

TOGAF®

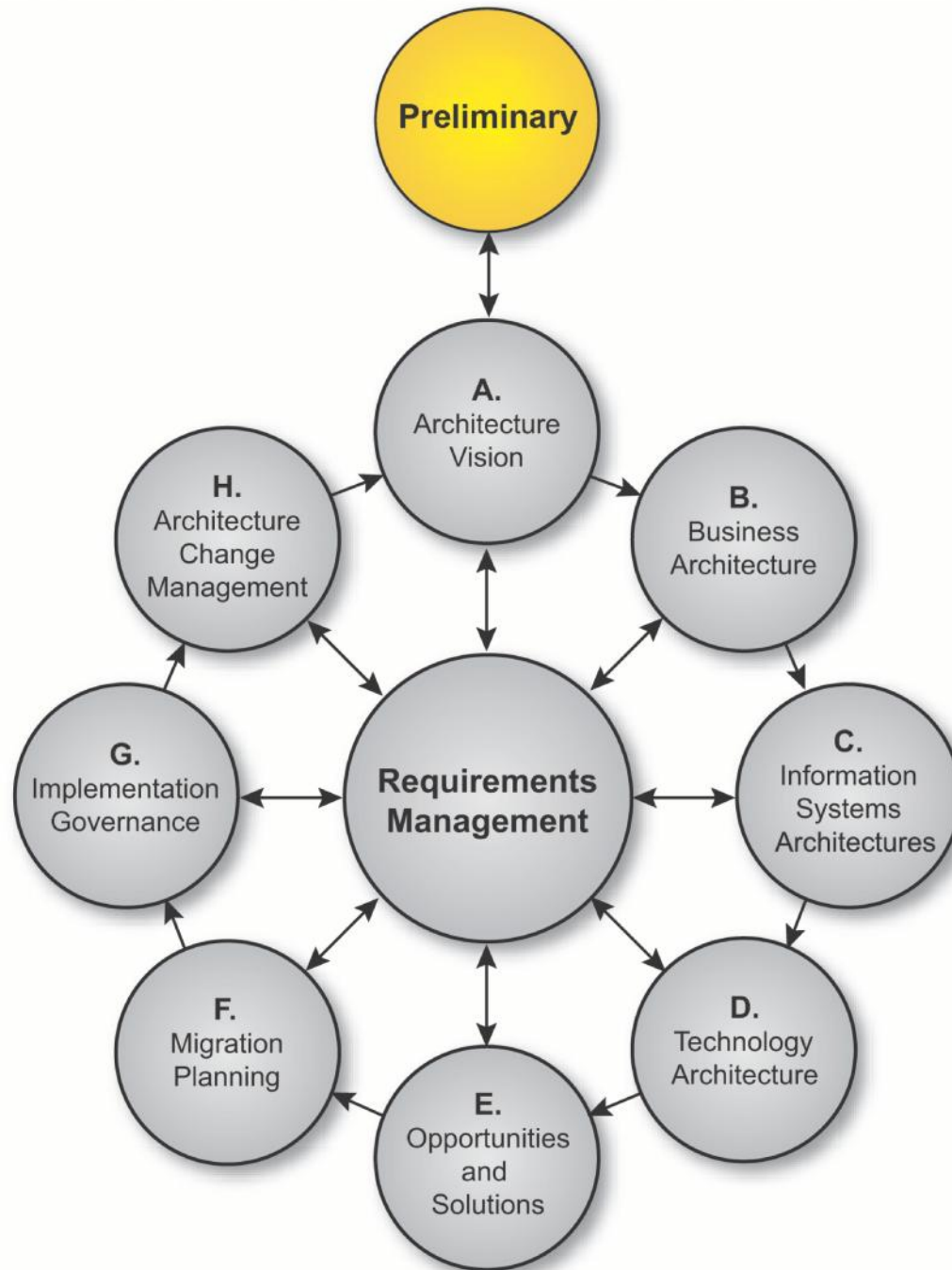
Version 9.1 Enterprise Edition

Module 8 Preliminary Phase

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Preliminary Phase

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Module Objectives

The objectives of this module are to understand the Preliminary Phase:

- Objectives
- Approach
- Steps
- Inputs
- Outputs

Preliminary Phase: Objectives in detail

- Determine the Architecture Capability desired by the Organization:
 - Review the organizational context for conducting enterprise architecture
 - Identify and scope the elements of the enterprise organizations affected by the Architecture Capability
 - Identify the established frameworks, methods, and processes that intersect with the Architecture Capability
 - Establish a Capability Maturity target

Continued...

