

An Overview of TOGAF® Version 9.1



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Agenda

- Background on TOGAF®
- TOGAF® Version 9.1
- TOGAF® 9 Certification
- Q&A

What is TOGAF®?

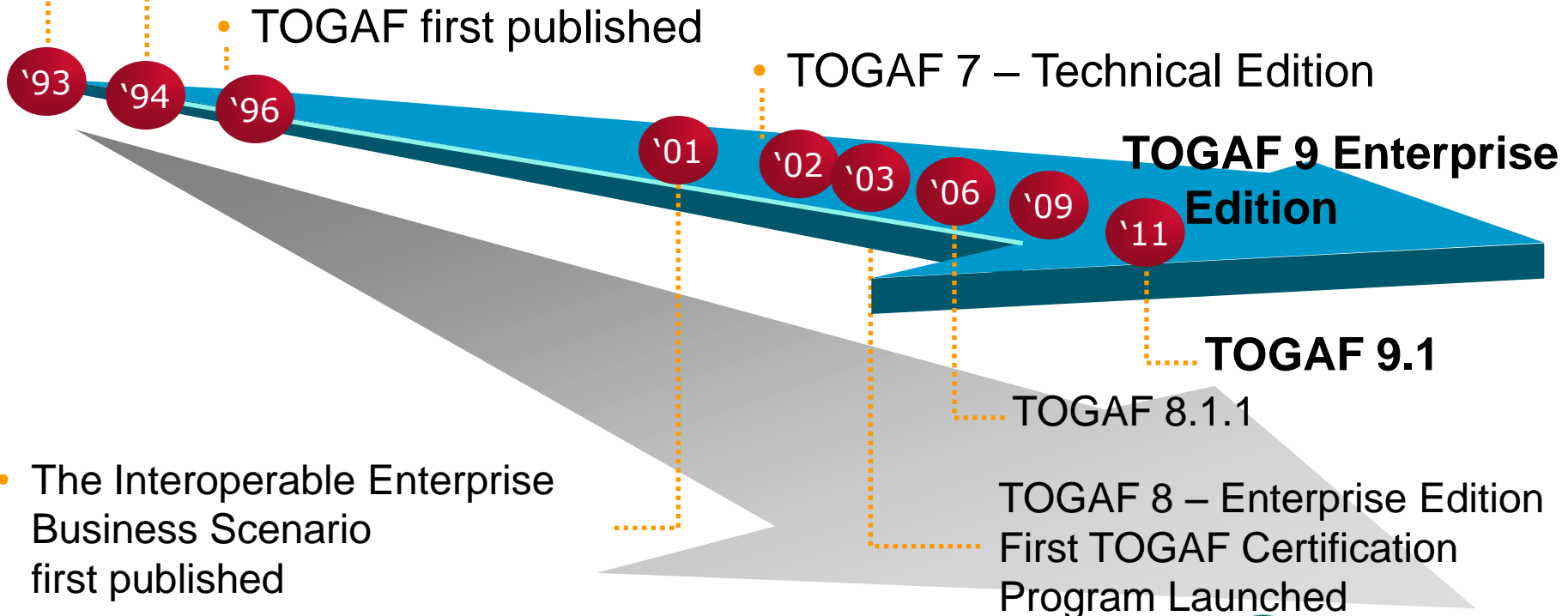
- TOGAF, an Open Group Standard:
 - A proven enterprise architecture methodology and framework used by the world's leading organizations to improve business efficiency
 - The most prominent and reliable enterprise architecture standard, ensuring consistent standards, methods, and communication among enterprise architecture professionals
 - Enterprise architecture professionals fluent in TOGAF standards enjoy greater industry credibility, job effectiveness, and career opportunities
 - TOGAF helps practitioners avoid being locked into proprietary methods, utilize resources more efficiently and effectively, and realize a greater return on investment

The Origins of TOGAF®

- A customer initiative
- A framework, not an architecture
 - A generic framework for developing architectures to meet different business needs
 - Not a “one-size-fits-all” architecture
- Originally based on TAFIM (U.S. DoD)

Member (End User) Driven

- Customer members demand architecture standards ...
 - Customer members select TAFIM as preferred starting point...
 - DoD Information Systems Agency (DISA) donate TAFIM as base



- The Interoperable Enterprise Business Scenario first published

Why TOGAF® ?

**A comprehensive
general method**

**Complementary to, not
competing with, other
frameworks**

**Widely adopted in the
market**

**Tailorable to meet an
organization and
industry needs**

**Available under a free
perpetual license**

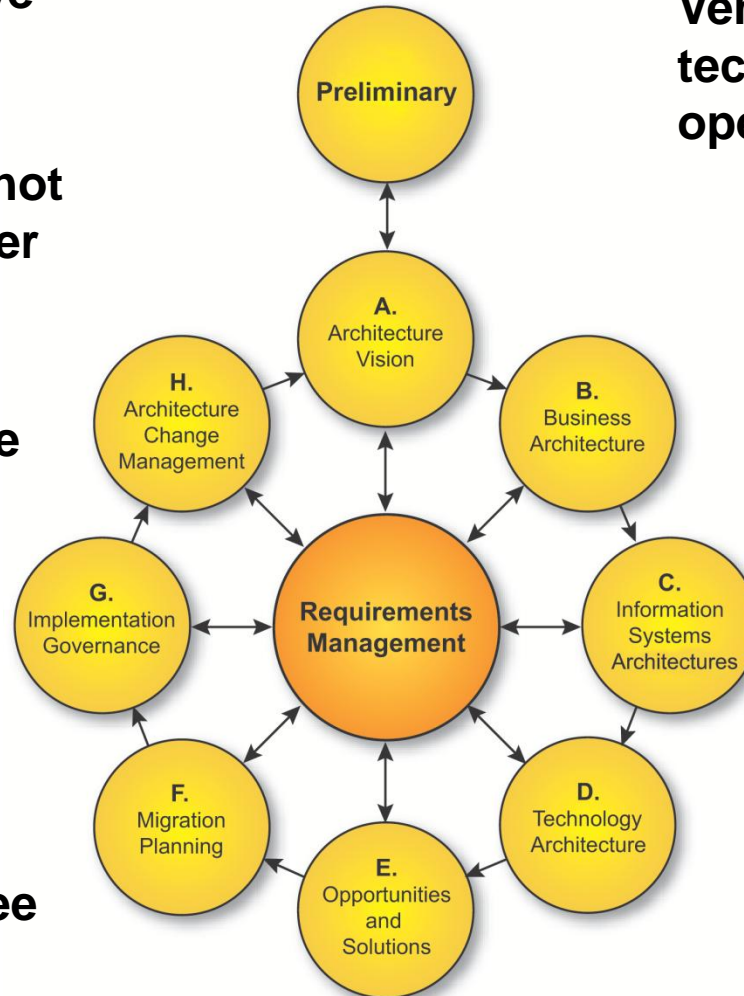
**Vendor, tool and
technology neutral
open standard**

**Avoids re-inventing the
wheel**

Business IT alignment

Based in best practices

**Possible to participate
in the evolution of the
framework**

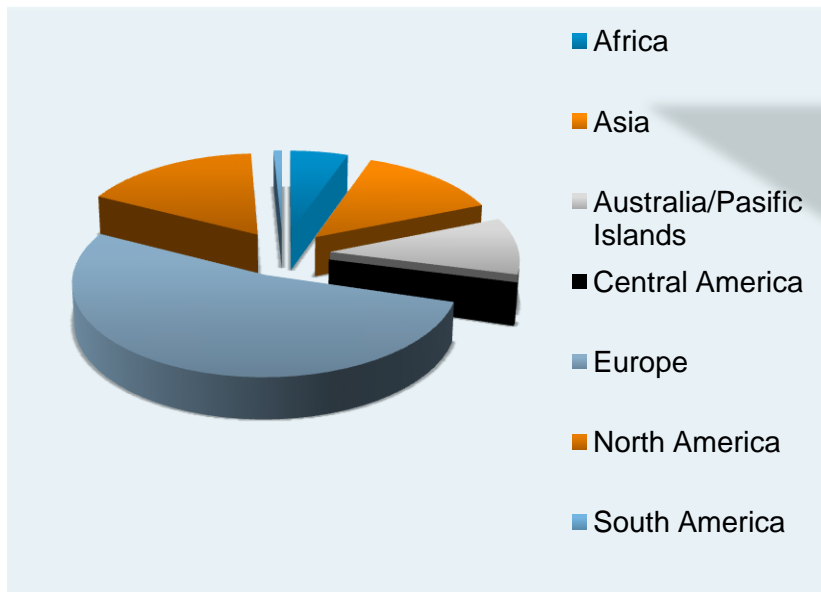
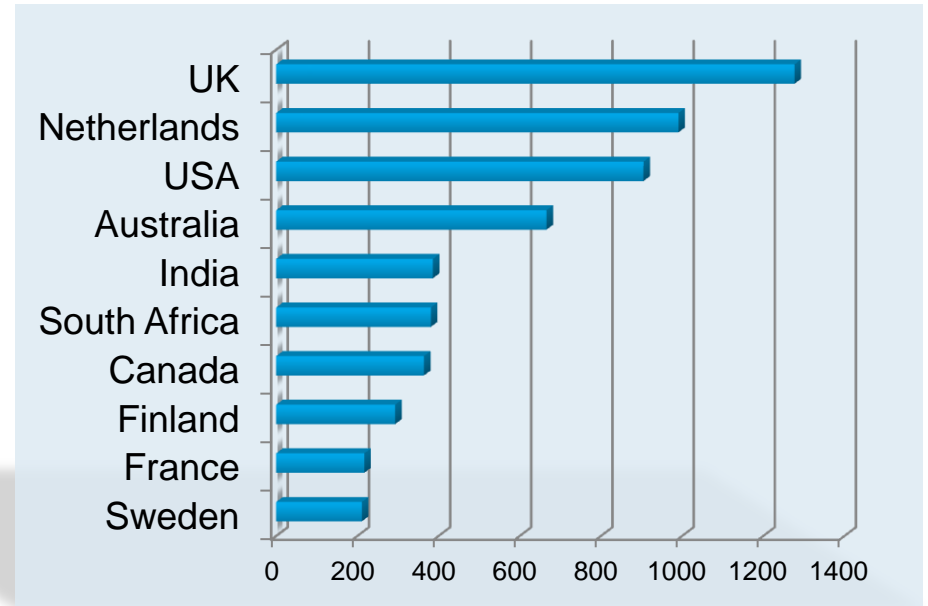


TOGAF® Momentum

- More than 100,000 downloads
- Over 16,000 certified practitioners
- More than 220 corporate members of The Open Group Architecture Forum
- Over 55,000 TOGAF series books shipped
- Association of Enterprise Architects membership at more than 20,000

TOGAF® Certification Statistics

- TOGAF® 9
 - Foundation (3100)
 - Certified (7200)
 - Total (10,300) since February 2009
- TOGAF® 8
 - 7564



TOGAF® 9 Market Drivers

- Ongoing quest for Boundaryless Information Flow™
- In a survey of members, the three most prominent views:
 - The need for closer alignment with the business
 - The desire for simple implementation, greater usability
 - The next version of TOGAF should be an evolution rather than a revolution
- Consideration for different architectural styles, e.g. SOA
- Security is an increasing concern for CIOs and Enterprise Architects due to disappearance of traditional boundaries
- Need for greater detail on Architecture Development Method (ADM)



