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TOGAF Standard Courseware V9 Edition

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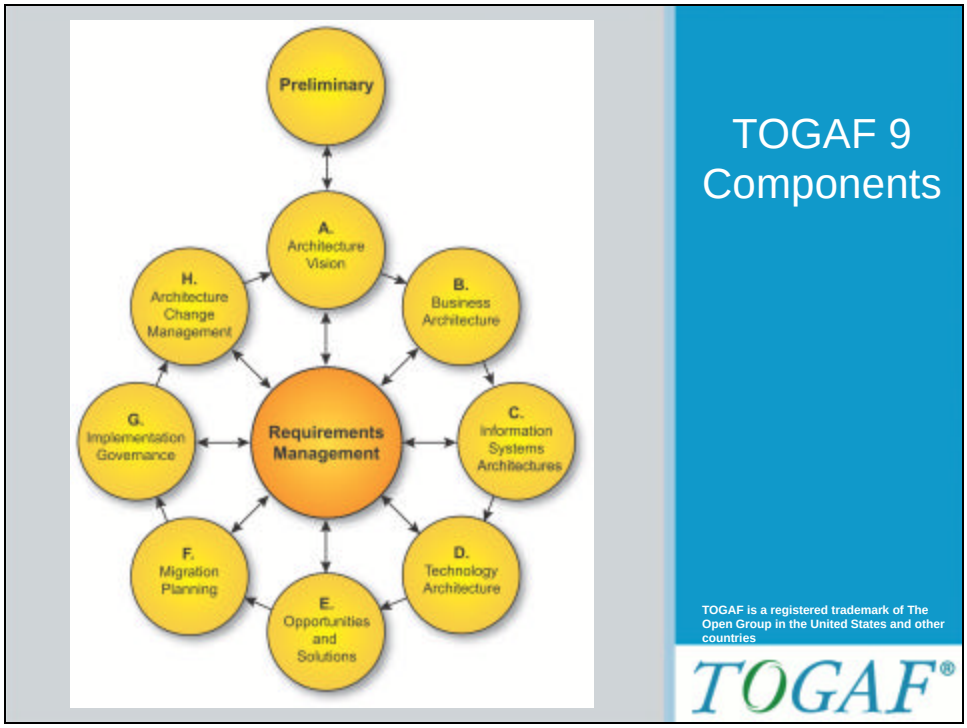

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Module Objectives

- To highlight and introduce the main components and key concepts of TOGAF 9
  - **The Architecture Development Method (ADM)**
  - **ADM Guidelines and Techniques**
  - **Architecture Content Framework**
    - Deliverables, artifacts, building blocks
  - **The Enterprise Continuum**
    - The Architecture Repository
  - **TOGAF Reference Models**
  - **The Architecture Capability Framework**
    - **Establishing an EA Capability**
  - To understand the TOGAF Document Categorization model

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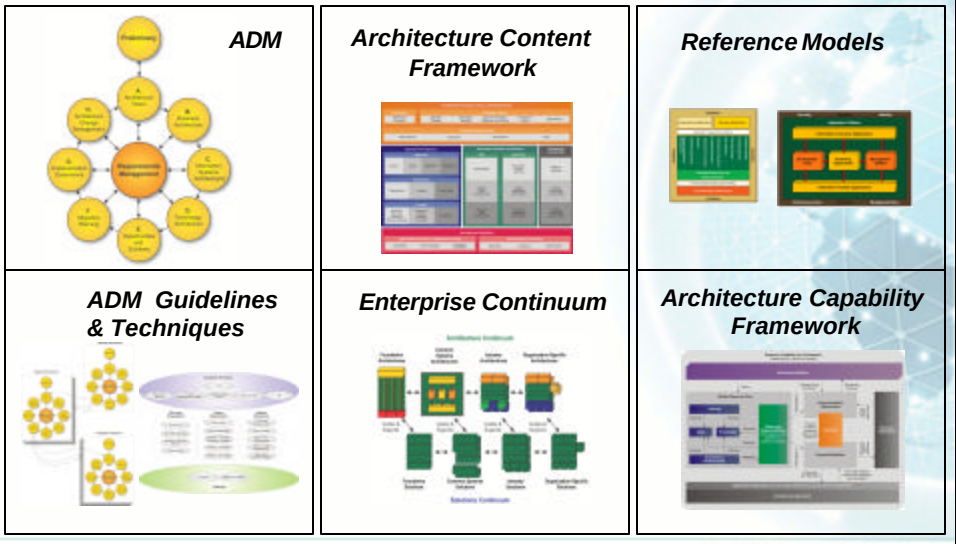
TOGAF 9 Components