Preliminary Phase: Objectives in detail

- Establish the Architecture Capability:
 - Define and establish the Organizational Model for Enterprise Architecture
 - Define and establish the detailed process and resources for architecture governance
 - Select and implement tools that support the Architecture Capability
 - Define the architecture principles

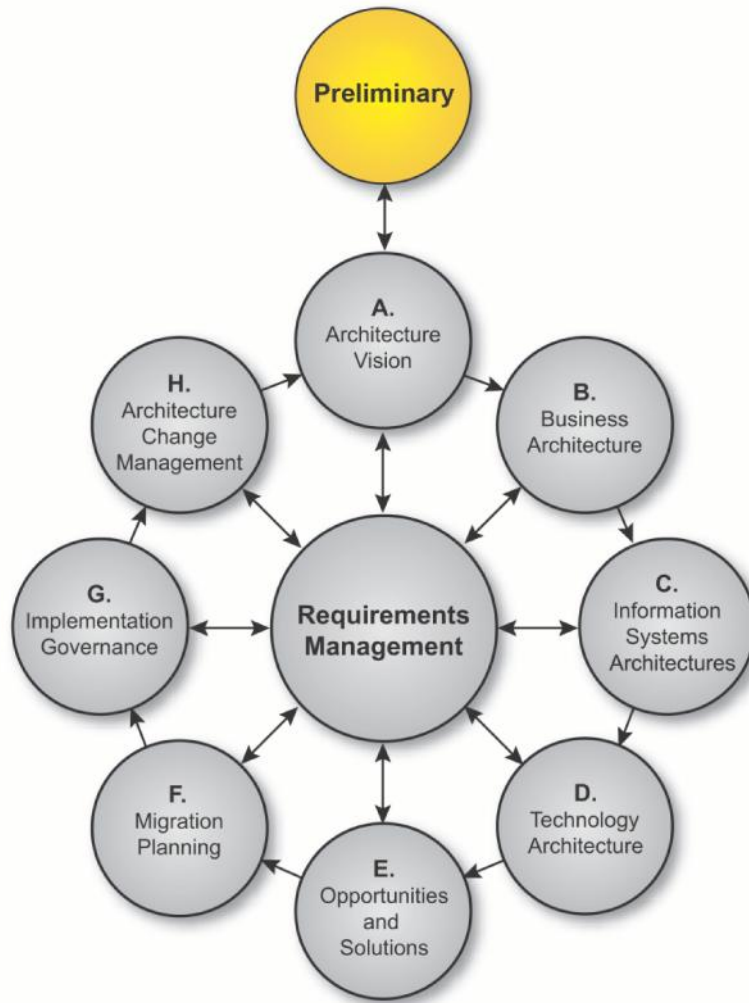


Approach

- Define the Enterprise
- Identify key drivers and elements in the organizational context
- Define the requirements for architecture work
- Define the architecture principles that will inform any architecture work
- Define the framework to be used
- Define the relationships between management frameworks
- Evaluate the enterprise architecture maturity



Preliminary Phase: Main inputs

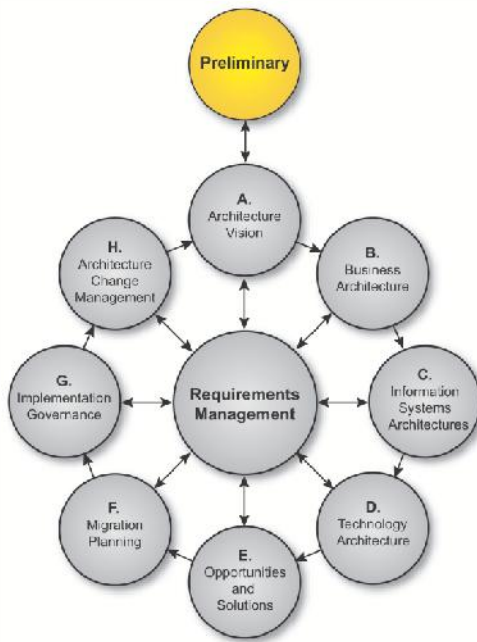


- TOGAF
- Other architecture frameworks
- Business strategies and board business plans, IT strategy
- Business principles, business goals, and business drivers
- Governance and legal frameworks

Any existing:

- organizational model
- architecture framework
- architecture principles
- architecture repository

Steps



6. Implement Architecture Tools

5. Tailor TOGAF, and other Architecture Frameworks, if any

4. Identify Architecture Principles

3. Define & Establish the Enterprise Architecture Team

2. Confirm Governance and Support Frameworks

1. Scope the Enterprise Organizations Impacted

1. Scope the enterprise organizations impacted

- Identify core enterprise
- Identify soft enterprise
- Identify extended enterprise
- Identify communities
- Identify governance involved



2. Confirm governance and support frameworks

- The major output of this phase is a framework for architecture governance.
- The existing governance and support models of an organization will probably need to change
- The current governance and support models need to be assessed to understand their content.
- Sponsors and stakeholders will need to be consulted concerning the potential impact

As a result of Step 2 the architecture touch-points and likely impacts should be understood and agreed by relevant stakeholders.



