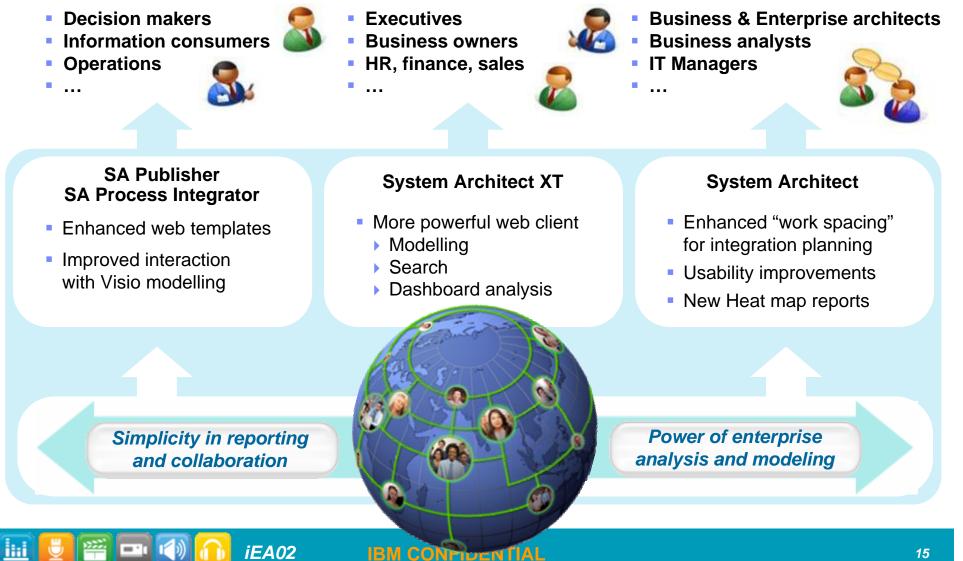
Data / Information Modeling

Industry Frameworks

- TOGAF, Zachman
- DoDAF, DoDAF ABM
- MoDAF, NAF, FEA (iRMA)
- Custom Framework Manager



Rational System Architect Multiple User Interfaces: Web portal, Web client, Visio interface, Thick client

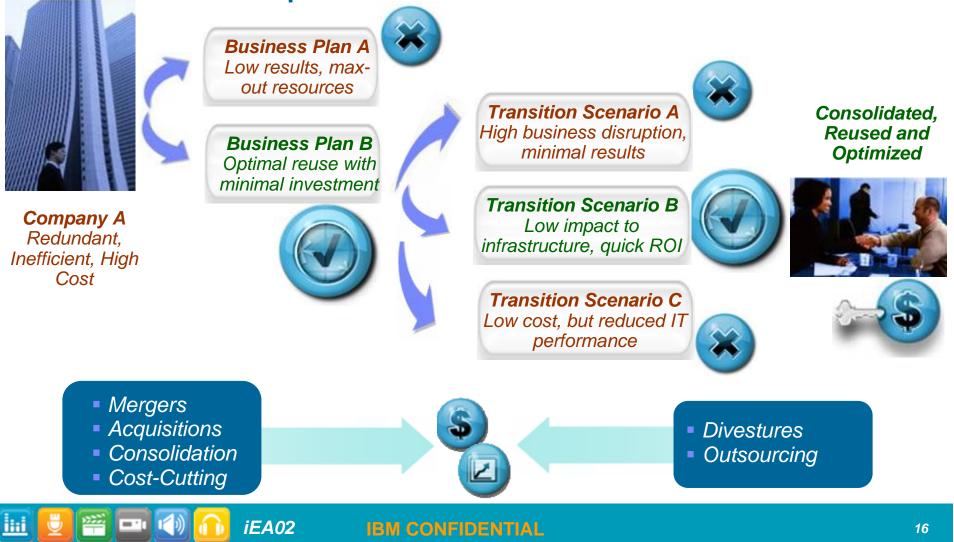


IBM Rational Software Conference 2009

Group information for more accurate planning Unique folders & workspaces for current- and future-state analysis

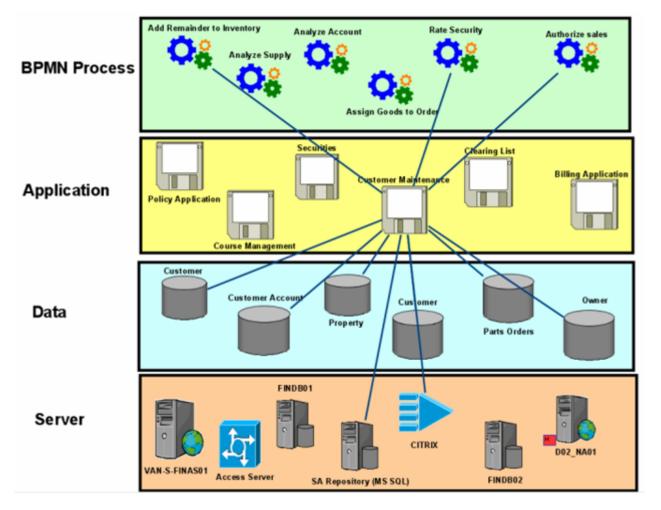


Example consolidation exercise





Visualize the enterprise and the impact of change



Understand enterprise strategies and their implementation Understand how infrastructure changes impact the business Understand projects' dependencies and impacts on the organization

