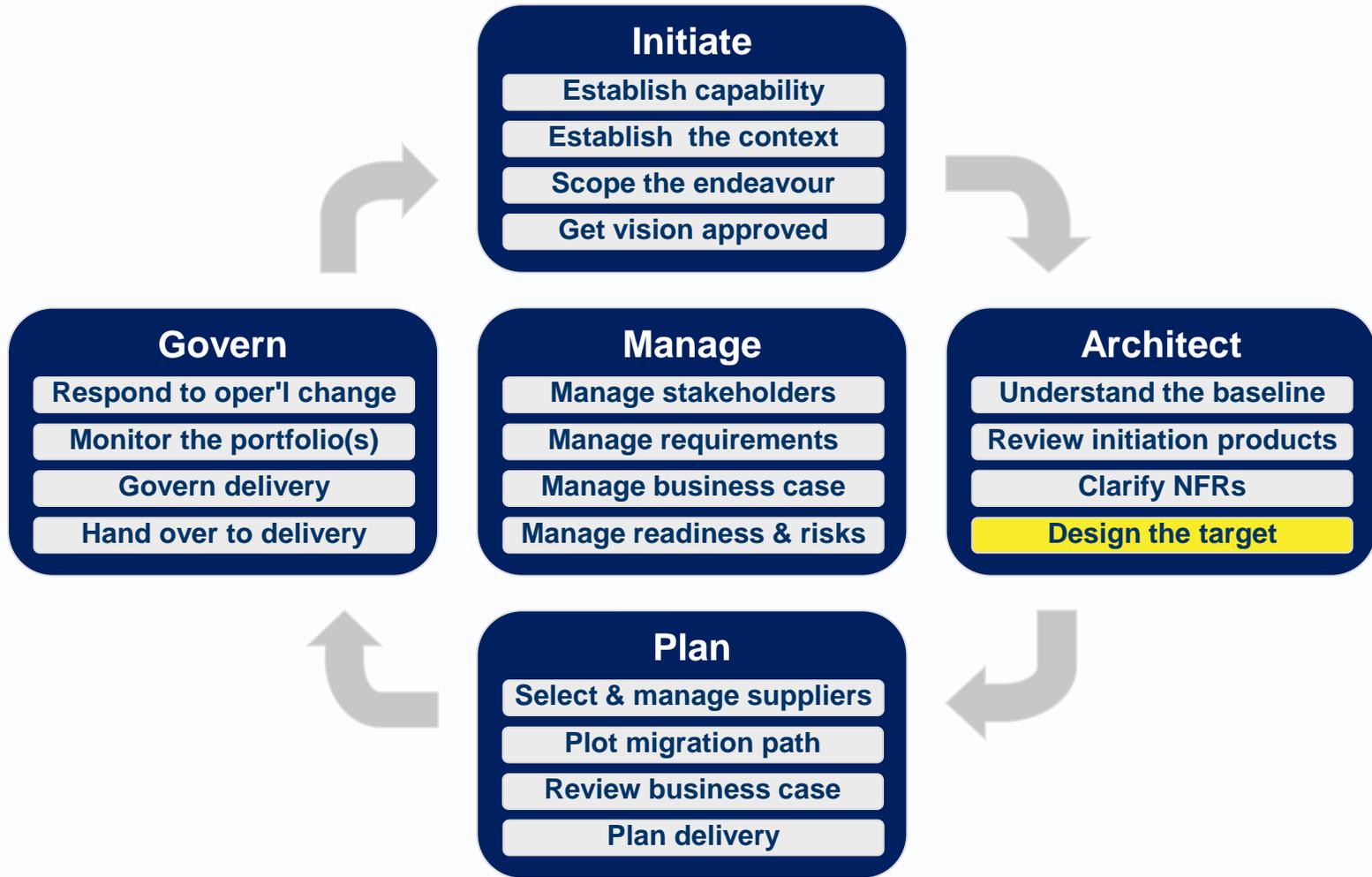


Avancier Methods (AM) Architect Phase

Design target

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Design the target (AM level 2)