3. Define the team and organization

- Determine existing enterprise and business capability
- Conduct an architecture/business change maturity assessment
- Identify gaps in existing work areas
- Allocate key roles and responsibilities for enterprise architecture capability management and governance
- Write requests for change for existing projects
- Scope new enterprise architecture work
- Determine constraints on enterprise architecture work
- Review and agree with sponsors and board
- Assess budget requirements



4. Identify and establish architecture principles

- Principles are rules and guidelines that say how an organization fulfils its mission.
- Enterprise principles enable decision-making
- Architecture principles relate to architecture work, and include:
 - Architecture process principles
 - Architecture implementation principles



Defining Architecture Principles

- Why
 - Architecture principles provide a framework for decision making
- Who
 - Developed by the Enterprise Architects
 - In conjunction with key stakeholders
 - The Enterprise CIO
 - Architecture Board
 - Other key business stakeholders



TOGAF Template for Principles

Name

- Should represent the essence of the rule, and be memorable
- Should not mention specific technology platforms
- Should avoid ambiguous words

Statement

- Should succinctly and unambiguously communicate the fundamental rule



Continued...

TOGAF Template for Principles

Rationale

- Should highlight the business benefits of adhering to the principle, using business terminology
- Should describe the relationship to other principles

Implications

- Should highlight the requirements for the business and for IT for carrying out the principle.
- Should state the business impact and consequences of adopting the principle



An Example Statement of Principles

The following set of principles have been approved by the Internal Architecture Board.

Business Principles:

1. Primacy of Principles
2. Maximize Benefit to the Enterprise
3. Compliance with the Law
4. Availability at Anytime from Anywhere
5. Business Continuity
6. Citizenship

Continued...

An Example Statement of Principles

7. Custodianship
8. De-Customization
9. Painless User Experience
10. Self-Serve
11. Sharing of Information

Architecture Principles:

1. De-Skill
2. One Source
3. Content Management

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Making standards work®

The Open Group Architecture Principles

A Case Study prepared by:

Darren Hawley
on behalf of:
The Open Group Internal Architecture Board

October 2008

**Open Group
Case Study:
Y082**

Example: Primacy of Principles

Statement	Principles apply throughout the enterprise and override all other considerations when decisions are made
Rationale	The only way we can provide a recognized, consistent and measurable level of operations is if all parts of the enterprise abide by the principles when making decisions
Implications	<p>Without this principle, short-term consideration, supposedly convenient exceptions, and inconsistencies would rapidly undermine the management of information. Information management initiatives will not be permitted to begin until they are examined for compliance with the principles.</p> <p>A conflict with a principle will be resolved by changing the conflicting initiative, which could delay or prevent the initiative.</p>



Example: Self-Serve

Statement	Customers should be able to serve themselves
Rationale	Applying this principle will improve customer satisfaction, reduce administrative overhead, and potentially improve revenue.
Implications	There is an implication to improve ease-of-use and minimize training needs; for example, members should be able to update their contact details, etc. and be able to buy additional membership products online.



Five Qualities of Principles

1. **Understandable:** they can be quickly grasped. Intent is clear and unambiguous.
2. **Robust:** they enable good decisions about architectures and plans, and enable enforceable policies and standards to be created. A principle must be precise to support consistent decision making in complex situations.
3. **Complete:** every potentially important principle governing the management of IT is defined. Principles cover every situation perceived.



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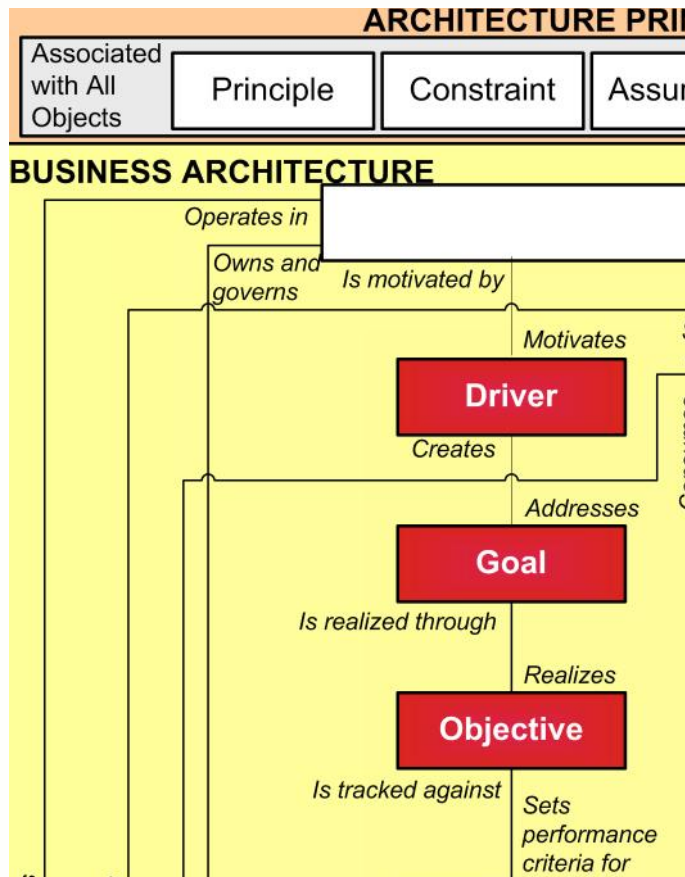
Five Qualities of Principles

