

Avancier Methods (AM) Initiate

Define the architecture processes

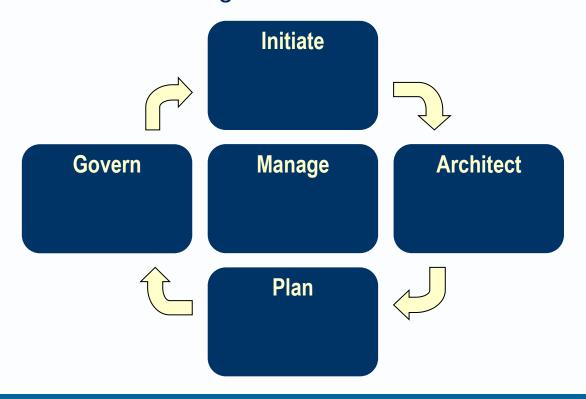
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Architecture framework



A comprehensive architecture methodology ought to advise on

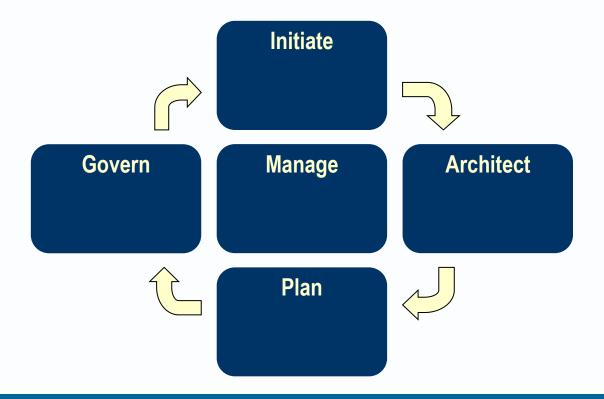
- Process: an architecture development process.
- Products: a documentation framework
- People: advice on architect roles and organisation.



Architecture development process



- develops a target architecture to meet some requirements, under some constraints
- involves planning the move from the baseline state to the target state, and governing that change



TOGAF's Architecture Development Method (ADM)



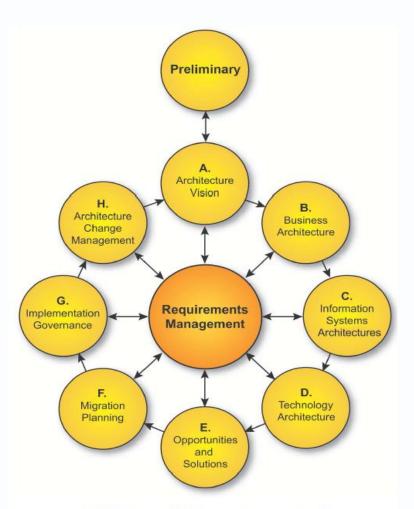


Figure 5-1 Architecture Development Cycle

- ► The ADM is a process
- It is the core of TOGAF
- And its strength

- Elements of TOGAF are in used
 - solution architecture
 - business analysis
 - even technical architecture.
- But it does not provide a complete method for any of those



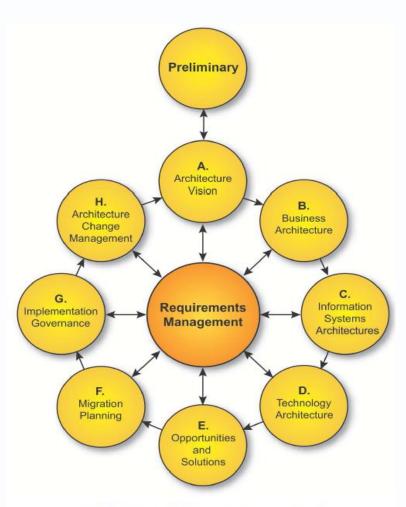
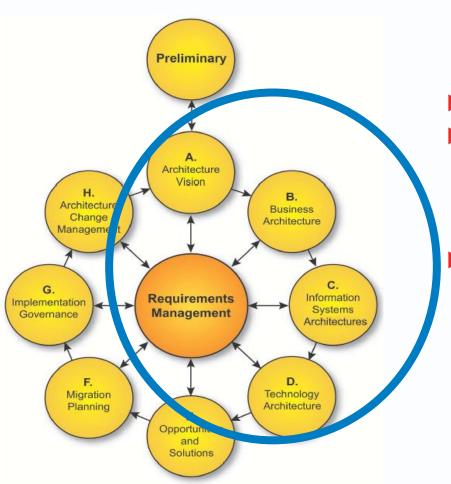


Figure 5-1 Architecture Development Cycle

- It provides an outline of architecting work
- But it assumes you mostly know how to do it already!





- ► TOGAF tells you simply to
- "Develop the target architecture to extent necessary to support the Architecture Vision"
- How do you do that?