Introducing TOGAF® 9

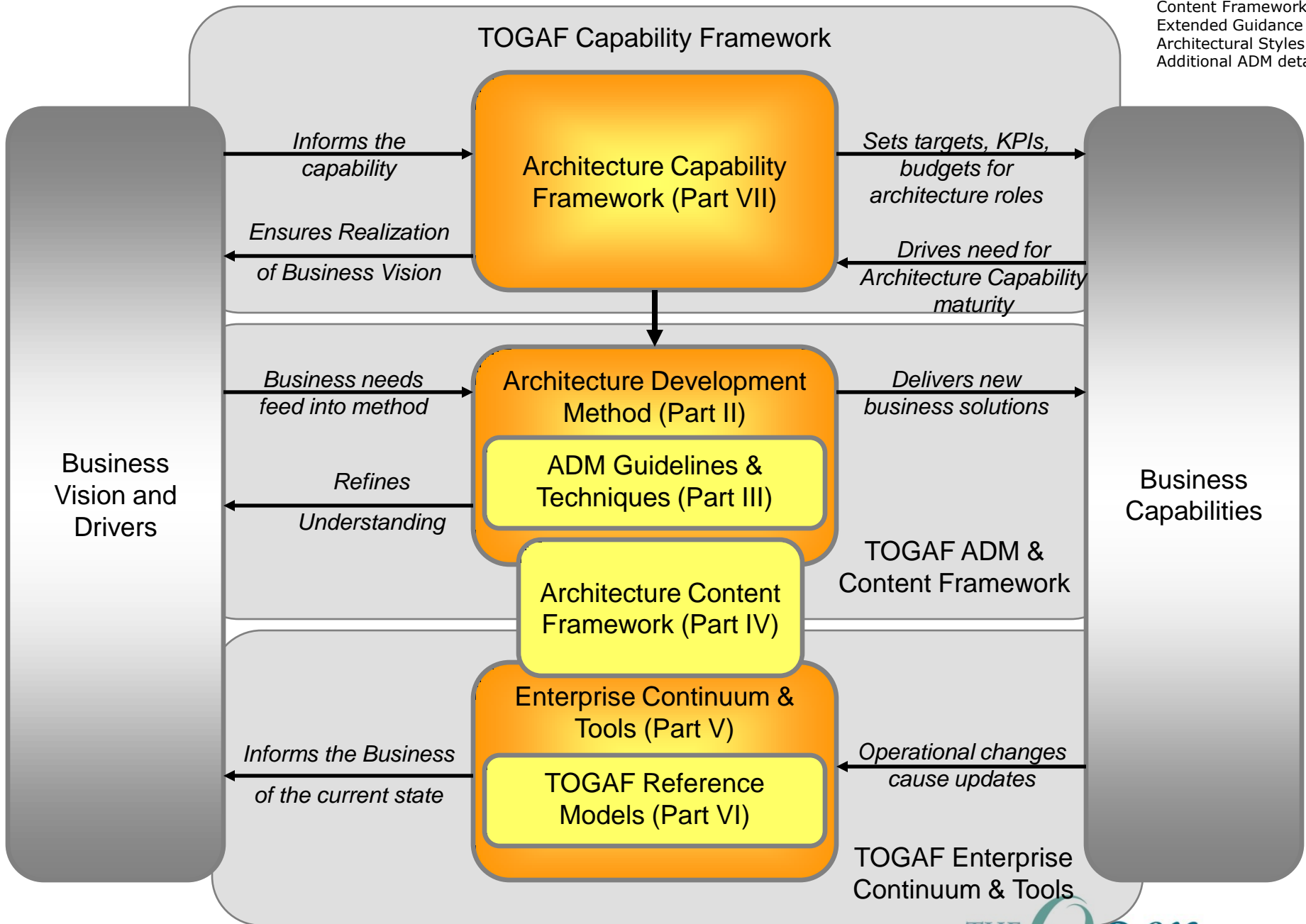
- Developed, reviewed and approved by a collaborative of 300 members from some of the world's leading IT customers and vendors
- An evolution from TOGAF 8.1.1 that preserves existing investments
 - The core Architecture Development Method
 - Existing investment in people - knowledge and skills
 - Existing investment in tools
- Expanded detail and clarification of existing proof points
- Restructured for better usability
- More focused on holistic enterprise change
- Clear links between business and IT objects
- Increased consistency of output

TOGAF® 9.1

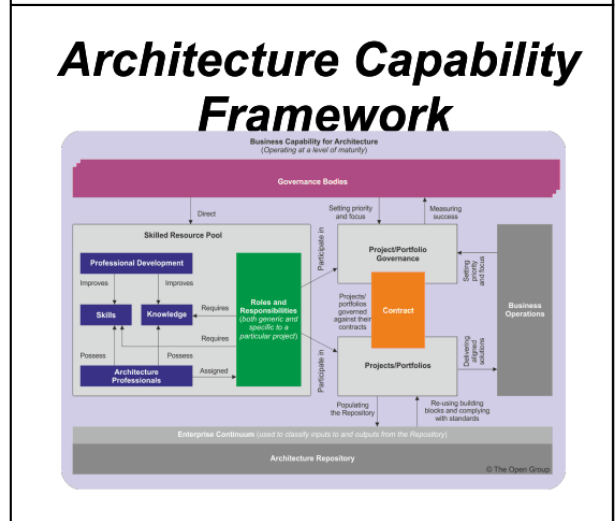
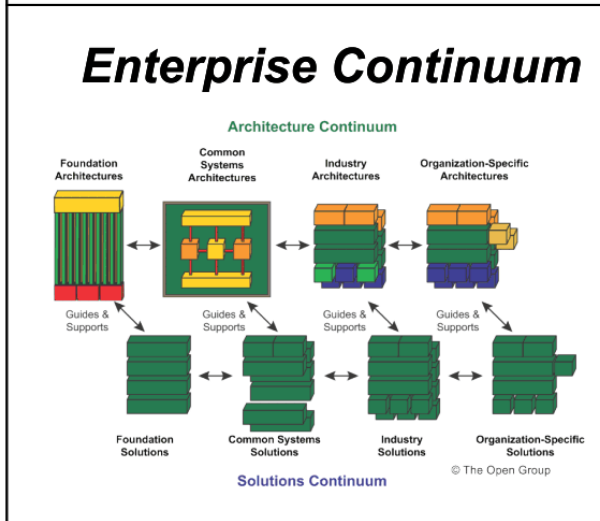
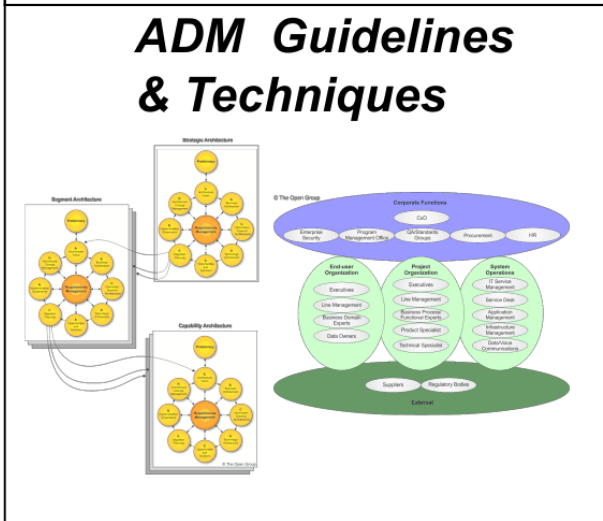
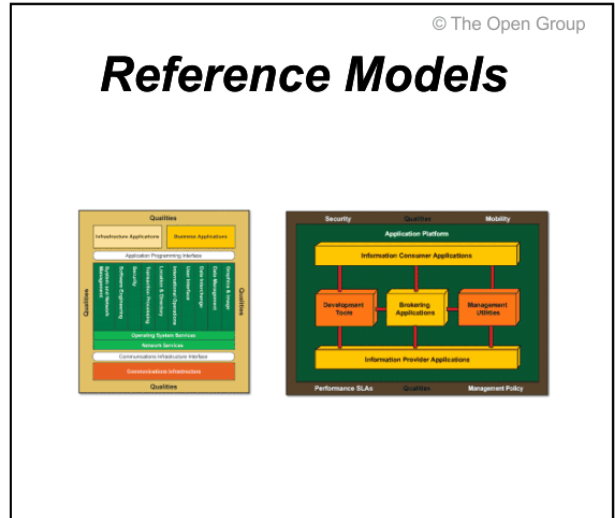
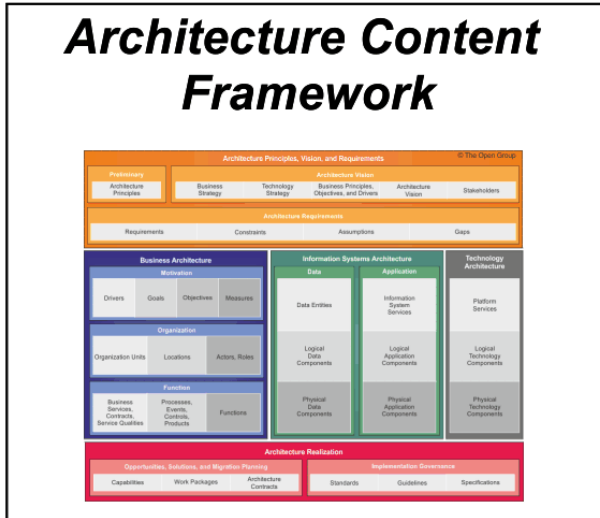
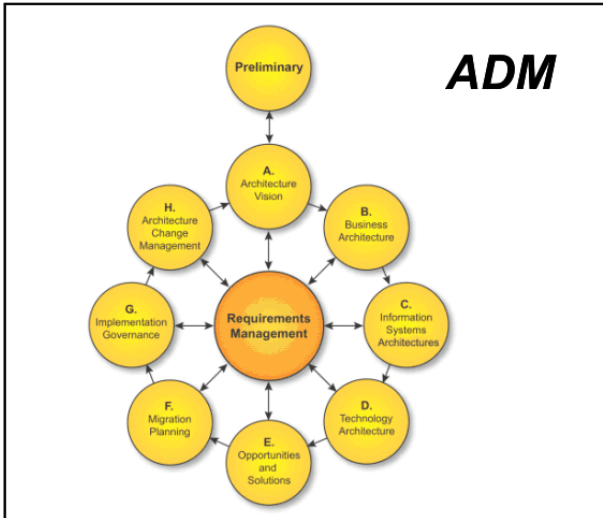
- TOGAF 9.1 was released in December 2011
- It is the first maintenance update to TOGAF 9
- It is an upwards-compatible evolution from TOGAF 9, addressing usage feedback and comments raised
 - It addresses over 400 comments received
 - Contains over 450 changes
- TOGAF 9 Technical Corrigendum 1 (Document U112) is available describing each change in detail