- 4. **Consistent:** strict adherence to one principle may require loose interpretation of another. Principles must be expressed in a way that allows a balance of interpretations and should not be contradictory.
- 5. **Stable:** Principles must be enduring, yet able to accommodate change.

An amendment process should be established for adding, removing, or altering principles after they are ratified.



Principles and the Metamodel



- Information related to Principles can be modeled, if the right information is captured
- The metamodel relates Principles back to specific drivers, goals and objectives

5. Tailor TOGAF and, if any, other Selected Architecture Frameworks

- **Terminology Tailoring:** it is best to use terminology that is understood across the enterprise.
- **Process Tailoring:** the ADM is a generic process. Process tailoring allows us to remove tasks that are done elsewhere, add organization-specific tasks and align the ADM processes with external process frameworks.
- **Content Tailoring:** using the TOGAF Architecture Content Framework, this allows adoption of third-party content frameworks and customization of the framework to support organization-specific requirements



Terminology Tailoring

- Lack of agreement on the precise meanings of terms can cause problems of communication during the Architecture Engagement.
- Define and agree standard terminology
- Provide a Glossary, if appropriate

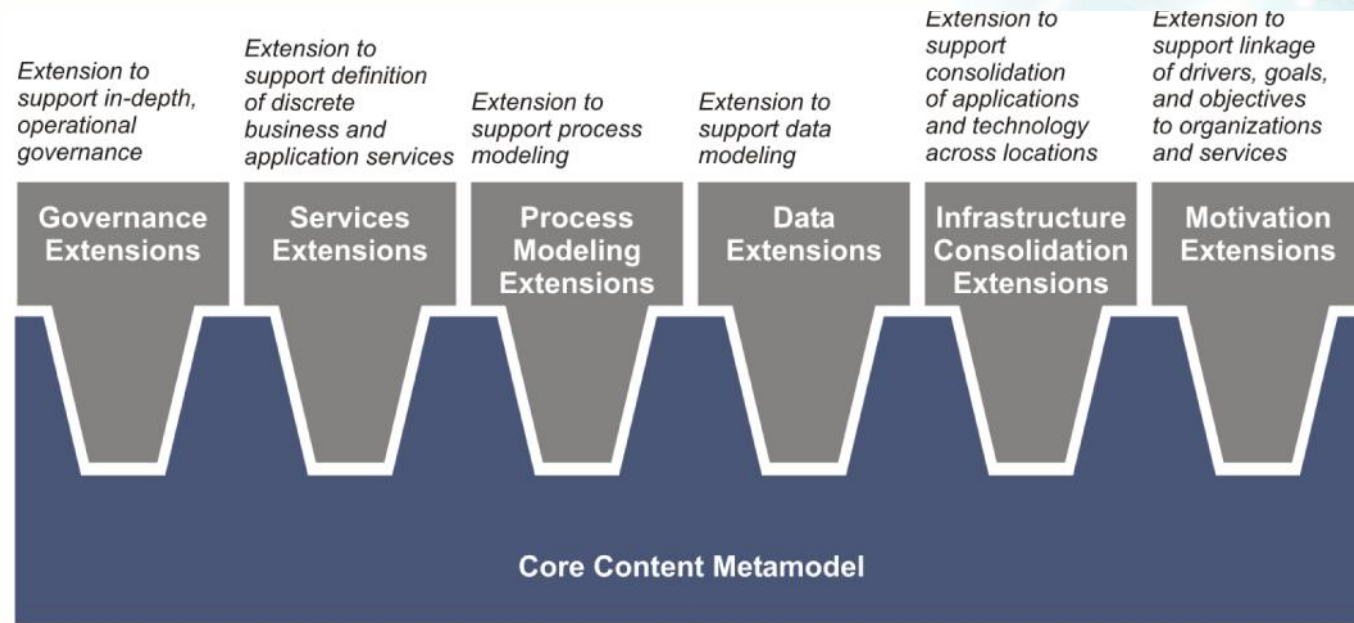


Process Tailoring

- Re-order the phases of the ADM
- Only use a subset of the phases
- Complete the Information Systems or Technology Architecture first