Figure 5-1 Architecture Development Cycle



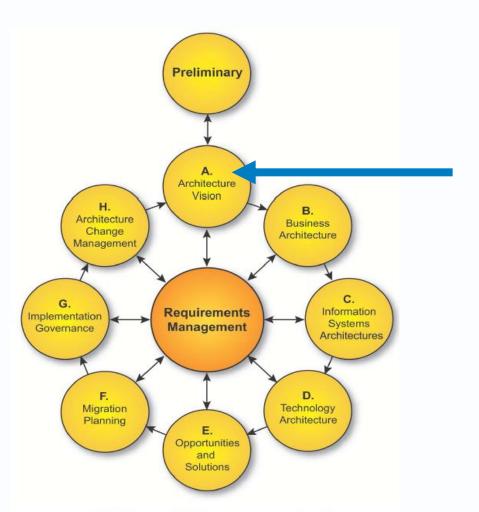


Figure 5-1 Architecture Development Cycle

- E.g. TOGAF suggests you draw a "Value Chain Diagram"
- How do you do that
- How do you use it to drive architecture development?



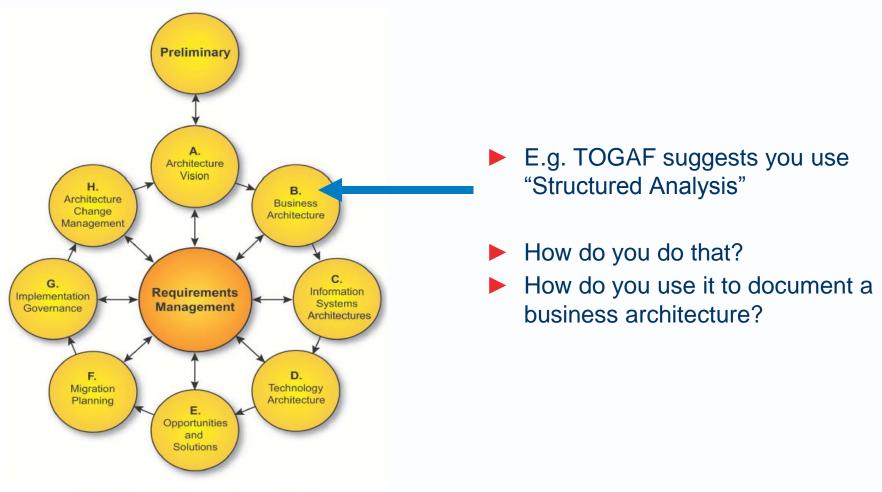
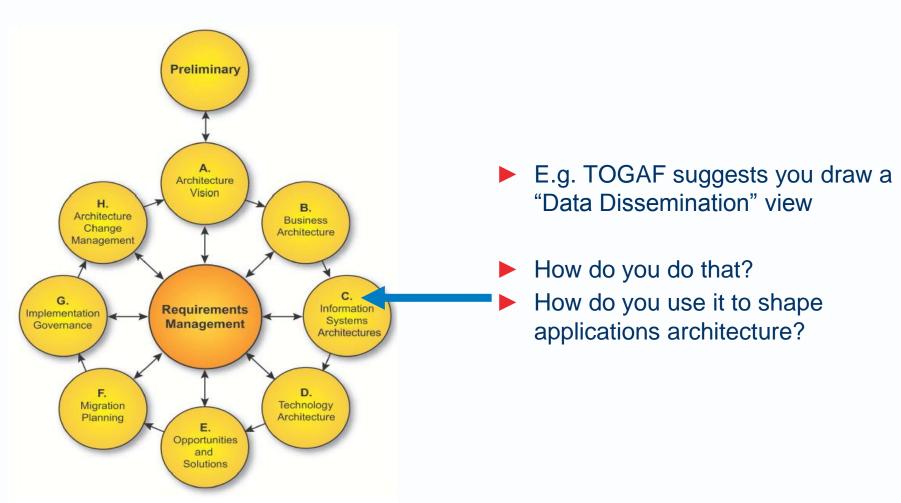