The TOGAF® 9.1 Standard

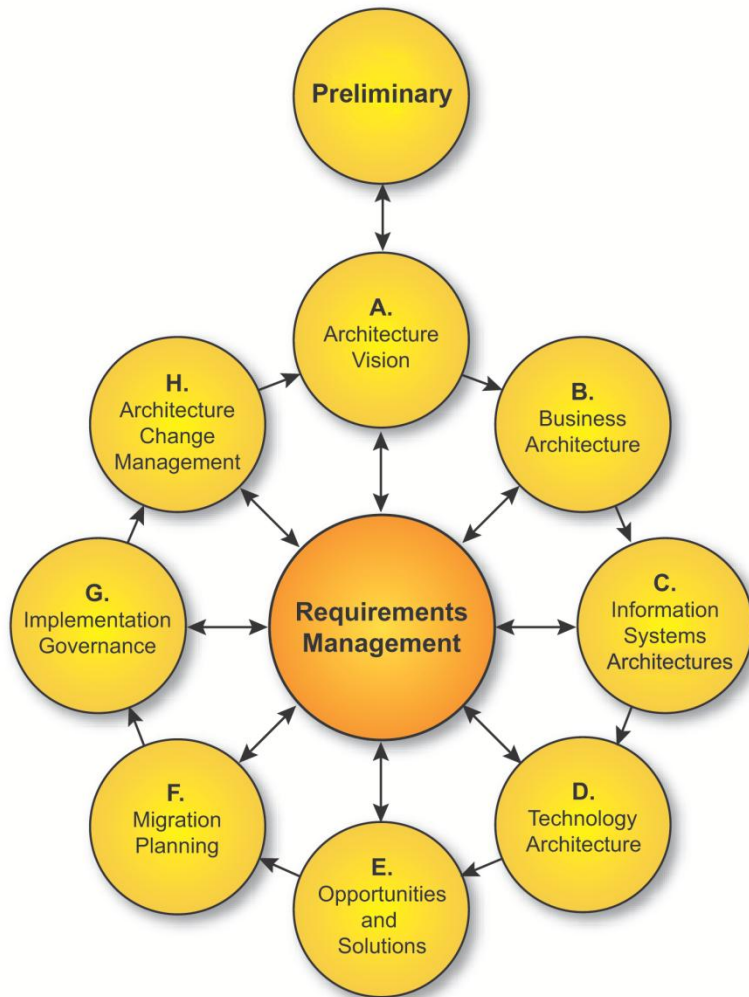
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">T O G A F S E R I E S</p>	<p>© The Open Group</p> <h2>TOGAF® Version 9.1</h2> 	<p>Part I - Introduction</p> <p>Preface, Executive Overview, Core Concepts, Definitions and Release Notes</p>
	<p>Part II – Architecture Development Method</p> <p>Introduction to ADM</p> <p>ADM Phase Narratives</p>	
	<p>Part III – ADM Guidelines and Techniques</p> <p>Guidelines for Adapting the ADM Process</p> <p>Techniques for Architecture Development</p>	
	<p>Part IV – Architecture Content Framework</p> <p>Content Metamodel</p> <p>Architectural Artifacts</p> <p>Architecture Deliverables</p> <p>Building Blocks</p>	
	<p>Part V – Enterprise Continuum and Tools</p> <p>Enterprise Continuum</p> <p>Architecture Partitioning</p> <p>Architecture Repository</p> <p>Tools for Architecture Development</p>	
	<p>Part VI – TOGAF Reference Models</p> <p>Foundation Architecture: Technical Reference Model</p> <p>Integrated Information Infrastructure Reference Model</p>	
	<p>Part VII – Architecture Capability Framework</p> <p>Architecture Board</p> <p>Architecture Compliance</p> <p>Architecture Contracts</p> <p>Architecture Governance</p> <p>Architecture Maturity Models</p> <p>Architecture Skills Framework</p>	
		<p style="text-align: center;">THE <i>Open</i> GROUP</p>



TOGAF® 9 Components

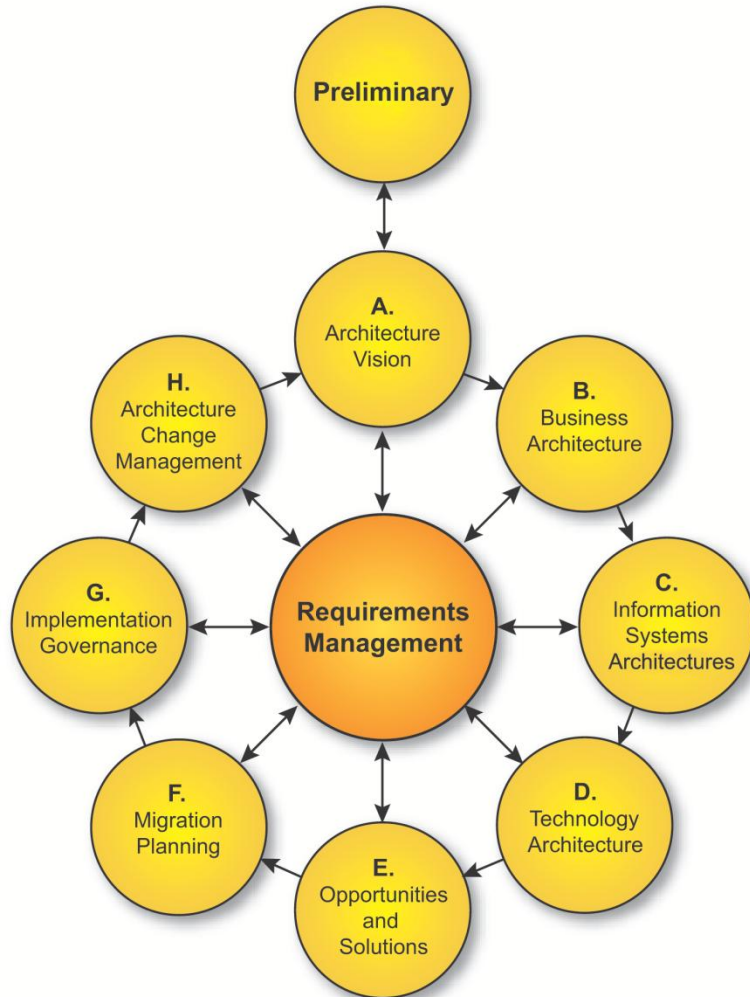


The Architecture Development Method



- 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

ADM – Basic Principles



An iterative method, over the whole process, between phases and within phases

Each iteration = new decisions:

- Enterprise coverage

- Level of detail

- Time horizon

Architecture asset re-use:

- previous ADM iterations

- other frameworks, system models, industry models,...

Decisions based on:

- Competence / resource availability

- Value accruing to the enterprise.

Prepare the organization for a successful architecture project

Provide continual monitoring and a change management process to ensure that the architecture responds to the needs of the enterprise

Set the scope, constraints and expectations for a TOGAF project; create the Architecture Vision; validate the business context; create the Statement of Architecture Work

Develop Business Architecture
Develop baseline and target architectures and analyze the gaps

Develop Information Systems Architectures
Develop baseline and target architectures and analyze the gaps

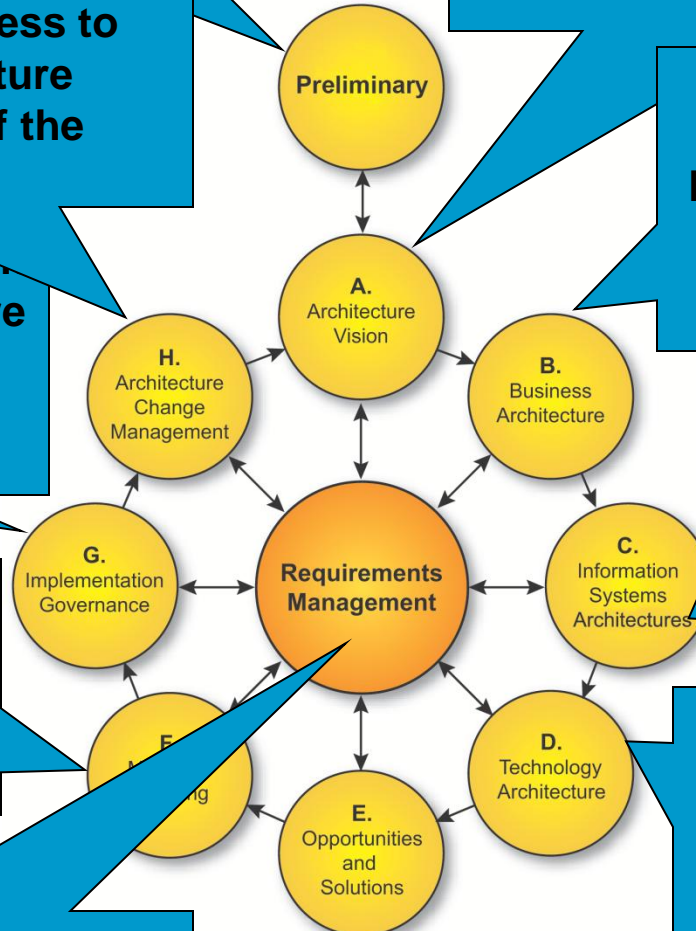
Develop Technology Architecture
Develop baseline and target architectures and analyze the gaps

Perform initial implementation planning; identify major implementation projects

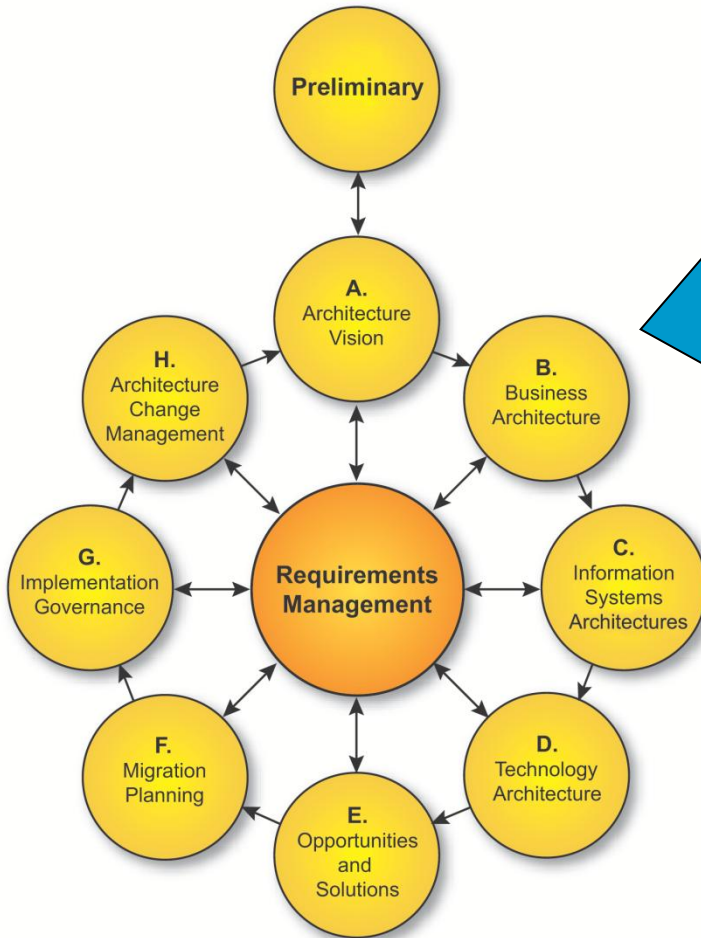
Ensure that every stage of a TOGAF project is based on and validates business requirements

Analyze costs, benefits and risks; develop detailed Implementation and Migration Plan

Provide architectural oversight for the implementation; ensure that the implementation project conforms to the architecture



ADM Phase Steps Example



The order of the steps should be adapted to the situation.