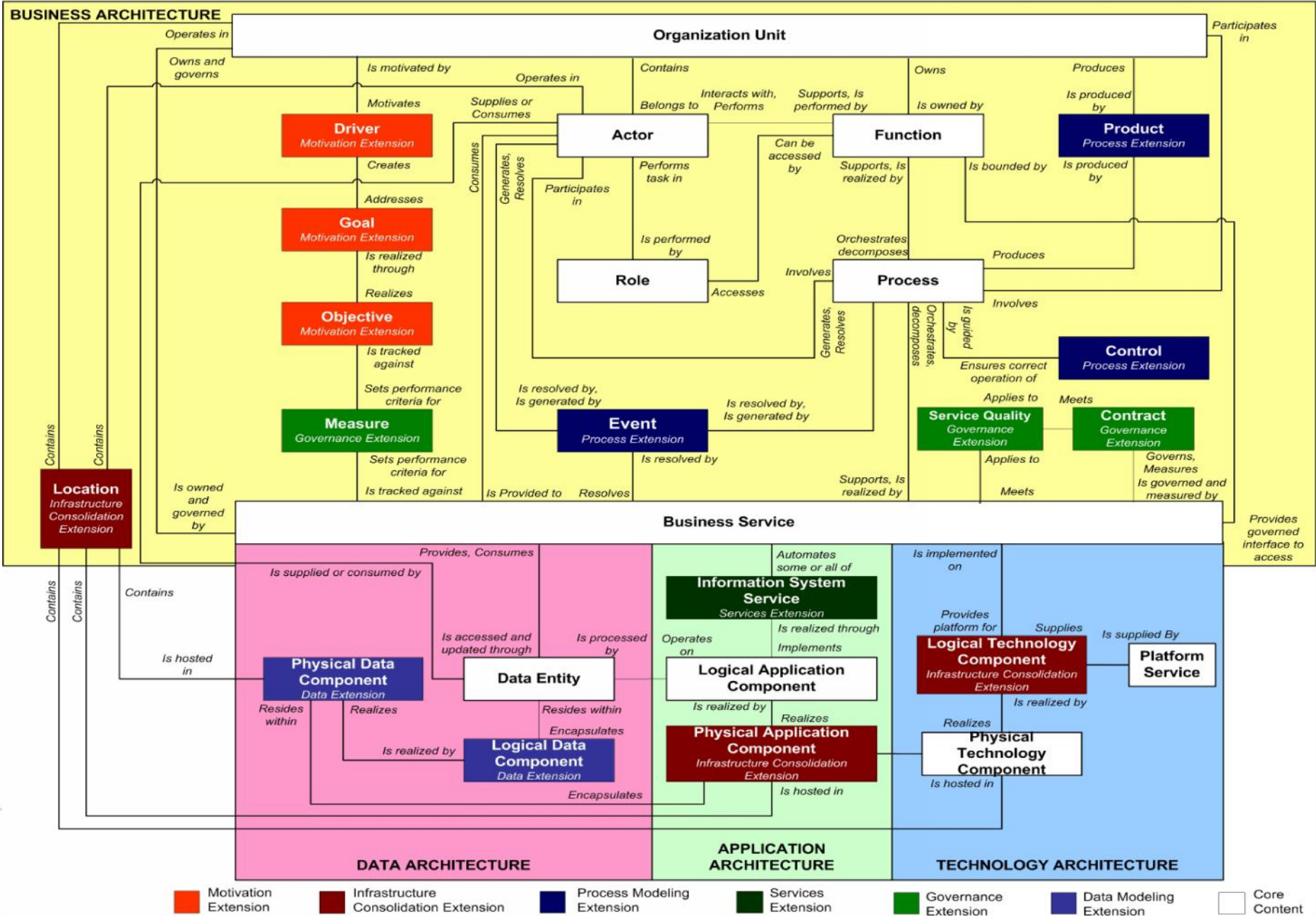
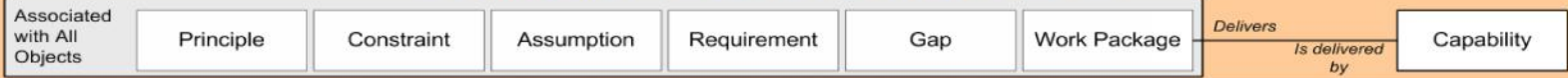


