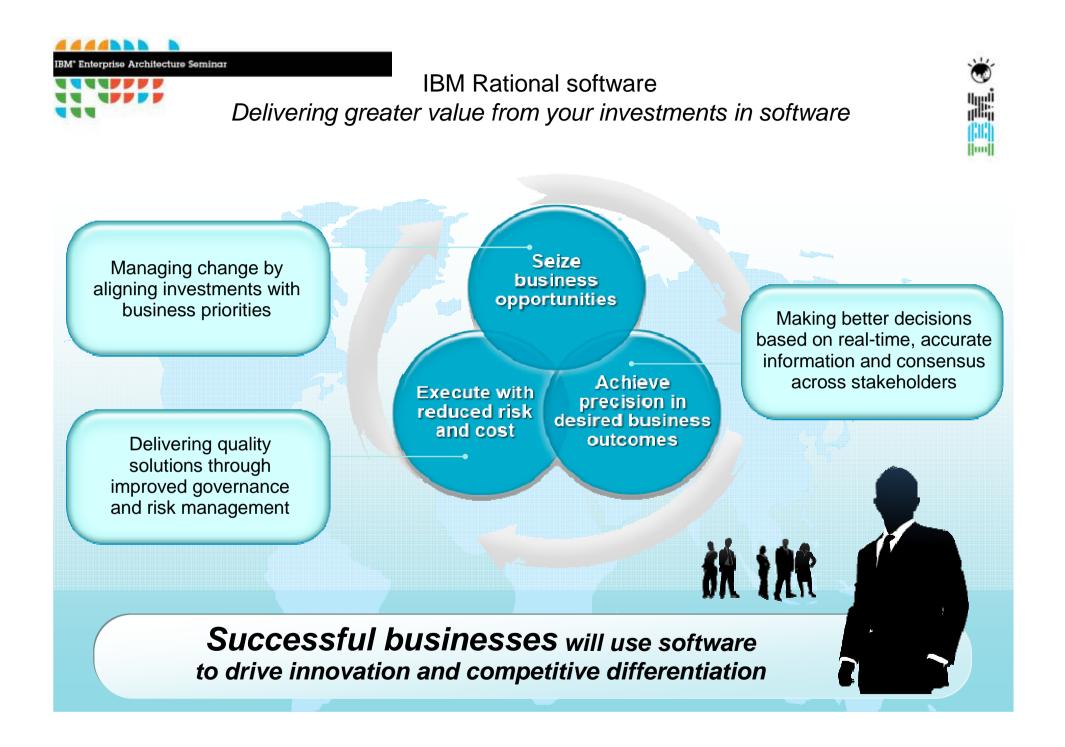
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Turning Business Insight into Foresight

John MacLeod, Senior Consultant

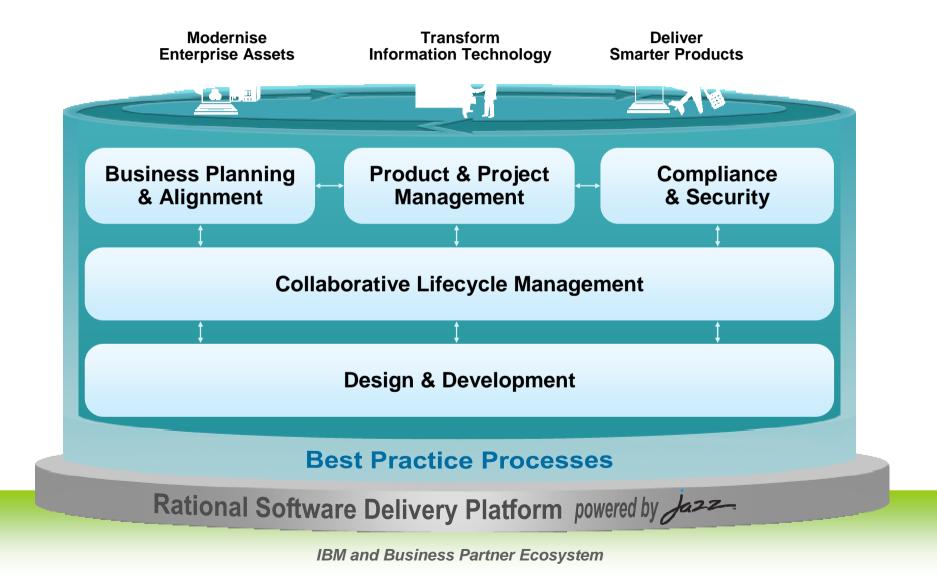
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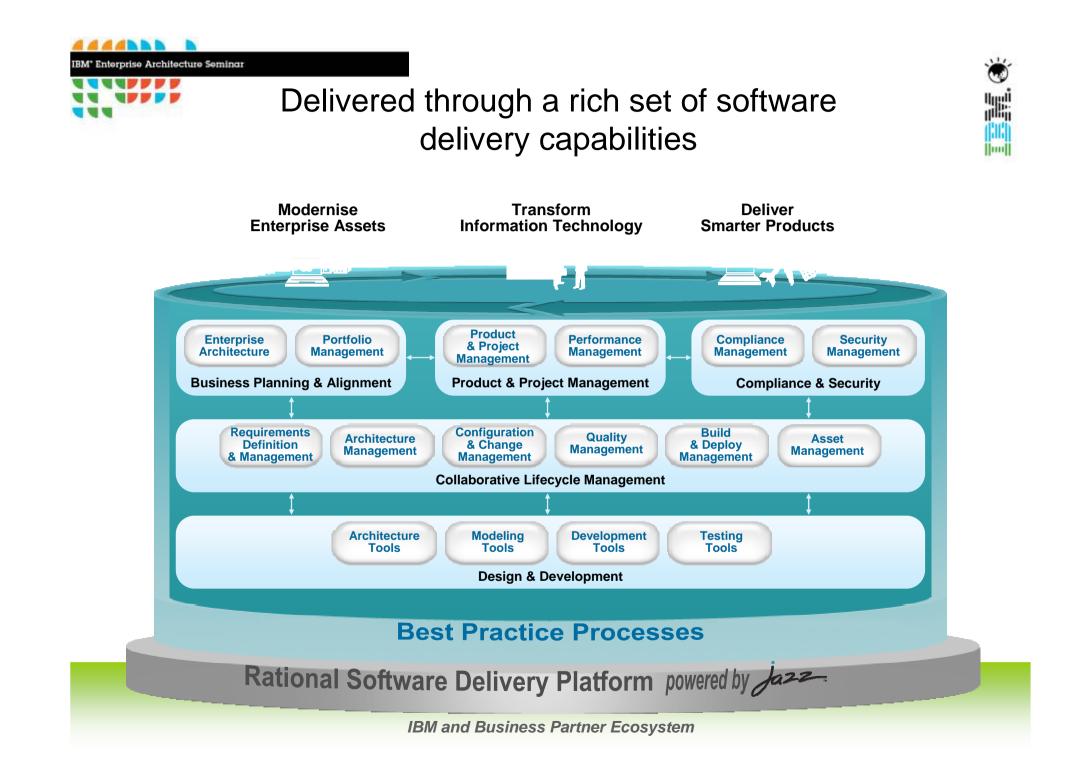




Enabled by the Rational Software Delivery Platform & ecosystem

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The New Order



Organisations must recognise that they are no longer making IT investments – they are investing in IT enabled change in the overall business system.

John Thorp - The Information Paradox

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Winners!



Winners in the global marketplace have been firms that can demonstrate *timely responsiveness* and *rapid and flexible product innovation*, coupled with the management capability to effectively coordinate and redeploy internal and external competences.

...companies can accumulate a large stock of valuable technology assets and still not have many useful capabilities.

'Dynamic Capabilities and Strategic Management', Strategic Management Journal, vol. 18, no. 7

Business Reality #1:

Volatility, Consolidation & Competitive Threat

Demand strategic planning to reshape the business and manage MAD*



• CIOs who said they were aligned with the business, enabled a new revenue stream more than twice as often as those who were not

(24 % versus 11 %)**

• Aligned CIOs said they had used IT to create a competitive advantage

(38 % versus 23 %)**



Execution Mandates

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- **Corporate Strategy:** What are the strategic goal and objectives of the business
- Inventory: What technology, Application and solutions do we have?
- Innovation: Do we need to change to achieve our enterprise goals? ...and How?
- **Impact:** What impact will these changes have on our customers, the business and our shareholders?
- **Integration:** How will we integrate these organisational and technological changes into the business without disrupting operations?

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Business Reality #2:

Shifting customer & business preferences

Require a balancing Innovation, Value and Risk in current and future work

Execution Mandates

- Accelerate intelligent innovation
 - Increase innovation speed and improve market accuracy
 - Accelerate time-to-market and extend time-in-market
- Improve the end-to-end innovation process
 - Make smart, data-driven decisions and make them faster
 - Full traceability across entire innovation lifecycle
- Improve decision confidence end analysis paralysis
 - Assure fit-to-market, fit-to-customer and fit-to-strategy
 - Transparency, accountability, timeliness, objectivity
- 38 % Improperly value opportunities
- 37 % Decision process not based on objective information
- 25% Poorly defined portfolio decision criteria
- 21% Unwillingness to stop projects underway



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Business Reality #3: Limited resources & ever shrinking budgets

Dictates accurate delivery, forecasting and nimble execution





Execution Mandates

Deliver first time, on-time & within budget

 Continually adjust delivery based up on shifting demands

Manage Risk

- Identify execution risk and recommend mitigations
 Provide Transparency
 - Identify "at risk" projects before they are a problem
- Leverage frameworks and reporting standards
 Create Repeatability
 - Examine and triage both success and failures

"High project failure means you're wasting money, and there's even less tolerance for that in a down economy,"

(Margo Visitacion, VP Forrester Research)

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Need for Improved Governance of IT Projects

- Are your IT investments not supporting the business strategy or providing expected value?
- Do you have too many projects, resulting in inefficient use of resources?
- Are projects often delayed, run over budget, and/or do not provide the needed benefits?
- Is there is an inability to cancel projects when necessary?
- Do your projects need to ensure compliance to industry or governmental regulations?



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What you really need is an approach that aligns the strategic goals of the business and the IT strategy, in a financially viable manner.

What is missing is a structured and integrated approach.





