#### The Central Role of Business Analysis in Enterprise Architecture

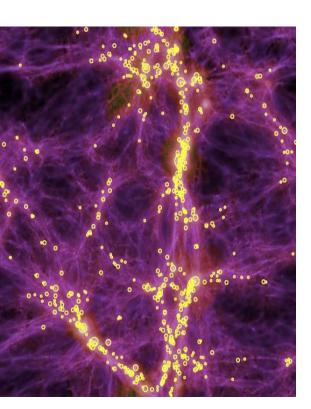
presentation to the

#### IIBA Western Cape Chapter Nov 2007

#### by Graham McLeod

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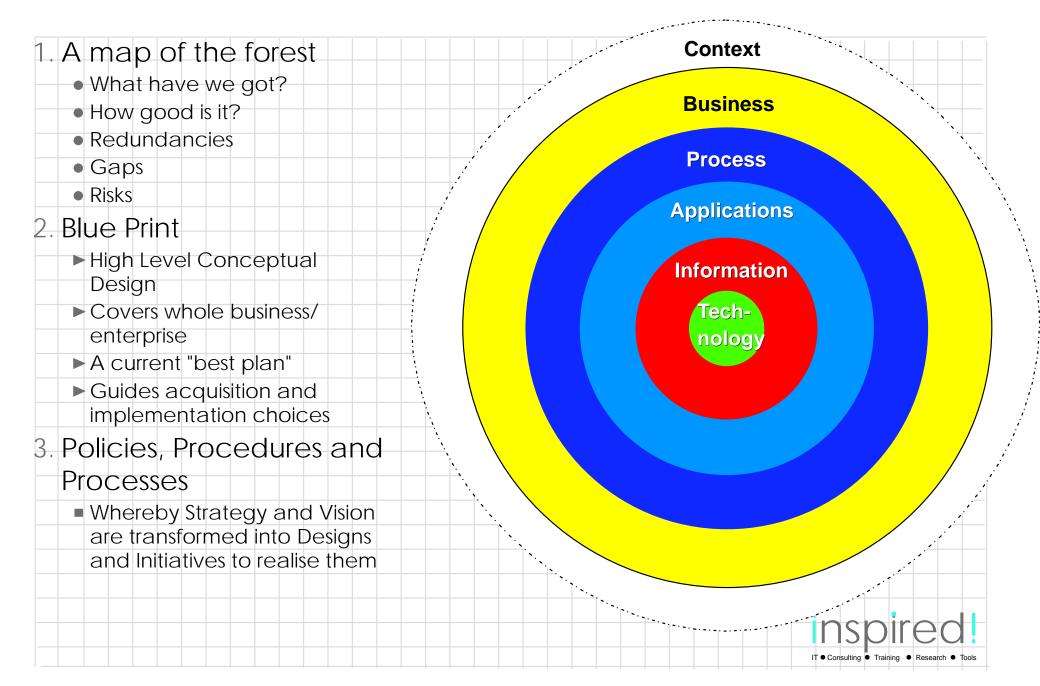




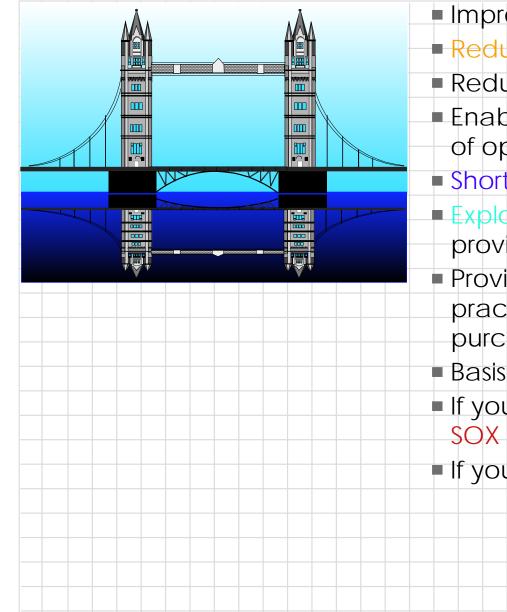
# Coverage

<ul> <li>Background (myself and Inspired)</li> <li>Enterprise Architecture</li> </ul>	
Components of EA	Statement of Contract of Contr
Business Architecture	
Business Process Architecture	
Business Process Engineering	and a stand and a stand and a stand a st
Requirements Definition	
<ul> <li>Impact into other EA dimensions</li> <li>Information</li> <li>Applications</li> <li>Technology</li> </ul>	Image:
Scoping Initiatives	
Examples and Case Studies	
Discussion	
References and Further Info	Image:
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# What is an Enterprise Architecture?