In particular you should determine whether it is appropriate to do the **Baseline Business Architecture** or **Target Business Architecture** development first

Steps

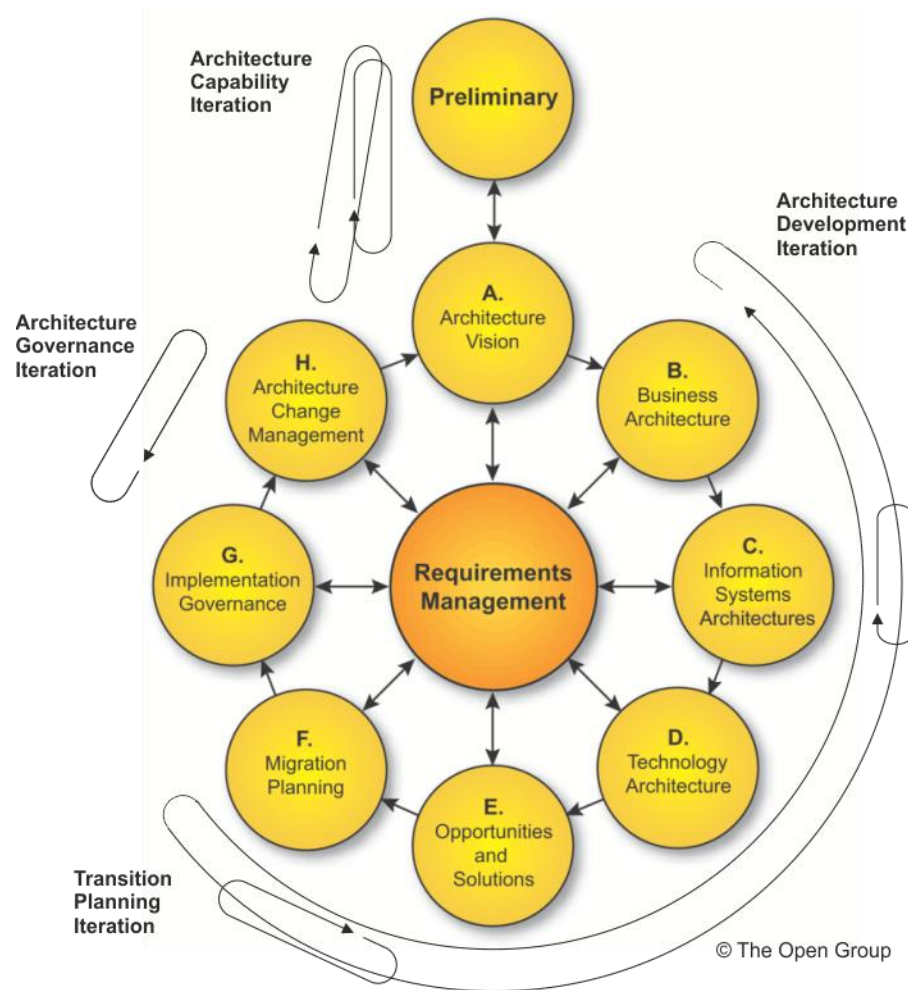
9. Create Architecture Definition Document
8. Finalize the **Business** Architecture
7. Conduct formal stakeholder review
6. Resolve impacts across the Architecture Landscape
5. Define candidate roadmap components
4. Perform gap analysis
3. Develop Target **Business** Architecture Description
2. Develop Baseline **Business** Architecture Description
1. Select reference models, viewpoints, and tools

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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).

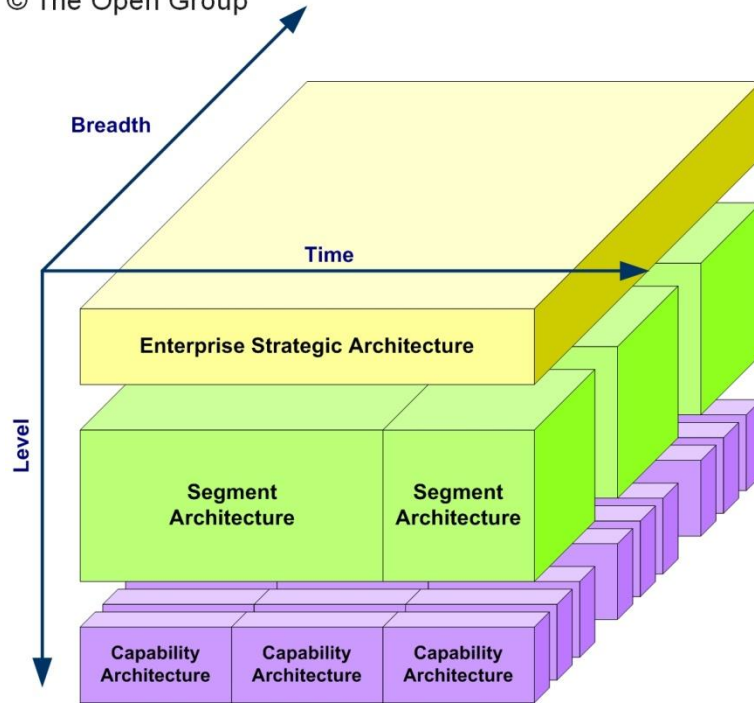
Applying Iteration to the ADM



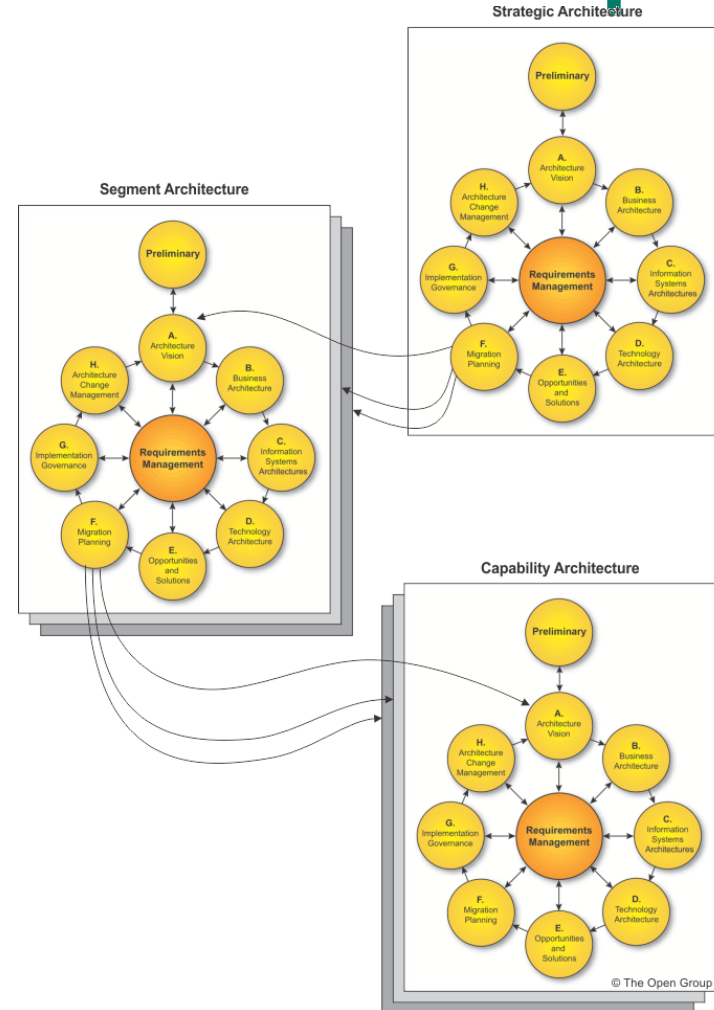
Example Guideline

Applying the ADM Across the Architecture Landscape

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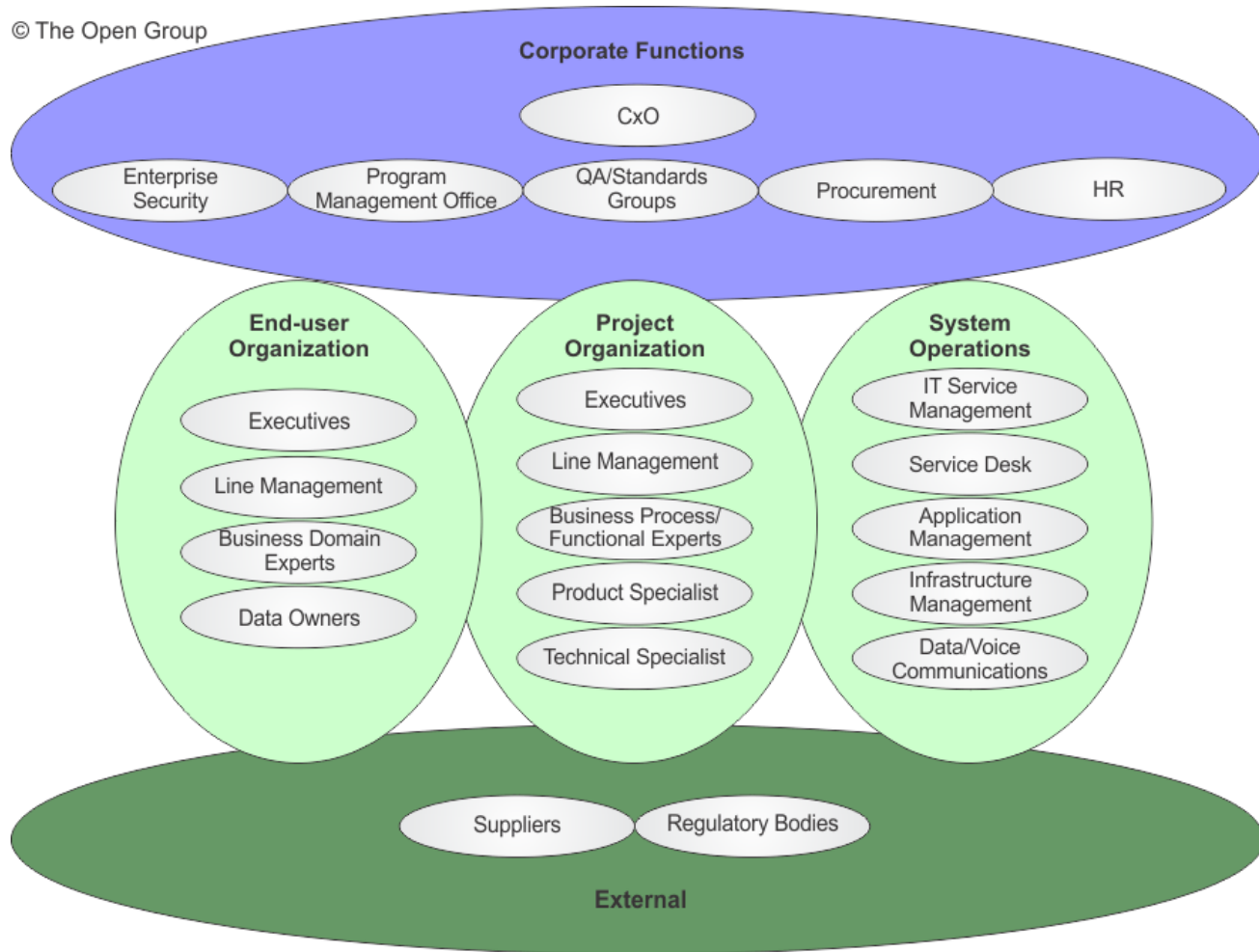


