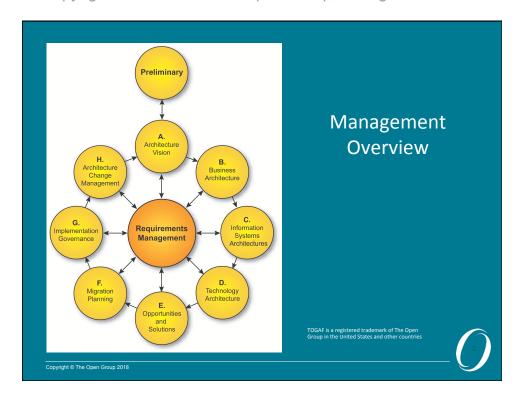


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Module Objectives

- » To provide a management overview of the TOGAF Standard and its ecosystem
 - The Open Group
 - The Architecture Forum
 - Why Enterprise Architecture?
 - Why a framework?
 - The TOGAF Standard, Version 9.2
 - The TOGAF Library
 - TOGAF 9 Certification
 - Summary

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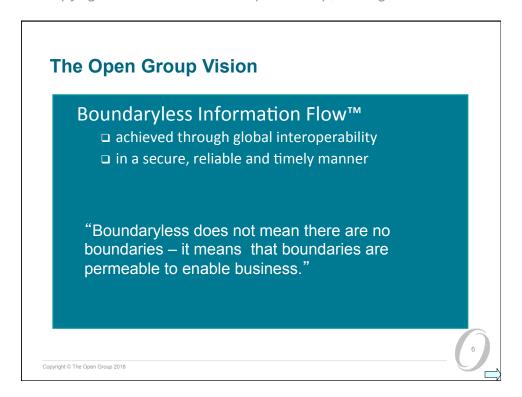
About The Open Group

- » The Open Group is a global consortium that enables the achievement of business objectives through technology standards
- » Its diverse membership of more than 500 organizations includes customers, systems and solutions suppliers, tool vendors, integrators, academics, and consultants across multiple industries.

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The Open Group Mission

The mission of The Open Group is to drive the creation of Boundaryless Information Flow™ achieved by:

- » Working with customers to capture, understand and address current and emerging requirements, establish policies, and share best practices;
- » Working with suppliers, consortia and standards bodies to develop consensus and facilitate interoperability, to evolve and integrate specifications and open source technologies;
- »Developing and operating the industry's premier certification service and encouraging the procurement of certified products.





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Architecture Forum - Mission

- » The mission of The Open Group Architecture Forum is to advance The Open Group vision of *Boundaryless Information Flow*, for and between enterprises,
- » Through a set of programs that focus on all architectural aspects, including:
 - Providing broad and deep leadership to the EA community
 - Validating, publishing, fostering, and maintaining best practices for EA
 - Developing, organizing, researching, and publishing thought leaders in EA
 - Initiating and managing programs and projects to support these activities

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What is an Enterprise?

- » A collection of organizations that share a common set of goals
 - Government agency
 - Part of a corporation
 - Corporation
- » Large corporations may comprise multiple enterprises
- » May be an "extended enterprise" including partners, suppliers and customers

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What is an Architecture?

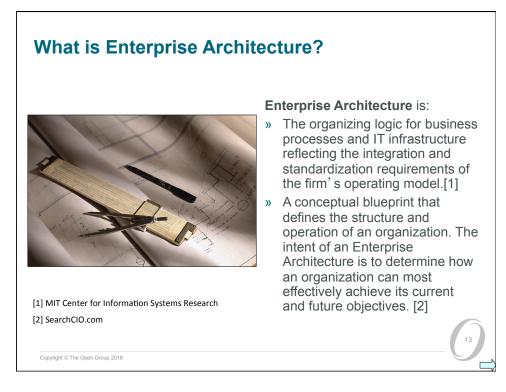


- » An Architecture is the fundamental concepts or properties of a system in its environment embodied in:
 - its elements.
 - their relationships to each other and the environment,
 - and the principles governing its design and evolution.