# Why We Need Enterprise Architecture



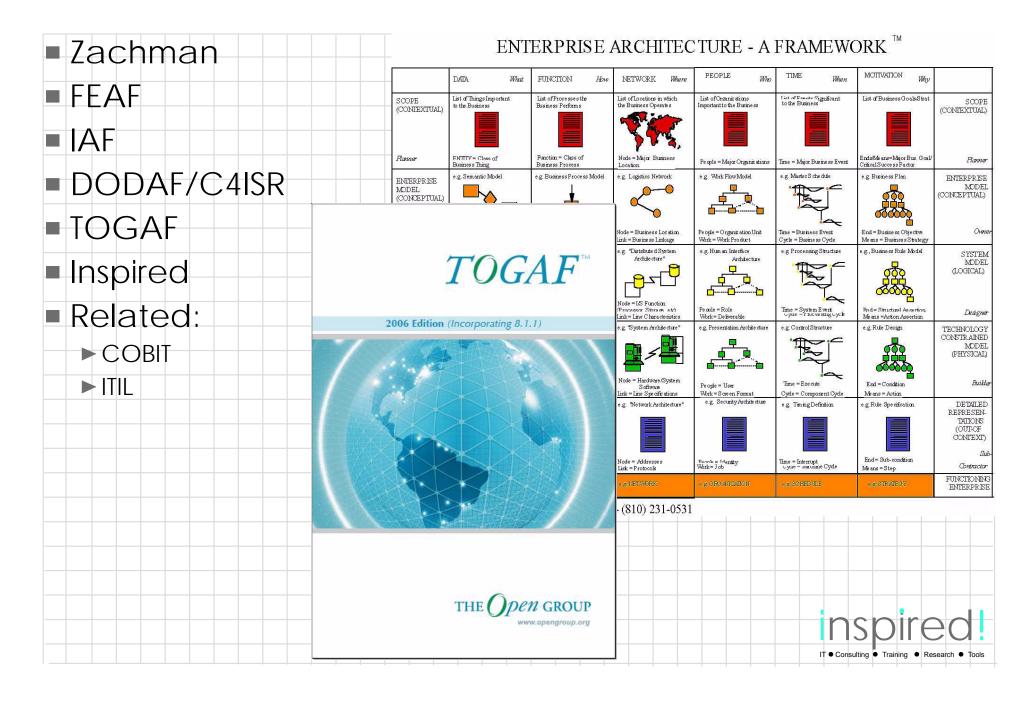
- Improve business benefit derived from I.T.
- Reduce costs associated with I.T.
- Reduce risk
- Enable desirable business changes, pursuit of opportunities
- Shorten lead times to realizing benefits
- Exploit emerging technologies which can provide strategic advantage
- Provide framework for decision making and practice within development, technology purchase and operations
- Basis for good governance
- If your company is listing and needs to be SOX compliant
- If you want budget in the US Federal Govt.

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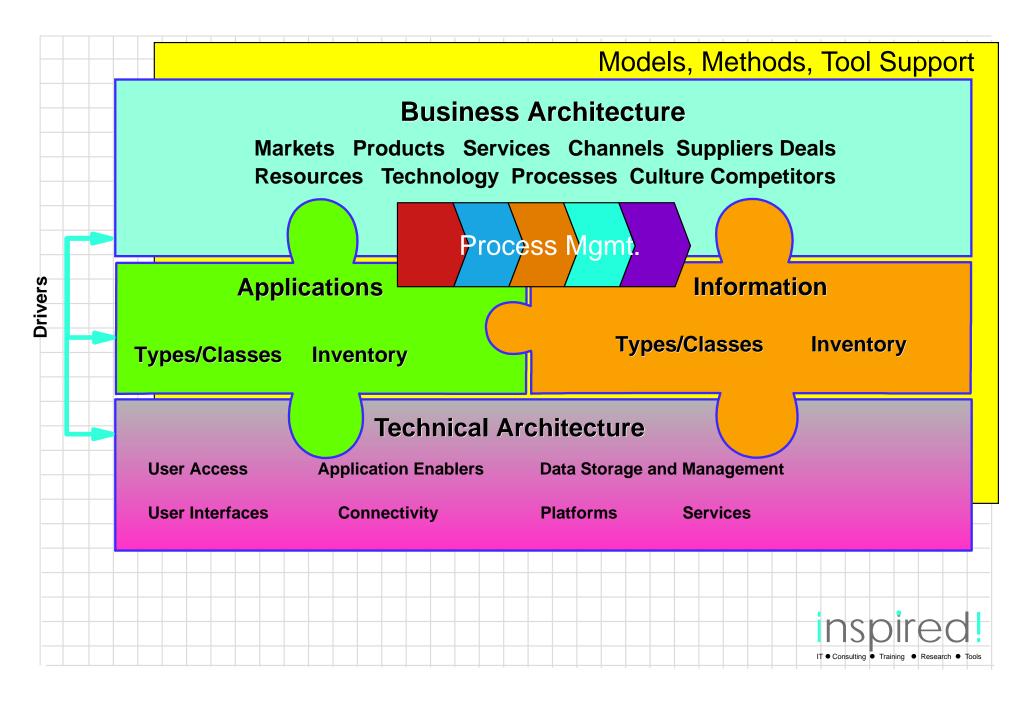
Training 

