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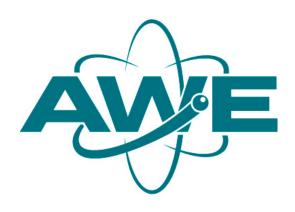










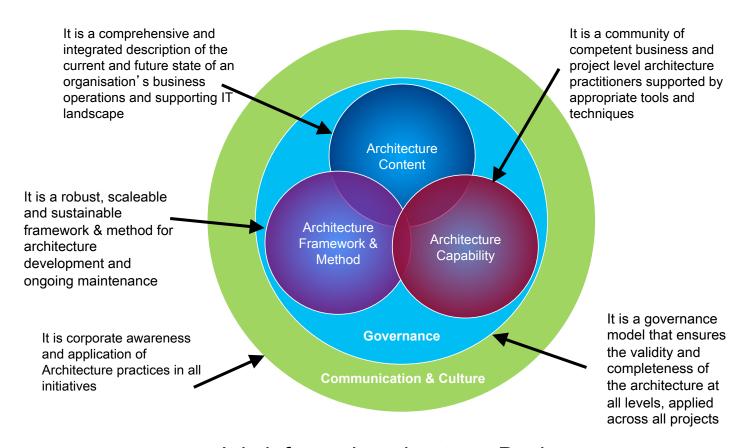


"THE GOLDEN THREAD" enabling end to end transparency

David Lynam CIO AWE



The Question What is Architecture? What do we need to do?



It is information about our Business Providing a basis for informed decision making



The Value of Architecture

- Value of using an architecture framework
 - Understanding of the relationships within the Business
 - Informs control of the Business allowing Innovation and Agility
 - Demonstration of control during change Impact Understood
 - Foundation for the future What about