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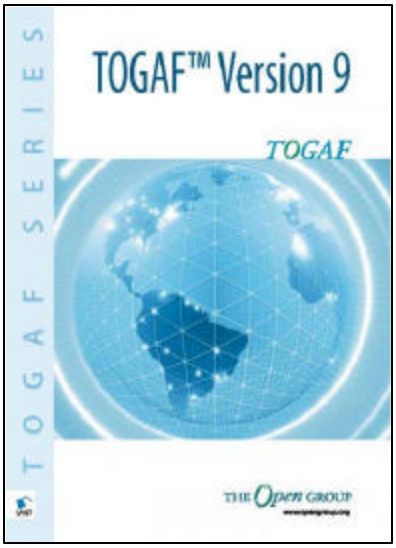

Part I - Introduction
Preface, Executive Overview, Core Concepts, Definitions and Release Notes
Part II – Architecture Development Method
Introduction to ADM
ADM Phase Narratives
Part III – ADM Guidelines and Techniques
Guidelines for Adapting the ADM Process
Techniques for Architecture Development
Part IV – Architecture Content Framework
Content Metamodel
Architectural Artifacts
Architecture Deliverables
Building Blocks
Part V – Enterprise Continuum and Tools
Enterprise Continuum
Architecture Partitioning
Architecture Repository
Tools for Architecture Development
Part VI – TOGAF Reference Models
Foundation Architecture: Technical Reference Model
Integrated Information Infrastructure Reference Model
Part VII – Architecture Capability Framework
Architecture Board
Architecture Compliance
Architecture Contracts
Architecture Governance
Architecture Maturity Models
Architecture Skills Framework

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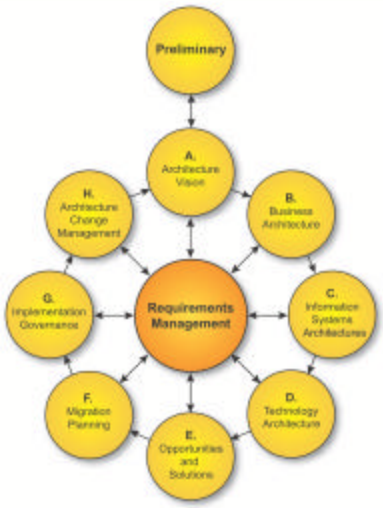
The Architecture Development Method



- The core of TOGAF
- A proven way of developing an architecture
- Specifically designed to address business requirements
- An iterative method
- A set of architecture views to ensure that a complex set of requirements are adequately addressed

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ADM Guidelines and Techniques

- A set of guidelines and techniques to support the application of the ADM
- The guidelines help to adapt the ADM to deal with different scenarios, including different process styles (e.g. the use of iteration) and also specific requirements (e.g. security).
- The techniques support specific tasks within the ADM (e.g. defining principles, business scenarios, gap analysis, migration planning, risk management, etc).

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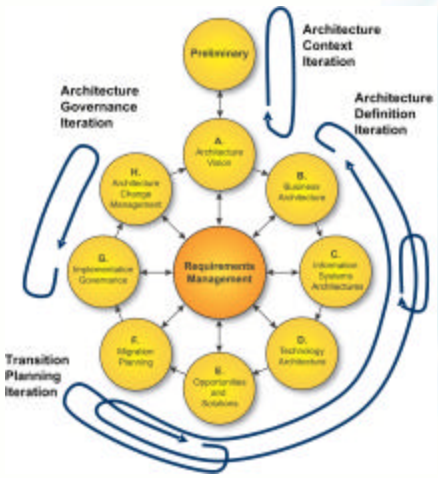
Applying Iteration to the ADM