Design the target: architecture domains

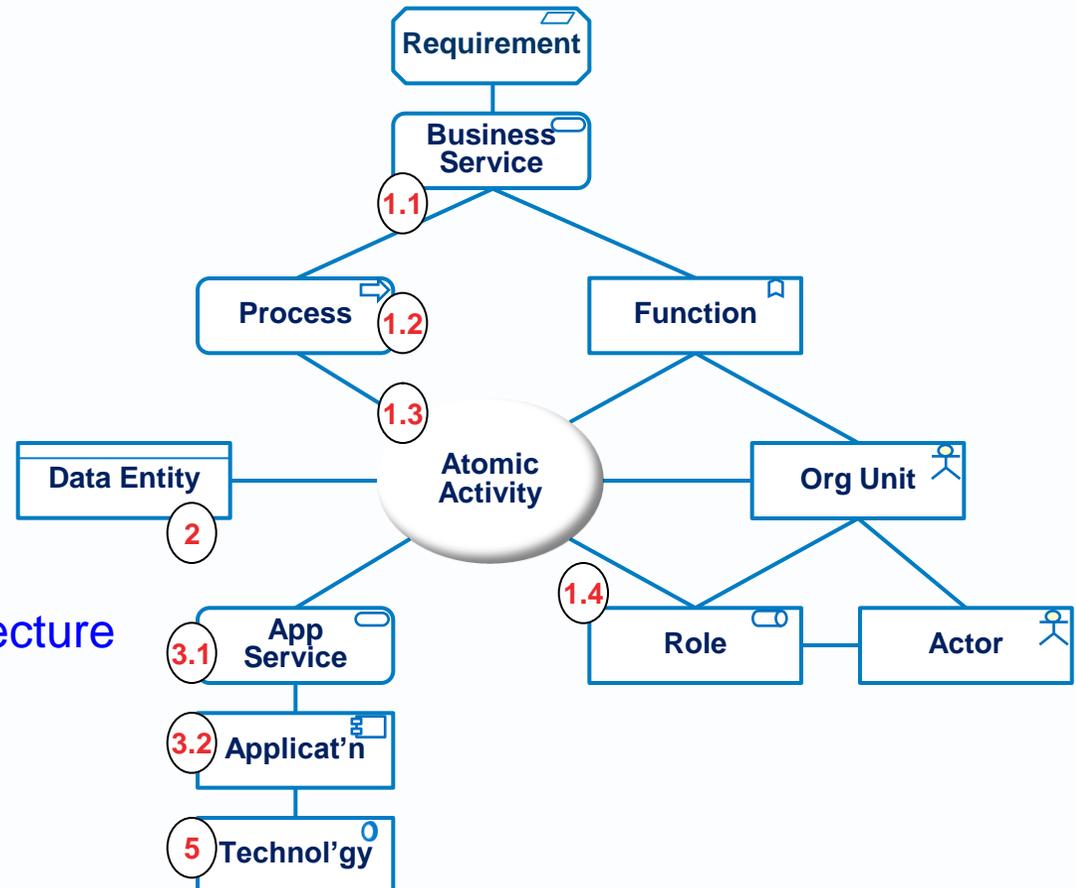
- ▶ EA optimises and extends business activities that create and use data.
- ▶ This involves designing and planning changes to the architecture domains below.

Business architecture	<p>This describes the structural and behavioral elements of a business - the services they provide and their inter-relationships.</p> <p>EA maps business elements to business motivations (drivers, strategies, goals etc.) and to elements of other domains.</p>
Information systems architecture	<p>This describes information systems that support & enable business activities by capturing & providing data.</p> <p>Data Architecture describes business data stores and data flows, the data structures they contain and the qualities of that data.</p> <p>Application Architecture describes business applications - the services they provide to business activities, and their inter-relationships.</p> <p>EA maps data stores, data flows, data entities, applications and application services to each other and to elements of other domains.</p>
Technology (infrastructure) architecture	<p>This describes platform technologies - the services they provide to business applications and their inter-relationships.</p> <p>EA maps technology components and platform services to elements of other domains.</p>

Design the target (AM level 3)

1. Design business architecture
 - Define service view
 - Define process view
 - Define atomic activities
 - Define role view
2. Design data/information view
3. Design applications architecture
 - Define application use cases
 - Define applications view
4. Design to meet NFRs
5. Design platform technology architecture
6. Report the target architecture
7. Review the target architecture

Detailed in methods & [training](#)



Design target data architecture (AM level 4)

1. Define the business context for data creation and use
2. Define data flows (I/O messages, displays, forms and reports)
3. Define data dictionary or canonical data model
4. Define data store(s): relational and document stores
5. Address data quality issues