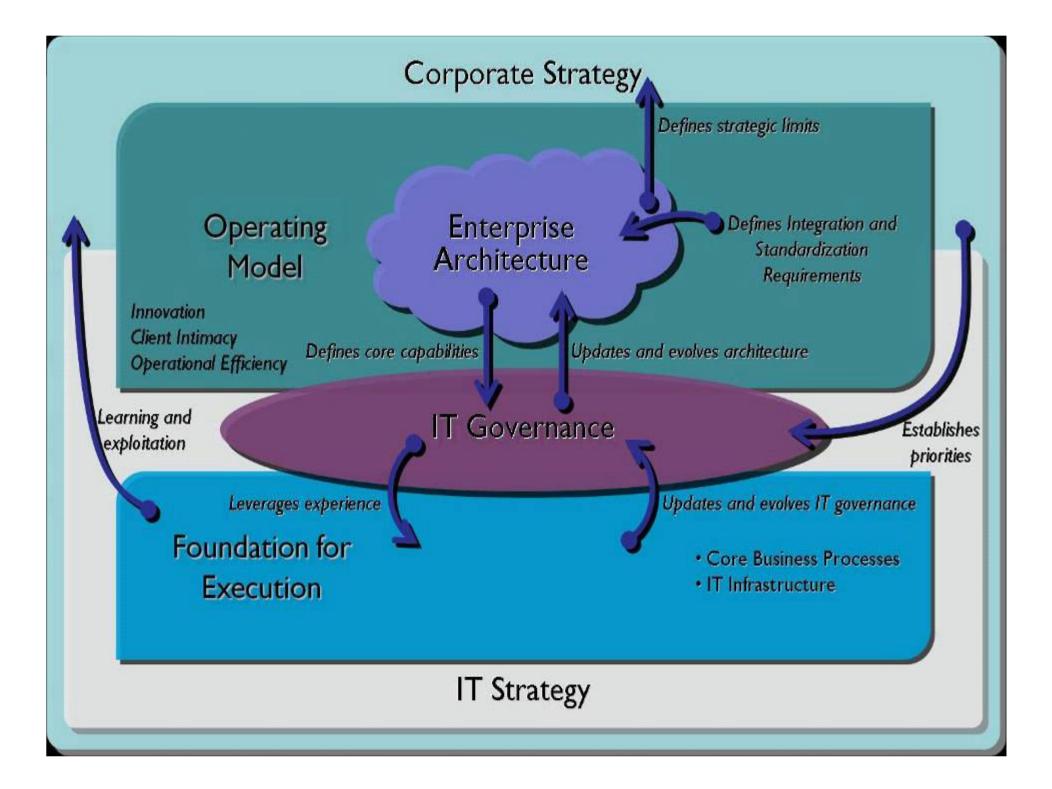
What is the payoff from a structured approach?

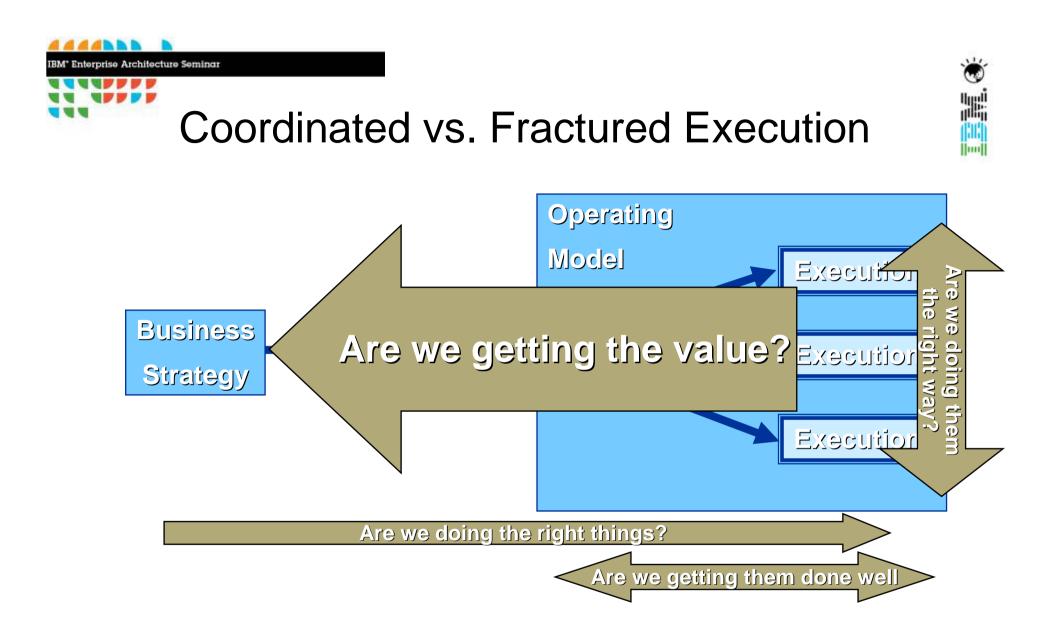
MIT Center for Information Systems Research (CISR) found

Firms with focused strategies and above-average IT governance capabilities had more than 20% higher profits than other firms following the same strategies.

PETER WEILL AND JEANNE W. ROSS, IT GOVERNANCE, HOW TOP PERFORMERS MANAGE IT DECISIONS FOR SUPERIOR RESULTS, HARVARD BUSINESS SCHOOL PRESS, USA, 2004



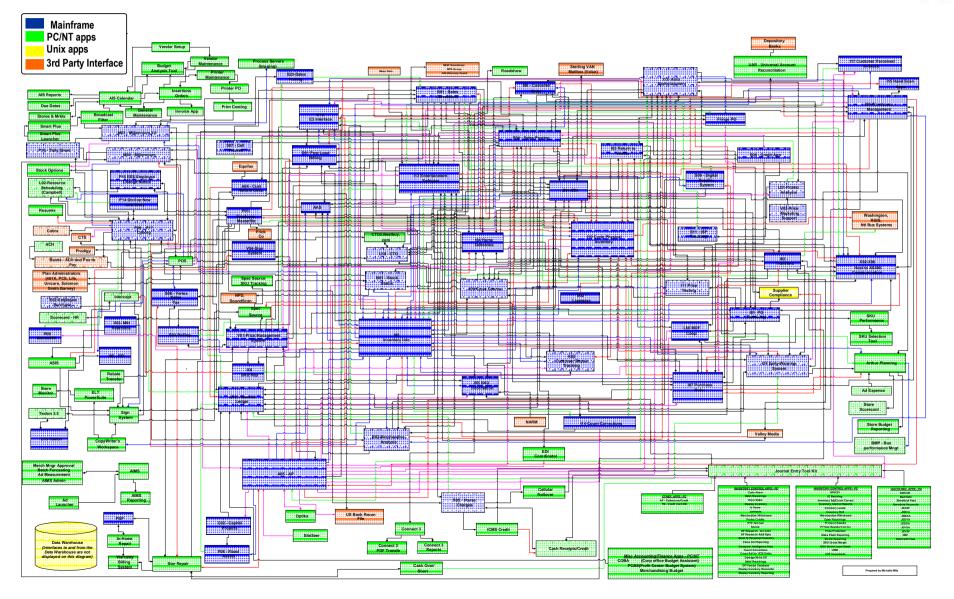




Organisations need strong governance and communications processes to ensure strategic alignment of both architecture and requirements

444 IBM[®] Enterprise Architecture Seminar The Problem is ...you're dealing with this





Integrated Enterprise Architecture & Portfolio Management is recognised industry wide by organisations like:



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THE Open GROUP Making standards work®



Val IT allows business managers to get business value from IT investments, by providing a governance framework that consists of a set of guiding principles, and a number of processes conforming to those principles that are further defined as a set of key management practices.

The major domains are:

- 1. Value Governance (VG prefix)
- 2. Portfolio Management (PM prefix)
- 3. Investment Management (IM prefix)

The TOGAF Architecture Development Method (ADM) provides a tested and repeatable process for developing architectures. All of these activities are carried out within an iterative cycle of continuous architecture definition and realisation **that allows organisations to transform** their **enterprises** in a controlled manner **in response to business goals and opportunities**

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The Seven Principles of Val IT[™]



IT-enabled investments will:

- 1. Be managed as a **portfolio** of investments
- Include the full scope of activities required to achieve business value
- 3. Be managed through their full economic life cycle

Value delivery practices will:

- 4. Recognise **different categories** of investments to be evaluated and managed differently
- 5. Define and monitor key metrics and respond quickly to any changes or deviations
- 6. Engage all stakeholders and assign **appropriate accountability** for delivery of capabilities and realisation of business benefits
- 7. Be continually monitored, evaluated and improved

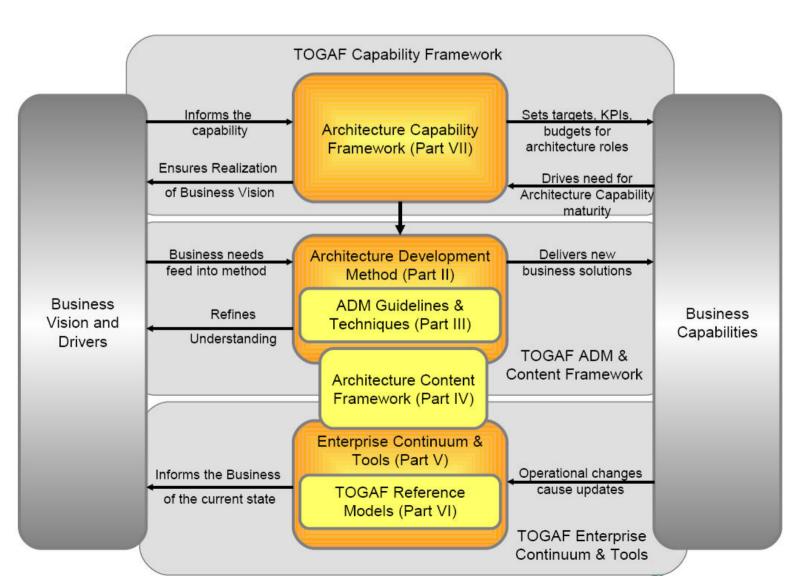
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TOGAF - Translating Business Drivers into Capabilities

WM



Keys to optimising Enterprise Architecture Seminar software and systems investments hui Performance Enterprise Project Architecture < Planning Management Management Management **"Doing Things** "Measuring "Right Project, "Doing the **Right**" Performance **Right Time**, **Right Things**" **Right Scope**" Against **Business Objectives**" and Process **Optimise project Align business** Manage the IT delivery (plan, organise objectives with IT Plan Portfolio and and manage) across Manage performance Strategy to maximise Products to deliver the complete with objective business value customer value and application lifecvcle project and process improve the information predictability of **Execute** product success

Improve

Measure

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IBM[®] Enterprise Architecture Seminar

Align business objectives with IT Strategy

Understanding the complexities and inter-relationships of various stakeholders and technologies

The Innovation:

Enterprise architecture management solutions allow organisations to model the current and future state across multiple business and technology dimensions, interconnect them, and understand the impact of change

Map

Strategic Objectives to IT Resources and Solutions



Model Develop and analyse scenarios of future states.

Monitor Changes and effects during execution



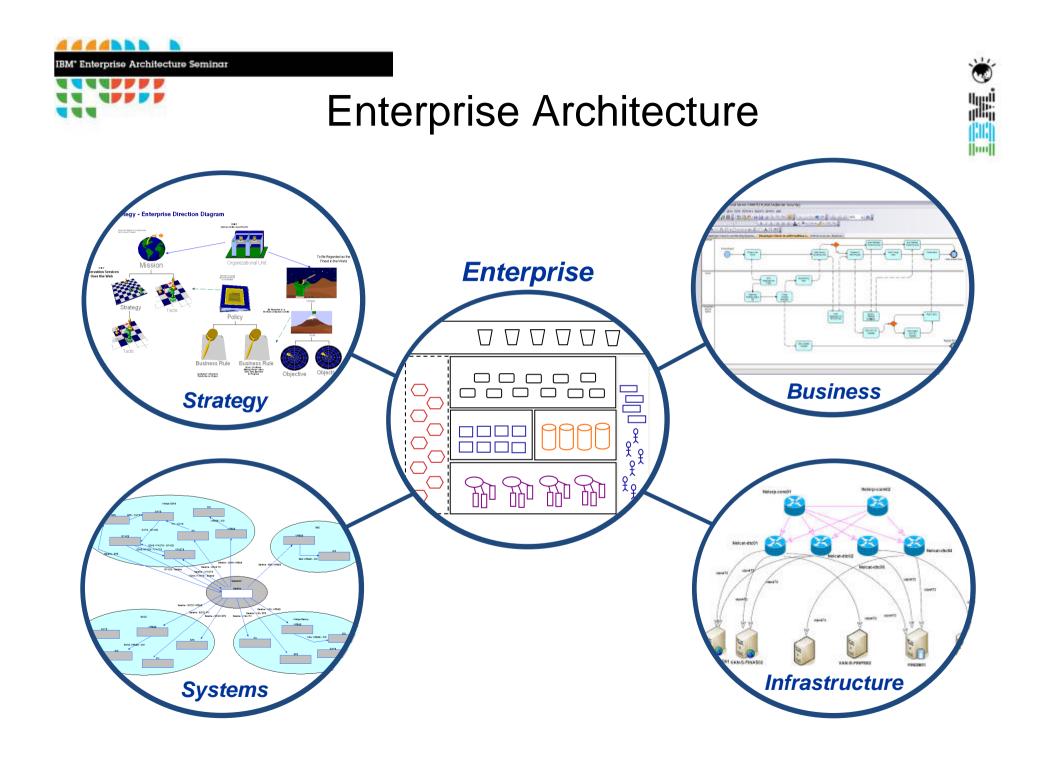


The Benefits:

- Faster, better-informed, strategic and tactical decisions
- Improved risk management of transformation
- Increased efficiency and reduced cost through consolidation

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Where Does Value Come From?

