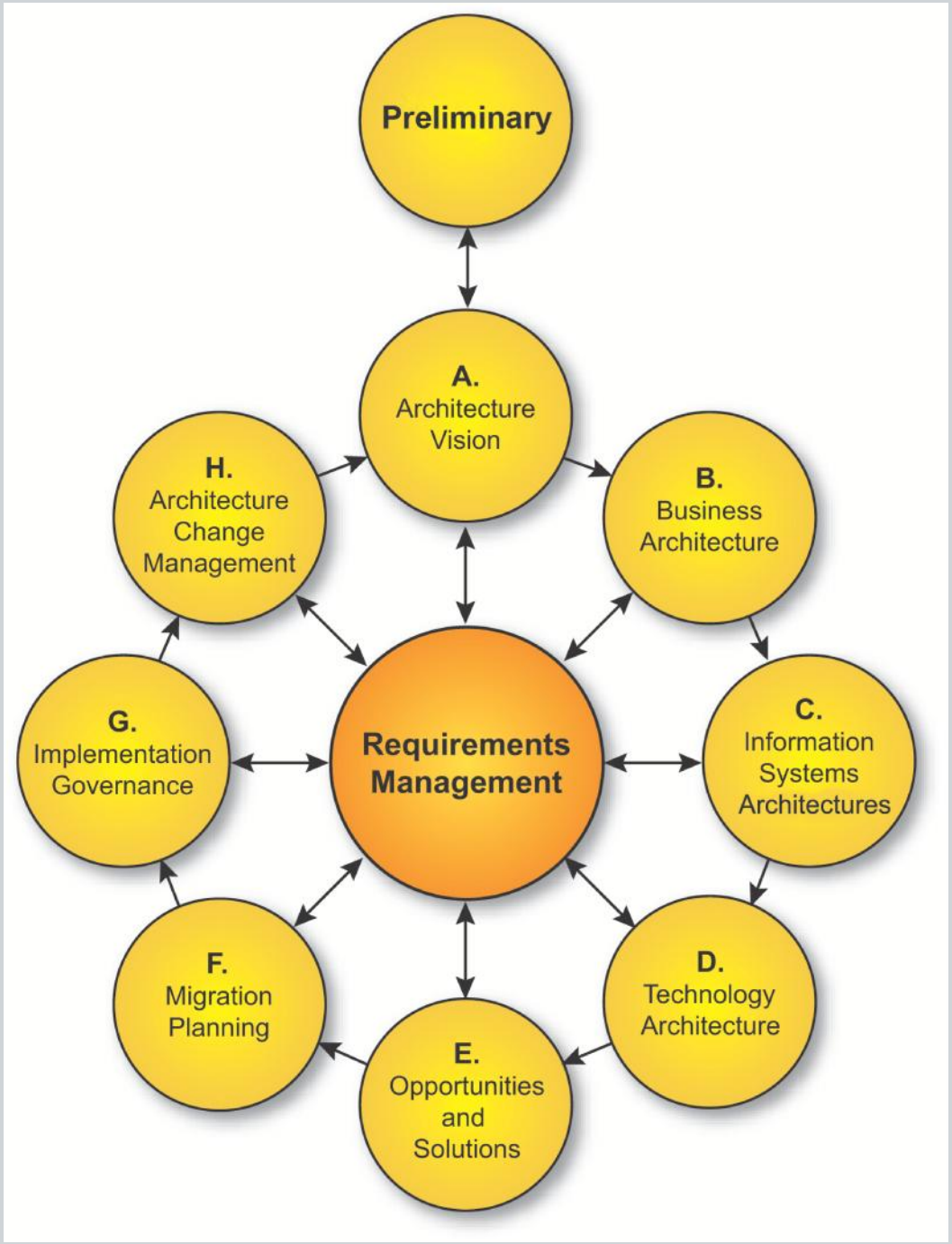
TOGAF®

Version 9.1 Enterprise Edition

Module 5
Architecture Repository

THE Open GROUP

Published by The Open Group, 2011



Architecture Repository

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Roadmap

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 – 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