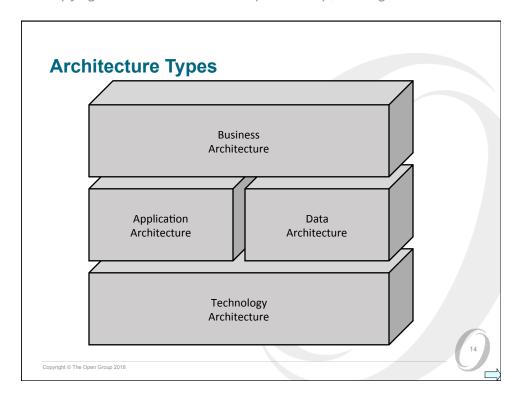
Adapted from ISO/IEC/IEEE 42010:2011

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Why Enterprise Architecture?

- » Effective management and exploitation of information and Digital Transformation are key to business success
- » Good information management = competitive advantage
- » Current IT systems do not really meet the needs of business
 - Fragmented, duplicated
 - Poorly understood
 - Not responsive to change
- » Investment in Information Technology
 - Focussed on system maintenance
 - Tactical developments rather than a strategic plan

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Why Enterprise Architecture?

- » Two key reasons why you need an Enterprise Architecture:
 - A means to achieve competitive advantage
 - Enables managed innovation within the enterprise

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Pressure to develop Enterprise Architecture

- » Laws and regulations
 - Clinger-Cohen Act (US Information Technology Management Reform Act 1996)
 - EU Directives on the Award of Public Contracts
 - Sarbanes-Oxley
- » More extended enterprises
- » More co-operative IT operations
- » Greater publicity to failures
- » Increase in litigation
- » Audit requirements

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Business Benefits of Enterprise Architecture

- » It helps an organization achieve its business strategy
- » Faster time to market for new innovations and capabilities
- » More consistent business processes and information across business units
- » More reliability and security, less risk

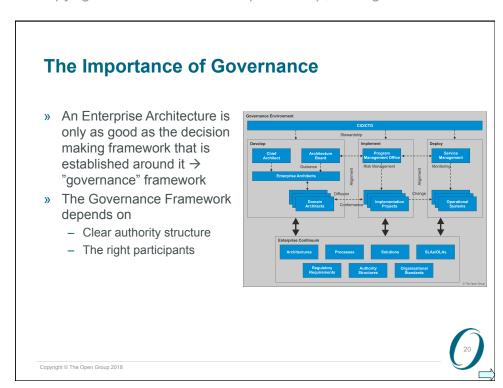
Source: "Why Enterprise Architecture Matters?", The Open Group White Paper, W076

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Business Benefits of Enterprise Architecture » A more efficient business operation » A more efficient IT operation » Better return on existing investment, » Reduced risk for future investment » Faster, simpler, and cheaper procurement See also: "Why Enterprise Architecture Matters?", The Open Group White Paper, W076

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What is an Architecture Framework?

- » TOGAF Standard Definition: Architecture Framework
 - A conceptual structure used to develop, implement, govern, and sustain an architecture
- » It should describe a method for designing target state of the enterprise in terms of a set of building blocks, and for showing how the building blocks fit together
- » It should contain a set of tools and provide a common vocabulary
- » It should also include a list of recommended standards and compliant products that can be used to implement the building blocks

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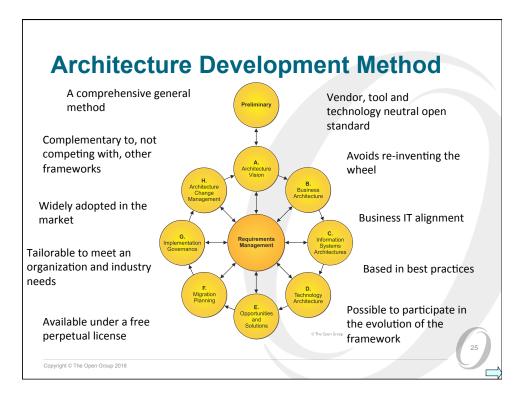
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The Value of a Framework