- Value is not inherent in the technology itself
- Technology only provides a capability
- Value is realised when things are applied and managed in concert
 - Business Strategy
 - Business Processes
 - Organisational Structure
 - Technology

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- So, the application is only part of the solution
 - Changes to many parts of the enterprise must be modelled, planned and documented

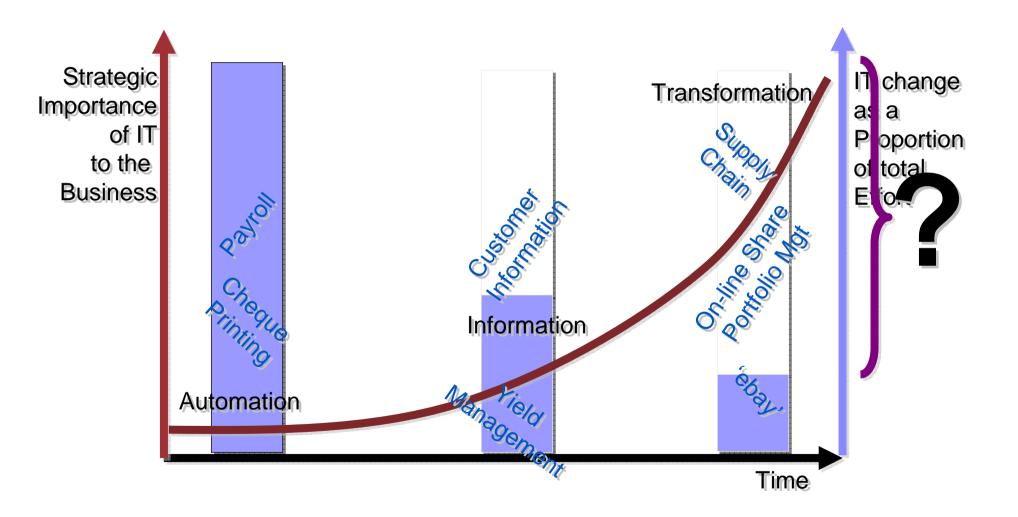


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The Evolving Role of IT

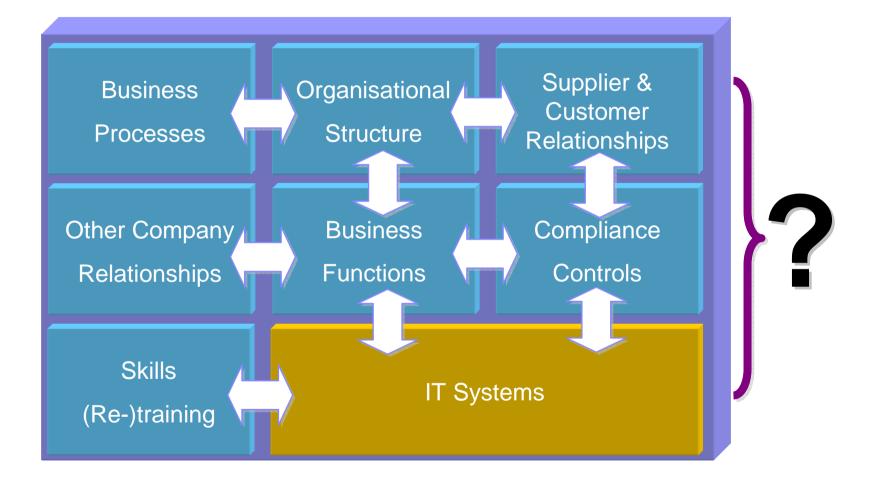
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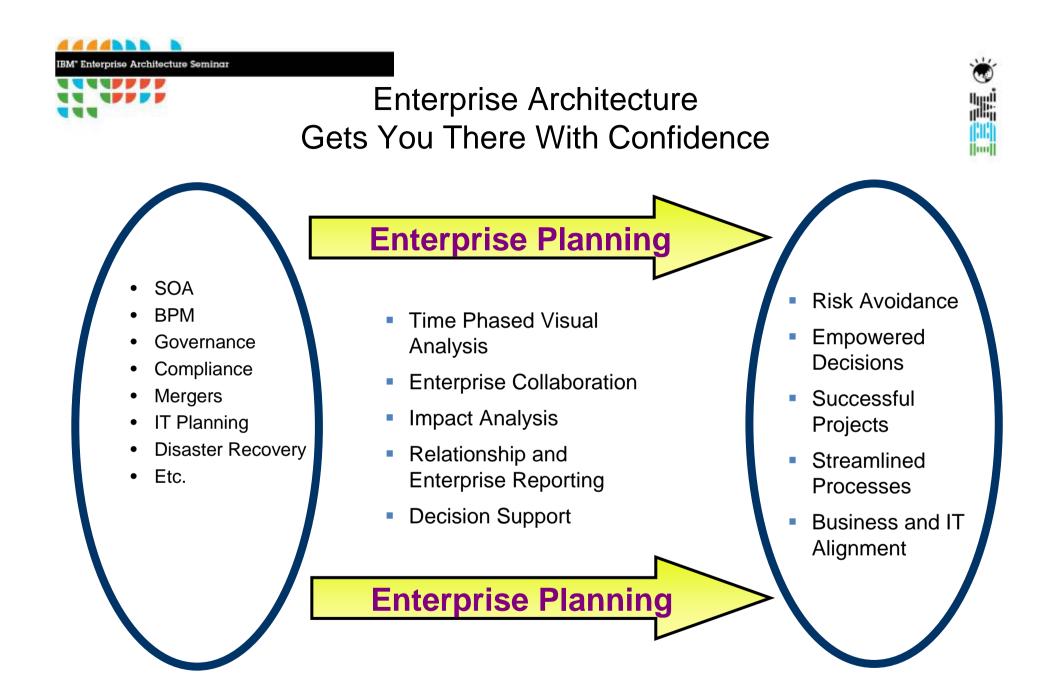




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Enterprise Architecture





Why Enterprise Architecture? Enabling Change

- Knowing that your infrastructure supports your business
 - People
 - Process
 - Applications/Systems
 - Technology
- Knowing how your infrastructure supports your business
- Enabling business change
 - Putting your business on the web
 - Exposing your business processes
 - Mergers and acquisitions
 - Compliance
 - Portfolio management
- Effective communication between all stakeholders





Why Enterprise Architecture? Answering Hard Questions

- What existing systems provide a particular capability, and how might we reuse them to implemented new initiatives?
- Which applications support which over-the-counter business processes?
- What is the impact on particular business processes if a server or platform is down?
- How can we reduce the operating risk to the business relating to the unforeseen impact of changes on systems (and therefore business processes)?
- How can I conduct a definitive impact analysis on the current environment affected by current change programmes?

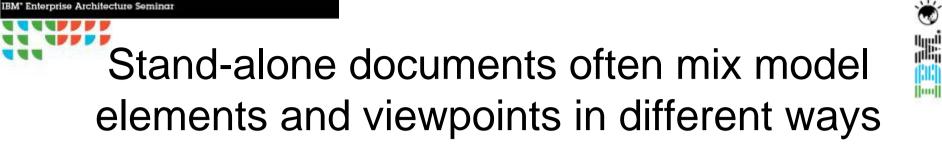
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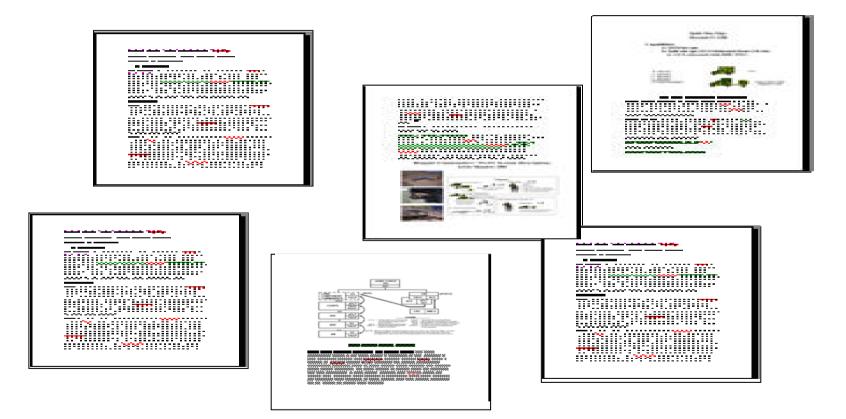


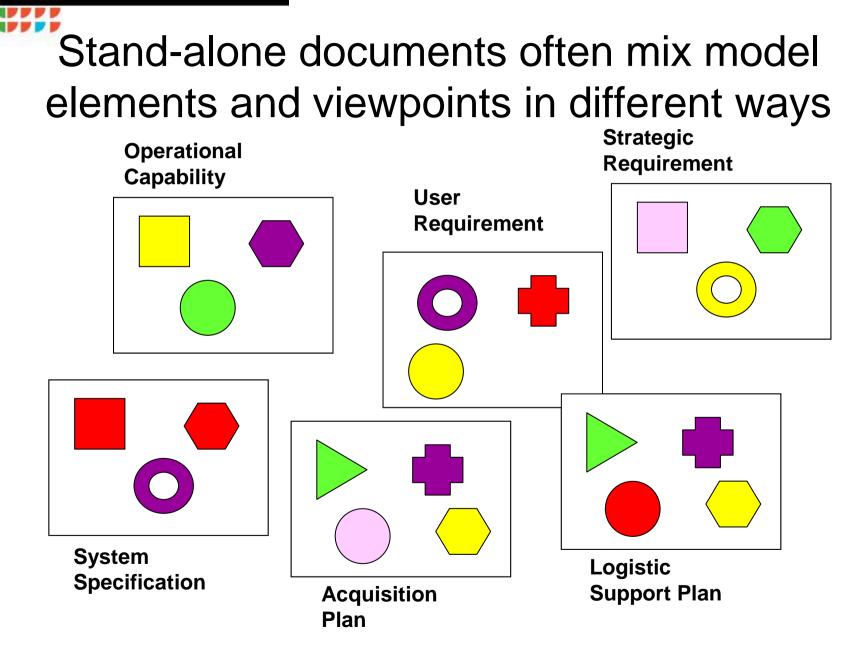
Why Enterprise Architecture? Addressing Inefficiencies

- Systems and applications are being maintained but support no business process.
- Business Processes exist with no technology to support them.
- Systems and applications are being built that don't meet end users needs.
- Data that could be centralised in one system or application is being replicated across several systems and applications.
- Systems that should interoperate do not.
- Compliance with Sarbanes Oxley, BASEL II