- Part V, Enterprise Continuum and Tools, Chapter 41

Module Objectives

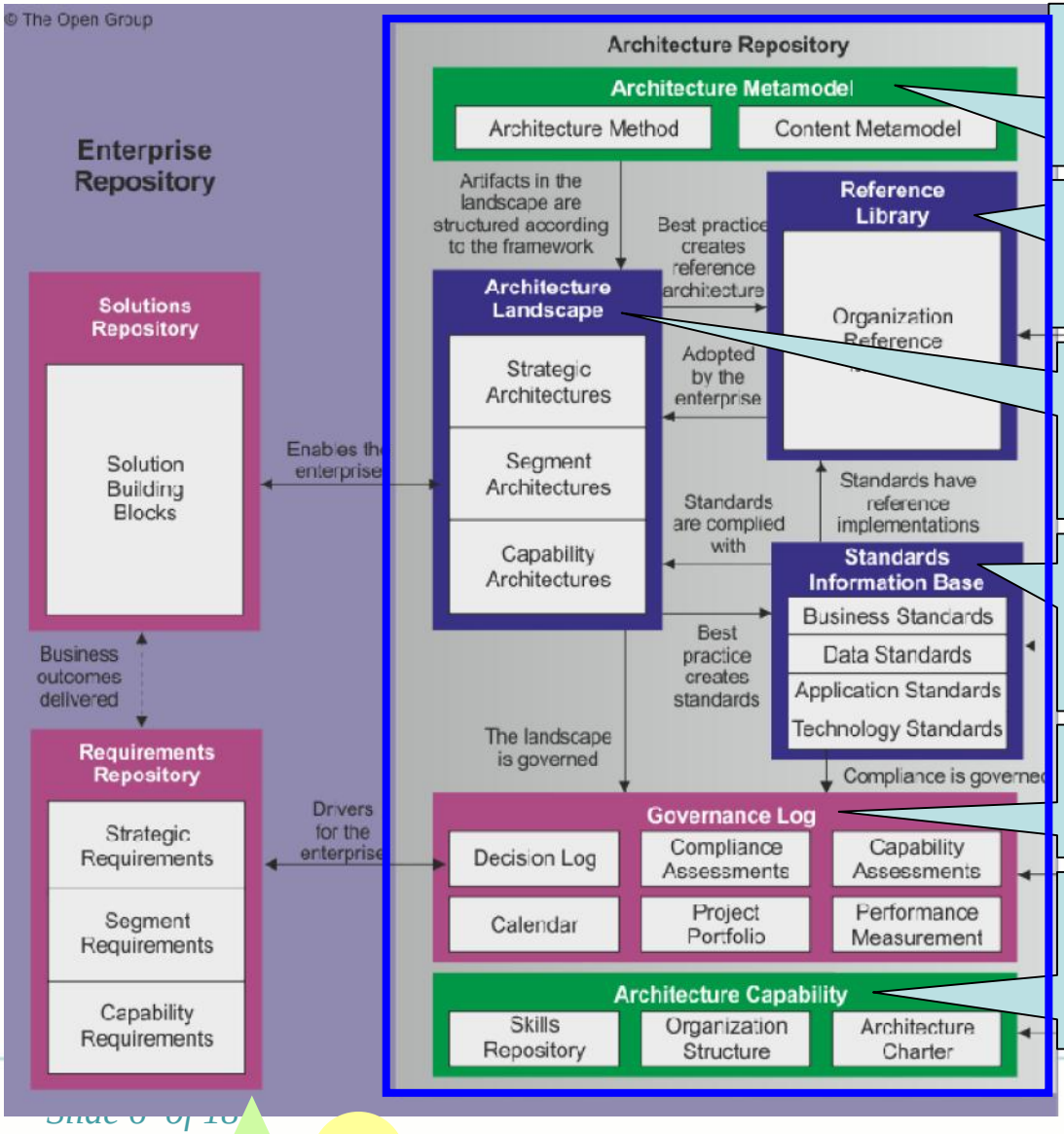
The objectives of this module are to describe:

- The purpose of the Architecture Repository
- Its constituent parts
- Its relationship to other parts of TOGAF

Purpose

- Effective management and leverage of architectural output requires a formal taxonomy for different types of architectural asset
- TOGAF provides a structural framework for an Architecture Repository
- This is one part of a wider Enterprise Repository

Architecture Repository



Describes the architecture framework in use within the Enterprise

Contains re-usable architecture work products

Shows the state of the operating enterprise at particular points in time

Defines the compliance criteria for work governed by architecture

Captures results of the governance activity

Describes the organisation, roles, skills and responsibilities of the EA practice

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Architecture Repository

- The Architecture Repository is a logical information store for outputs of executing the ADM:
  - The **Architecture Metamodel** describes the architecture framework in use within the Enterprise
  - The **Architecture Landscape** shows the state of the operating Enterprise at particular points in time
  - The **Reference Library** contains re-usable architecture work products
  - The **Standards Information Base** defines the compliance criteria for work governed by architecture
  - The **Governance Log** captures results of governance activity, such as compliance assessments
  - The **Architecture Capability** describes the organisation, roles, skills and responsibilities of the Enterprise Architecture practice

Architecture Landscape

1. **Strategic Architectures**:
   - show a long-term summary view of the entire enterprise.
   - provide an organizing framework for operational and change activity and allow for direction setting at an executive level.
2. **Segment Architectures**:
   - provide more detailed operating models for areas within an enterprise
   - can be used at the program or portfolio level to organize and operationally align more detailed change activity.
3. **Capability Architectures**:
   - show in a more detail how the enterprise can support a particular capability.
   - used to provide an overview of current capability, target capability, and capability increments and allow for individual work packages and projects to be grouped within managed portfolios and programs.