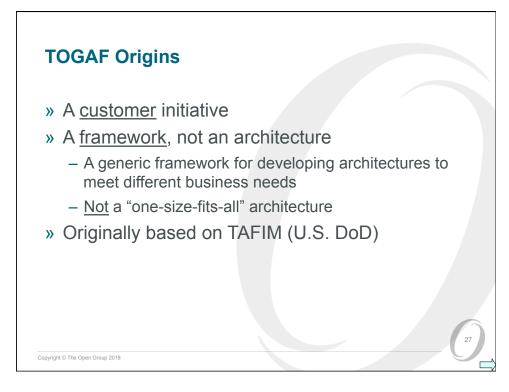
- » Provides a practical starting point for an Architecture Project
 - Avoids the initial panic when the scale of the task becomes apparent
 - Systematic "Codified common sense"
 - Captures what others have found to work in real life
 - Contains a Baseline set of resources for reuse

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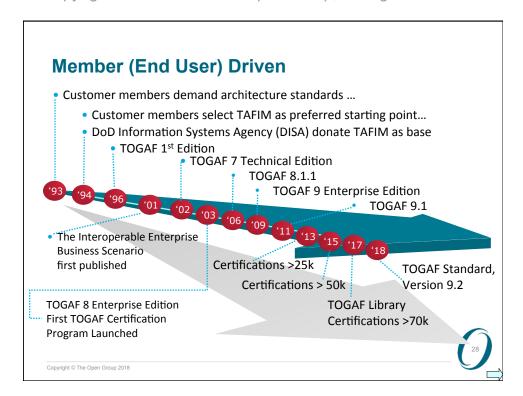


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TOGAF Scope

- » The TOGAF standard emphasizes business goals as architecture drivers, and provides a set of best practices, including:
 - TOGAF Architecture Development Method (ADM)
 - ADM Guidelines & Techniques
 - TOGAF Architecture Content Framework
 - Enterprise Continuum
 - TOGAF Capability Framework
- » In addition, the TOGAF Library provides a portfolio of guidance material to support the standard

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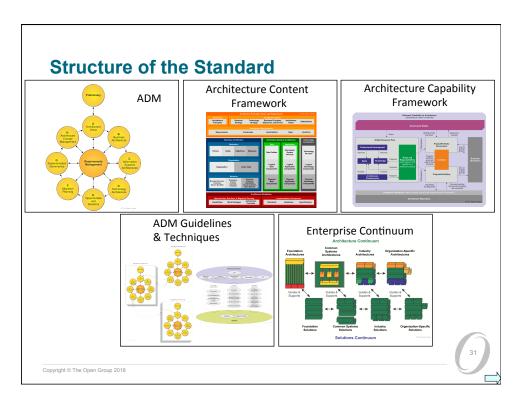
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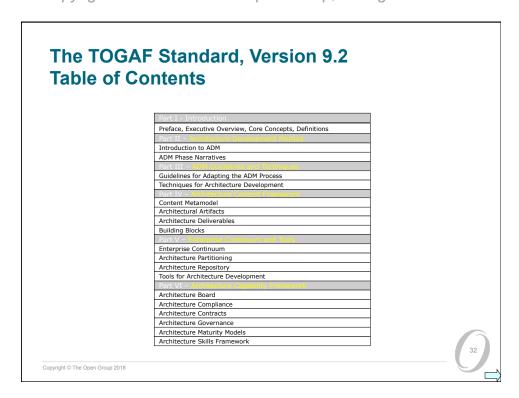
TOGAF Long-term Goals

- » An industry standard, generic Enterprise Architecture method....
- »usable on its own or in conjunction with frameworks having products relevant/specific to particular sectors.
 - Several frameworks have mind share:
 - Zachman, DODAF, MODAF, FEAF, TEAF, ...
 - Almost all focus on products, not method
 - The TOGAF method <u>and</u>.... (not the TOGAF method <u>or</u>....)