Example Guideline



Categories of Stakeholder

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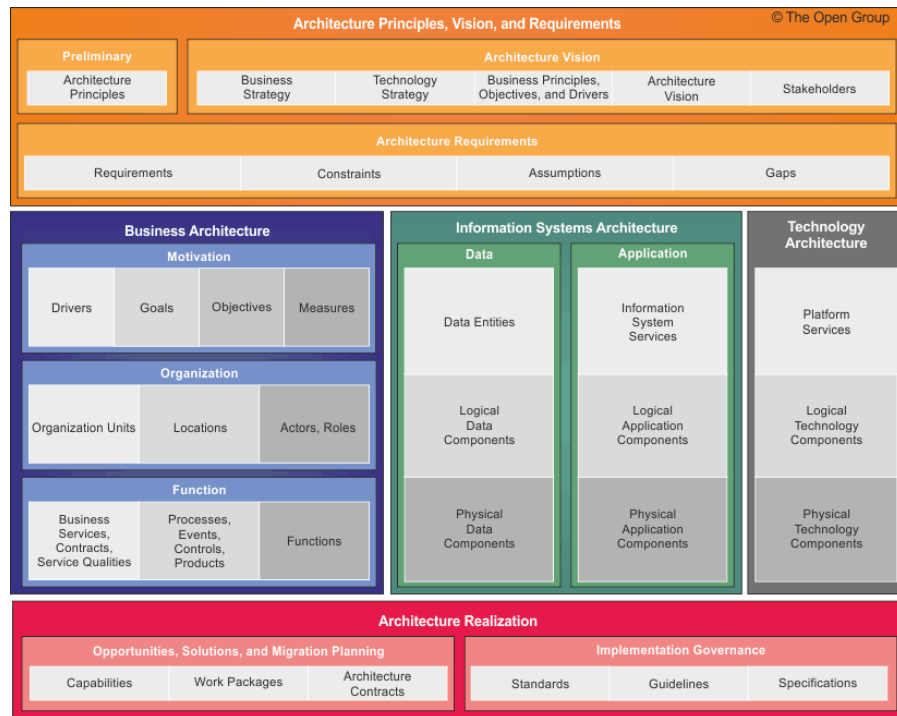


*Example
Technique*

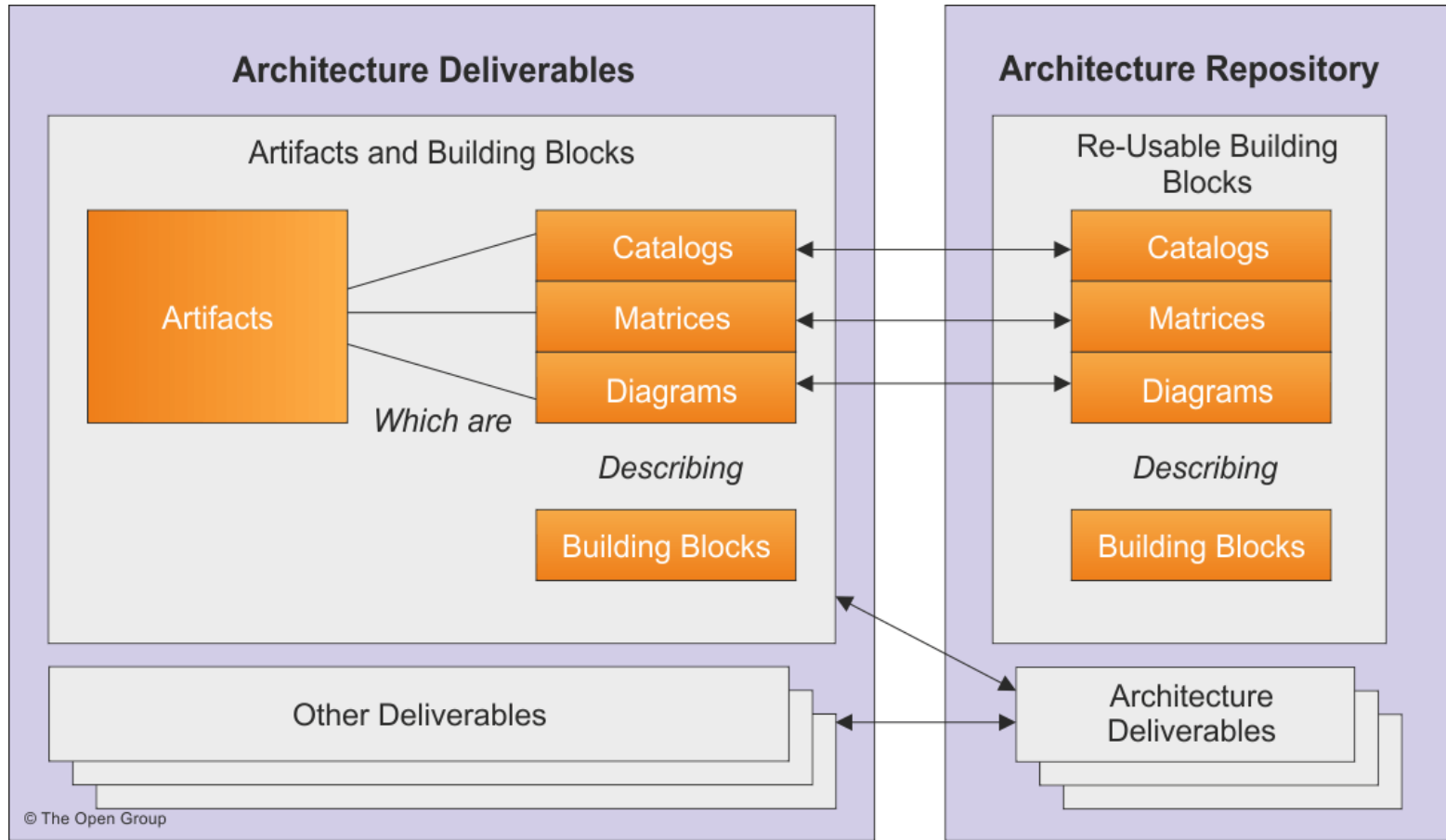
Architecture Content Framework

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

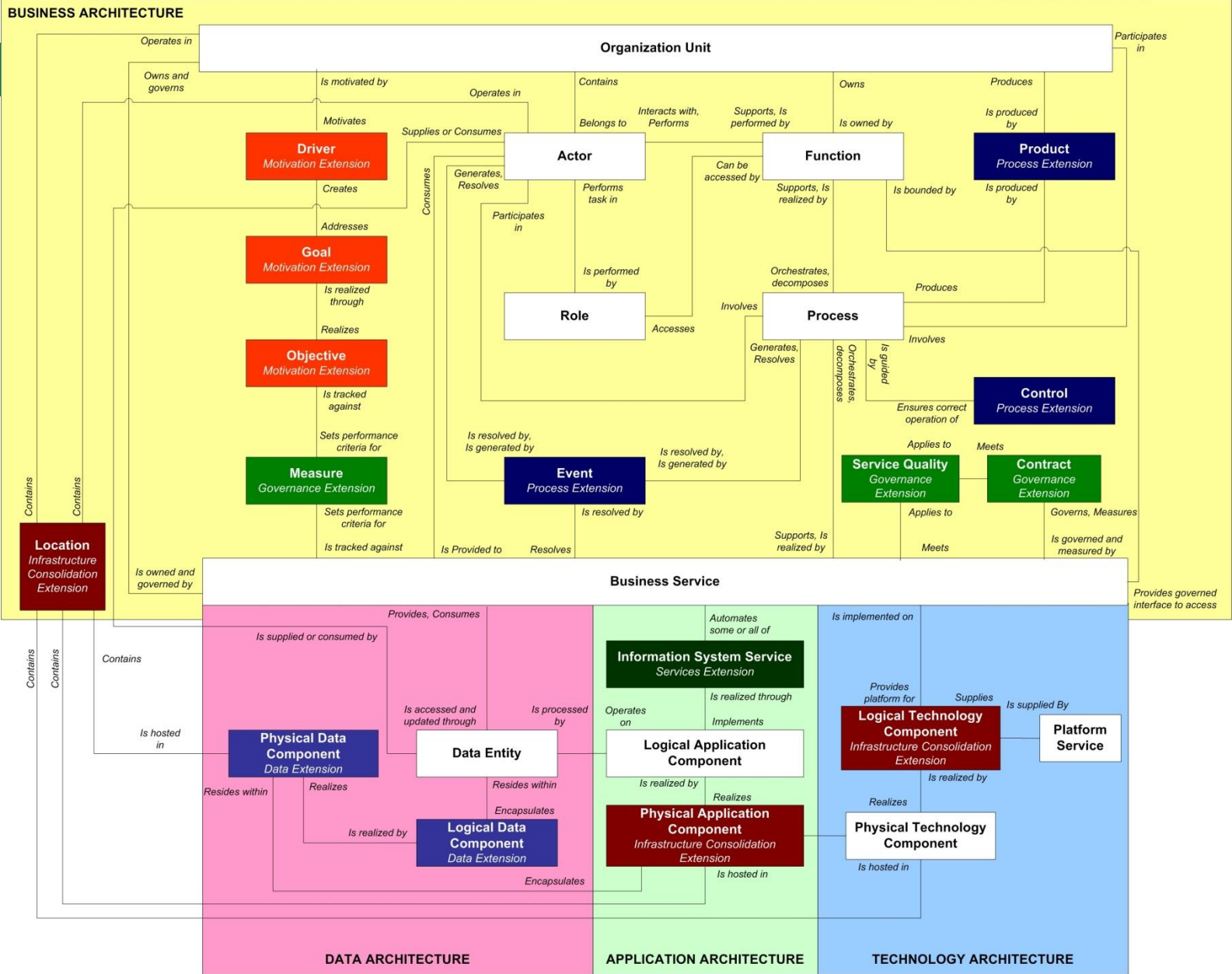
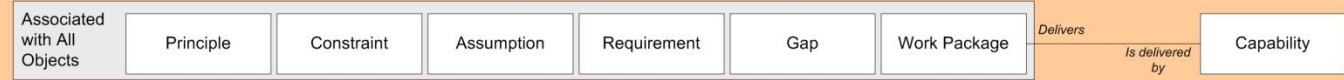
- It drives for greater consistency in the outputs of TOGAF
- It provides a comprehensive checklist of architecture outputs
- It promotes better integration of work products
- It provides a detailed open standard for how architectures should be described
- It includes a detailed metamodel



