Driving Collaboration across Enterprise and Solution Architecture

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Who are we?

James is a Technical Director within the Atkins C-Suite Advisory team.

He has setup and managed enterprise, solution and data architecture teams, tools and working practices across many industries.



He has experiences performing both enterprise and solution architecture roles across public and private sector organisations.









Why are we here?

For most organisations, decision making, design and architecture are typically distributed across multiple teams, with differing goals, budgets and line management. In our work, we have explored ways in which we can drive collaboration and will identify some of the pitfalls you may encounter.

In this presentation, we'll focus on a recent example of our work in aligning enterprise and solution architecture.



Topics



- Value Delivery. How do you deliver value?
- **Context.** How do we collaborate across Architecture, Design and Delivery?
- **Challenge.** What collaboration challenges do we face?
- Collaboration Value. How does collaboration improve value delivery?
- **Approach.** How do drive collaboration?





• **Real world example.** Enterprise & Solution Architecture in Defence.



Value Delivery





How does collaboration accelerate and increase value delivery?



Architecture Context



Collaboration reality – multiple decisions with continuous iteration



Typical Challenge

Direction

- Strategy with no plan
- Plan with no strategy

Governance

- Budgets & decisions aligned with organisation topology, not value delivery
- Governance and behaviours that stifle agility
- Lack of inter-departmental management (aka touch points)
- Conflicting ways of working, tools, techniques & methodologies
- Designs locked in too early or too late
- Suppliers locked out of the decision
- Customers overlooked

People

- Ineffective use of intellectual capital
- Conflicting team and personal goals
- Limited time, skills & experience
- Different experiences, background and languages



Higher investment Slower time to impact Reduced reward Lower predictability



Collaboration Value

Conway's law

- "Any organization that designs a system (defined broadly) will produce a design whose structure is a copy of the organization's communication structure"
- In other words your approach to collaboration dictates your value delivery

Collaboration seeks to address the limitations of your organisation topology.

- Organisation structures are always evolving, as too are the lines of collaboration
- Collaboration is at multiple levels team/department/external

Large-scale collaboration is not always the answer.

- Cohesion (internal collaboration) within teams is equally important
- Does not mean boiling the ocean or the need to account for every perspective. Prioritisation is key.



Team Topologies can help and hinder the network of collaboration

However, topology does not exclusively dictate collaboration.



Practical Approach

Win hearts and minds

Identify shared inter-departmental value

Understand & Manage the touch points

• How and when teams should interact

Minimise barriers to entry

- Simplify approach
- Simplify the message
- Universal language

Embed governance that enables agility

- Standardise ways of working
- Build a shared mental-model (supported by transparent model-based designs)
- Drive inter-departmental ownership

Iteratively grow

- Create a Land and Expand pathway
- Prioritise your collaboration by the value derived

Treat as a 'Complex Adaptive System'

- Provide clear purpose
- Enable self-organisation
- Provide transparency
- Shared mental-model



Lower investment Faster time to impact Increased reward Higher predictability



Example – Framework Objectives







Key Framework Aspects





Ecosystem Stakeholders





Solution Architecture Design Approach

Impact assessments of key EA artifacts (principles Project & services). Proposal Import of project data via Excel spreadsheet Automated view generation. Logical Architecture Overall Application, Solution Data and Automated & templated **Design &** ٠ Information Design deliverable generation. Architecture Assurance Consistent deliverables for ٠ Workshops held with SME's to identify key ٠ architecture review boards. questions. Def. Digital Strategy Viewpoints designed to answer key questions. ٠ Infrastructure Exemplar architecture views created across Delivery and Network ٠ Architecture key design phases. Templated working space for model design ٠ activities. Service Security Management Architecture Architecture



Viewpoints



- Viewpoints, templates & exemplars published to architecture repository.
- Training sessions & videos published for designers (SA's, EA's).





Simple Soundbite Training

(15 minute videos)





Key Ingredients



FROM

Fruitlessly aiming to align	·
Start with a meta-model	
Attempt to align multiple departments in one go	
Train everyone in everything	
Focus on linear gateways	
Worry too much of org structure	
Place blame on your collaborators	

TO

Understand the shared value
Simplify and understand the key decisions
Go on a journey land and expand journey
Provide simple soundbites
Drive iteration & adaptability
Explore the inter-team networks & touch points
Seek to develop shared assets



Q&A



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