Figure 5-1 Architecture Development Cycle







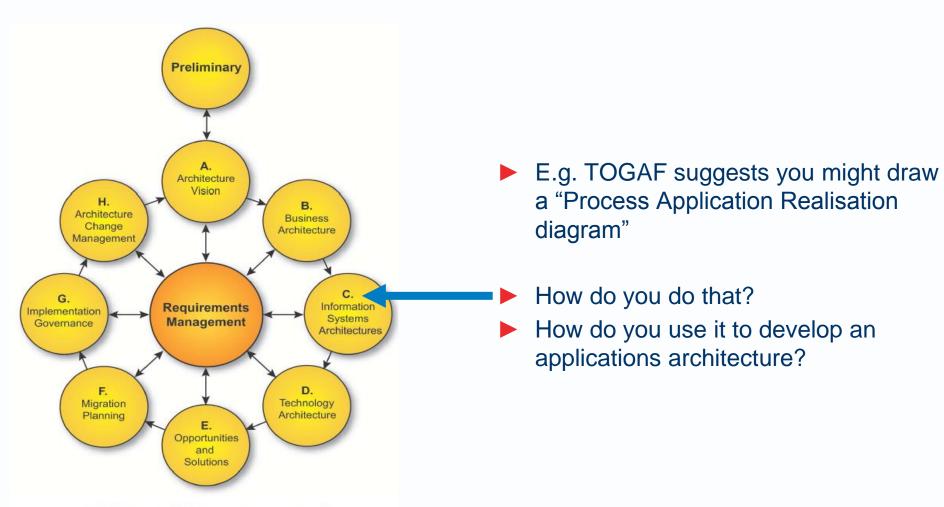


Figure 5-1 Architecture Development Cycle



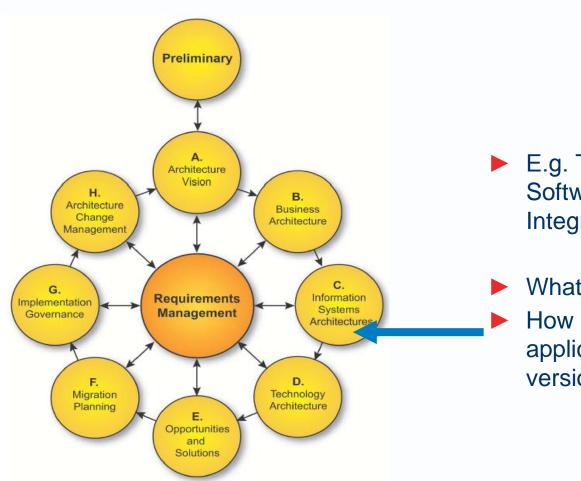


Figure 5-1 Architecture Development Cycle

- E.g. TOGAF doesn't say much about Software Architecture and Application Integration patterns
 - What are they?
- How do you use them to integrate applications? to maintain a single version of the truth?



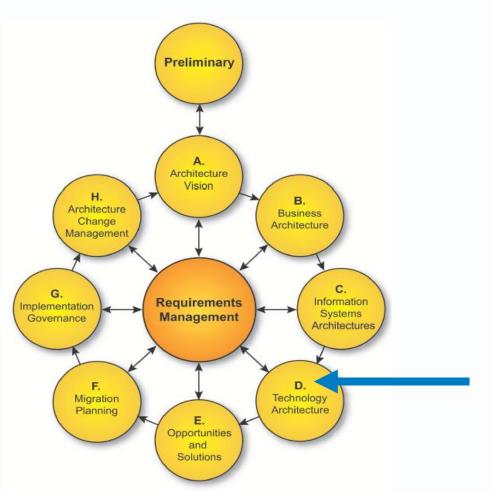


Figure 5-1 Architecture Development Cycle

- E.g. TOGAF suggests you draw several varieties of infrastructure architecture diagram
- How do you do that?
- How do you develop them incrementally from the applications architecture?
- How do you design to meet required Qualities (non-functional requirements)?

Enhancing TOGAF with Avancier Methods



TOGAF's ADM is a management framework that promotes the role of architects

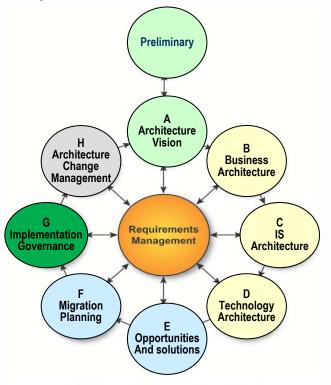


Figure 5-1 Architecture Development Cycle

AM gives architects more specific processes and documentation artefacts



Initiate
Establish capability

Establish directions....
Scope the endeavour

Get vision approved



Govern

Respond to oper'l change

Monitor the portfolio(s)

Govern migration/delivery Initiate (re)construction

Manage

Manage stakeholders

Manage requirements

Manage business case

Manage readiness & risks



Understand the baseline

Review initiation products

Clarify NFRs

Design the target



Select suppliers

Plot migration path

Chart road map

Complete delivery plan



Enhancing TOGAF with BCS professional training



- complementary to TOGAF.
- focuses more architecture work itself while still remaining technology independent.
- suits people working in the world of software development, systems integration and infrastructure who find TOGAF too abstract or too far removed from their day job
- helps people to better understand and appreciate what TOGAF has to offers by way of management framework
- ▶ Like TOGAF, it is assumed the people have some experience of business, data, apps or infrastructure architecture before they attend the course, it is not for beginners in IT.