Content Tailoring



ARCHITECTURE PRINCIPLES, REQUIREMENTS, AND ROADMAP

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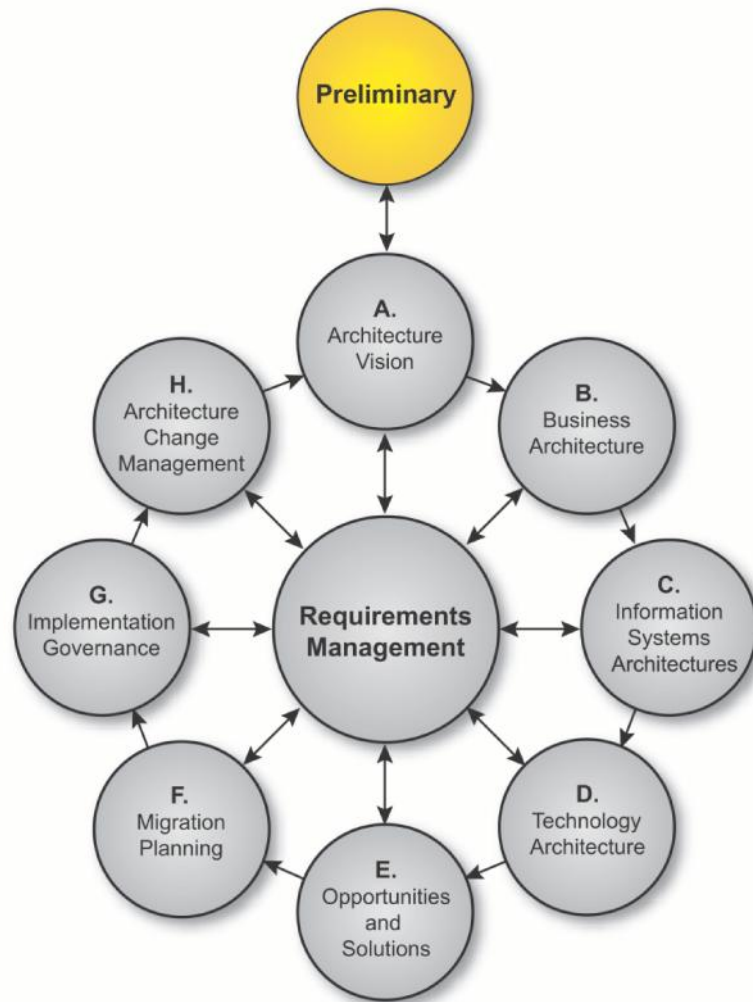


6. Implement architecture tools

In this step we must select appropriate architecture tools.

- The implementation of the tools may range from a trivial task to a more involved system implementation activity utilizing the TOGAF Content Metamodel

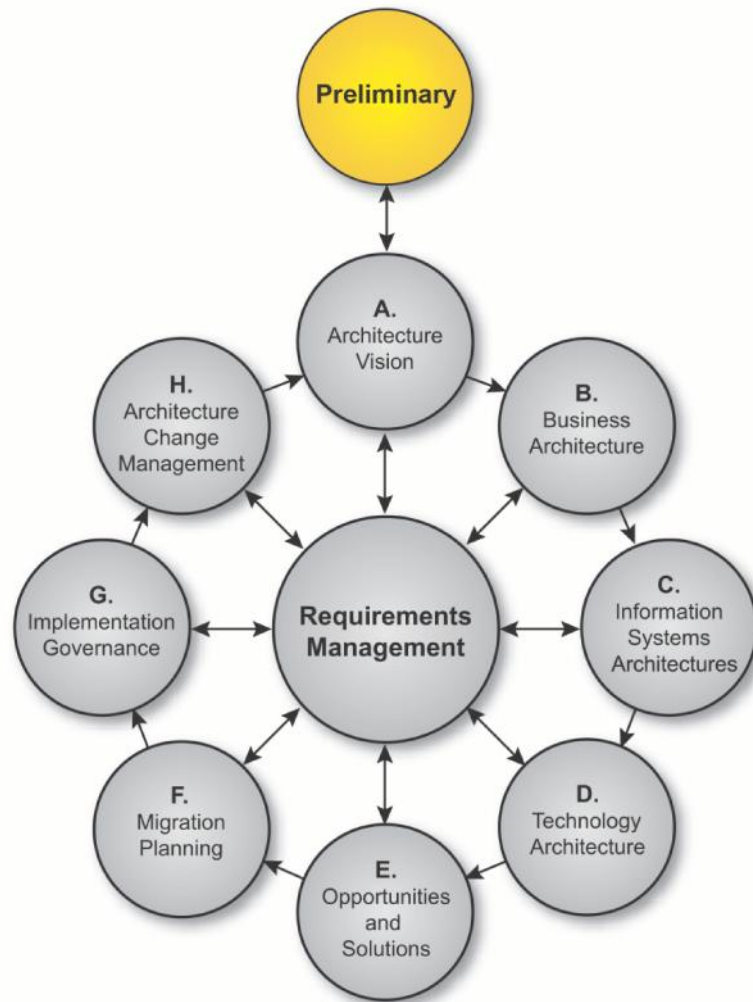
Preliminary Phase: Outputs



- Organizational model for enterprise architecture
- Tailored Architecture Framework, including architecture principles
- Initial Architecture Repository
- Restatement of business principles, goals and drivers
- Request for Architecture Work
- Architecture Governance Framework



Summary



- The main objective of the preliminary phase is to prepare an organization for a successful Enterprise Architecture project by defining “how we do architecture”

Continued...