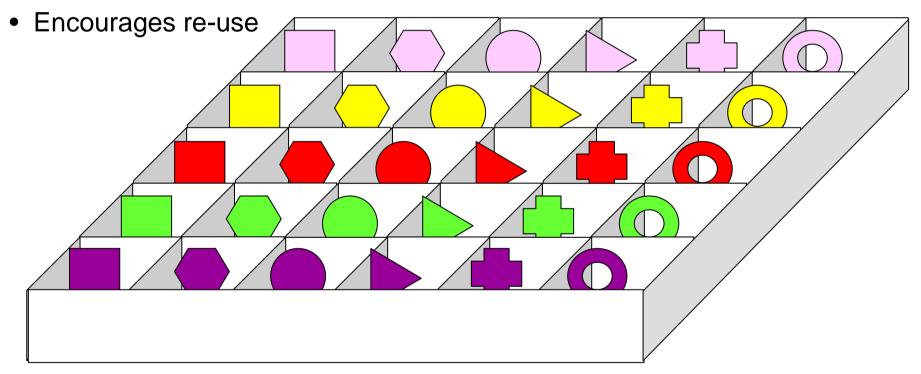


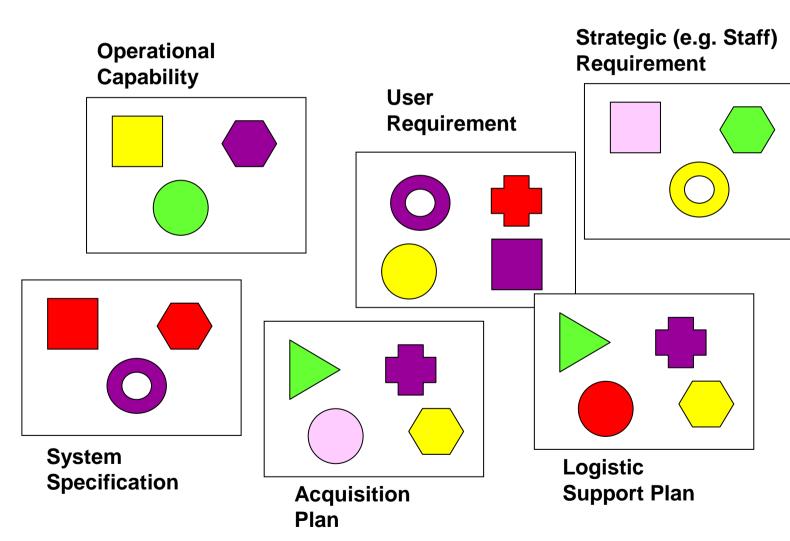
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A Framework provides a standard way of categorising model elements



• Helps to identify overlaps, gaps, conflicts





Consistent documents can be generated from a Framework-based architecture

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Strategic (e.g. Staff) **Operational** Requirement Capability User Requirement ~ ~~ ~~ ~~ ~~ ~~ ~~ 2000 - Anna +++++-...... **System** Logistic **Specification** Support Plan Acquisition Plan

Consistent documents can be generated from a Framework-based architecture

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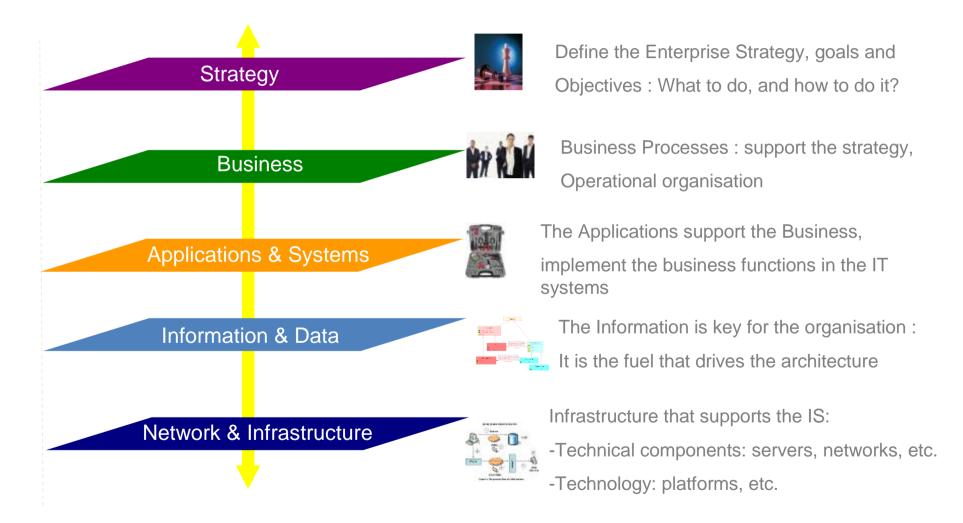
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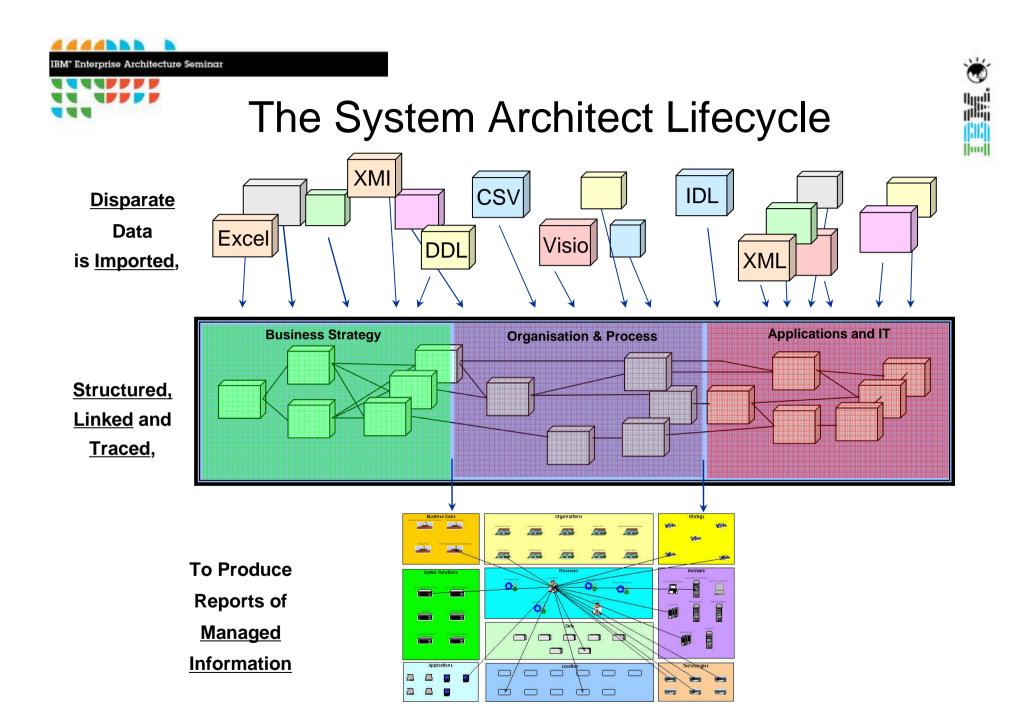
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Enterprise Architecture







IBM[®] Enterprise Architecture Seminar The Multiple Dimensions of the Organisation



Organizations **Business Goals** Strategy State-24 HK Consul Charles Aphorna Group Kenter Permanante - Georgia He Denough Group Address Carolup ATT ATT ATTEN. 1972 ATT - Apr Correstone Revenues Group Death Group! enestere Group Liberin Group ATTEN. 122 1972 ATT · Effe 14 Hardware Processes System Functions Course lines of Alerthouse In summer to Address 2 Einis Technicardisan Lab Technicar lease Qê **O**g 20 Opacier Hite Data SCA SETURISE -Applications Technologies Location Callendy 8.3 Same 312 1 Station P ---------survey friday Destine 0-3 277 072

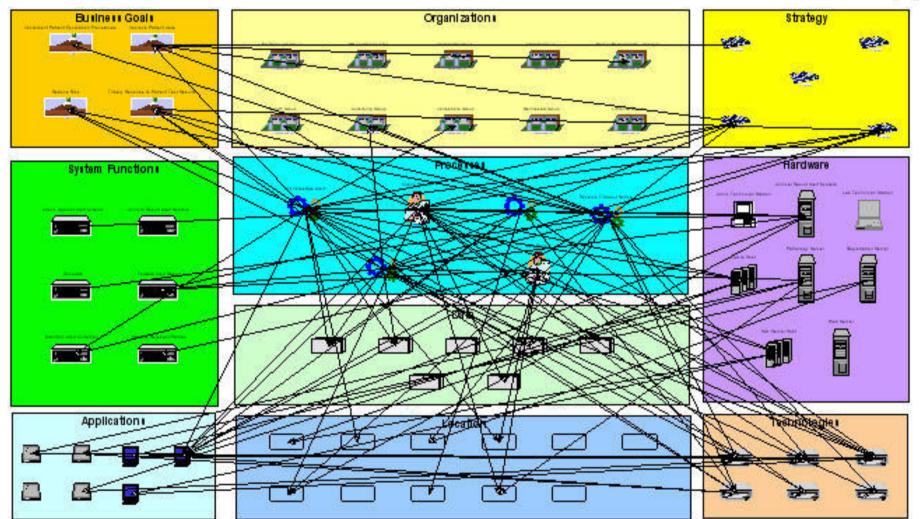
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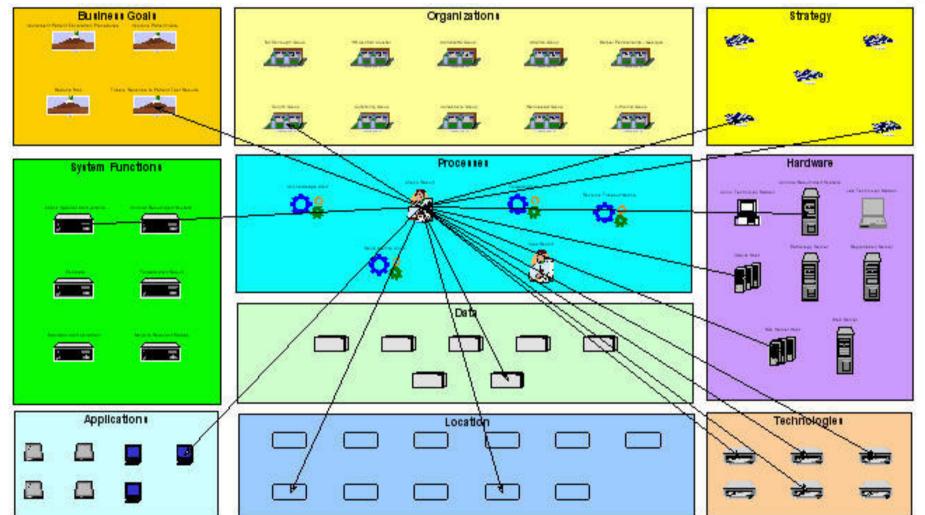
Many Organisations Today