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TOGAF Components

- » 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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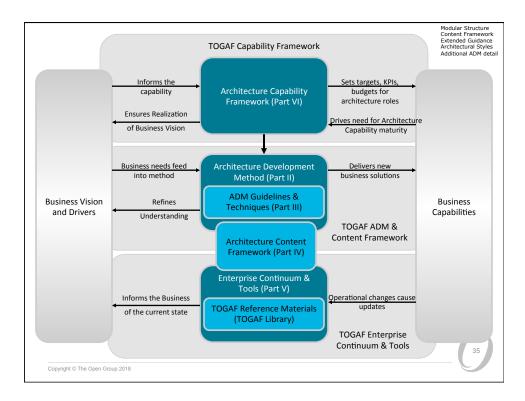
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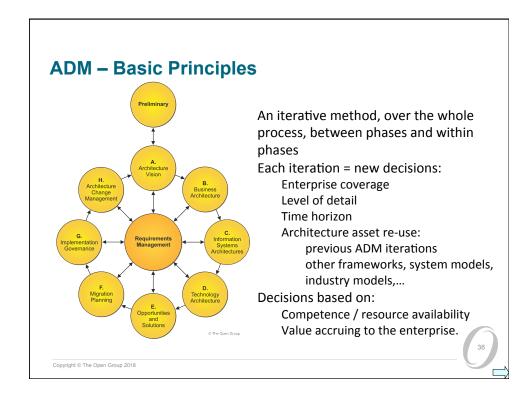
TOGAF Components (Cont'd)

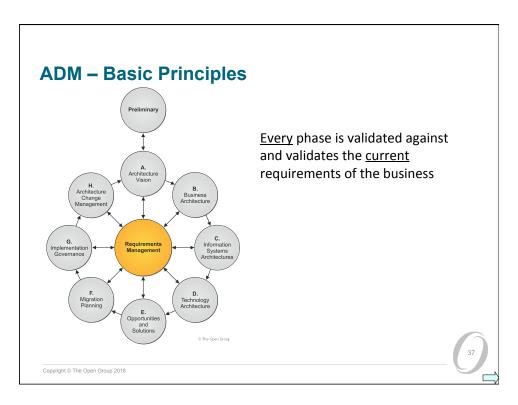
- » The Enterprise Continuum
 - A model for structuring a virtual repository and methods for classifying architecture and solution artifacts
- » The Architecture Capability Framework
 - A structured definition of the organizations, skills, roles and responsibilities to establish and operate an Enterprise Architecture.
- » The TOGAF Library
 - A supporting element separate to the Standard
 - A reference library containing guidelines, templates, patterns, and other forms of reference material to accelerate the creation of new Enterprise Architectures.

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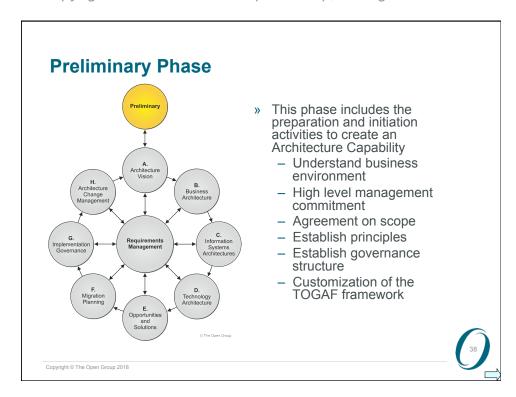