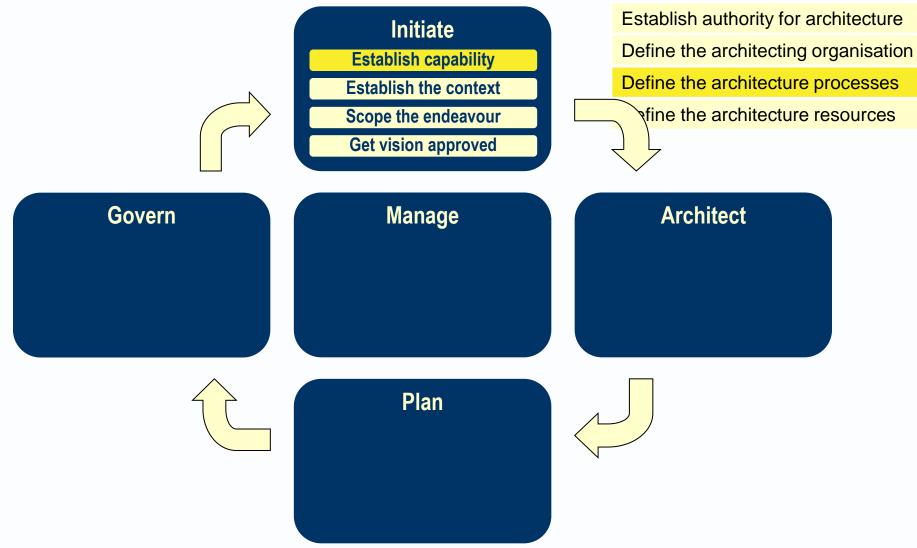
Avancier Methods (AM) Initiate

Define the architecture processes

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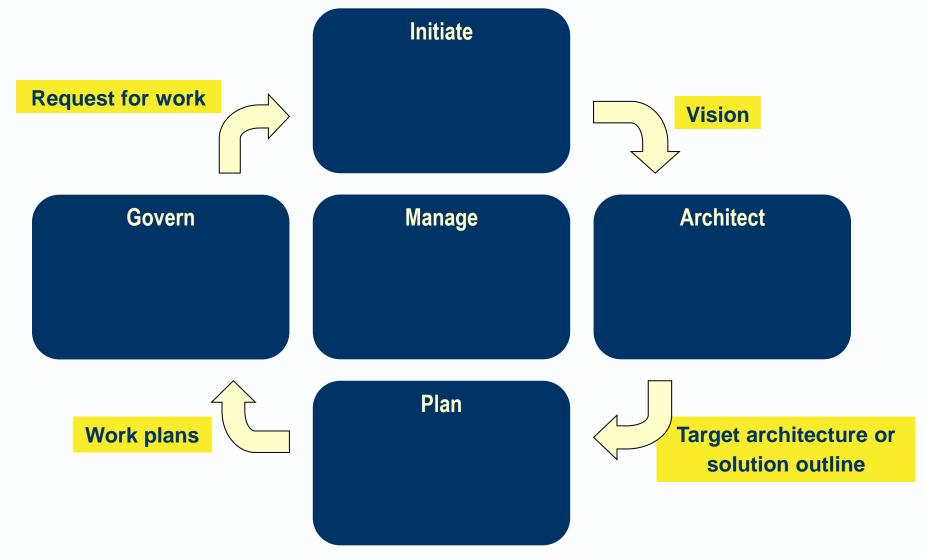
Define the architecture processes





AM follows this general problem solving pattern





Iterate where necessary to correct or improve

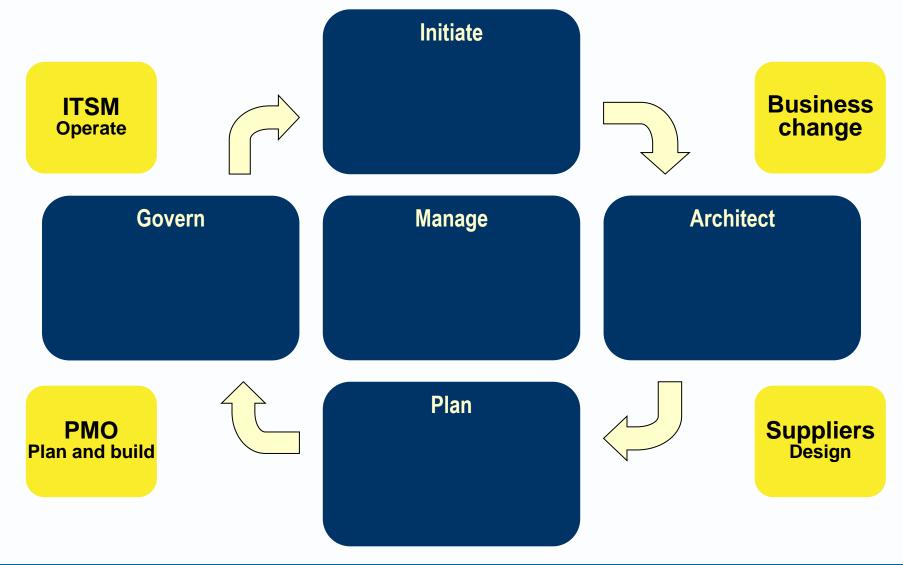


Revise target architecture

▶ Be as agile as the **Initiate** business case and **Revise initiation** deadlines allow products **Revise built systems** Govern Manage **Architect** Plan Revise pla

Engage with other functions and processes





2nd level processes in generic AM process





Initiate

Establish capability

Establish the context

Scope the endeavour

Get vision approved



Govern

Respond to oper'l change

Monitor portfolio(s)

Govern delivery

Hand over to delivery

Manage

Manage stakeholders

Manage requirements

Manage business case

Manage readiness & risks

Architect

Understand the baseline

Review initiation products

Clarify NFRs

Design the target



Plan

Select suppliers

Plot migration path

Review business case

Plan delivery



Insert milestones to review the business case



INITIATE	Example milestone names
Establish capability Establish the context	Discover
Scope the endeavour Get vision approved	Vision
ARCHITECT	
Understand the baseline Review results of initiation Clarify NFRs Design the target	Outline
PLAN	
Select suppliers Plot migration path Review the business case Plan delivery	Commit
GOVERN	
Hand over to delivery Govern delivery	Deliver
Monitor portfolios Respond to operational change	Monitor

- A milestone is a stop/go point at which
- 1. Progress is tested against defined criteria
- 2. Impacts from and on other parallel activities are considered
- Stakeholders are invited to review deliverables and approve further work

(These milestone names are taken from the process of an IT service provider.)