Research

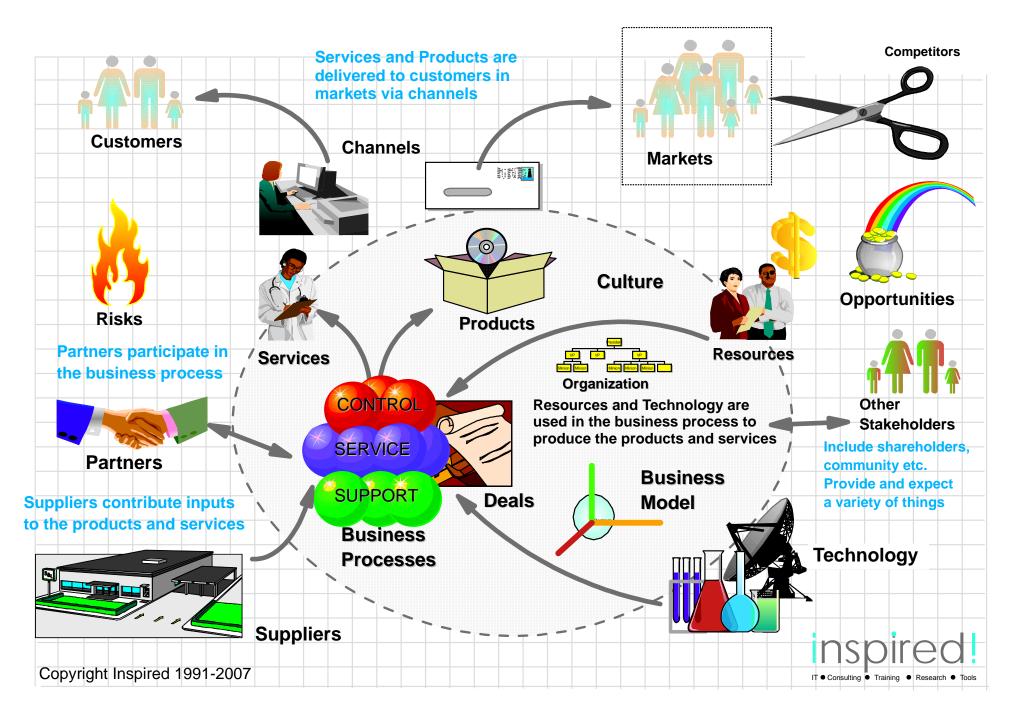
#### EA Frameworks and Methods



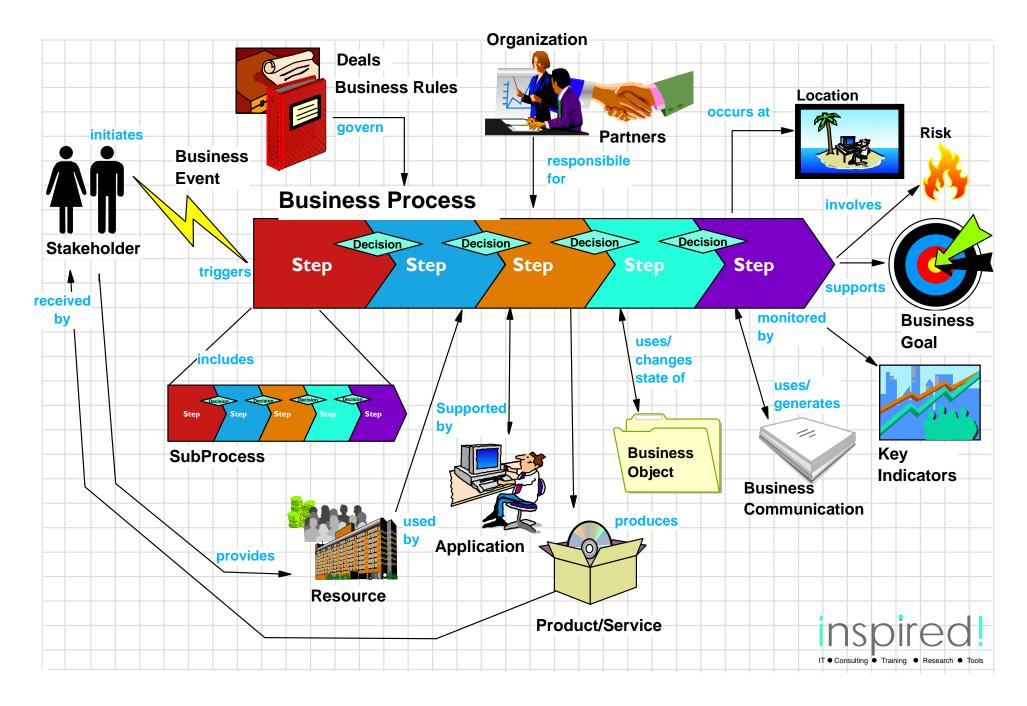
## The Inspired Frameworks



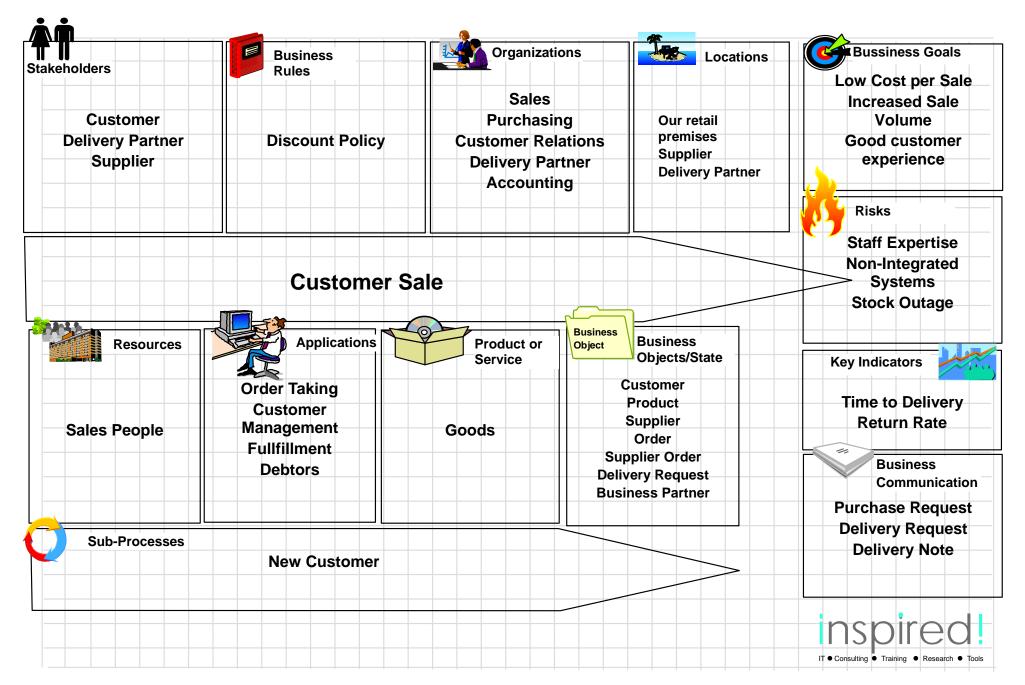
#### **Business Architecture**



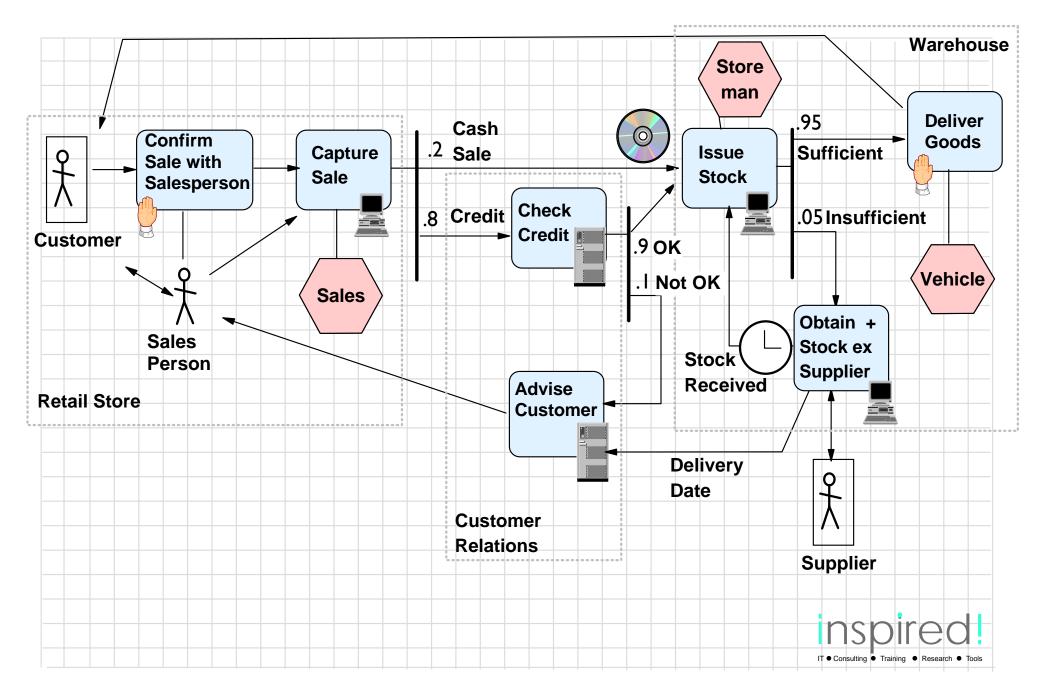
#### **Business Process Architecture**



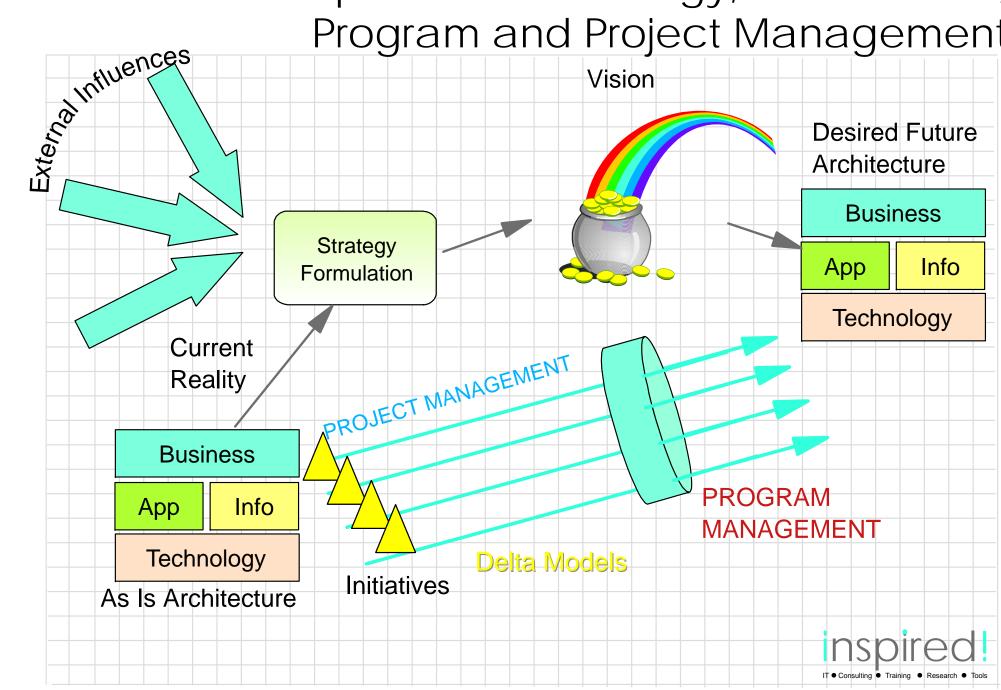