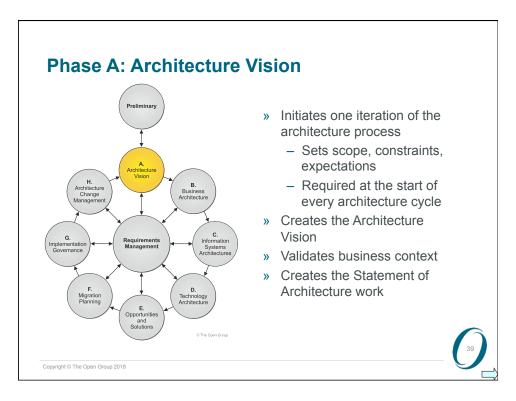
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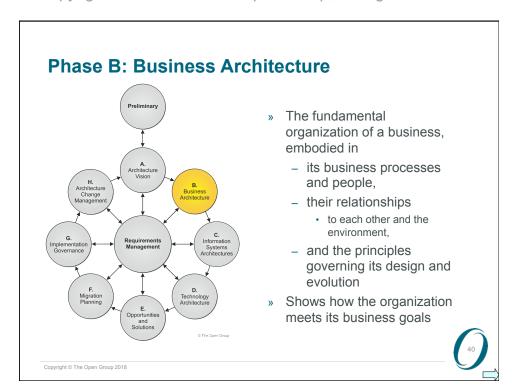


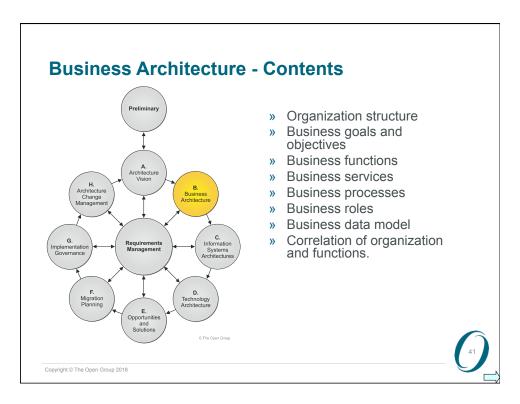
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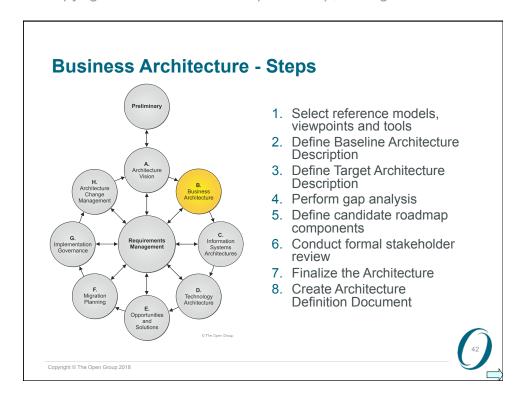


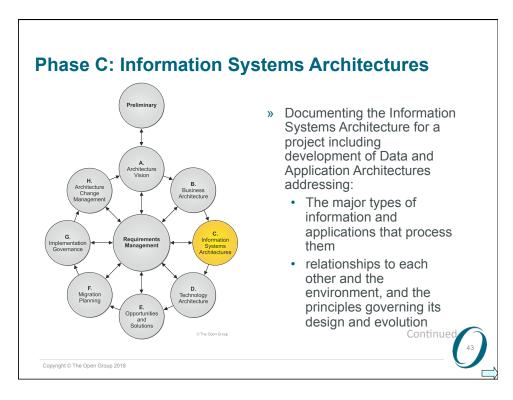
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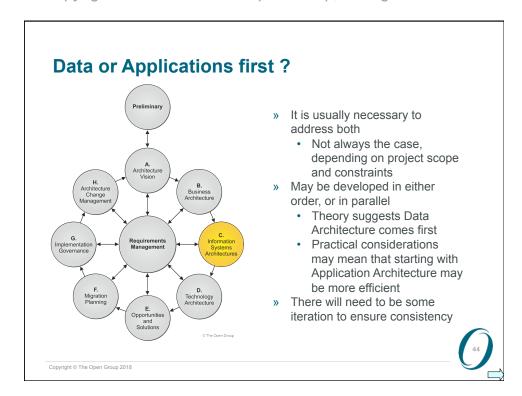