Reference Library

- A repository area to hold best practice or template materials that can be used to construct architectures within an enterprise.
- Reference materials held in the Reference Library are typically obtained from a variety of sources, including:
  - Standards bodies
  - Product and service vendors
  - Industry communities or forums
  - Corporately defined templates
  - Best practice resulting from project implementation

Standards Information Base

- A repository area to hold a set of specifications, to which architectures must conform.
- Establishment of a Standards Information Base provides an unambiguous basis for architectural governance since:
  - The standards are easily accessible to projects and therefore the obligations of the project can be understood and planned for
  - Standards are stated in a clear and unambiguous manner, so that compliance can be objectively assessed

Standards Information Base

- Types of Standard
  - Legal and Regulatory
  - Industry
  - Organizational
- Standards Lifecycle
  - Trial
  - Active
  - Deprecated
  - Obsolete

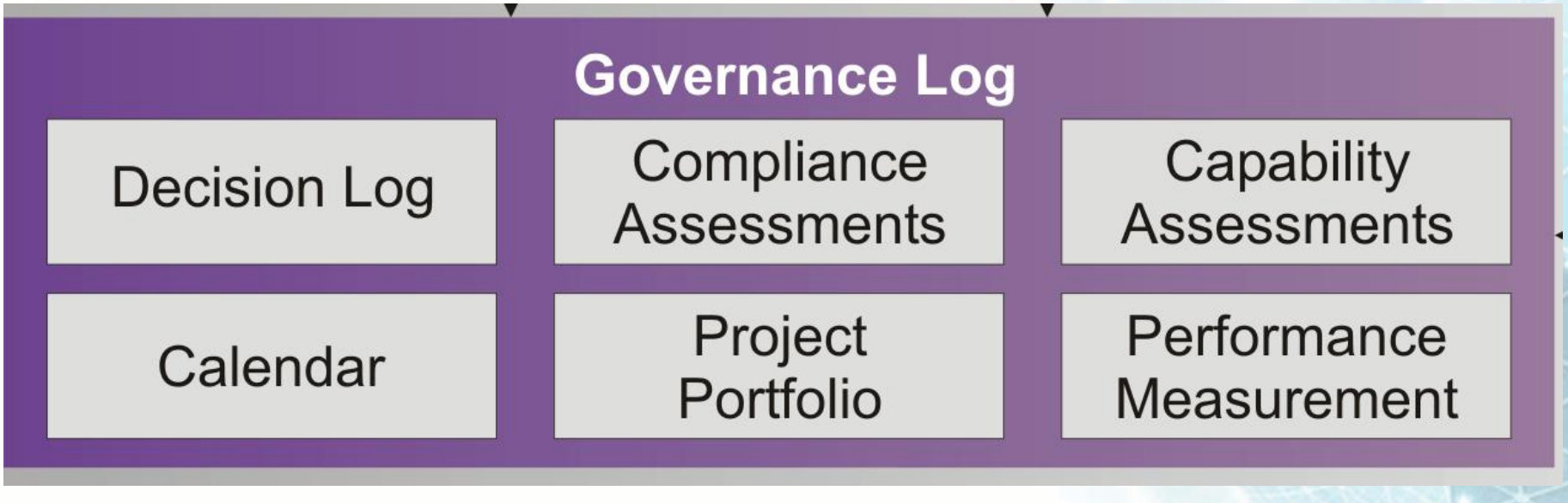
Standards Classification

- **Business Standards**:
  - Standard shared business functions
  - Standard role and actor definitions
  - Security and governance standards for business activity
- **Data Standards**:
  - Standard coding and values for data
  - Standard structures and formats for data
  - Standards for origin and ownership of data
  - Restrictions on replication and access
- **Applications Standards**:
  - Standard/shared applications supporting specific business functions
  - Standards for application communication and interoperation
  - Standards for access, presentation, and style
- **Technology Standards**;
  - Standard hardware products
  - Standard software products
  - Standards for software development

Governance Log

- A repository area to hold shared information relating to the ongoing governance of projects.
- Maintaining a shared repository of governance information is important, since:
  - Decisions made during projects (such as standards deviations or the rationale for a particular architectural approach) are important to retain and access on an ongoing basis.
  - Many stakeholders are interested in the outcome of project governance (e.g., other projects, customers of the project, the Architecture Board, etc.).