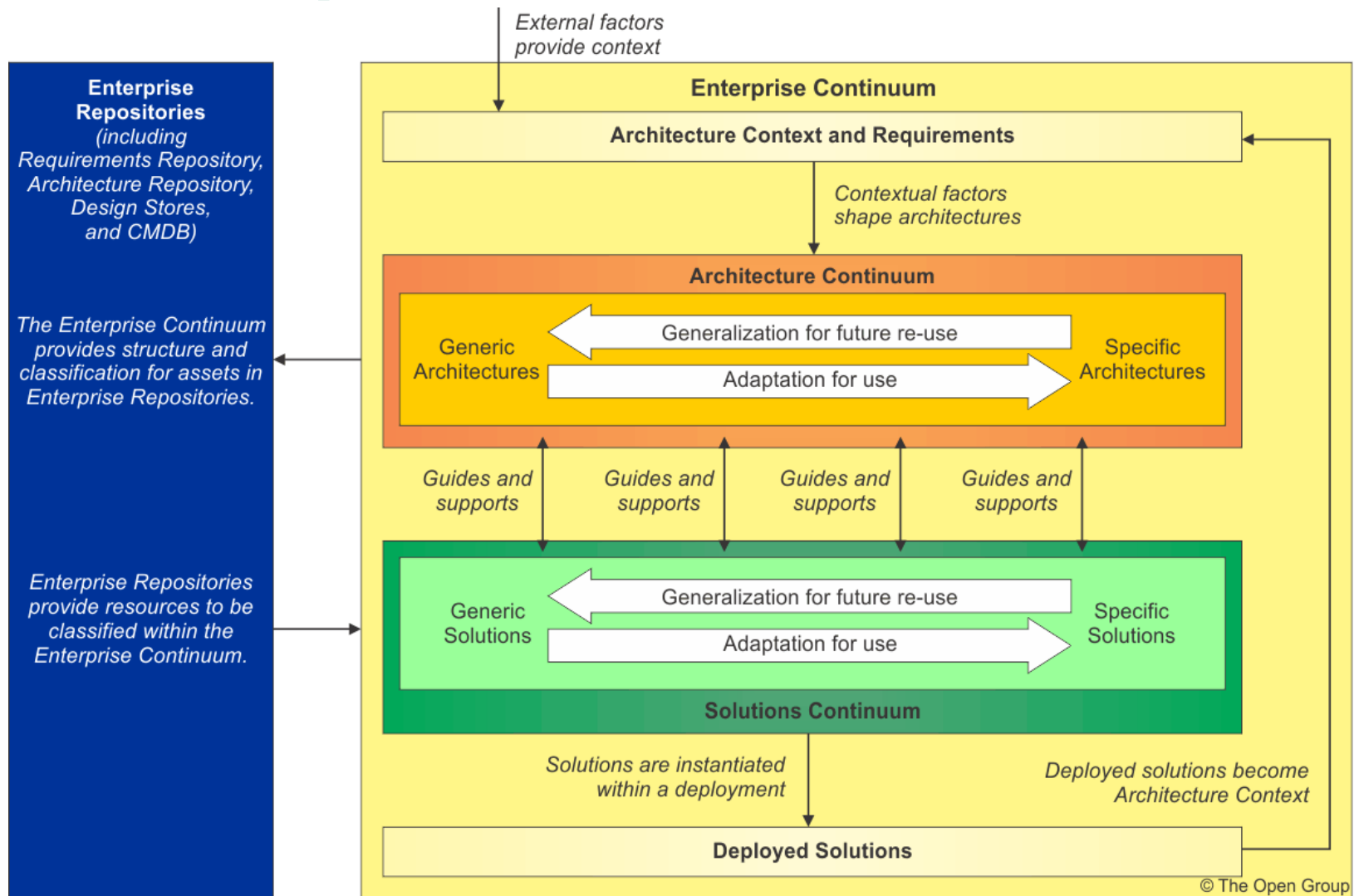
Deliverables, Artifacts and Building Blocks



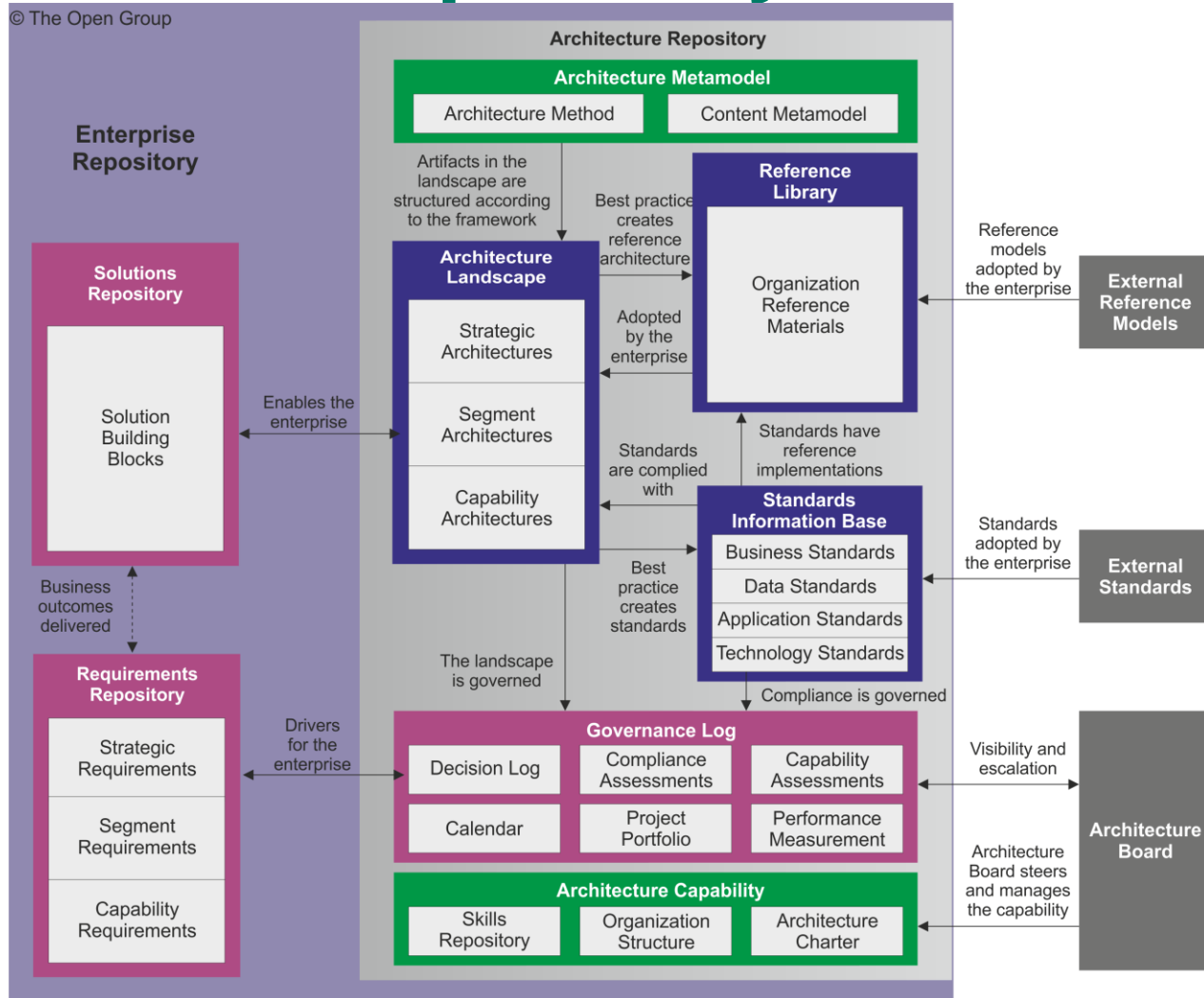
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The Enterprise Continuum



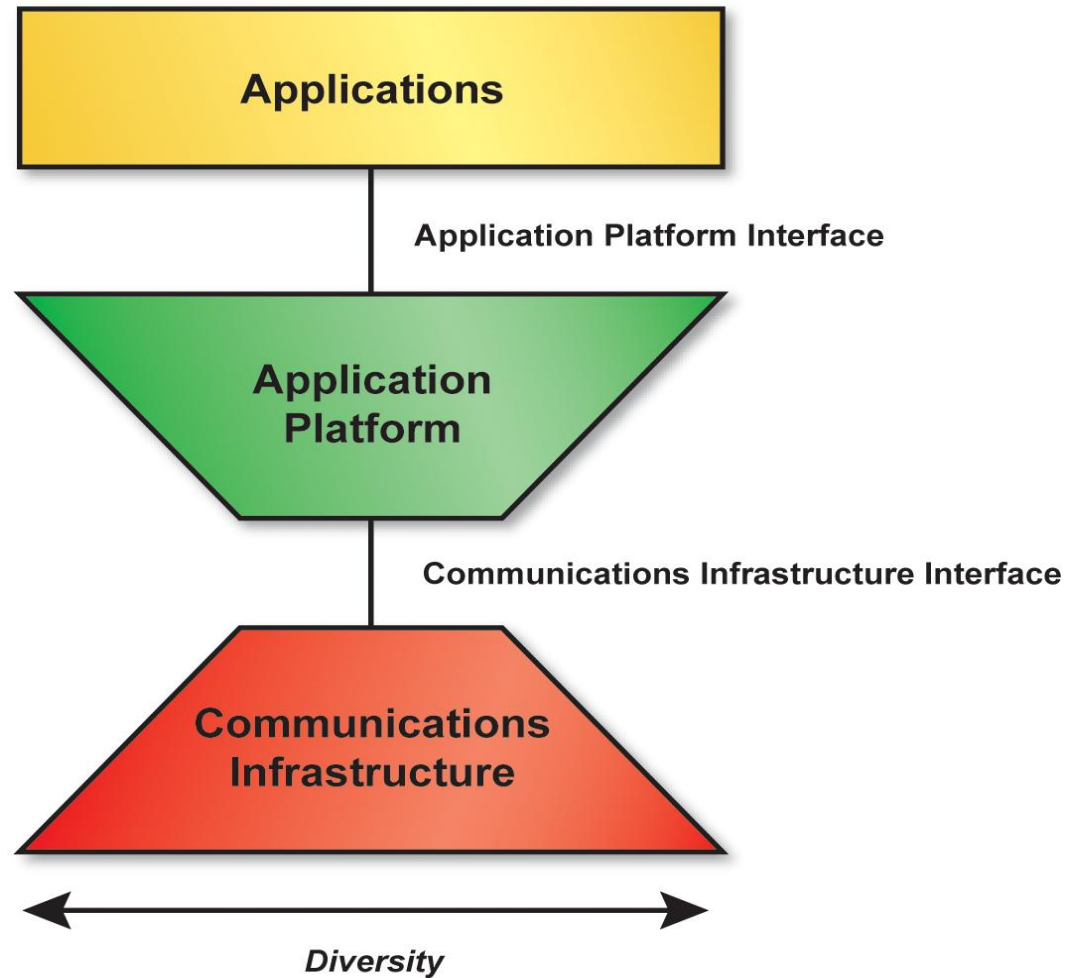
Architecture Repository



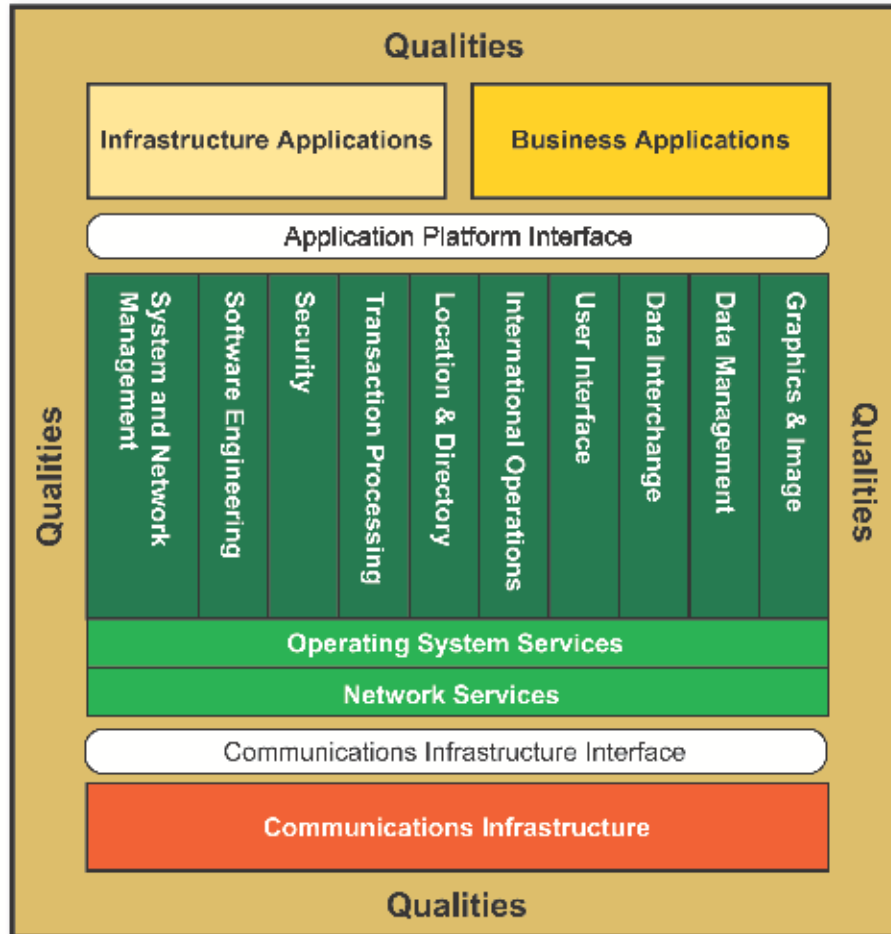
TOGAF® Reference Models

- 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*[™]