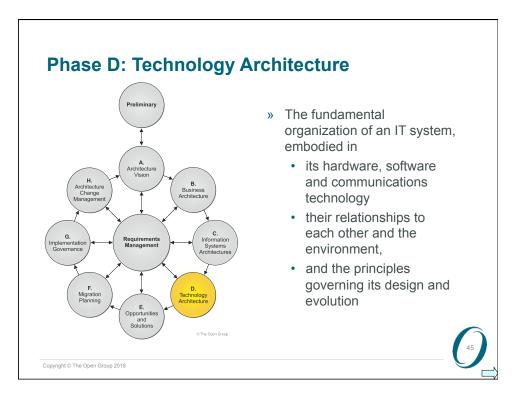
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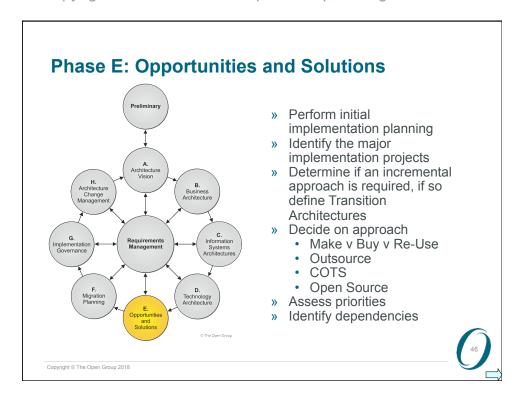


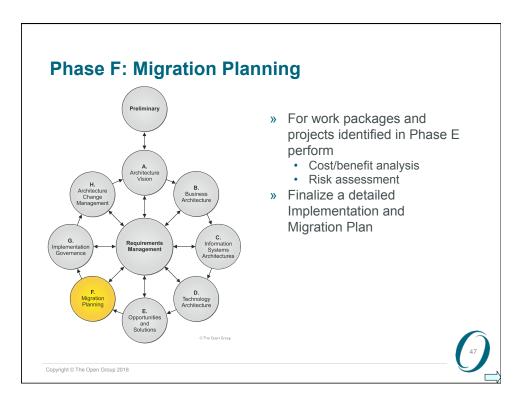
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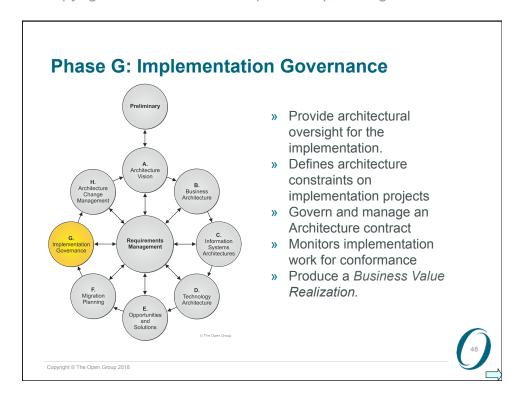