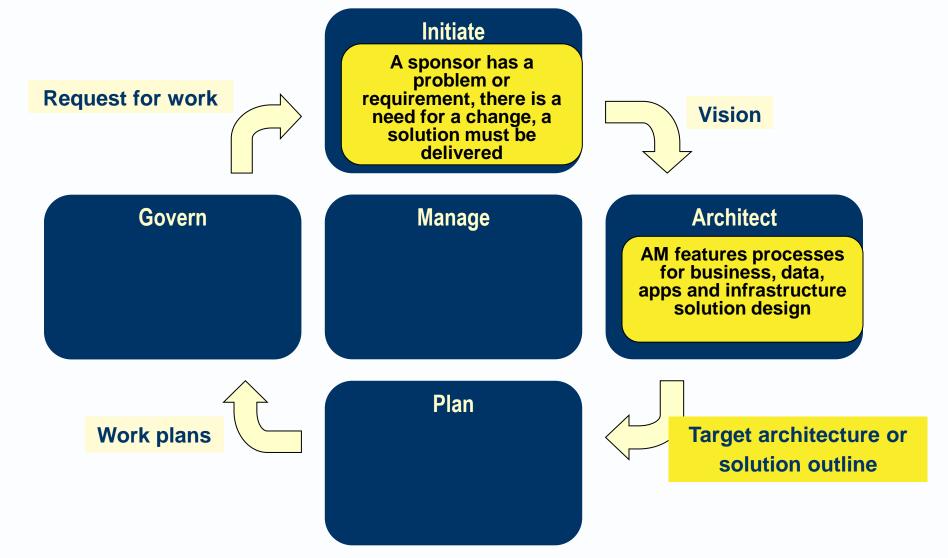
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Relating EA and SA processes

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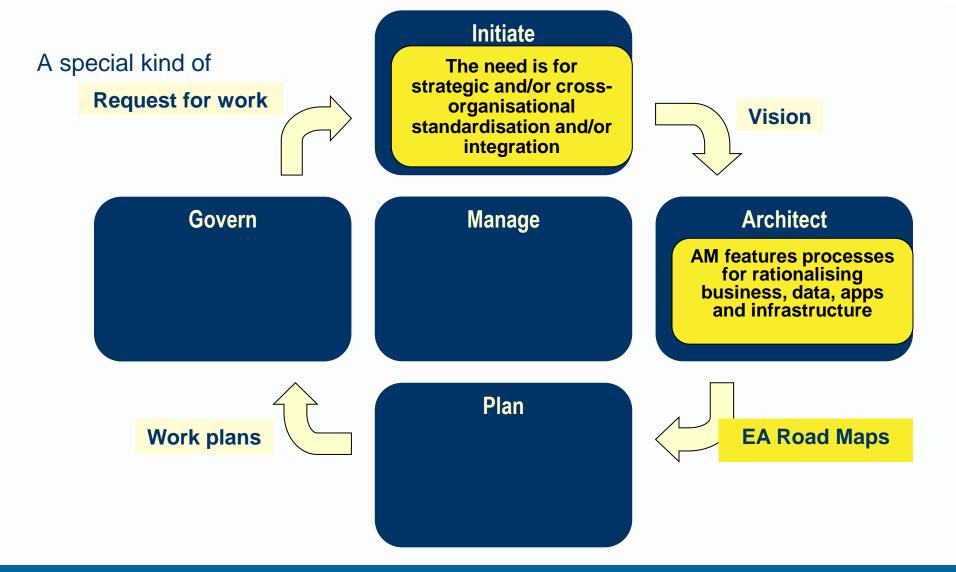
Solution Architecture follows this general pattern





Enterprise Architecture is a higher level version



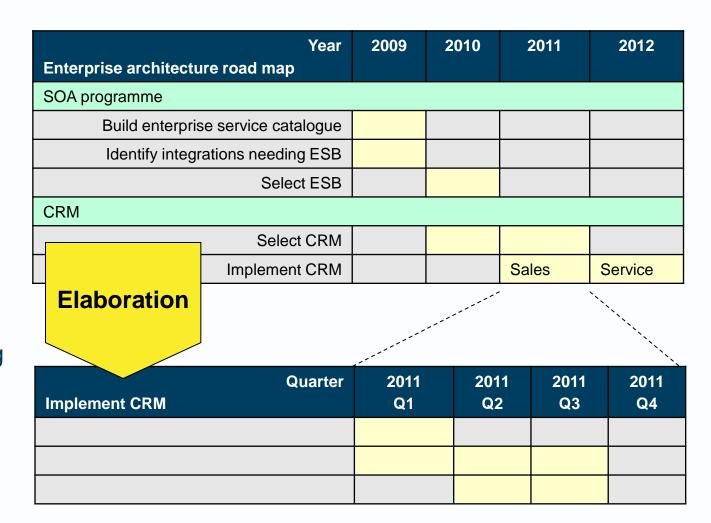


There should be more solution architects



For every enterprise architect with a strategic 5 year plan:

Several solution architects are helping to shape and steer more tactical plans:

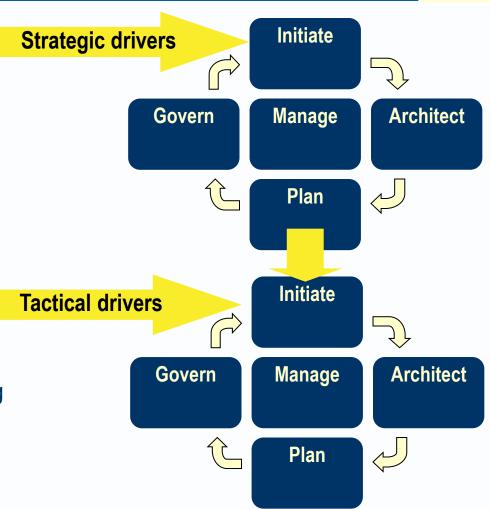


Architecture role and process variations



- Enterprise architecture
 - common standards and principles
 - rationalisation
 - high-level road map(s)
 - governs solution architecture

- Solution architecture
 - specific problems
 - solution delivery
 - wrestles with the realities of designing and developing specific solutions



Two levels of goals, sometimes in conflict

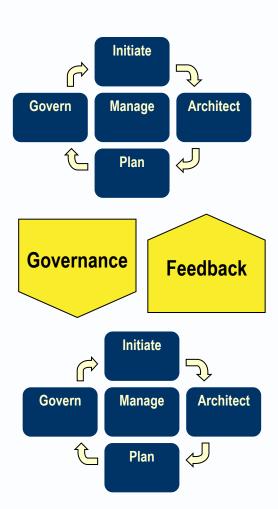


EA

- Rationalisation and refactoring of the estate
 - Portfolio management prioritisation of changes
 - Consolidation and integration
- Business and technical agility
 - Faster and cheaper change
 - Imposition of standards and commonality across IS/IT developments.
- Enterprise-wide transformation
 - An overarching plan for driving towards a target,
 - Scoping of specific solutions.

SA

- Solve a problem make a project-level change
- Assurance of functional and non-functional qualities
- Shape a solution that will work
- Minimize the overspend and manage the risks typical of IS/IT projects



Potentially, a three-level cascade of architecture processes



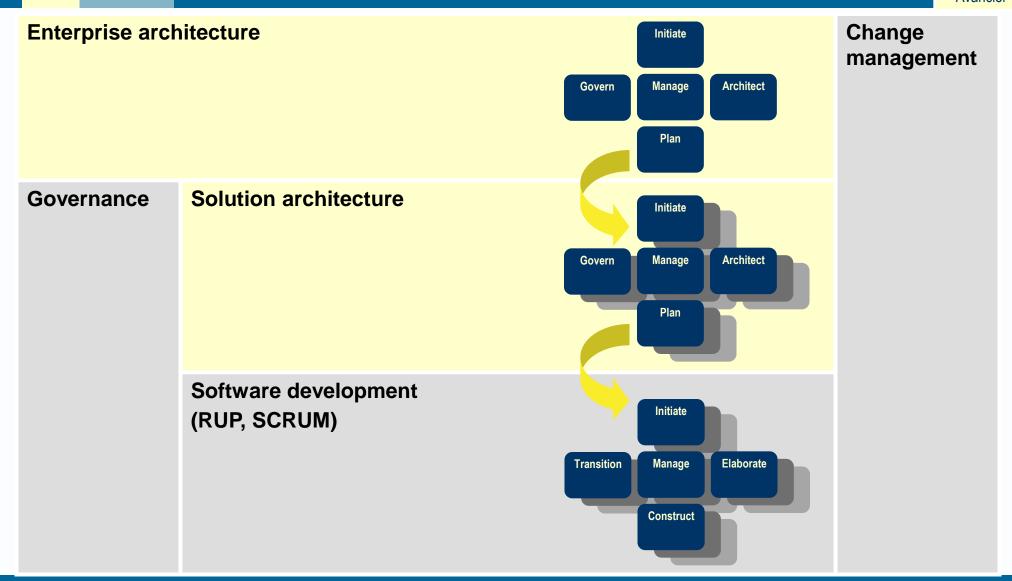
- Enterprise architecture
- Solution architecture
- Software architecture (in the SDLC)

E	Change management	
Governance	Solution architecture	
	Software development (RUP, SCRUM)	