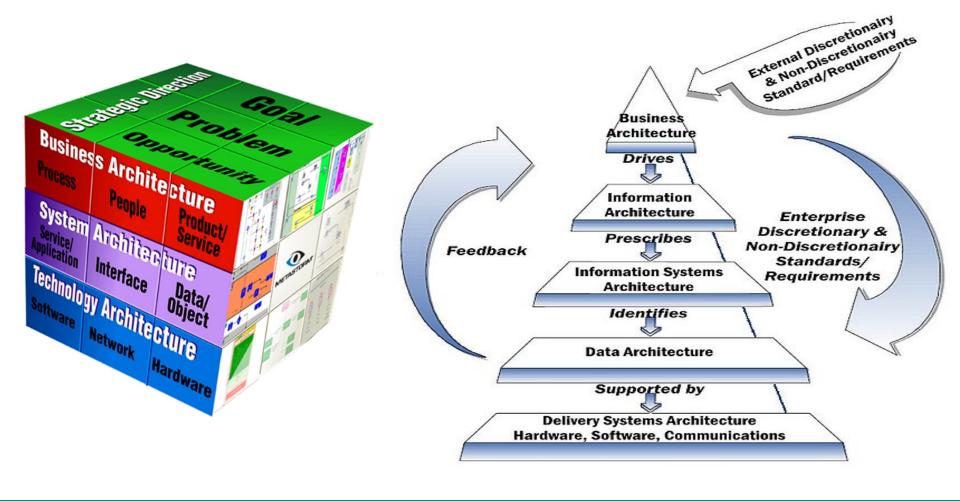






Architecture Model

Business Architecture with a Golden Thread into the CIO Function



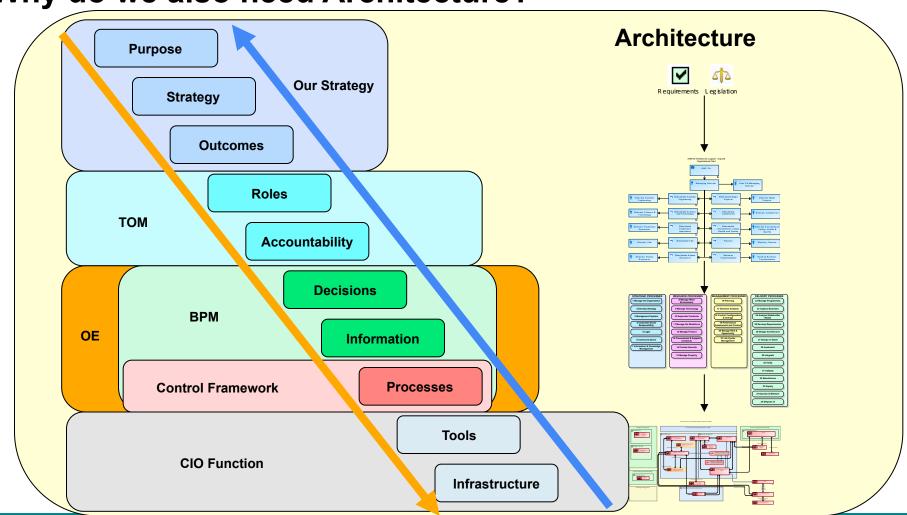


Architecture Workstream- Strategic Intent

- Put in place a business architecture, that represents an integrated view of the business, in order to:
 - Use as a rigorous framework to assess the impact of proposed changes to processes, organisation, technology and information
 - Demonstrate systematically that making such changes will not lead to any compromises in control, safe or security
- Enable business line of sight to the CIO function to deliver flexible and agile Information services covering the risks and opportunities of our business, e.g. Product / Asset and Enterprise, allowing AWE to respond efficiently to changing information needs at all levels of the organisation, in order to:
 - Deliver the right information to the right people, at the right time and in the right form, to allow them to do their job
 - Allow Secure external collaboration where appropriate, with customers, regulators parent companies, suppliers and other partners



We have TOM, CF, OE and BPM. Why do we also need Architecture?





CIO Strategy on a page

Business priorities

- Production
- Transformation
- Deliver the Programme
- Collaboration

Approach delivers solutions in response to business priorities

A CIO function assisting the business to use information resources safely to achieve Our Strategy and goals Business priorities drive our strategic intent

Strategic approach

- Executive-led governance of information services
- Architectural approach to design of information services
- Exploit and rapidly introduce essential information services on flexible infrastructure at point of business need to underpin production restart
- A multi-year, phased programme of work (not big bang)
- Turn information from a liability into an asset via information policy, tools, techniques and knowledge capture
- Alignment with the customer approach
- Common infrastructure services delivered and funded centrally, that just work
- Business services delivered by embedding (funded by functions / programmes)
- Multi-sourced environment and multiple layers of security

Strategic Intent

- **Supporting production:** Business focused, architecturally-led provision of efficient, effective and safe information capabilities.
- **Transform** IT into a broad-ranging CIO function to support and deliver information services which enable a knowledgeworking company
- **Enabling the programme**: Agile exploitation of our information capabilities to improve the delivery of the Programme through access to, and sharing of timely, accurate and trusted information
- Collaboration: Enable information to flow easily and safely between stakeholders, customers and teams, assured by security Defence in depth (Cyber defence)
- Own our destiny, business risk and integration, sourcing out commodity services

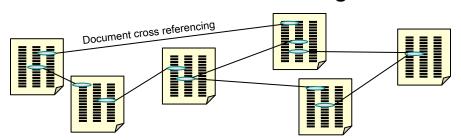
Strategic intent drives our approach



So how is this different from what we do today?

An Example of Architecture Modelling (GRC Example)

Existing Document Centric View



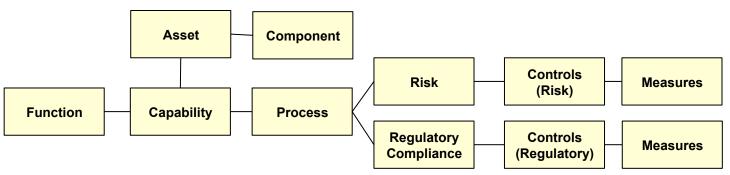
 Current Focus is Document Version Control, NOT Enterprise Configuration Control

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- Intensive Discovery to understand impact of Change
- Enterprise Change Impacts not obvious
- Accountability for Control is ambiguous

Using documents to define the relationships of the enterprise requires each document to be read to discover the relationships and to discover the next document to be read.