Governance Log Contents



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Relationship to other Parts of TOGAF

- The TOGAF ADM has reminders when to use assets from the Architecture Repository
- The Architecture Repository is a model for a physical instance of the Enterprise Continuum

Summary

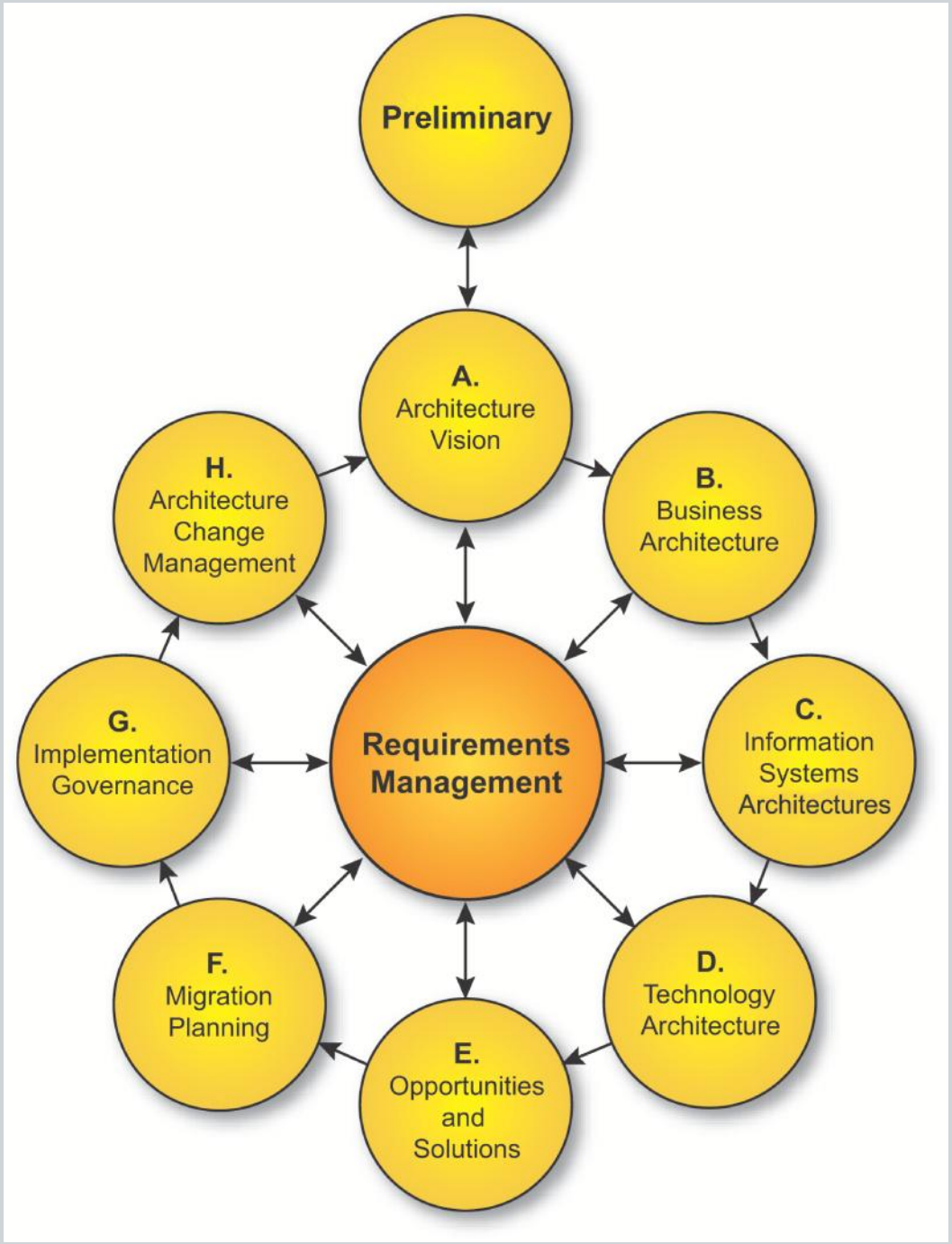
- TOGAF provides a structural framework for a repository that is one part of a wider Enterprise Repository
- The Architecture Repository is a logical information store for ADM outputs with six repository areas defined:
  - **Architecture Metamodel:** describes the architecture framework in use within the Enterprise
  - **Architecture Landscape:** shows the state of the operating Enterprise at particular points in time
  - **Reference Library:** contains re-usable architecture work products
  - **Standards Information Base:** defines the compliance criteria for work governed by architecture
  - **Governance Log:** captures results of governance activity
  - **Architecture Capability:** describes the organisation, roles, skills and responsibilities of the Enterprise Architecture practice

Exercise

1. What are the advantages and disadvantages of using Reference Models that are derived from:

a) within the enterprise

b) outside the enterprise?



Architecture Repository

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