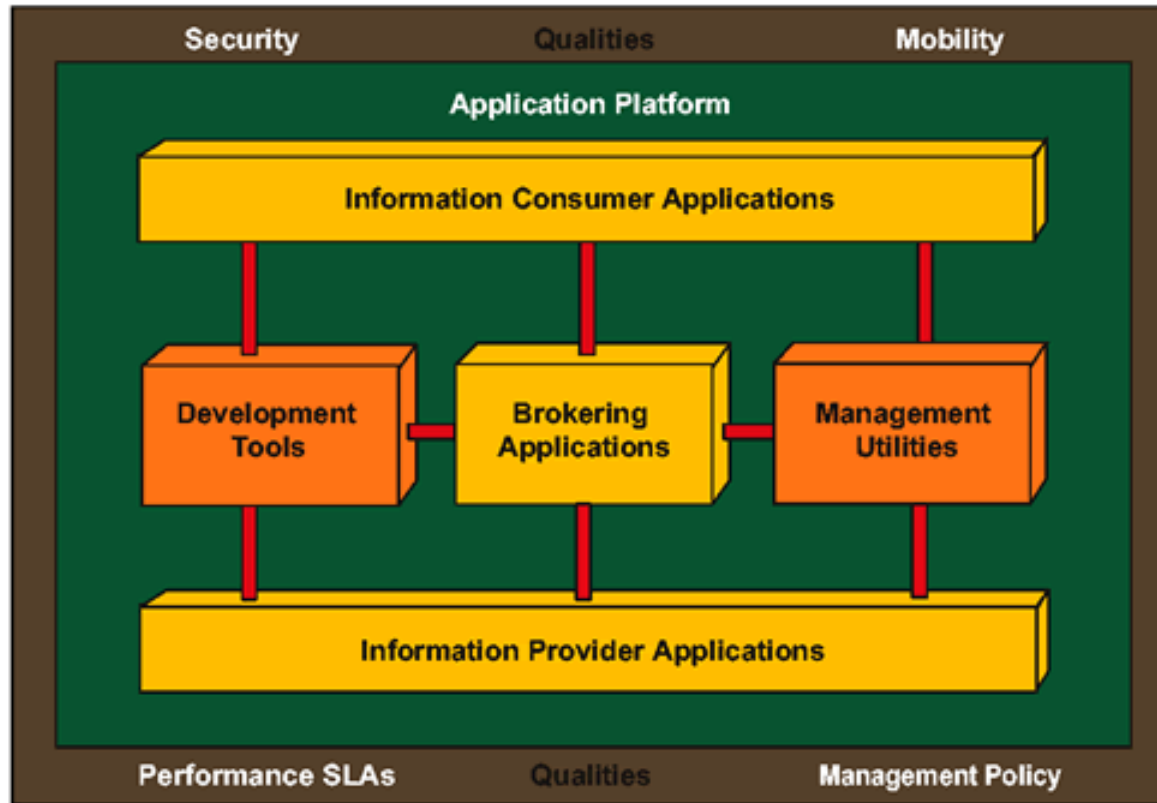
High-Level TRM



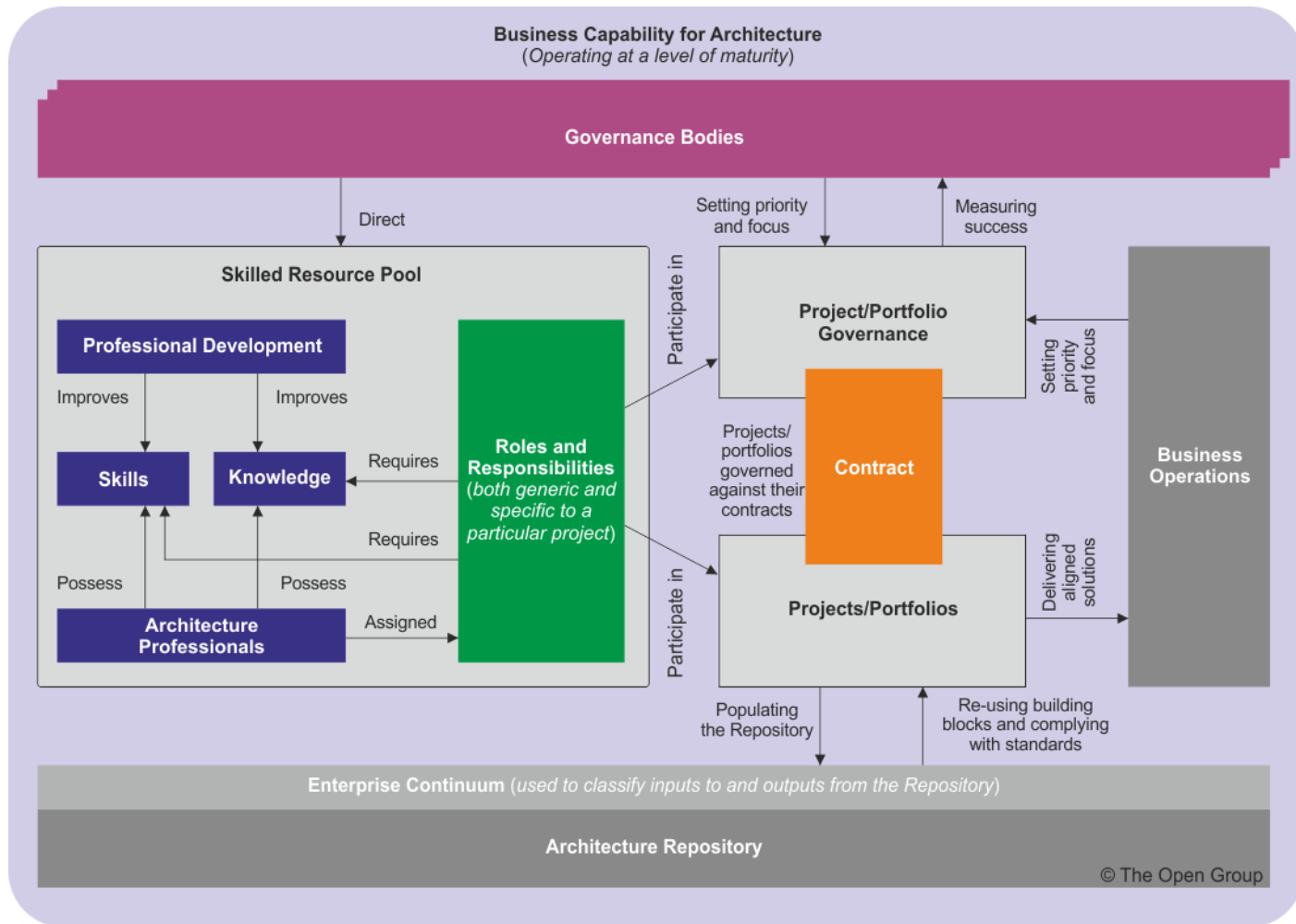
Detailed TRM



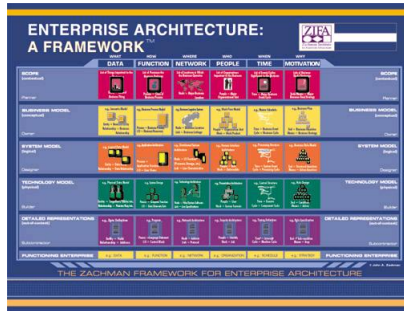
The Integrated Information Infrastructure Reference Model (III-RM)