Example Guideline

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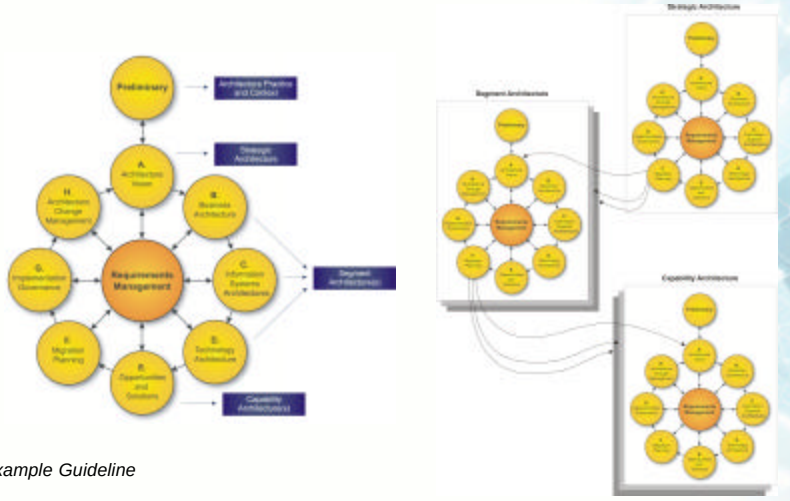
Applying the ADM at Different Levels



Example Guideline

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Categories of Stakeholder

Example Technique

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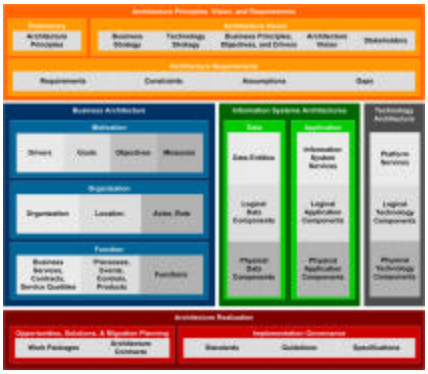
Architecture Content Framework



Provides a detailed model of architectural work products, including **Deliverables**, **Artifacts** within deliverables, and the **Architecture Building Blocks** (ABBs) that deliverables represent.

- It drives for greater consistency in the outputs of TOGAF
- It provides a comprehensive checklist of architecture outputs
- It promotes better integration of work products
- It provides a detailed open standard for how architectures should be described
- It includes a detailed metamodel

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Deliverables, Artifacts and Building Blocks

- **Deliverables**
  - Formal products
  - Contractually specified
  - Outputs from a project
  - A deliverable can contain many artifacts
- **Building blocks**
  - components that can be combined with other building blocks to deliver architectures and solutions
- **Artifacts**
  - fine grained products that describe an architecture from a specific viewpoint
  - For example: use-case specifications, architectural requirements, network diagrams, etc.
  - Classified as:
    - Catalogs (lists of things),
    - matrices (showing relationships between things) or
    - diagrams (pictures of things).
  - Artifacts make up the content of the Architecture Repository

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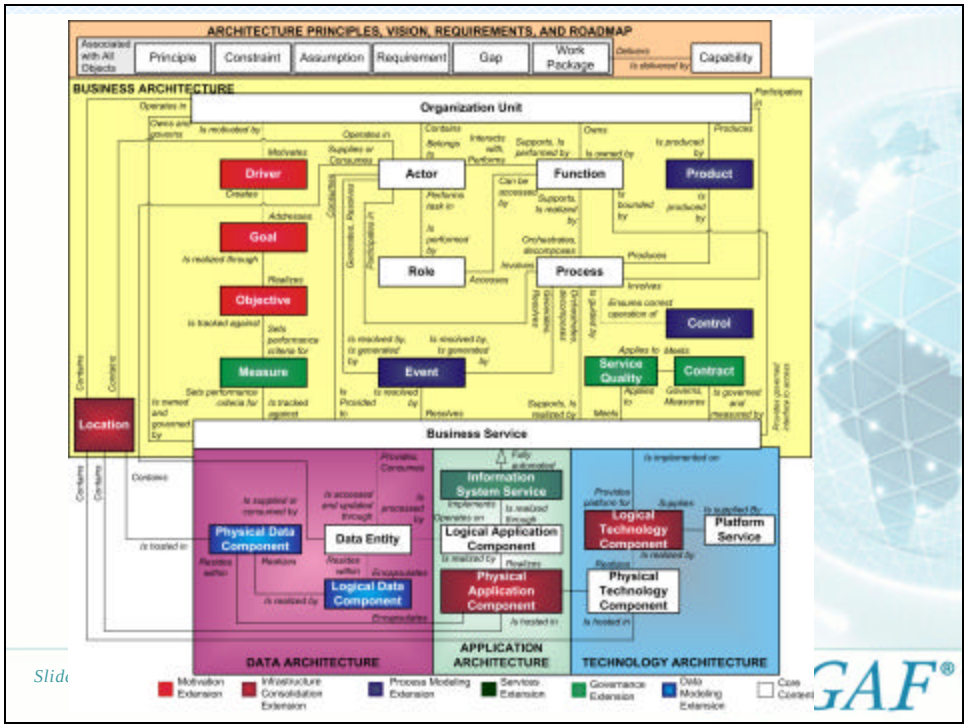