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Reveal risk and enable planning

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Issues answered directly:

- Which existing applications will be enhanced and when?
- What new applications will be deployed and when?
- What enabling technologies are required?
- What data will be migrated, and when?



Current Environment



Desired Environment

Issues requiring further investigation:

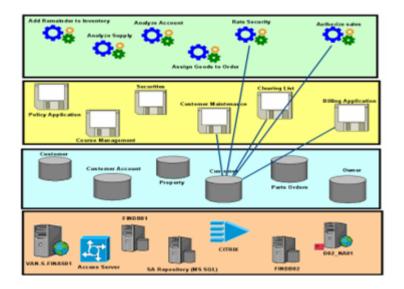
- What resources are required to support this transition plan?
- What if Project X is delayed?
- How do we ensure continued support of critical processes?
- What has the highest risk?





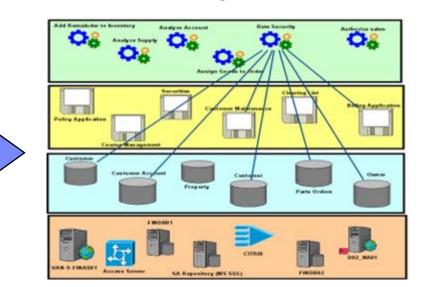


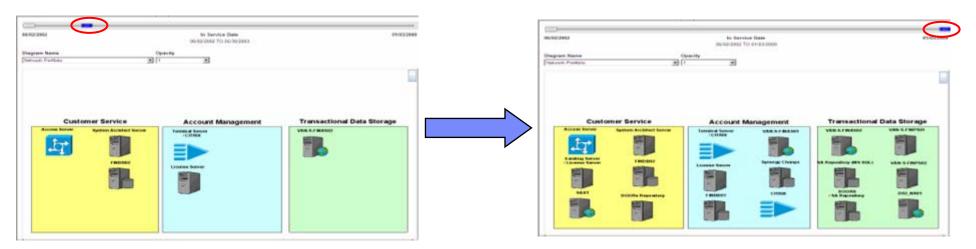
Visualize and manage the transformation Current Proposed



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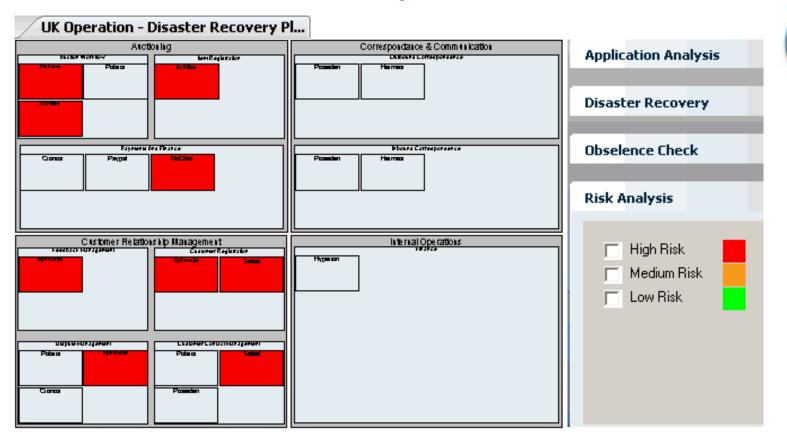
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Avoid risk, locate reuse, optimize IT assets



- Identify redundancy, risk and reuse of business and technology assets
 - Enhanced heat maps report IT information in business-friendly formats

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Example: This Heat Map diagram shows Apps sitting on Servers whose Operating Systems are due to change by a certain date, yet those Apps will still be supporting services required by business



Collaborate on the results



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Gain clarity in enterprise decision making

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- > Enhanced web collaboration creates a common perspective of the organization, from one location
- > New enterprise search quickly reveals critical data required for accurate decisions



The complete enterprise offering

Quickstart and Rapid Deployment

- Proven Method
- Based on Best Practices
- Covers Tool and Methodology
- Demonstrate Immediate Value

•Industry Leading EA Solutions

Tools

- •Collaborative Environment
- Intuitive Usability

Certification and Training

- Carnegie Mellon EA Certification
- e-Learning
- Tool and Methodology Training



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Two customer success stories...