Organisations with Successful EA Programs





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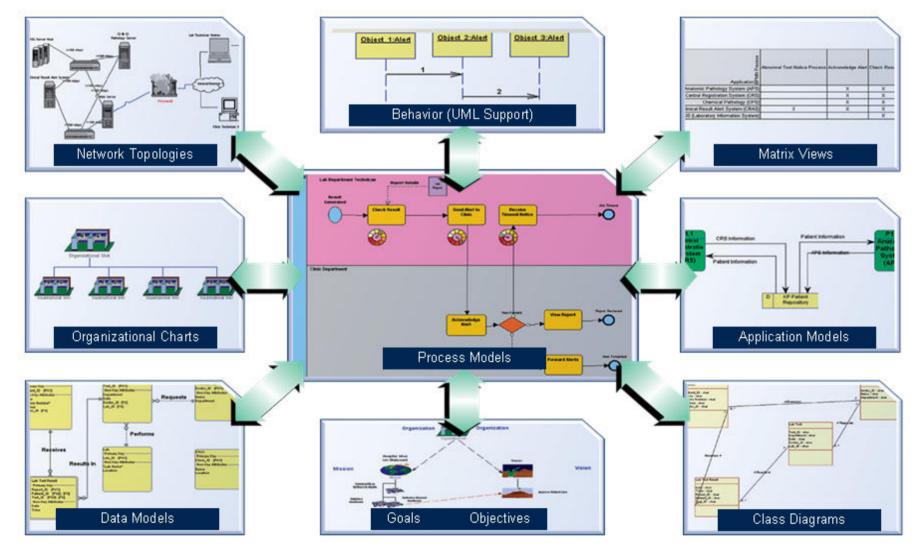
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Capture and Model all Domains of the Organisation

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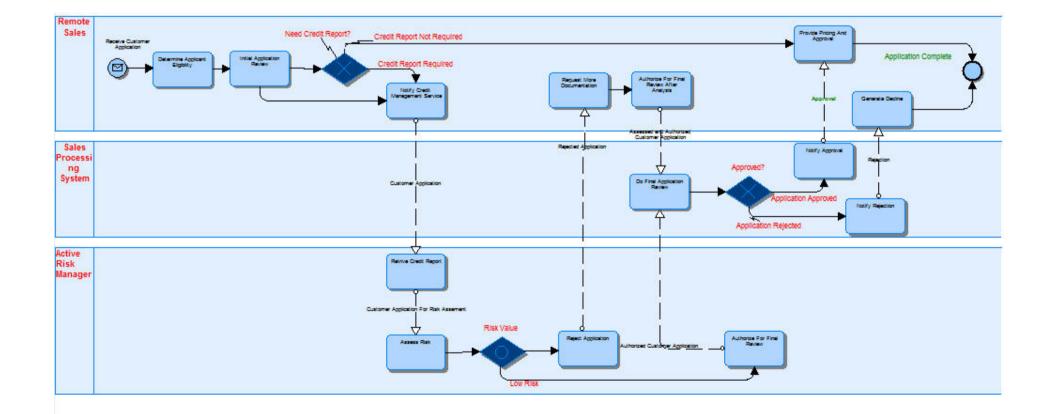


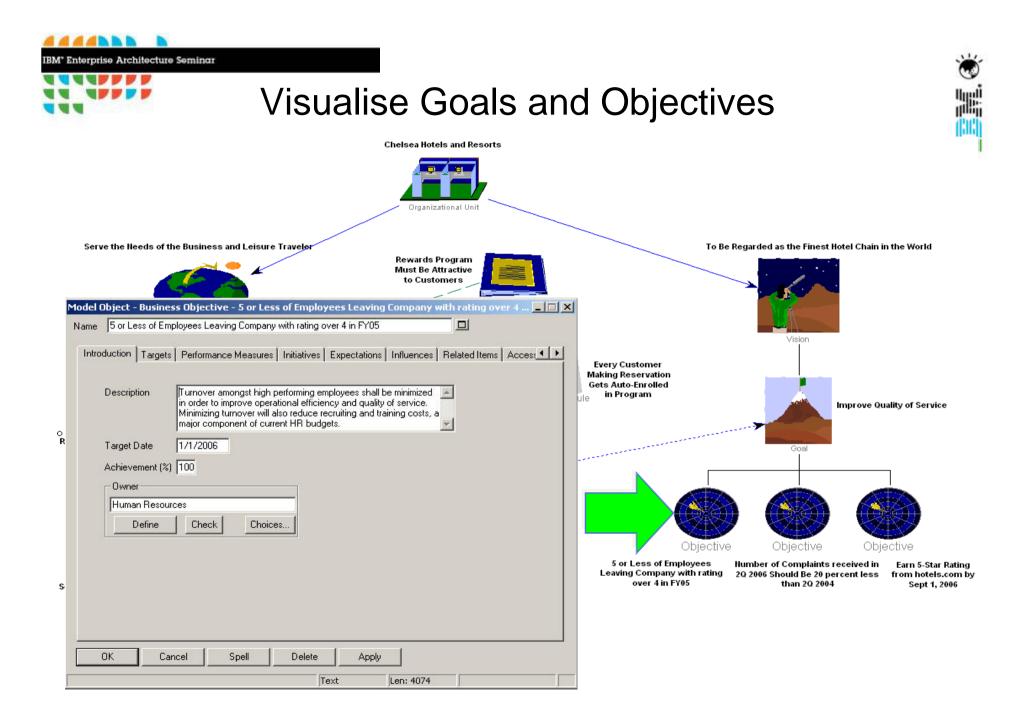




Capture and Model all Domains of the Organisation





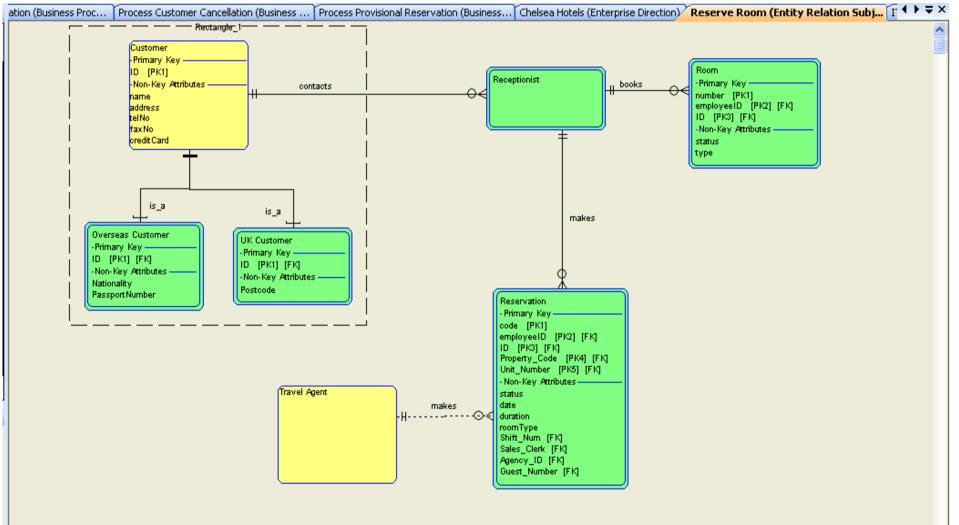


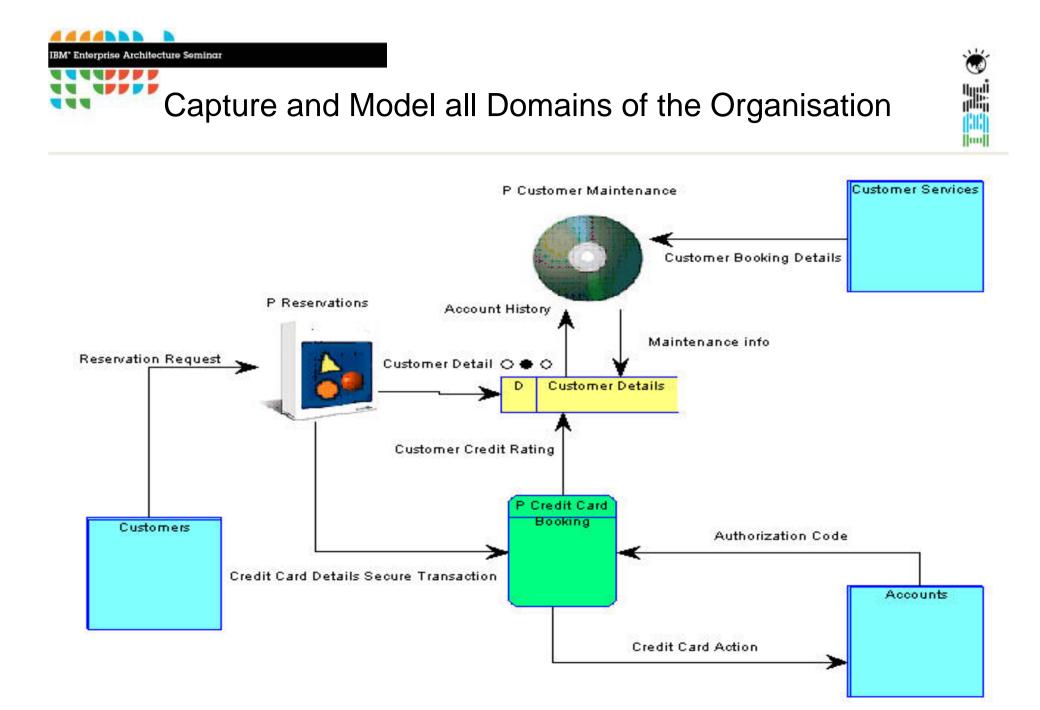
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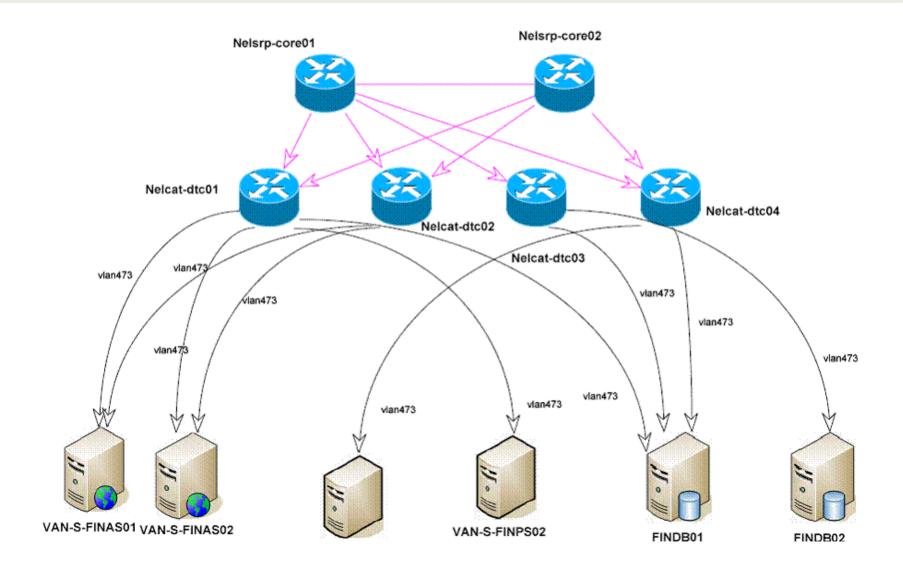






Capture and Model all Domains of the Organisation



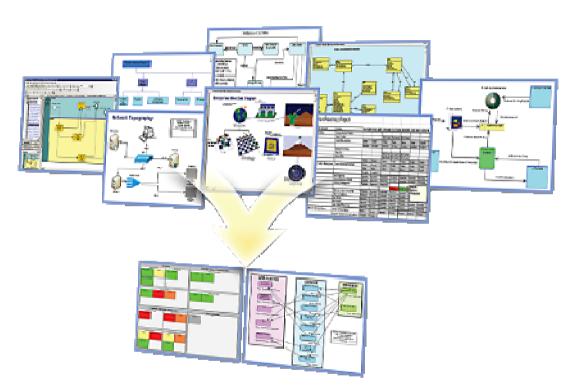


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More Than a Modelling Tool



- Impact Analysis
- Alignment
- Transition state planning
- What-if?
- Risk analysis
- Heat map generation