### Process Architecture Example



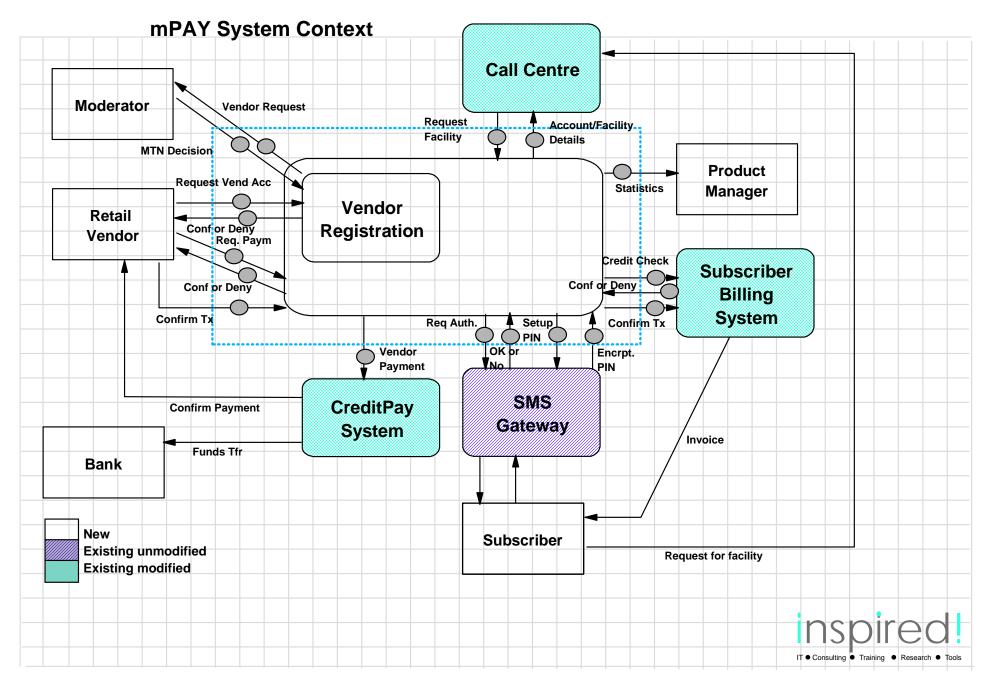
### **Business Process Model**



#### Relationship between Strategy, Architecture, **Program and Project Management**



## Project Delta Example



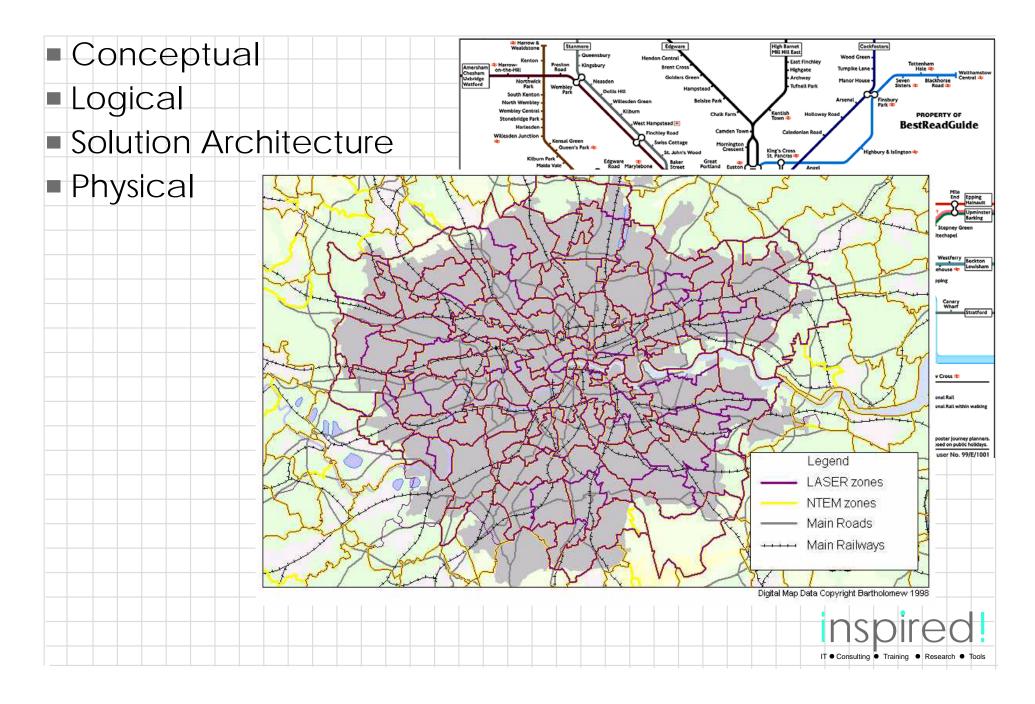
# BA Plays Major Role in

Shaping the business approach	
Evaluating environmental impacts and imperatives	
► Focussing effort of analysis	1
Defining Desirable Scenarios	Pa
Envisioning Future Processes	
Creating new relationships	W
Defining Requirements	
Functional Requirements	
Process Requirements	
Organization/Job Design	
Business Rules	
Information Requirements	
Scoping of Information Systems, Change Initiatives, Projects	
	In