Energy in action®



Doing More With Less

Customer Pain: AGL needed to <u>reduce time and effort</u> to complete analysis required for technology investment decisions and to <u>mitigate the risks</u> associated with loss of IP when transitioning to an outsourced IT support model.

The IBM Solution: AGL <u>identified systems for</u> acquisition and decommissioning, aligned technology investment decisions with business strategy, and <u>effectively managed the transition</u> to outsource IT services.

The Bottom Line: "The challenge in any company is to do more with less," said Wayne Pales. "System Architect continues to enable us to <u>achieve our goals at a</u> <u>relatively low cost</u> compared with historic approaches.

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Aligning IT with Business Need

Customer Pain: The reliance on IT has changed. <u>IT</u> <u>must be highly available</u>. IT has become highly integrated, and projects must be related. Setting planning process to manage requirement for integration between business and IT, a<u>ddressing increasingly</u> <u>complex applications and data sharing requirement.</u>

IBM Solution: The Projects can now be tied to business goals, governance is the "reminder". <u>Organizational</u> resources can be applied where they are most critically <u>needed</u>. Established a risk platform so that when change happens, we know the impact beforehand.

The Bottom Line: "... enterprise planning enables us to better visualize and compare our current environment with our future goals and visualize the journey between the two."

Dave Keifer Enterprise Architect, Christiana Care Health System





Rational System Architect

Rational Focal Point for Product and Portfolio Management

Enterprise Architecture and Application Portfolio Management



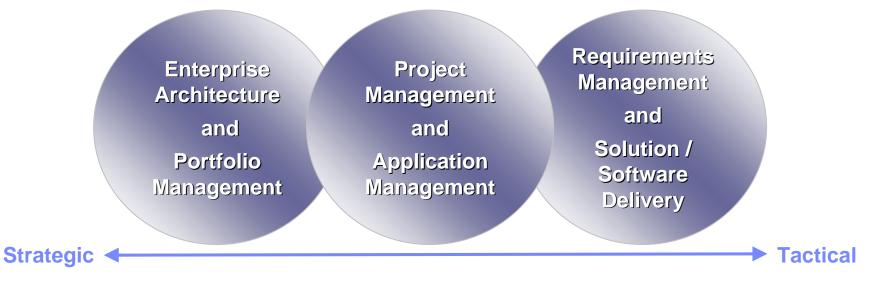


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Linking strategy to execution



- What is our current state?
- Is the portfolio ALIGNED with our strategy?
- Is the portfolio delivering the expected business VALUE?

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- Are we doing the RIGHT projects?
- Are we spending in the RIGHT areas?
- Do we have the RIGHT resources?
- Do we have the right BALANCE of risk/reward?

- Doing projects well?
- Delivering results on time and budget?
- Enhancing communication and productivity?

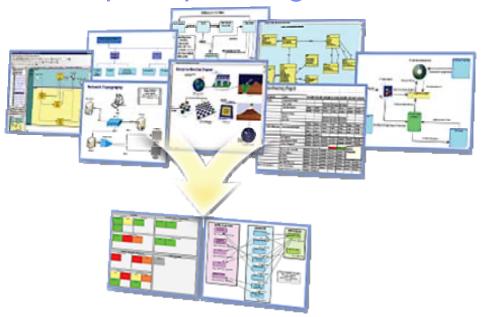
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Start with the big picture An enterprise view is required for enterprise planning

Enterprise blueprinting with interactive visualization and analysis

- Link, consolidate and analyze IT architecture information in blueprints
 - Strategies, goals and organization
 - Applications, services and data
 - Systems, networks and components
- Simplified modeling with robust support for standards
 - Create a common and consistent information resource to guide enterprise planning
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Rational System Architect

Enterprise Architecture identifies corporate systems, their key properties, and their interrelationships, and plans for and guides the evolution of the enterprise systems to support and enable the evolution of the enterprise in its pursuit of strategic advantage



Solicit feedback for organization enhancement

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Rational Focal Point for Product and Portfolio Management

- Export architecture objects and assets to Focal Point for prioritization
 - Perform cost/benefit analysis, weight user importance against factors such as cost, development times, and resources available.
- User feedback guides decisions to:
 - 1. Build, Buy, and/or Implement the Right Assets
 - 2. Build and Implement Assets in the Right Manner
 - Maintain & Operate Assets in the Right Ways and Retire or Replace Them at the Right Times

"Everything that can be counted does not necessarily count; everything that counts cannot necessarily be counted"