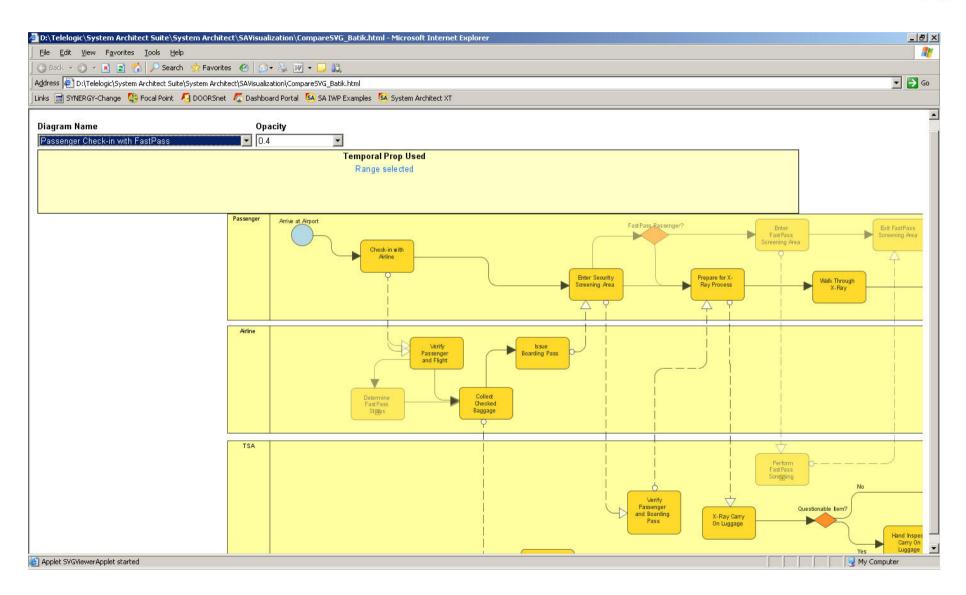


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As-Is/To-Be Transition





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UOB to Function/Activity UOB to DLP	5	(0		Approval					fe				: Charge						uncs				hand
Requirement to Process Thread Image: Constraint of the second state of the secon		Elementary Business Process	Answer Phone	s Case Routed for	Calculate Room Price	Check Payment Details	Check Reservation Details	Check Room Availability	he Period to	Inform Customers Company	Make Cancellation Charge	Make Full Room Rate Charge	Make Percentage Room Rate		Process Room Booking	Process_1	Process_2	moot	Reservations and Booking Fu	Reserve Room	Store Customer Details	Take Payment Details	est 1
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Business Process (BPMN) to Technology Business Process (BPMN) to Function		Customer Maintenance																			Х		
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Perform Gap Analyses What Processes are not Automated?

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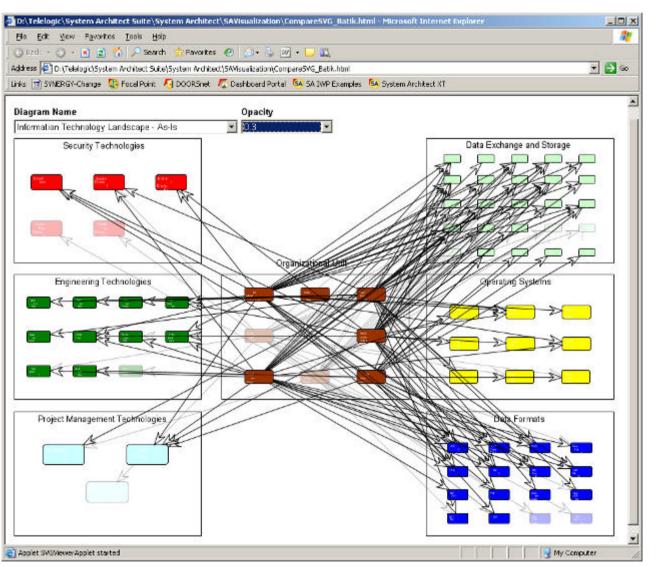
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What if Analysis

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Is IT aligned to Business Strategy?





• Business Strategy heatmap

 Use Application Landscape to show which components expect to be impacted by business strategy

- Change plan heatmap
 - Now show which components are impacted by the current change portfolio

Not an application name in sight

Derive Requirements and Establish Traceability

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•What is tied to Requirements?

•What is driving Requirements?

•Where may we have inconsistencies?

•Where do we have redundancies?

•How does a change in Requirements affect Enterprise Architecture

•How does a change in the Architecture affect Requirements

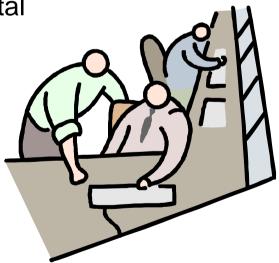
•What About my system of systems?

Room Available Room Information Room Price	. Inarusitability					
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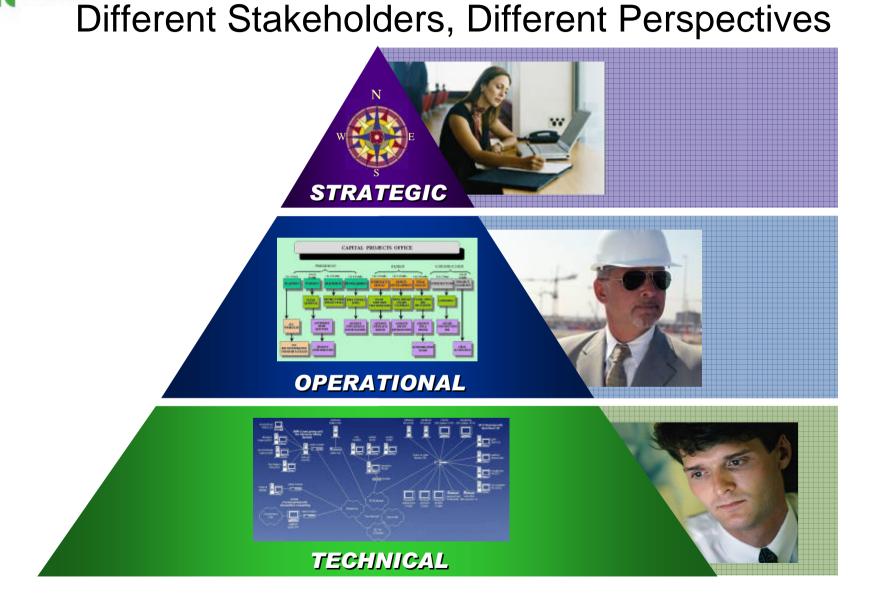


Change and Conversation

- Change cannot be effected without effective conversations
- These are complex conversations and require Tools and Technology support
- Too much knowledge is 'walking out of the door'
- Knowledge needs to be captured and treated as capital



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Initiative Driven: Implementation of a New System

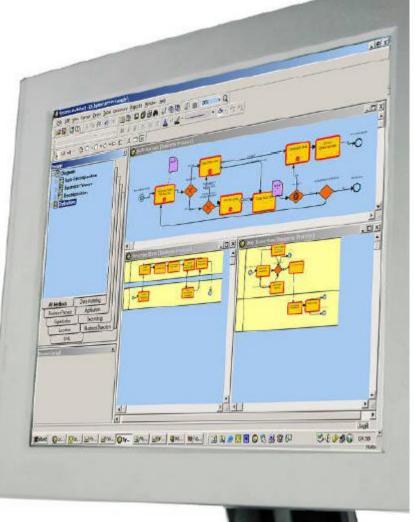
- Implementation of new merchandising system ...
- What functionality in the proposed system overlaps with existing functionality?
- What is the impact of changing the current business processes?
- What systems will be affected by the changes?
- Who will need training?

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• Which business area and geographical locations will be affected?







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Align business objectives with IT Strategy

Understanding the complexities and inter-relationships of various stakeholders and technologies

The Innovation:

Enterprise architecture management solutions allow organisations to model the current and future state across multiple business and technology dimensions, interconnect them, and understand the impact of change

Map

Strategic Objectives to IT Resources and Solutions



Model Develop and analyse scenarios of future states.

Monitor Changes and effects during execution





The Benefits:

- Faster, better-informed, strategic and tactical decisions
- Improved risk management of transformation
- Increased efficiency and reduced cost through consolidation

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Manage the Portfolio & Products to deliver value

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Making better, more informed decisions to align funding with initiatives that maximise return

The Innovation:

Portfolio management software automates data collection and analysis of potential funding initiatives against decision criteria. Scenario analysis models and visualises the financial, time and citizen impacts and requirements

Capture

priorities and constraints across all constituents

Analyse

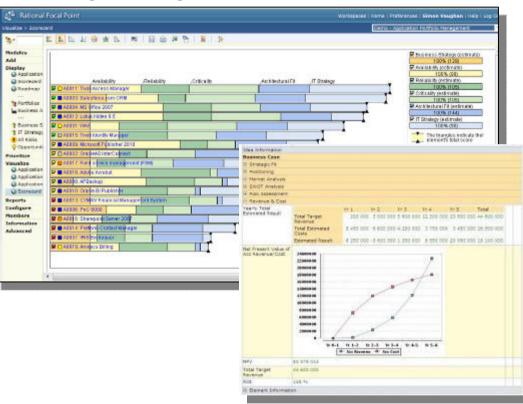
Current opportunities against future scenarios

Match Funding with highest priority/return, lowest risk

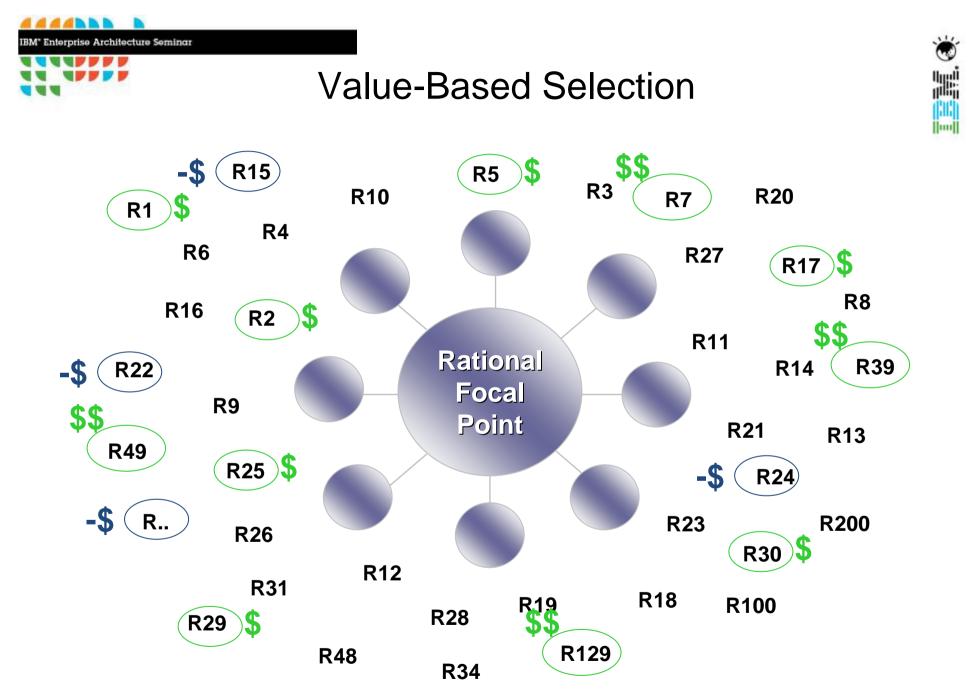




- Transparent and inclusive decision processes
- Effective & efficient analysis & management of limited resources
- Fiscal responsibility and audit-ability



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"Management is doing things right, leadership is doing the right things" Peter Drucker

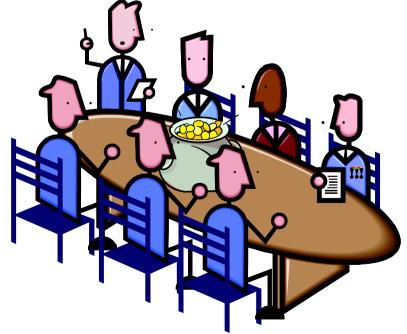




There are basically 2 approaches to decision making:

- ad-hoc, informal, intuitive reactions to immediate or relatively short term conditions – or,
- calculated, formal decisions based on on critical business issues such as market size, competitive landscape, time to market and customer value.