But it is a mistake to think these are the same

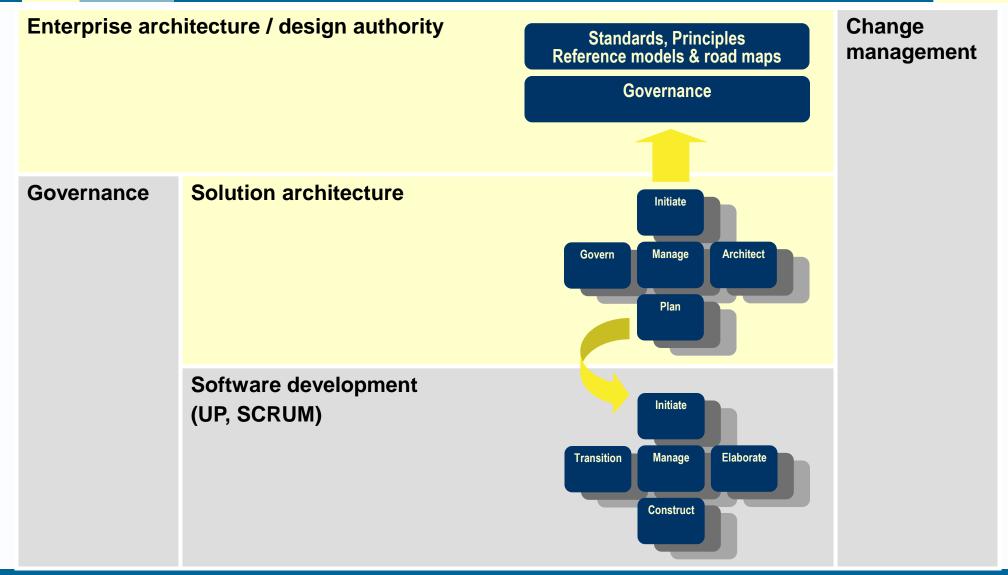
Sometimes, top-down planning is the name of the game





Often, solution architects seek validation of bottom up plans









Common assumption: the process is top to bottom, left to right

The architects' working space				
Architecture facet Architecture level	Business Architecture	Data Architecture	Applications Architecture	Technology Architecture
Enterprise Architecture	Vision			
Solution Architecture	Solution Outline			
Software Architecture & Technical Specialisms			Solutio	n to Build





But some EA visions are centred on technology innovation or change

The architects' working space				
Architecture facet Architecture level	Business Architecture	Data Architecture	Applications Architecture	Technology Architecture
Enterprise Architecture				Vision
Solution Architecture	Solution Outline			
Software Architecture & Technical Specialisms			Solutio	n to Build

Tactical solution developments



And some solutions develop incrementally with no vision

The architects' working space				
Architecture facet Architecture level	Business Architecture	Data Architecture	Applications Architecture	Technology Architecture
Enterprise Architecture				
Solution Architecture	Solution Outline			
Software Architecture & Technical Specialisms			Solution	n to Build



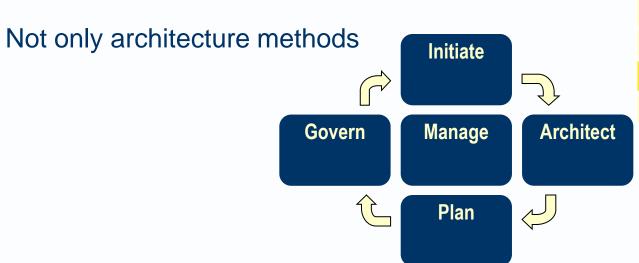
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Other processes

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Architecture-related processes you need





Establish authority for architecture

Define the architecting organisation

Define the architecture processes

Define the architecture resources

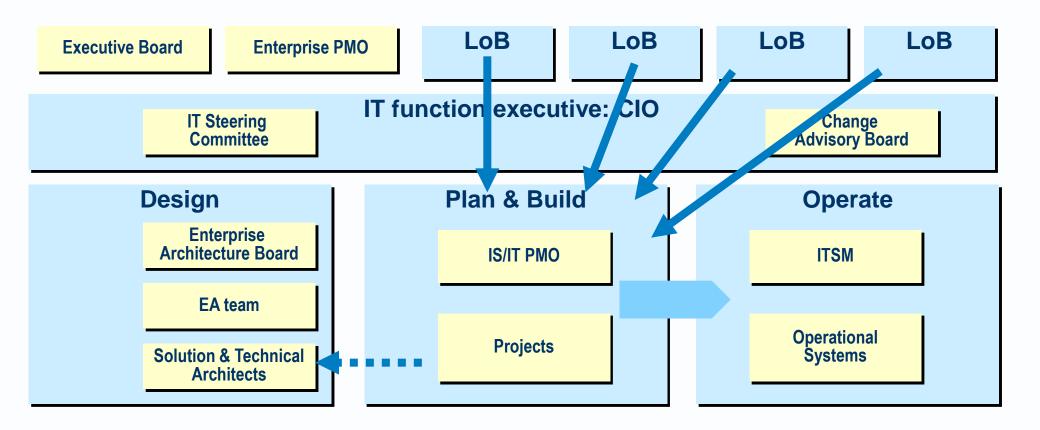
Also

- Solution classification and prioritisation process
- Architect resourcing process
- Architecture governance/approval process
- All integrated with your PMO processes