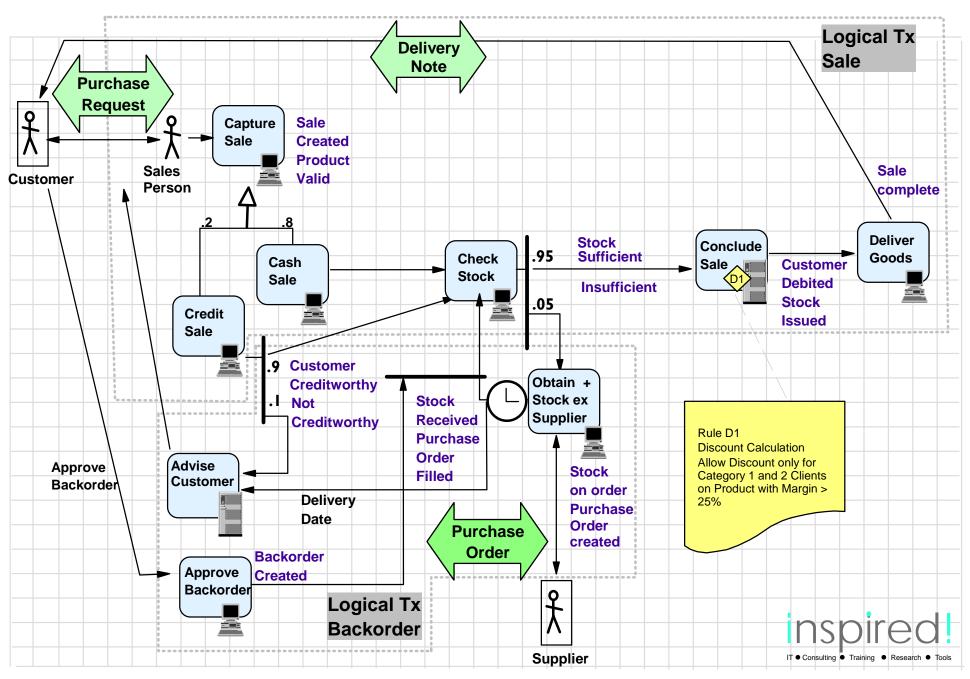




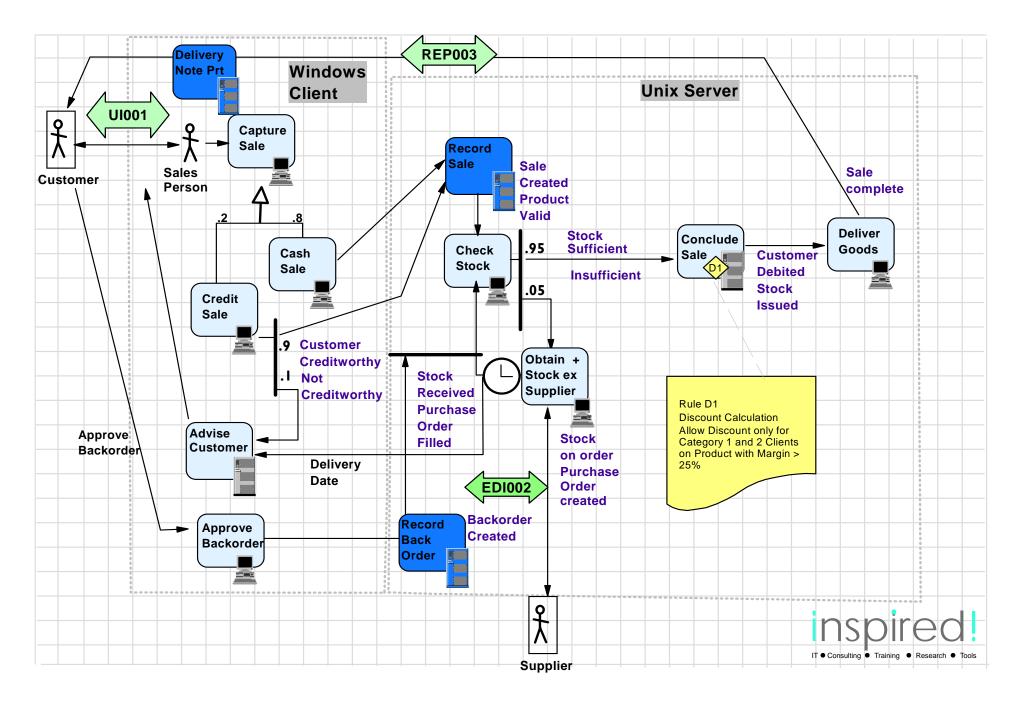
#### Layers of Models



### Example: System Level Model



# Example: Design Level Model



# Clear Linkage from Business

Goals and Events to	
Business Services	
► System Services	
Technology Services and Infrastructure	
► Information Services	
Requirements Traceability	-9
Governance Traceability	

Impact Analysis

BA needs a high level of Domain Knowledge

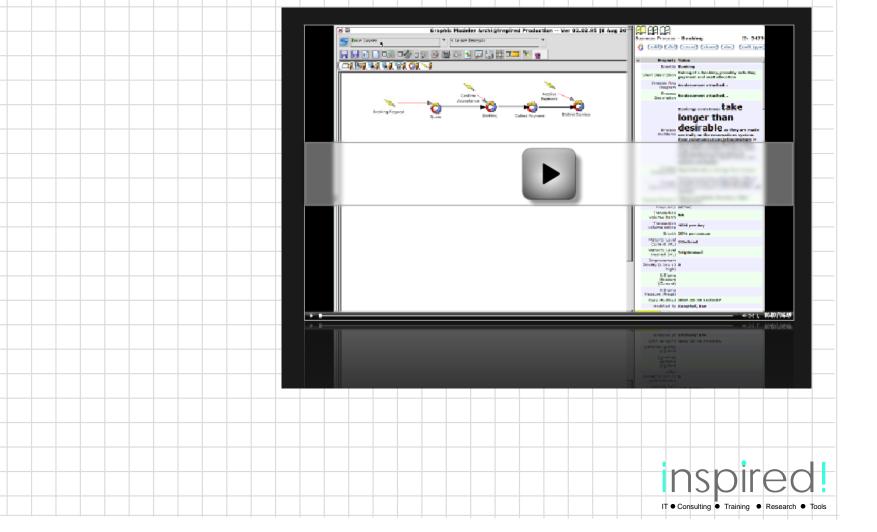
► viz. Assurance vs Banking vs Retail...

Certainly a requirement for international positions

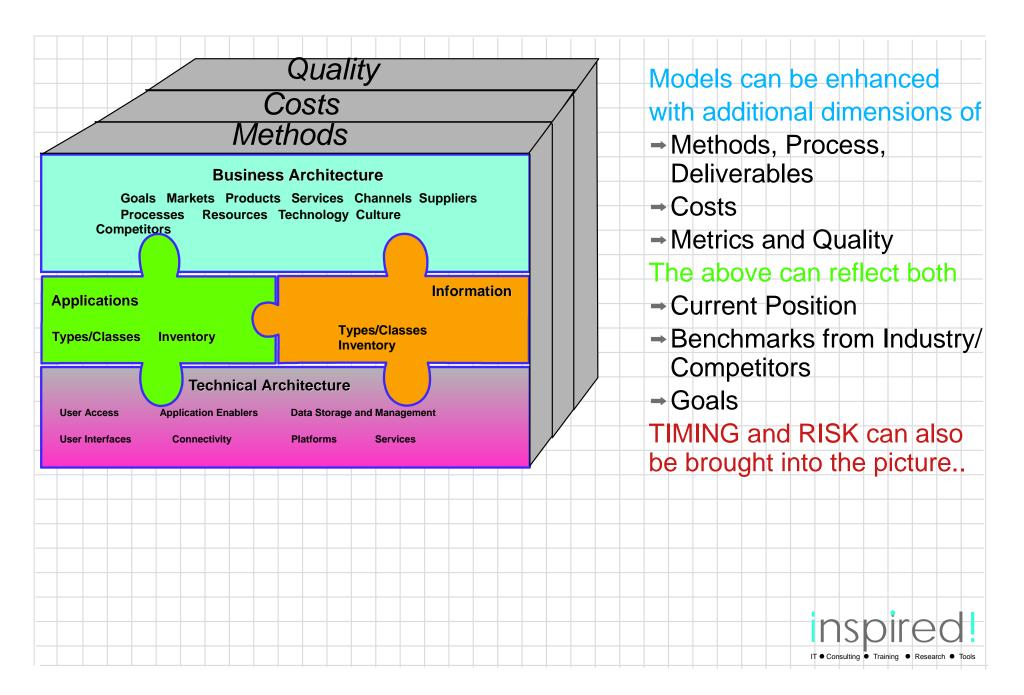
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# 4 Layer Model Example