- Albert Einstein

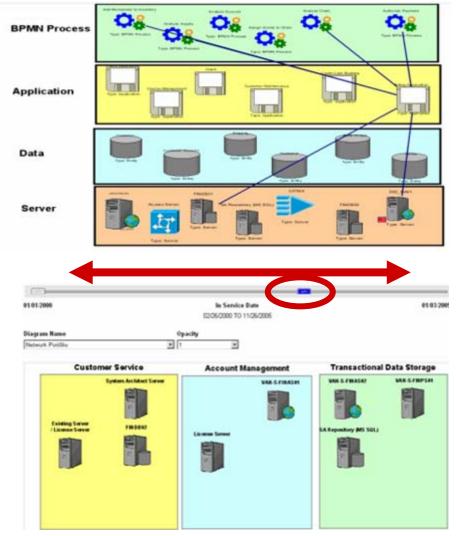


Use feedback to drive IT change and transformation Understand impact to the organization

- Enterprise planning supports impact analysis and transformation
 - Executive dashboard and visual reports for impact analysis based on related information across the organization
 - Visualization and time-based analysis for effective migration from current-state to desired future-state
- Application-level impact analysis to optimize future investments
 - Quickly identify how potential changes will affect applications or subsystems
 - Traceability matrix supports analysis of change to detailed requirements
 - Identify and reuse IT/engineering assets and applications that support design environment

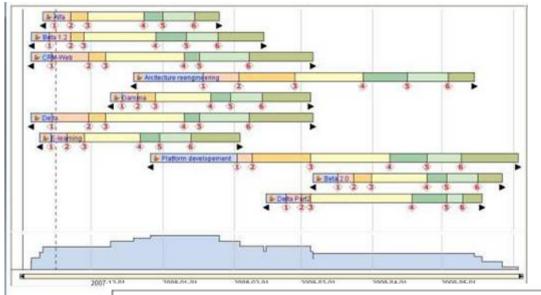
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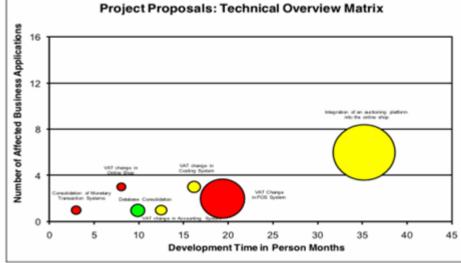


Project and resource management



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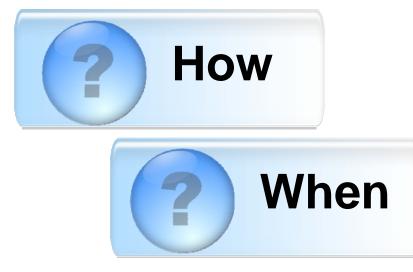
Rational Focal Point for Product and Portfolio Management

- IT Roadmaps and Project Analysis:
 - Scope transformation, consolidation, and deployment efforts
 - Identify and control resources
 - Control costs and quality
 - Projects remain aligned with business goals throughout their execution.



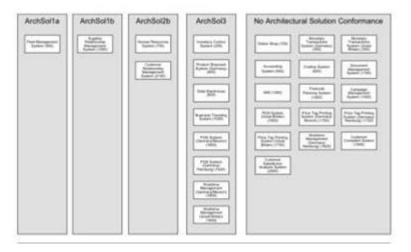












• What do we have? Architectural Building Blocks Application Inventory Business Architecture



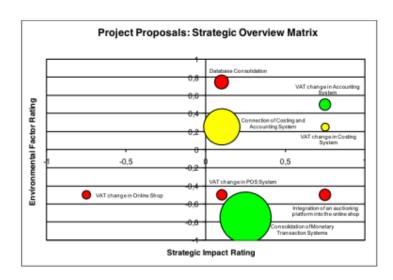


 Where should we be spending our precious resources?
 Business Value Identification Financial Analysis Risk Management

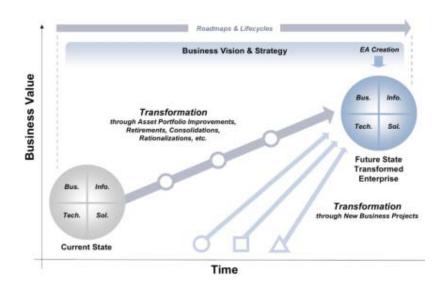
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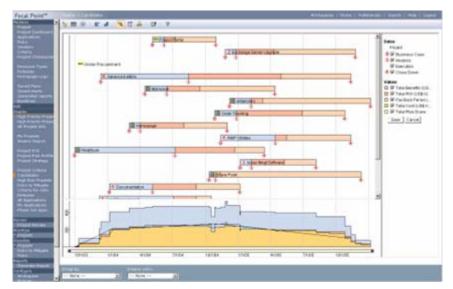




• Where are we going? Architectural Options Business Impact Business Process Optimization







• How and When will we get there?

Resource Planning and Management Release Planning Monitor Results