Summary

Preliminary Phase			
Objectives	Steps	Inputs	Outputs
<p>Determine the Architecture Capability desired by the organization:</p> <ul style="list-style-type: none"> Review the organizational context for conducting enterprise architecture Identify and scope the elements of the enterprise organizations affected by the Architecture Capability Identify the established frameworks, methods, and processes that intersect with the Architecture Capability Establish Capability Maturity target <p>Establish the Architecture Capability:</p> <ul style="list-style-type: none"> Define and establish the Organizational Model for Enterprise Architecture Define and establish the detailed process and resources for architecture governance Select and implement tools that support the architecture activity Define the Architecture Principles 	<p>Scope the enterprise organizations impacted</p> <p>Confirm governance and support frameworks</p> <p>Define and establish enterprise architecture team and organization</p> <p>Identify and establish architecture principles</p> <p>Tailor TOGAF and, if any, other selected Architecture Frameworks</p> <p>Implement architecture tools</p>	<p>TOGAF</p> <p>Other architecture framework(s)</p> <p>Board strategies, business plans, business strategy, IT Strategy, business principles, business goals, and business drivers</p> <p>Governance and legal frameworks</p> <p>Architecture capability</p> <p>Partnership and contract agreements</p> <p>Existing organizational model for enterprise architecture</p> <p>Existing architecture framework, if any, including:</p> <ul style="list-style-type: none"> Architecture method Architecture content Configured and deployed tools Architecture Principles Architecture Repository 	<p>Organizational Model for Enterprise Architecture</p> <p>Tailored Architecture Framework, including architecture principles</p> <p>Initial Architecture Repository</p> <p>Restatement of, or reference to, business principles, business goals, and business drivers</p> <p>Request for Architecture Work</p> <p>Architecture Governance Framework</p>

Preliminary Phase <ul style="list-style-type: none"> Principles catalog 	Phase A, Architecture Vision <ul style="list-style-type: none"> Stakeholder Map Matrix Solution Concept diagram Value Chain diagram 		
Requirements Management <ul style="list-style-type: none"> Requirements catalog 			
Phase B, Business Architecture <ul style="list-style-type: none"> Organization/Actor catalog Driver/Goal/Objective catalog Role catalog Business Service/Function catalog Location catalog Process/Event/Control/Product catalog Contract/Measure catalog Business Interaction matrix Actor/Role matrix Business Footprint diagram Business Service/Information diagram Functional Decomposition diagram Product Lifecycle diagram Goal/Objective/Service diagram Business Use-Case diagram Organization Decomposition diagram Process Flow diagram Event diagram 	Phase C, Data Architecture <ul style="list-style-type: none"> Data Entity/Data Component catalog Data Entity/Business Function matrix Application/Data matrix Logical Data diagram Data Dissemination diagram Data Security diagram Class Hierarchy diagram Data Migration diagram Data Lifecycle diagram 	Phase C, Application Architecture <ul style="list-style-type: none"> Application Portfolio catalog Interface catalog Application/Organization matrix Role/Application matrix Application/Function matrix Application Interaction matrix Application Communication diagram Application and User Location diagram Application Use-Case diagram Enterprise Manageability diagram Process/Application Realization diagram Software Engineering diagram Application Migration diagram Software Distribution diagram 	Phase D, Technology Architecture <ul style="list-style-type: none"> Technology Standards catalog Technology Portfolio catalog System/Technology matrix Environments and Locations diagram Platform Decomposition diagram Processing diagram Networked Computing/Hardware diagram Communications Engineering diagram
Phase E. Opportunities & Solutions <ul style="list-style-type: none"> Project Context diagram Benefits diagram 	TOGAF 9 Artifacts		



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Catalogs

Catalog	Purpose
Principles Catalog	<p>The Principles catalog captures principles of the business and architecture principles that describe what a "good" solution or architecture should look like. Principles are used to evaluate and agree an outcome for architecture decision points. Principles are also used as a tool to assist in architectural governance of change initiatives.</p> <p>The Principles catalog contains the following metamodel entities:</p> <ul style="list-style-type: none">* Principle

Exercises

- Select 7 principles at random from the *Example Set of Architecture Principles* in TOGAF Chapter 23
- For each selected principle state whether it applies to your organization or not, and give your reasons.