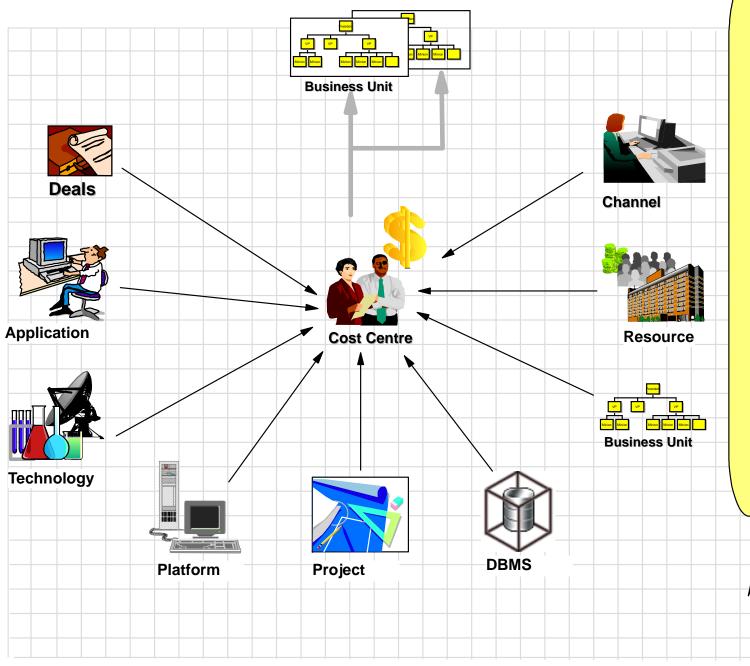
Short video clip illustrating modeling from the business dimension, thru process, down to application and technology



# Third Dimension



## Enhancing the Models - Cost Perspective



the cost elements are already in the architecture models! We need to add attributes to individual items to record the various relevant costs; then implement a mechanism to accumulate them. This adds a model element for Cost Centre, Costs accumulated there can, in turn, be apportioned across business units. This is a flexible approach that allows

Turns out that most of

various cost categories to be monitored - various models can be simultaneously implemented

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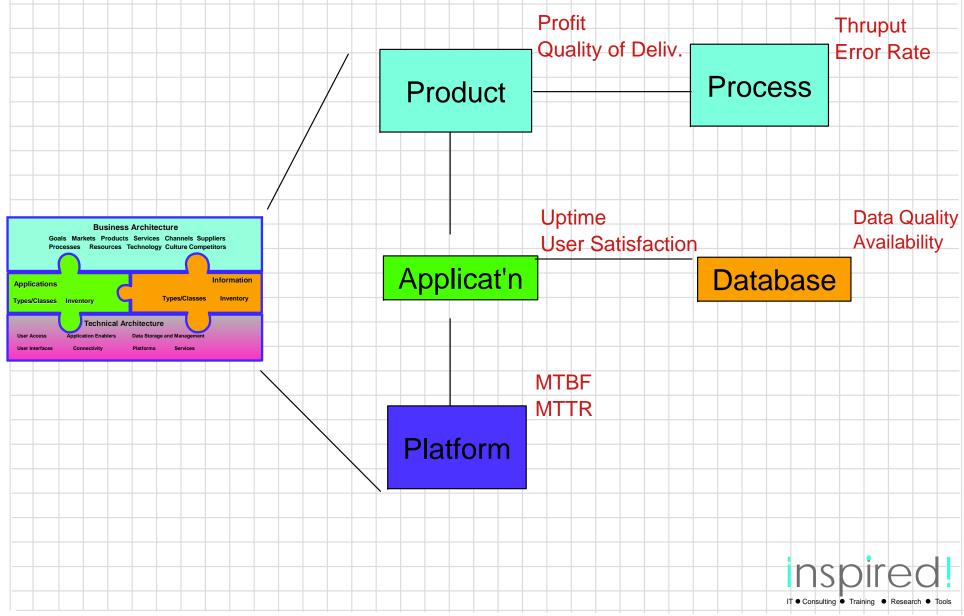
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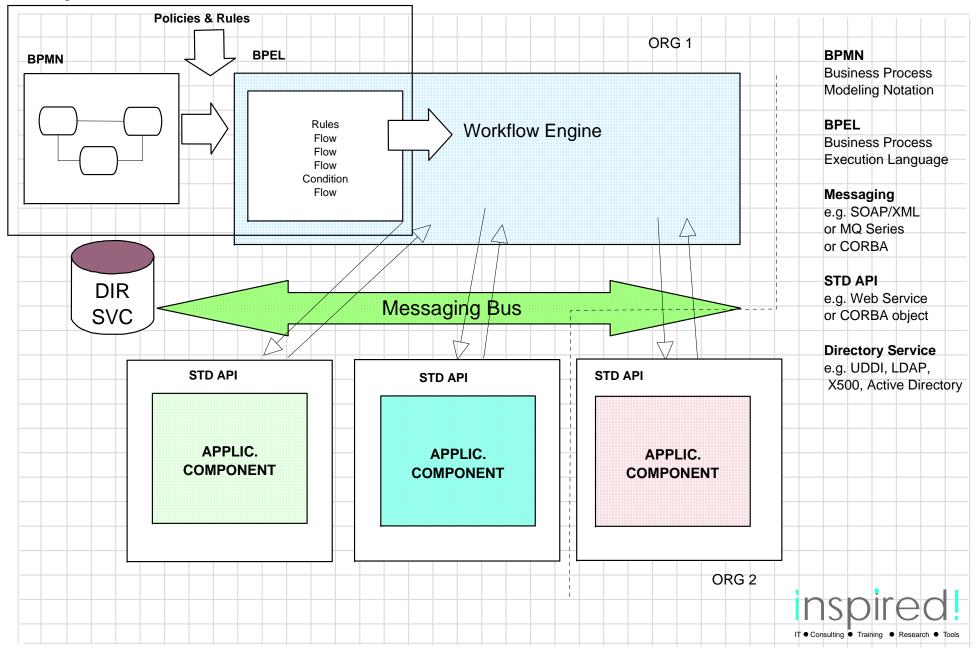
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# Architectures and Process Management Enable Quality Improvement