What separates tomorrow's winners from losers is a superior decisionmaking capability that lets them navigate swiftly through features, release time, and resources to deliver surpassing customer value.





We humans have limitations when it comes to decision-making

- Humans are good at comparing two alternatives according to one criterion
 - Which one is cheapest? The apple or the orange?
 - Which one is more nutritious?
 - Which one is simpler to peel?
 - Which one goes best with icecream?
- But we have trouble dealing with all criteria at the same time
 - Which one is best? Apple or orange?
- And when we have more than two alternatives it gets worse
 - Rank: Apple, banana, orange, carrot, pear, pine...
- Not to mention if they have dependencies
 - You can only get an apple if you have eaten your potatoes.
 - You can have a carrot even if you didn't eat your potatoes.
- Or if there is more than one opinion
 - We'll only serve one of the fruits/vegetables to all of you.





Focal Point supports human decision-making

- Lets us do what we do best: compare two alternatives according to one criterion at a time
 - e.g., cost, value for customer X, potential on market Y, strategic value, risk, timing sensitivity etc.
 - so you don't have to think about cost when you assess value
- And then combines this and visualises opinions
- All stakeholders may have their own opinions
 - or prioritise in a workshop format
- Stakeholders will have different priorities
 - e.g. large/small customers

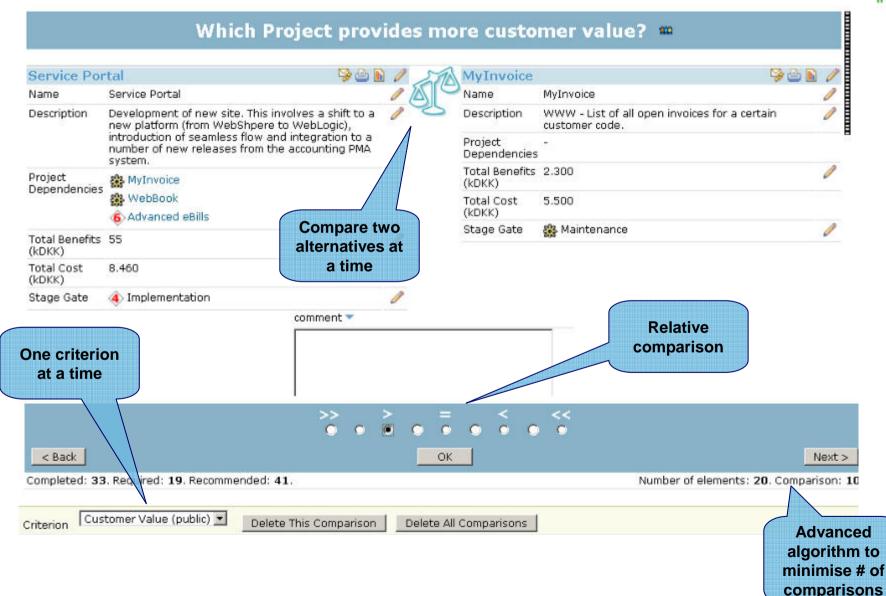


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Prioritise the Programs or Projects

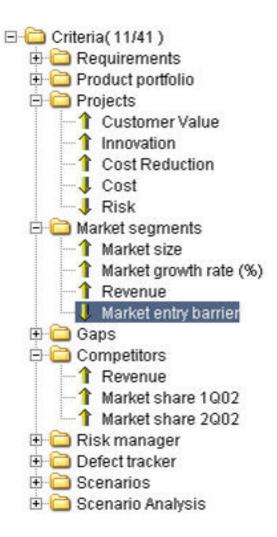




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Sample Criteria



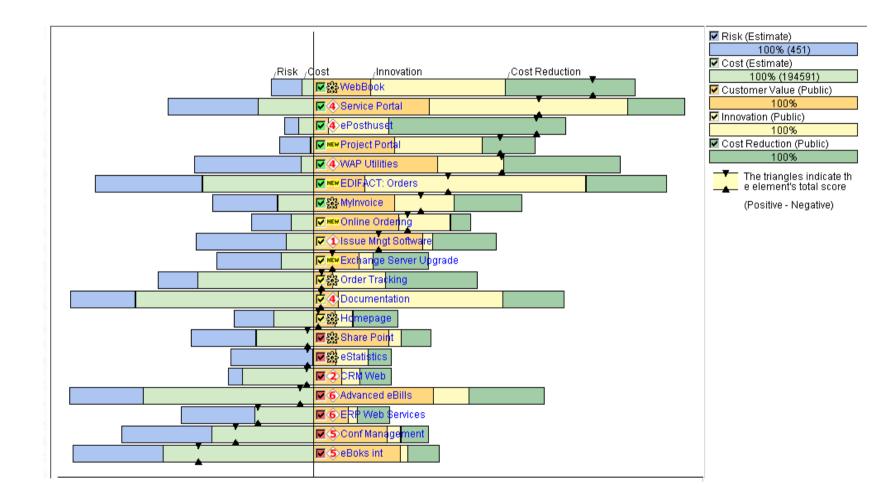


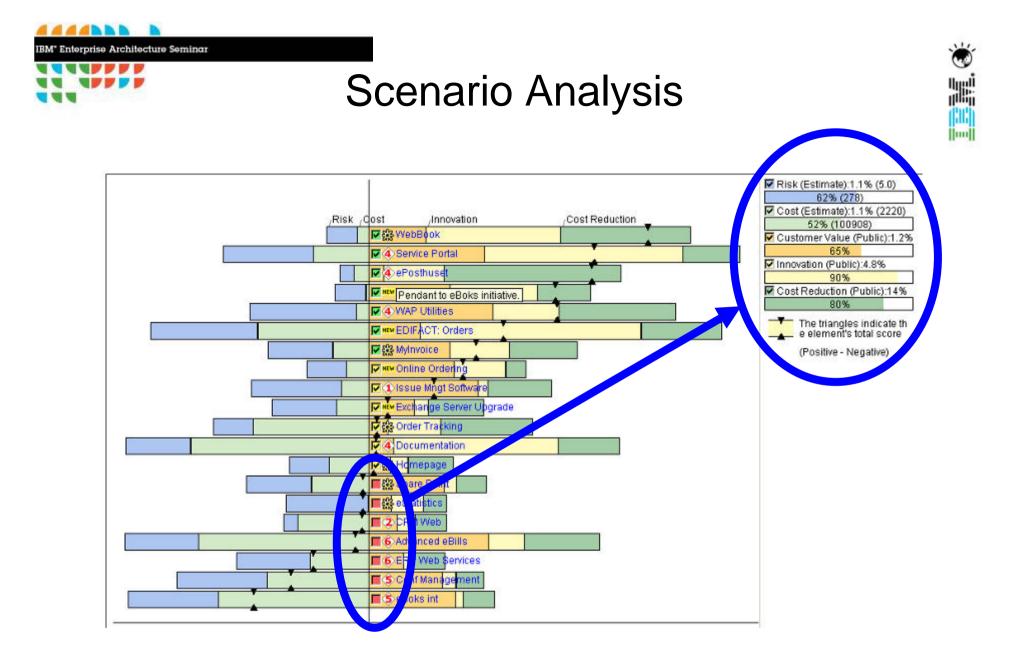
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View the Results





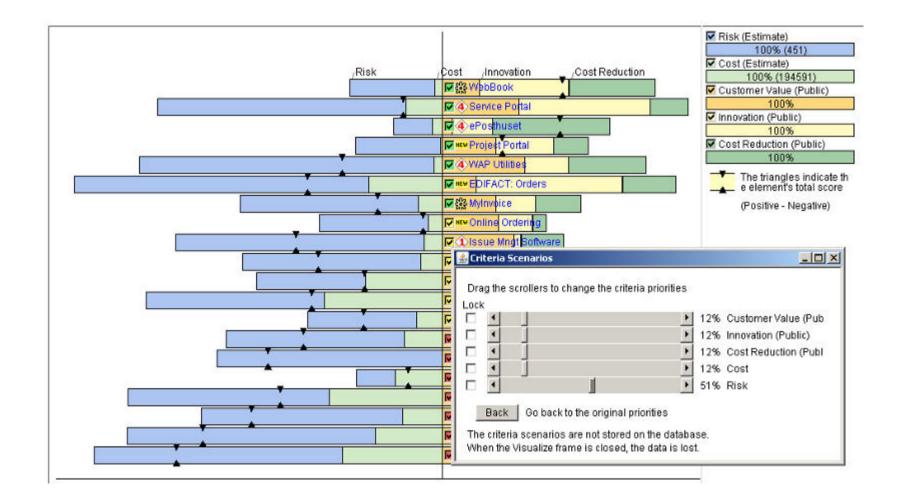


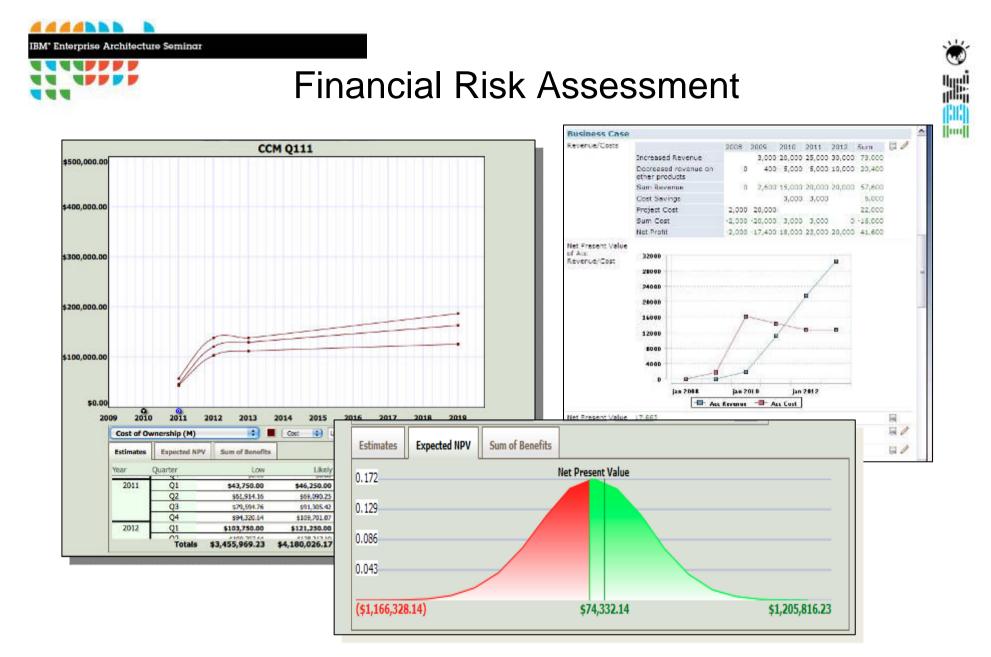
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Sensitivity Analysis