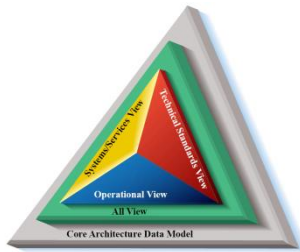
Capability Framework



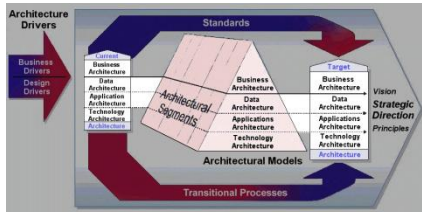
Stand-alone or Complementary



Zachman Framework

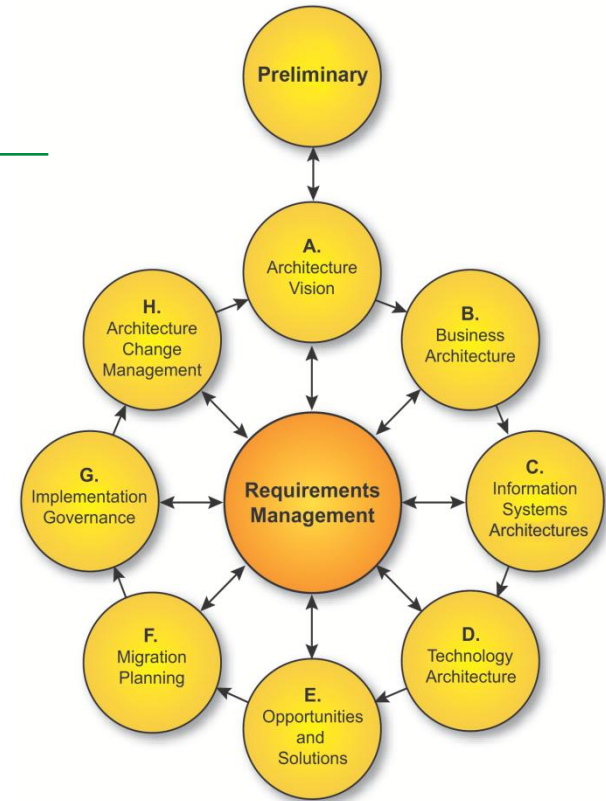


DoD Architecture Framework



Federal Enterprise Architecture Framework

Support or Guidance



TOGAF 9

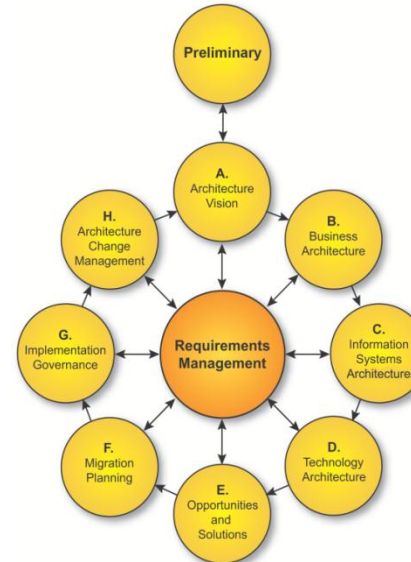
Other Frameworks



Complementary

ITIL

**IT Service Management
Best Practice**

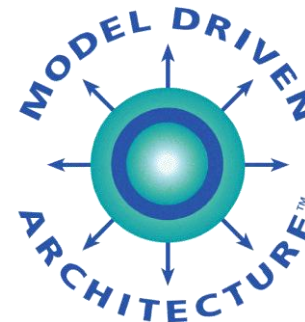


TOGAF 9

**Framework, method
and resources**

COBIT

**Governance and
control**



**Modeling languages
and notation**

Value of TOGAF® Certification

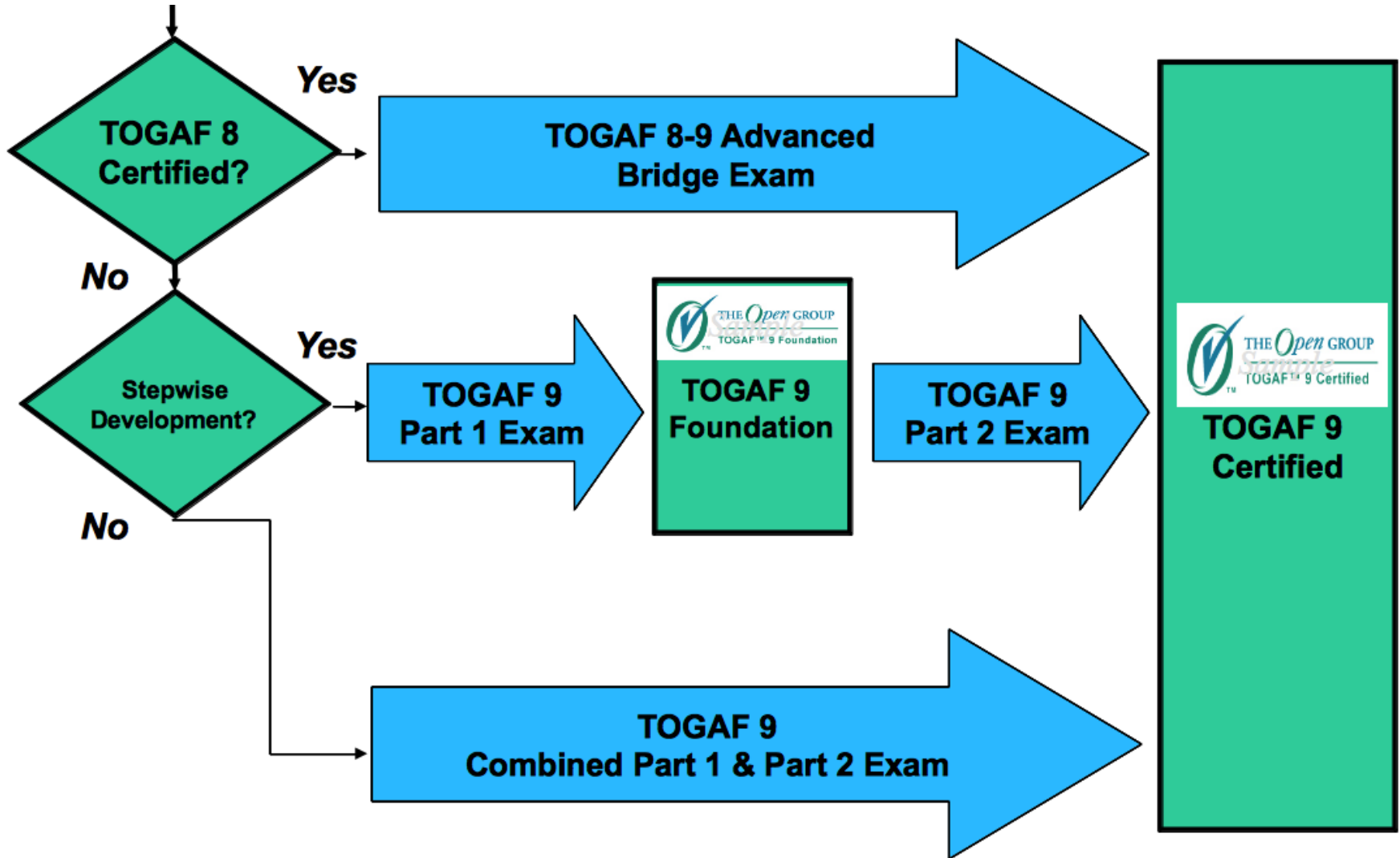
- A globally recognized standard, backed by certification
- Certified professionals
 - Demonstrable knowledge of TOGAF
 - Minimizes employers' hiring time and improves quality of hires
- Vendors of TOGAF Certified Products or Services
 - Warrant conformance to the TOGAF product standard throughout the lifetime of certification
 - Customers who procure are assured of compliance
- Certification credentials can readily be verified

TOGAF® Certification

Certification Level	Purpose
TOGAF 9 Foundation	To provide validation that the candidate has gained knowledge of the terminology and basic concepts of TOGAF 9 and understands the core principles of Enterprise Architecture and TOGAF
TOGAF 9 Certified	To provide validation that in addition to knowledge and comprehension, the candidate is able to analyze and apply knowledge of TOGAF



TOGAF® 9 Certification



Summary

TOGAF®[®], an Open Group Standard, is...

- An effective, industry standard framework and method for enterprise architecture.
- Complementary to, not competing with, other enterprise frameworks
- A repository of best practice
- Vendor, tool, and technology neutral
- A framework and method for achieving the “Boundaryless Information Flow” vision

Questions?



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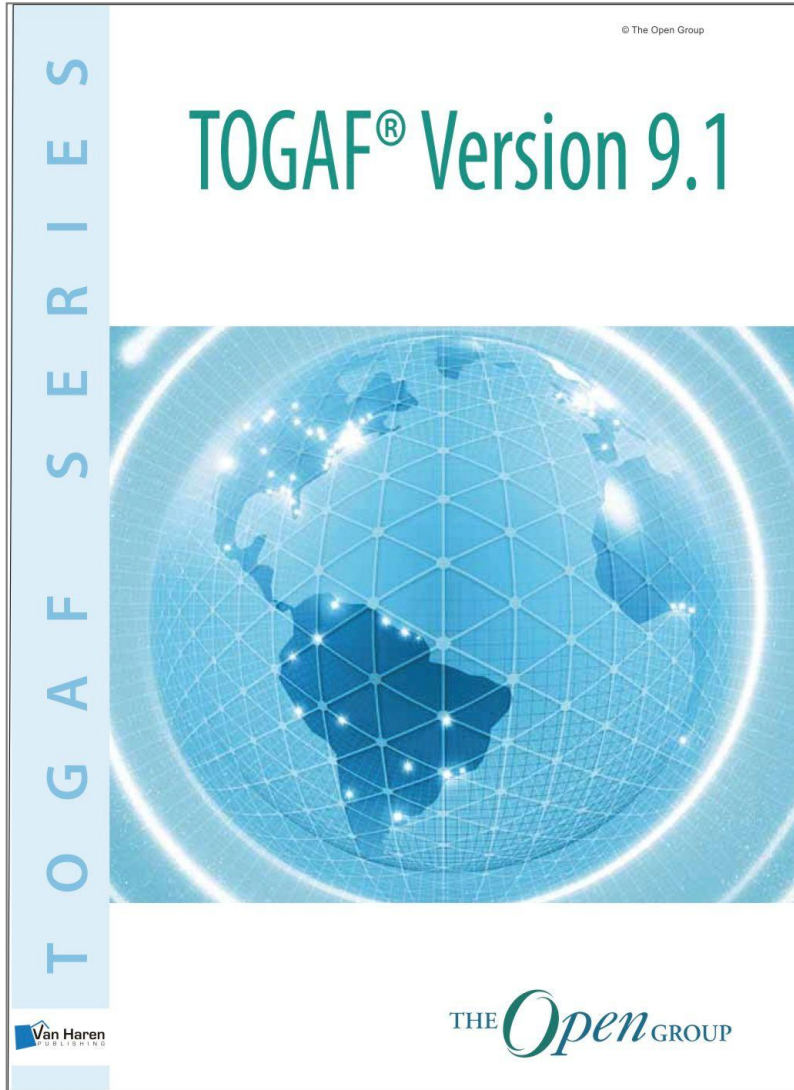
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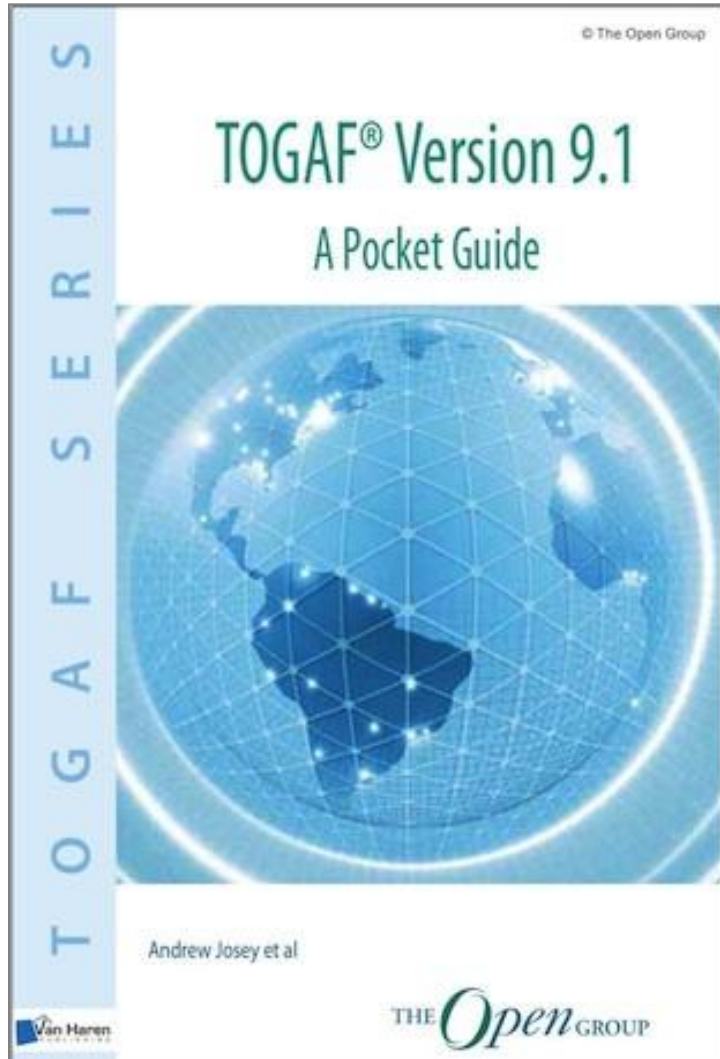
- The TOGAF Web Site
 - <http://www.opengroup.org/togaf/>
- The Architecture Forum
 - <http://www.opengroup.org/architecture/>
- TOGAF Version 9.1 on-line
 - <http://www.opengroup.org/architecture/togaf9-doc/arch/>
- TOGAF Version 9.1 licensing and downloads
 - <http://www.opengroup.org/togaf/>

TOGAF® Version 9.1



- TOGAF Version 9.1, “The Book”
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