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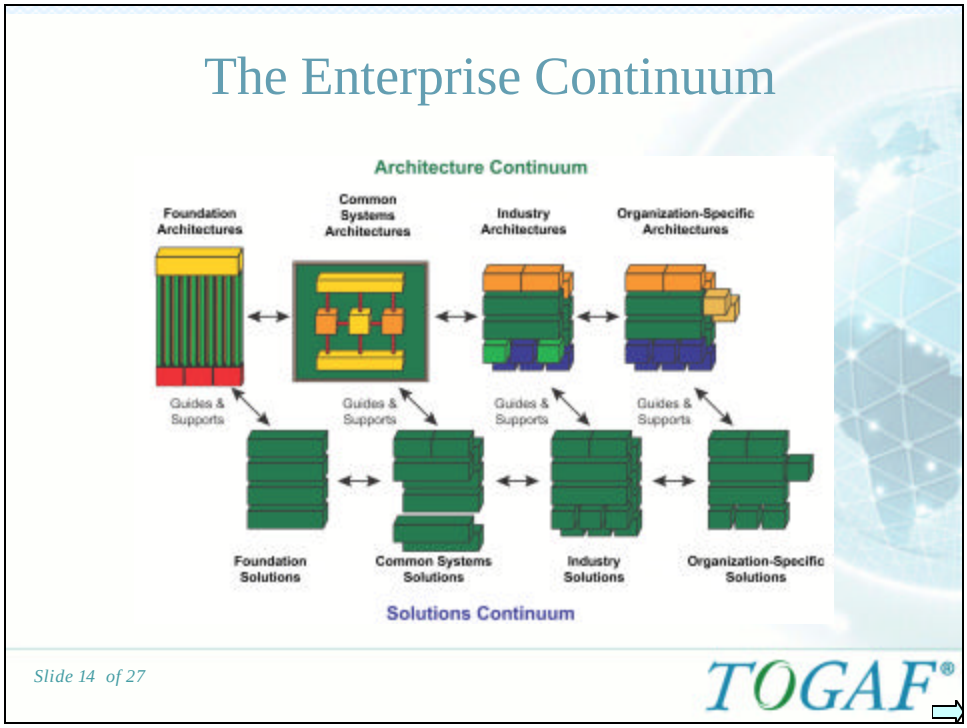

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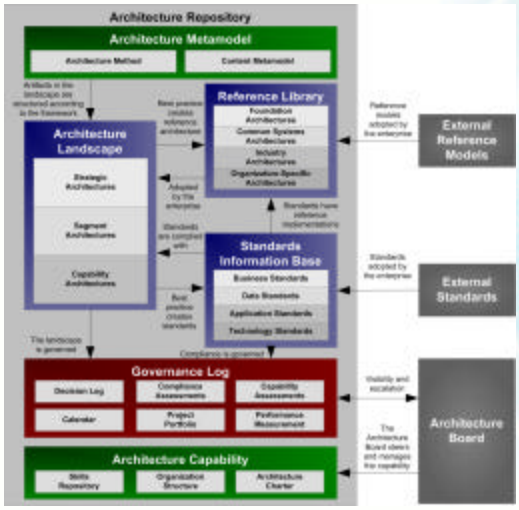
Architecture Repository



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TOGAF Reference Models

- Two Reference Models are provided
  - **The TOGAF Technical Reference Model (TRM)**
    - A Foundation Architecture
    - A model and a taxonomy of generic platform services
  - **The Integrated Information Infrastructure Model** (III-RM).
    - A model for business applications and infrastructure applications
    - Specifically aimed to support the vision of *Boundaryless Information Flow™*