Financier: Statistically analyses investments to ensure financial due diligence

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Dashboards - Focal Point – Executive Overview

ATA Rational Focal Point Workspaces | Home | Preferences | Admin | Help IT Portfolio Management Demo v1.0 **Portfolio** Financials Strategic Objectives Weight - 🚓 Portfolio Portfolio Portfolio Portfolio Portfolio Title Importance Modules Actual Expected Actual Total Risk Expected Strategic Objectives Title A Portfolios Benefits Benefits Expenses Expenses NPV Score 38 \$1 273 000 18 Projects Maintenance & 15 016 000 2 254 000 15 016 000 2 659 000 36 Utilities Applications 34 32 Enhancements & 4 433 300 130 000 4 433 300 144 000 \$634 000 26 **9** Business Units 30 Improvements Risks 28 Transformational 16 875 000 426 000 16 875 000 1 997 000 \$1 759 000 21 Business Requirements 26 24 Y Issues **Deviation Expected vs Actual** 22 20Change Requests 20 Title Deviation Expenses (%) 18 A Resource Types Maintenance & Utilities 16 \lambda Meeting Minutes 14 26 🖌 Criteria 12 24 10 ----Administration----22 20 💽 Images 18 Weight Add 16 Save Cost 📕 Innovation 📃 Adapt to New Technologies 📃 Inc.. Display 14 Manage Change Project Proposals 12 Review Ongoing Projec 10 **Strategic Objectives - Project Distribution** 8 Project Roadmap Strategic Objectives Ouantity Share Nov 2006 May 2007 Nov 2007 May 2008 Nov 2008 May 2009 Nov 2009 28 34.6% Diff Expenses (%) — Trend Diff Expenses (%) All Projects Adapt To New Technologies 29 35,8% Applications Enhancements & Improvements Increase Efficiency 12 14,8% 32 Prioritize Innovation 7 8.6% 28 Visualize Manage Change 13 16.0% 24 Nategic Objectives Save Cost 24 29,6% 20 🕥 Strategic Alignment - P 🞑 Value Analysis - Projec 16 **Project Portfolio** 12 Reports Project State Share Quantity 8 Configure NEW Proposed 7 8.6% 🔲 Members 4 Accepted 22 27,2% Nov 2006 May 2007 Nov 2007 May 2008 Nov 2008 May 2009 Nov 2009 Information 3 Assessed 3,7% 🔳 Diff Expenses (%) — Trend Diff Expenses (%) Advanced Finalize business case 7 8,6% 🔲 Transformational 7 🔧 Ready for prio 8,6% 🔲 34 32 Y Approved for development 5 6,2% 🔲 30 🙆 Delivered 3 3,7% 🔲 28 🔜 Business Requirement 7 26 8,6% 🔲 24 Backlog 6 7,4% 🔲 22 Duplicate 6 7,4% 🔲 20 18 2 👩 To be clarified 2,5% 🔳

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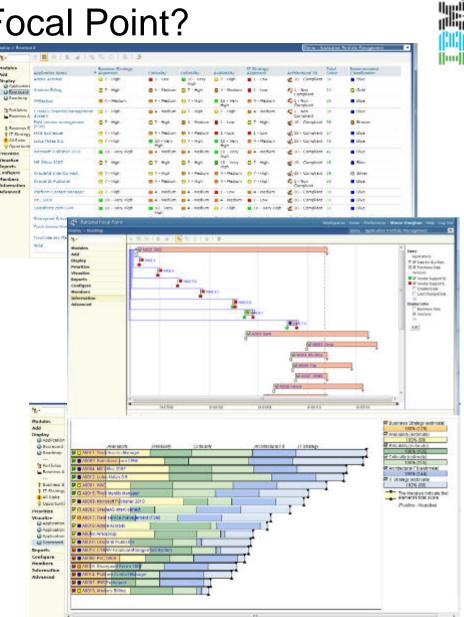
Focal Point in Action



							Smarter City
				Number of Projects	By Portfolio		
				Portfolio		Quantity	Share
				Cost Cutting		4	20,0%
				Infrastructure Improver	ment	4	20,0%
- N 🐠 🖉 💳				New Development		2	10,0%
		smarter	cities	Service Creation		3	15,0%
		omaitoi	011100	Service Improvement		3	15,0%
				Utility Enhancement		4	20,0%
						Sum: 20	
Ongoing Major Projects	5 Dashboard			Ongoing Major Serv	vices Dashboard		
Title	Financial Status	Resource Status	Schedule Status				Customer
Vireless Radon Meters	On Budget	Bottleneck Expected	On Schedule	Title	Financial Status	Resource Status	Satisfaction
leighborhood Composting	On Budget	In Place	Behind Schedule	Information Hotline	🔲 On Budget	 Bottleneck Expected 	Moderate
Solar Panel Farm	Over Budget	In Place	🔲 On Schedule	ePay for Trash Tax	Over Budget	In Place	🖪 High
Neighborhood Watch	On Budget	Additional Required	On Schedule	Fiber Optics Optimization	🔲 On Budget	In Place	High
Norrebro Bike Lane	Overages Expected	In Place	Delays Expected	Solar Panel Education	🔲 On Budget	In Place	🖪 High
Projects by Department	t			Hydrant Decom'ing	Overages Expected	Additional Required	E Low
ept Responsible		Quantity S	hare		Expected		
epartment of Correction		2 1	0,0%	Services by Depart	ment		
epartment of Design and C	Const	6 3	0,0%	Dept Responsible		Quantity	Share
epartment of Education		1	5,0% 🔲	Department of Correction	on	1	5,3% 🔲
epartment of Heath and Hu	uman	1	5,0% 🗖	Department of Design a	and Const	2	10,5%
Department of Housing		1	5,0% 🗖	Department of Educatio	n	1	5,3% 🔲
Department of IT		1	5,0% 🔲	Department of Finance		2	10,5%
Department of Sanitation		2 1	0,0%	Department of Heath an	nd Human	1	5,3% 🔲
Department of Transportatio	n	2 1	0,0%	Department of IT		5	26,3%
Fire Department		2 1	0,0%	Department of Sanitatio	n	2	10,5%
Police Department		2 1	0,0%	Department of Transpor	rtation	1	5,3% 🗖
		Sum: 20		Fire Department		2	10,5%
Portfolios				Police Department		2	10,5%
Title	NF	PV Total Exp				Sum: 19	

Rational Focal Point?

- Rational® Focal Point[™] is a unique, web based visual data management tool that automates, improves and supports:
 - Bid Management
 - Portfolio Management
 - IT Project Portfolio Management
- A collaboration platform where all users see the "single truth" and the business has clear visibility of the "road ahead".
- Provides built-in decision and business. scenario analysis support.
- Is adapted to your process, methods and workflow - not the other way around.
- User friendly,100% web-based platform design to be used by business people



Focal Point Benefits and Value to Customer

- Provide visibility to business priorities, business value of scope/requirements, business value and performance of projects
- Automate the prioritisation process and focus on high-value projects
- Enable business leaders to understand value of project scope and impacts on other projects when planning project pipeline/roadmap
- Provide support to re-evaluate project priorities in the light of a changed business environment
- Reduce time to market

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- Centralised project status repository
- Identify requirements that need resources but don't generate any customer or market value
- Provides a mechanism to **capture requirements** much earlier in the process



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Manage the Portfolio & Products to deliver value

Making better, more informed decisions to align funding with initiatives that maximise return

The Innovation:

Portfolio management software automates data collection and analysis of potential funding initiatives against decision criteria. Scenario analysis models and visualises the financial, time and citizen impacts and requirements

Capture

priorities and constraints across all constituents

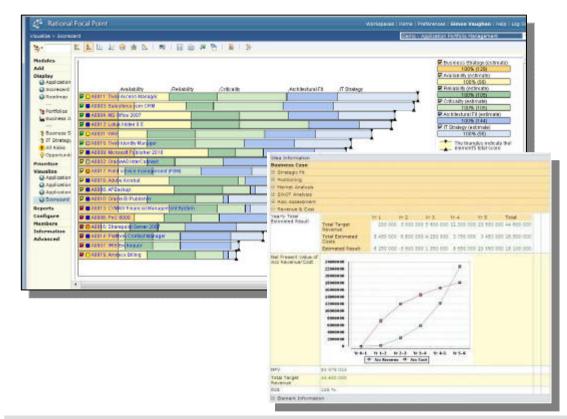
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Analyse

Current opportunities against future scenarios

Match Funding with highest priority/return, lowest risk





The Benefits:

- Transparent and inclusive decision processes
- Effective & efficient analysis & management of limited resources
- Fiscal responsibility and audit-ability



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Optimise project delivery across the lifecycle

Markus Kent Closed Items: 4 | Open Items: 7



Accelerate the implementation of solutions matched to stakeholder needs

⇒ To Do

javadoc updates for @lonore in 4.3

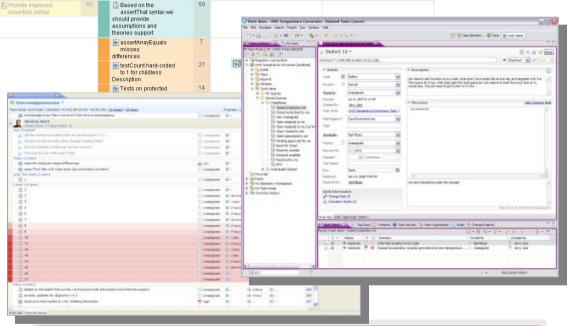
The Innovation:

Team Development Planning and Collaboration ensure real-time visibility during the execution of initiatives that accelerate delivery through automation

Plan

Tasks and work items using traditional and agile techniques





In Progress

✓ Done

The Benefits:

- Common planning provides greater collaboration across development teams working on strategic initiatives
- Consistent change management through life of initiative with traceability back to original program blue print
- Project implementation efficiency through best practices

Control

Planning and work item management seamlessly



Projects with total transparency worldwide



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Customer Story – Major Mid-East DoD Agency



• Background:

- The Field Commanders of a Middle Eastern Defense Agency were often frustrated when applications designed to automate military processes failed to deliver on the strategic objectives defined.
- They recognised that they needed an integrated approach to the design of their next C4I Solution, if they were to improve their threat response capability.

• Business Initiatives:

- As part of a \$1B investment in a new command and control solution, they decided to take a fresh look at the gaps in their current C4I Solution. Using DoDAF as the guiding framework, the field commanders documented and evaluated their existing C4I Solution, identifying gaps and opportunities to leverage new technologies to improve capability.
- Use of DoDAF also would ensure better consistency among the many contractors and organisations regularly leveraged during the procurement of future solutions.

• Solution:

- Leveraging Rational System Architect, the field commander's technology team could now perform a comprehensive examination of the challenges inherent in their current Enterprise Architecture, and address gaps understanding the full impact process and technology changes would have on the system.
- In order to implement appropriate Governance over the procurement process and to prioritise investments, Focal Point was leveraged.
 Finally, Rational Doors was also utilised to transform identified gaps into properly documented requirements, so system integration needs were communicated with greater consistency.



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The New Order



Organisations must recognise that they are no longer making IT investments – they are investing in IT enabled change in the overall business system.

John Thorp - The Information Paradox

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Turning Business Insight into Foresight

John MacLeod, Senior Consultant

Nov 2010