Proposed Architecture Modelling View

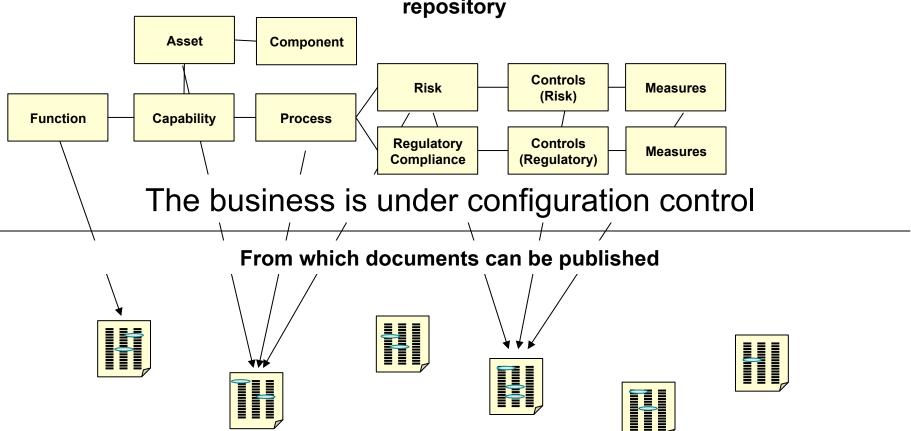


Using a structured model to represent the relationships of the enterprise allows structured query to understand dependencies and impact of change through push button reporting



What does that really mean? What is Different? The data and relationships about the business are held in a structured format in a

The data and relationships about the business are held in a structured format in a repository

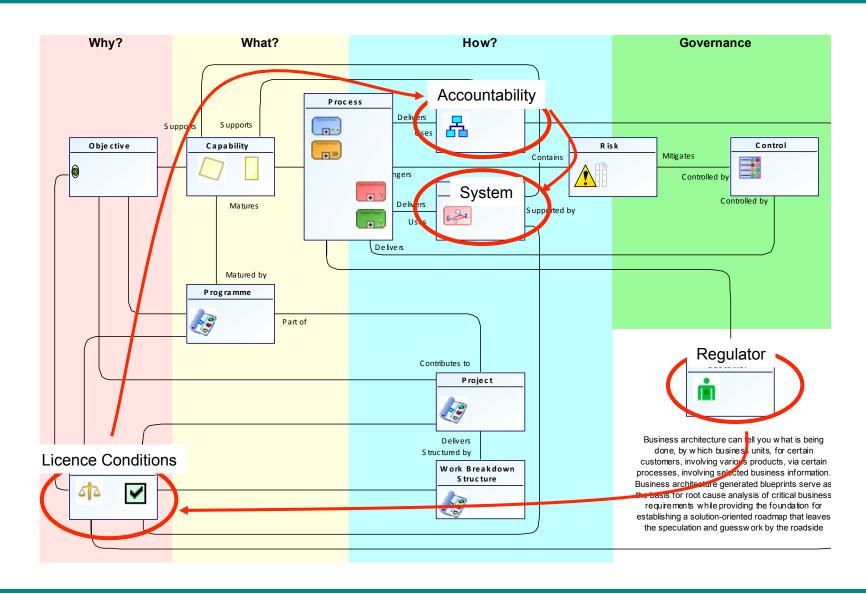


Documents are under version control

UNCLASSIFIED



Proposed Architecture Modelling View Example Understanding Relationships





We can now also analyse the data

License Conditions for whom the accountable person is the Director of Site

This table lists the requirements (in columns) constraining the architecture items (in rows).