Test Yourself Question

Q. Which one of the following is completed during the Preliminary Phase of the TOGAF ADM?

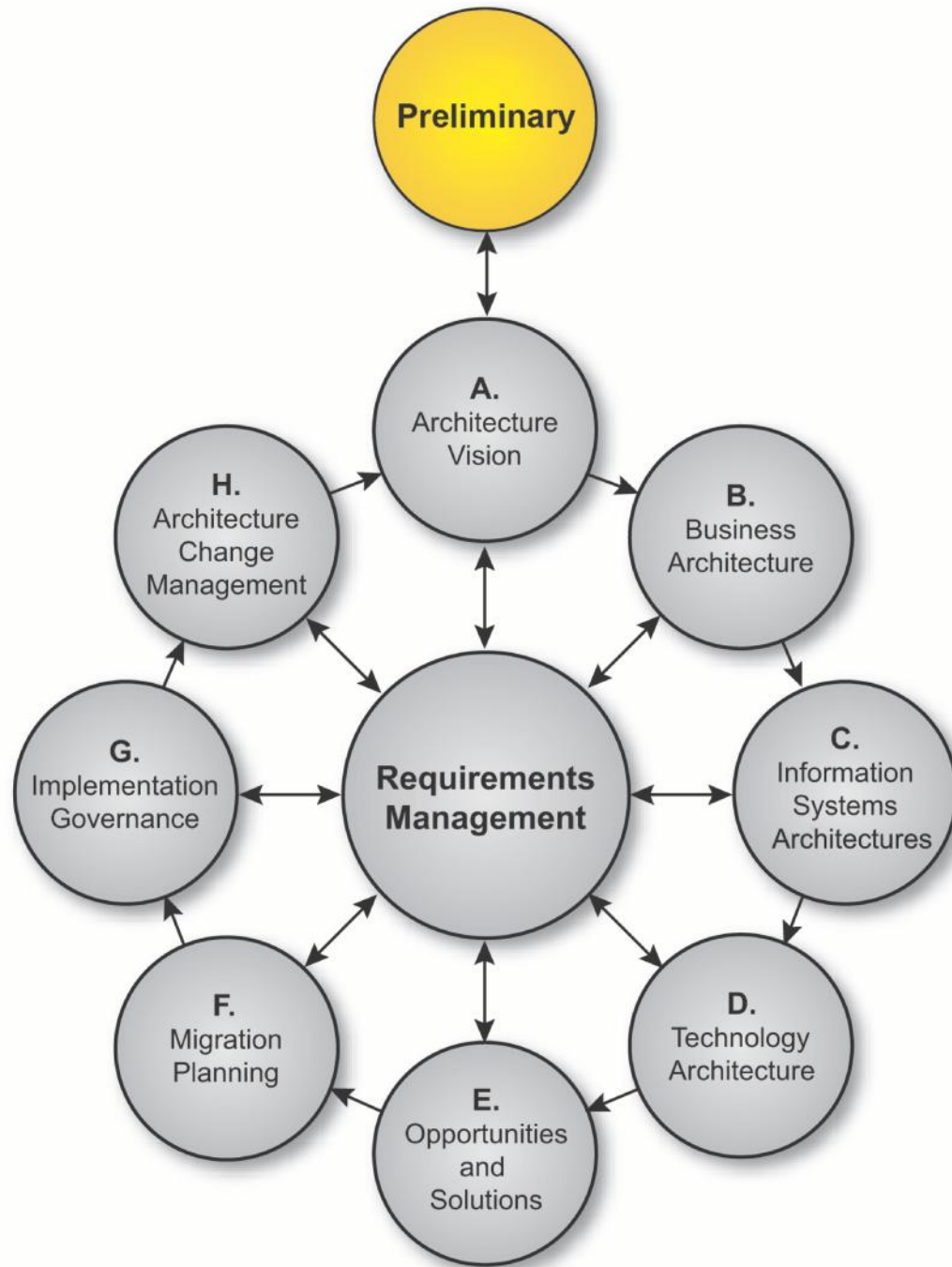
- A. Architecture Principles
- B. Gap Analysis
- C. Impact Analysis
- D. Statement of Architecture Work
- E. Requirements Gathering

TOGAF Set of Principles

- **Primacy of Principles**
- **Maximize Benefit to the Enterprise**
- **Information Management is Everybody's Business**
- **Business Continuity**
- **Common Use Applications**
- **Service Orientation**
- **Compliance with Law**
- **IT Responsibility**
- **Protection of Intellectual Property**
- **Data is an Asset**
- **Data is Shared**
- **Data is Accessible**
- **Data Trustee**
- **Common Vocabulary and Data Definitions**
- **Data Security**
- **Technology Independence**
- **Ease-of-Use**
- **Requirements-Based Change**
- **Responsive Change Management**
- **Control Technical Diversity**
- **Interoperability**

Test Yourself Question

- Q. Which one of the following is a reason to adapt the ADM?
- A. The use of TOGAF is being integrated with another framework.
 - B. The ADM is being used for a purpose other than enterprise architecture.
 - C. The enterprise is a large federated organization.
 - D. The IT Governance model needs to be tailored.
 - E. All of the answers above.



Preliminary Phase

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