Detailed in methods & training

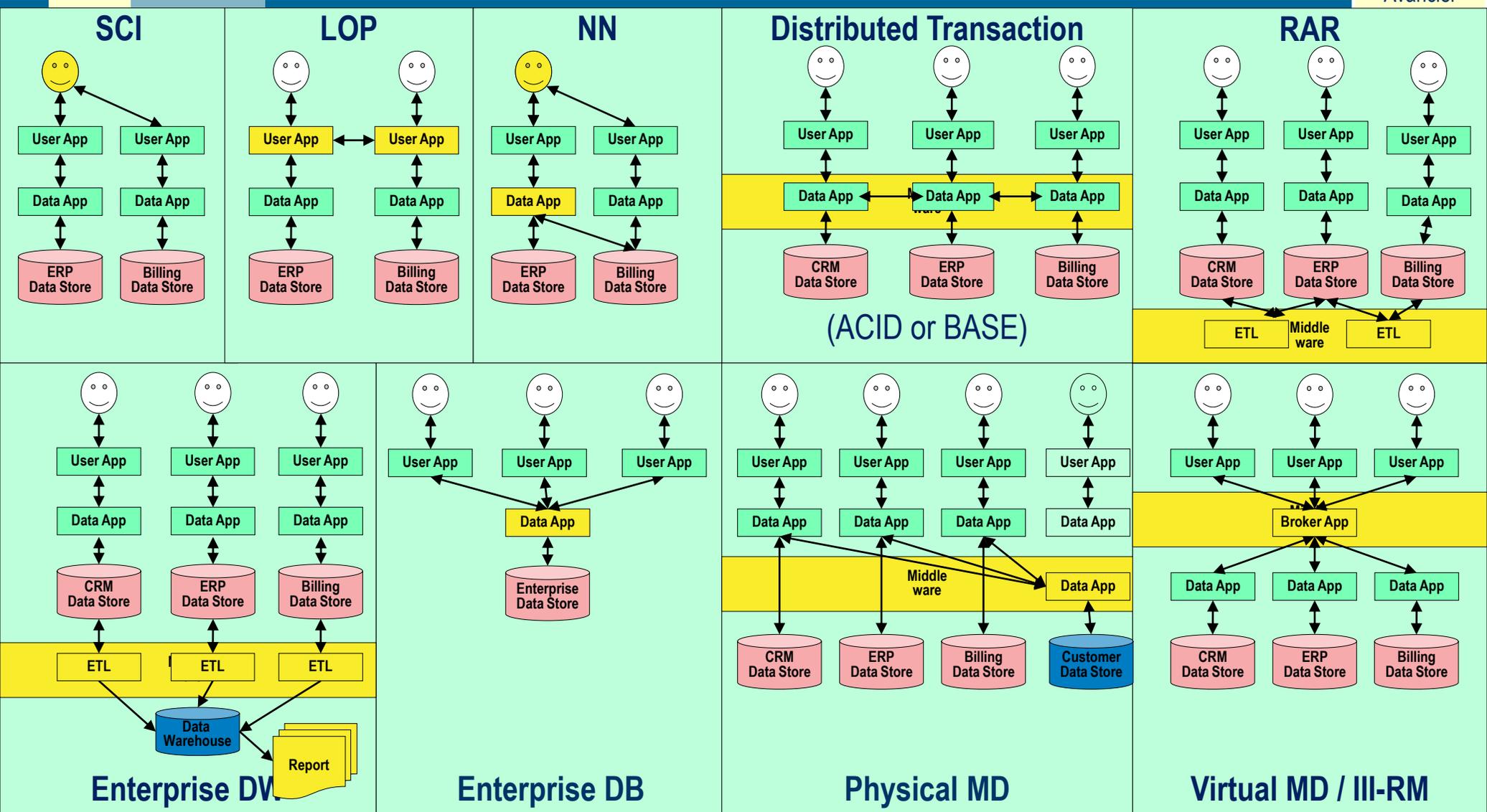
Design target application(s) architecture (AM level 4)

1. Design application uses cases (solution level)
 1. Identify use cases
 2. Draw use case diagram
 3. Describe use cases
 4. Identify automated services

2. Design target applications architecture (enterprise level)
 1. Identify data flows, data stores and applications in scope
 2. Select best-fitting Application Integration Pattern
 3. Draw application communication diagram (aka DFD)
 4. Draw sequence diagrams for key processes

Detailed in methods & training

Select best-fitting Application Integration Patterns (AM level 4)



Design the Technology Platform for a Solution (AM level 4)

1. Identify requirements and context
2. Establish baseline opportunities and constraints
3. Define platform nodes
 - Client nodes
 - Data source nodes
 - Other nodes
4. Map software to platform nodes
5. Map logical nodes to physical nodes
6. Define the network
7. Refine to handle NFRs
8. Define non-production environments
9. Govern deployment and transition into operations

Detailed in methods & training

Report the target architecture

- ▶ Present the target architecture or Solution Outline to all sponsors and stakeholders.
- ▶ The presentation may take many forms, including workshops and one-to-one discussions.
- ▶ Note feedback and do what you can to process it.

Review the target architecture

- ▶ Review the finalised target architecture or solution outline alongside whatever Business Case has been completed so far.
- ▶ It is likely you have reached a milestone in your management framework. If so, you must at get written permission to proceed, at least from your sponsor(s).
- ▶ Ideally, you will record the approval to proceed of all stakeholders. Or else as many as possible. At least the priority stakeholders with the highest power over and interest in what it is to happen next.

Design the target (AM level 2)