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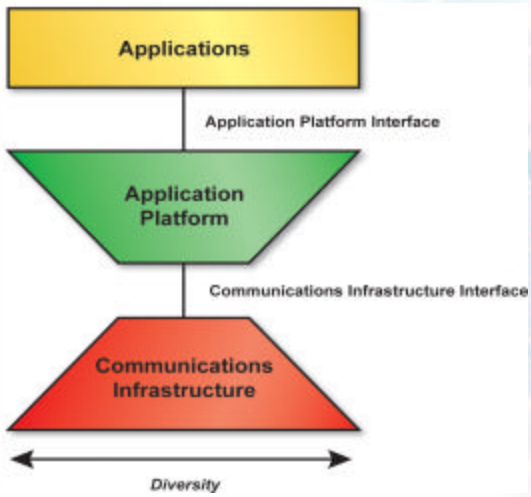
High-Level TRM



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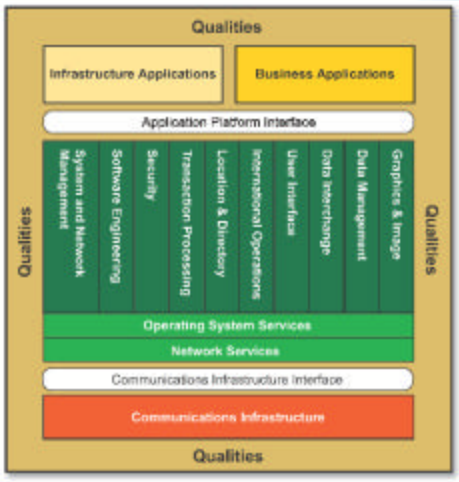
Detailed TRM



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Boundaryless Information Flow™

- A trademark of The Open Group
- Access to integrated information to support business process improvements
- An infrastructure that provides Boundaryless Information Flow has open standard components that provide services in a customer's extended enterprise that:
  - Combine multiple sources of information
  - Securely deliver the information whenever and wherever it is needed, in the right context for the people or systems using that information

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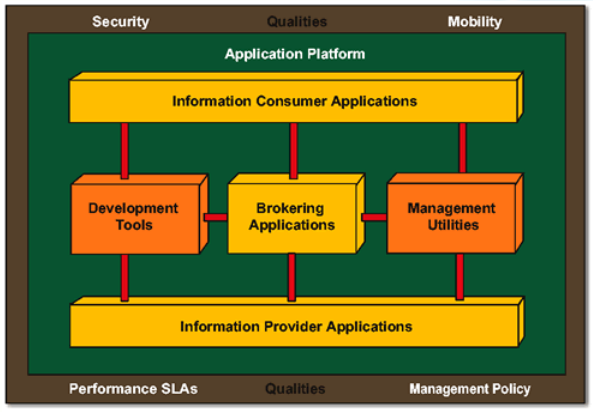
The Integrated Information Infrastructure Reference Model (III-RM)



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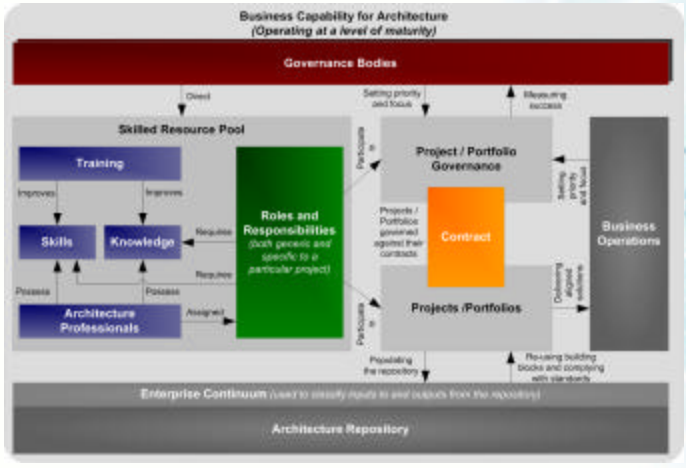
Capability Framework



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Establishing the Architecture Capability as an Operational Entity