License Conditions where the accountability is elsewhere in the organisation and the list of systems which fall under the control of AISC and which do not support a licence condition

The following objects have no relationship with the row items:

- LC01 Interpretation
- LC03 Restriction on Dealing with the Site
- LC04 Restrictions on Nuclear Matter on the Site
- LC05 Consignment of Nuclear Matter
- LC06 Documents, Records, Authorities and Certificates
- LC07 Incidents on the Site
- LC08 Warning Notices
- LC09 Instructions to Persons on the Site
- LC10 Training
- LC11 Emergency Arrangements
- LC12 Duly Authorised and Other Suitably Qualified and Experienced Persons
- LC13 Nuclear Safety Committee
- LC17 Quality Assurance
- ✓ LC18 Radiological Protection
- LC25 Operational Records
- LC29 Duty to Carry Out Tests and Inspections
- LC30 Periodic Shutdown
- LC31 Shutdown of Specific Operations
- ✓ LC32 Accumulation of Radioactive Waste
- LC33 Disposal of Radioactive Waste
- ☑ LC34 Leakage and Escape of Radioactive Material and Radioactive Waste
- LC36 Control of Organisational Change

The following objects have no relationship with the column items:

eFacility

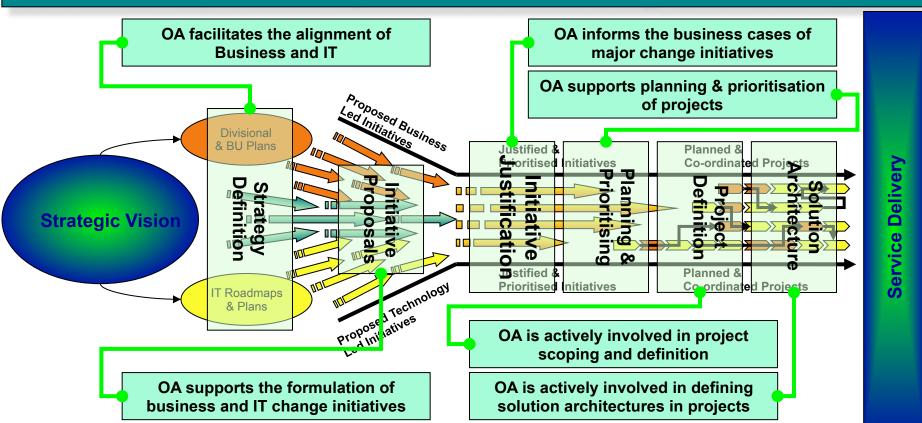
Enables impact analysis of changes to the technology



Our Architecture in Action – Delivering the Strategy

supports business change from strategy to service management by ensuring alignment throughout

Our Architecture helps to maintain alignment between business strategy and service delivery

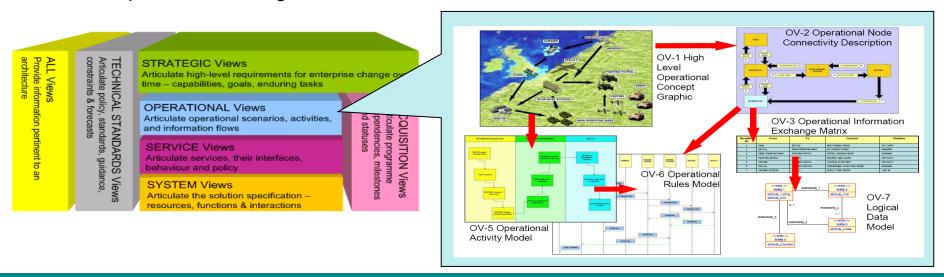


Our Architecture provides a framework and process for change that maintains clear focus on delivering the vision and value for the intended cost



The Value for the Future Architecture Helps Understanding of Complexity

- Every architecture is intended to support decision-making, this one is no different
 - Viewpoints address the needs of different stakeholders allowing different decisions to be made on the same underlying data
 - Views (diagrams, tables etc.) within each viewpoint show details and are easier to understand
 - Architectural elements are shared or linked between different views to produce an integrated architecture





Questions