Problem - a common reality



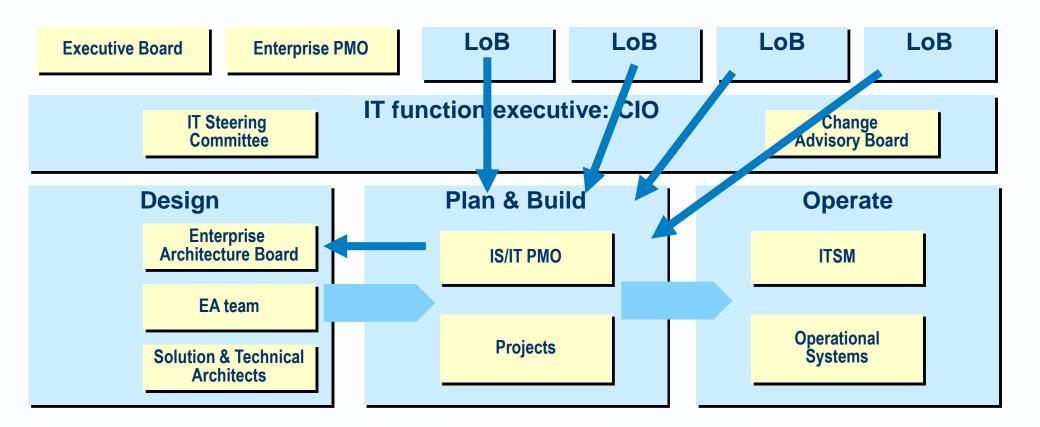
► PMO calls for a solution/technical architect – belatedly



Solution

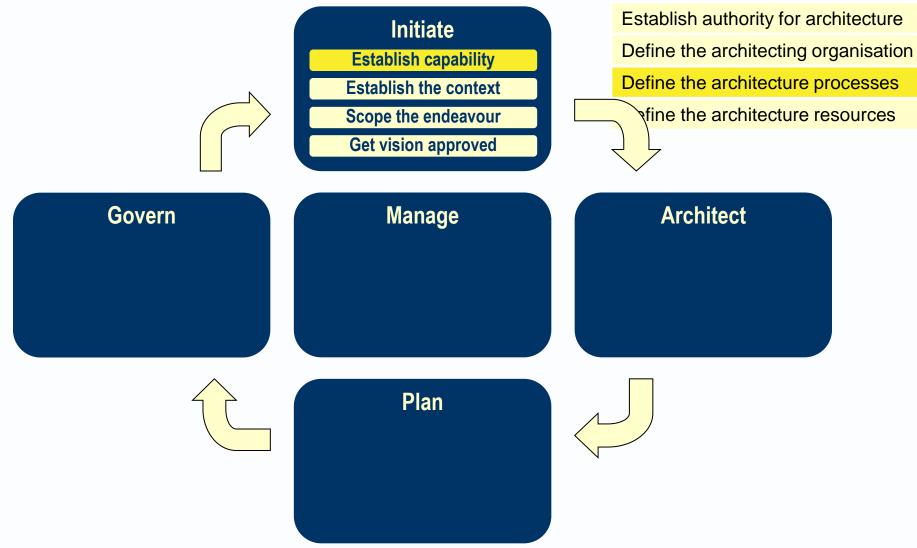


Enterprise processes force PMO to call EA immediately



Define the architecture processes

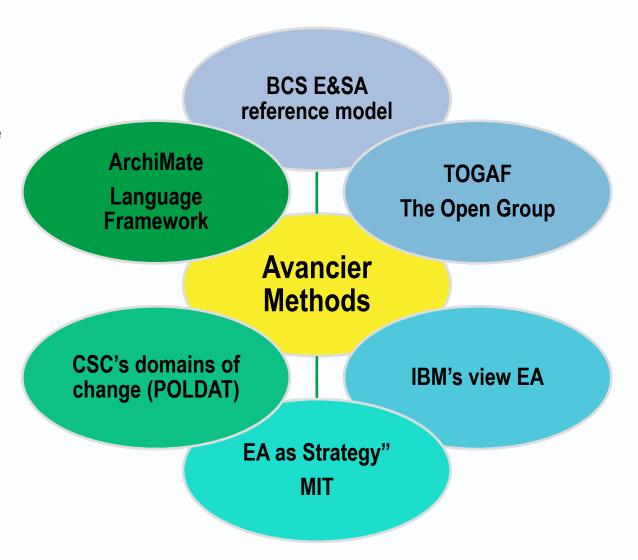




Methods and resources



- Avancier Methods are useful with all architecture frameworks that share similar ends and means
- http://avancier.co.uk





- Hi Graham,
- ► I'm Chief Architect at XXX. I've just spent a couple of happy hours discovering your material at Avancier ...
- ► I have to say that I am very impressed with your work In fact I'm stunned.
- ► I'm 24 years in IT, the last 12 or so in architecture and I have never seen such a thorough, all encompassing, accessible and SENSIBLE statement of what it's about and how to do it.
- ► Also really like your boiling down of TOGAF and the apparent refusal to kowtow to any particular framework, silver bullet, "method du jour" thanks again!