- The Architecture Capability Framework provides guidance on establishing an operational enterprise architecture practice
- It recommend they include capabilities such as:
  - Financial Management
  - Performance Management
  - Service Management
  - Risk Management
  - Resource Management
  - Communications and Stakeholder Management
  - Quality Management
  - Supplier Management
  - Configuration Management
  - Environment Management

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TOGAF Document Categorization Model

- A model to structure release management of the TOGAF specification itself
- Content of the TOGAF specification is categorized
  - **TOGAF Core**: *fundamental concepts that form the essence of TOGAF*
  - **TOGAF Mandated**: *normative parts of TOGAF. Elements considered central to its usage, without which the framework would not be TOGAF*
  - **TOGAF Recommended**: *a pool of resources referenced in TOGAF as ways in which Core and Mandated processes can be accomplished*
  - **TOGAF Supporting**: *additional resources not referenced in the other three categories*

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Summary

- Architecture Development Method (ADM)
  - An iterative sequence of steps to develop an enterprise-wide architecture
- ADM Guidelines and Techniques
  - Guidelines and techniques to support the application of the ADM
- Architecture Content Framework
  - A detailed model of architectural work products, including deliverables, artifacts within deliverables, and the Architecture Building Blocks (ABBs) that deliverables represent.

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Summary

- The Enterprise Continuum
  - A model for structuring a virtual repository and methods for classifying architecture and solution artifacts.
  - Supported by the Architecture Repository, a model for a physical repository
- TOGAF Reference Models:
  - The TOGAF **Technical Reference Model** (TRM)
  - The **Integrated Information Infrastructure Model** (III-RM).
- The Architecture Capability Framework
  - A structured definition of the organizations, skills, roles and responsibilities to establish and operate an Enterprise Architecture.

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Test Yourself Question

Q: Which of the following is not considered one of the main parts of TOGAF?

A. Architecture Development Method

B. Enterprise Continuum

C. TOGAF Reference Models

D. TOGAF Resource Base

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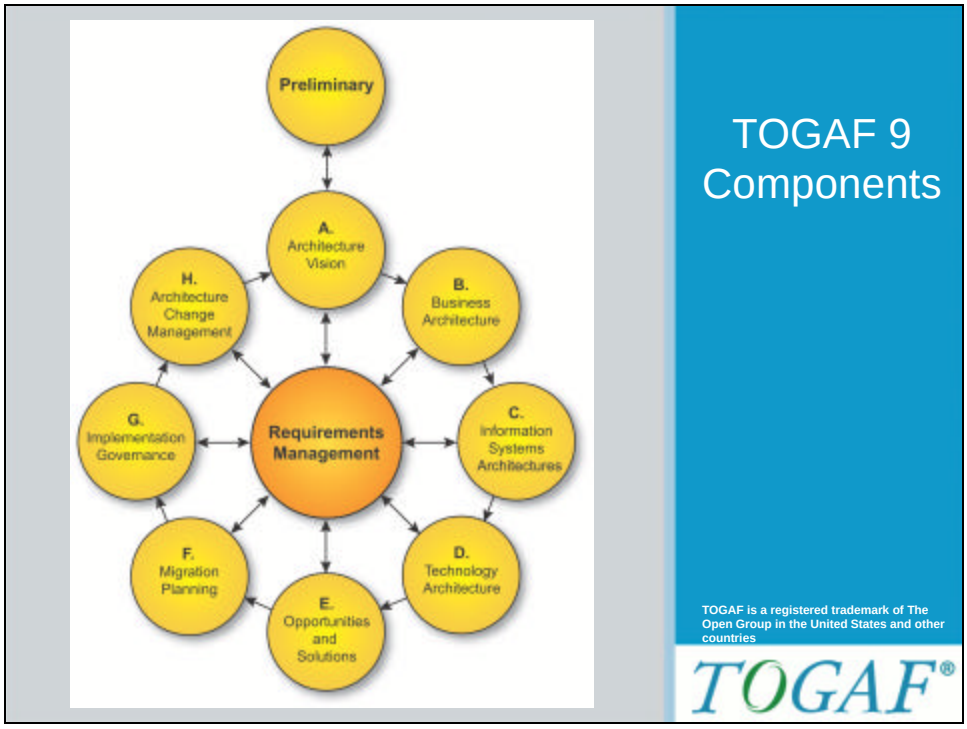

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