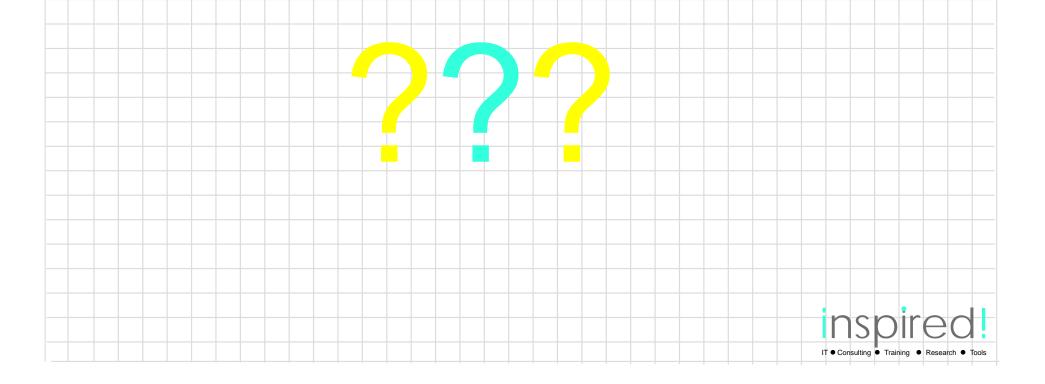
# Standards for Interorganizational Systems

**Modeling Tool** 



# Conclusion & Discussion

- Very large overlap between Business Analysis and EA scope
  Also between required skill sets..
- BA's have a very central role to play in EA
- EA role is a career growth path for analysts, particularly in the Business and Process Architecture dimensions



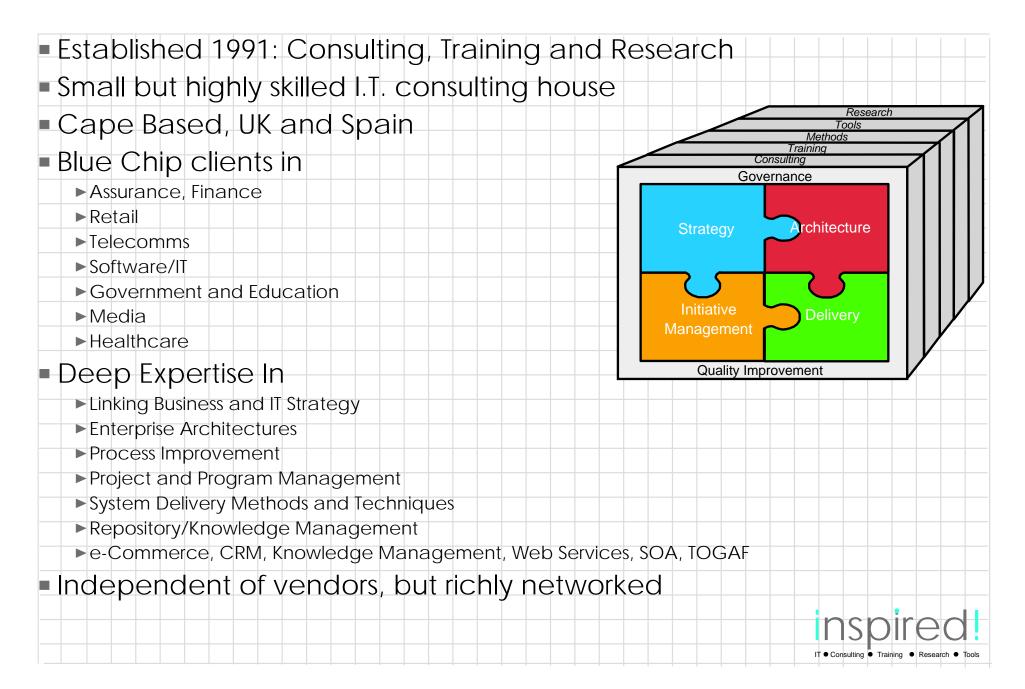
# References and Futher Info

Archi Collaborative Enterprise Modeling Tool: http://www.inspired.org				
BPMN: http://www.bpmi.org http://www.omg.org				
Cover page image of development of universe simulation:				
T. Di Matteo, J. Colberg, V. Springel, L. Hernquist & D. Sijacki, "Direct Cosmological Simulations of				
the Growth of Black Holes and Galaxies," Astrophysical Journal, 2007 (forthcoming).				
General EA Coverage: (Extensive site!) http://www.enterprise-architecture.info/				
Inspired Enterprise Architecture Frameworks: http://www.inspired.org				
TOGAF - Open Group: http://www.opengroup.org				
Zachman - ZIFA: http://www.zifa.com				
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# Inspired



# Anchi Collaborative Enterprise Engineering Tool

#### **Benefits of Collaboration**

- Involvement of more perspectives and subject experts
- Higher quality input and models
- Distribution of effort and greater total effort applied
- Reduction of time to produce results
- Higher awareness and buy in of all relevant parts of the organization => higher architectural compliance
- Greater agility