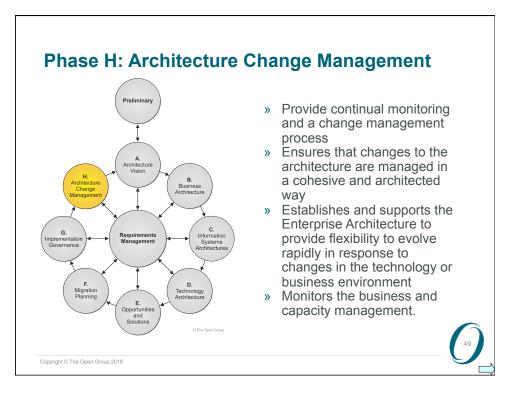
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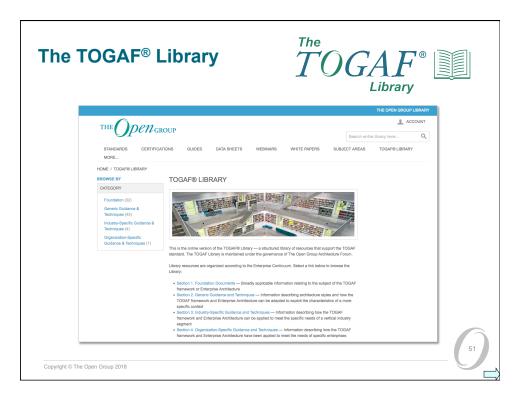
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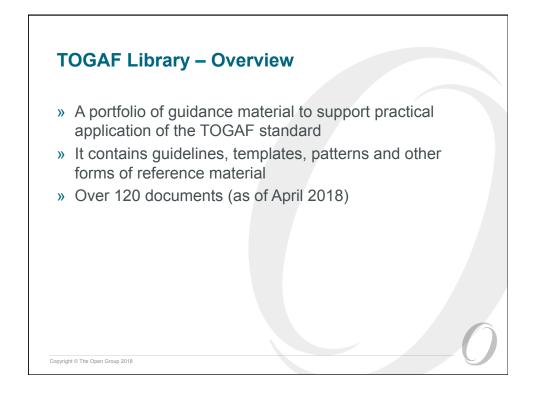


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TOGAF Library – Structure

- » Section 1: Foundation Documents
 - Broadly applicable information relating to the subject of the TOGAF framework or Enterprise Architecture
- » Section 2: Generic Guidance and Techniques
 - Information describing architecture styles and how the TOGAF framework and Enterprise Architecture can be adapted to exploit the characteristics of a more specific context
- » Section 3: Industry-Specific Guidance and Techniques
 - Information describing how the TOGAF framework and Enterprise Architecture can be applied to meet the specific needs of a vertical industry segment
- » Section 4: Organization-Specific Guidance and Techniques
 - Information describing how the TOGAF framework and Enterprise Architecture have been applied to meet the needs of specific enterprises

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TOGAF Certification

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

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TOGAF Foundation Target Audience

- » Individuals who require a basic understanding of the TOGAF 9 standard
- » Professionals who are working in roles associated with an architecture project such as those responsible for planning, execution, development, delivery and operation
- » Architects who are looking for a first introduction to the TOGAF 9 standard
- » Architects who want to achieve Level 2 certification in a stepwise approach.

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TOGAF Certified Target Audience

- » Individuals who require a deeper understanding of the TOGAF 9 standard;
- » Professionals who are working in an organization where TOGAF 9 has been adopted and who need to participate in architecture projects and initiatives;
- » Architects who will be responsible for developing architecture artifacts;
- » Architects who wish to introduce the TOGAF 9 standard into an architecture practice;
- » Architects who want to achieve a recognized qualification to demonstrate their detailed knowledge of the TOGAF 9 standard.

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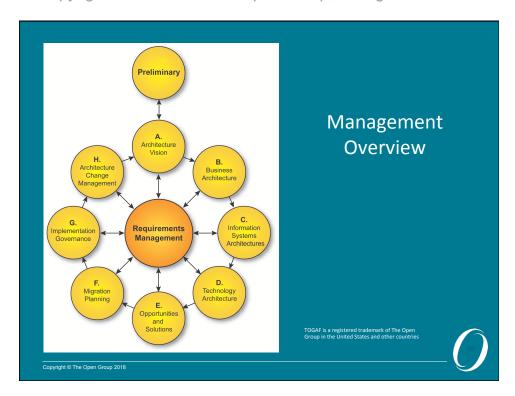
Summary

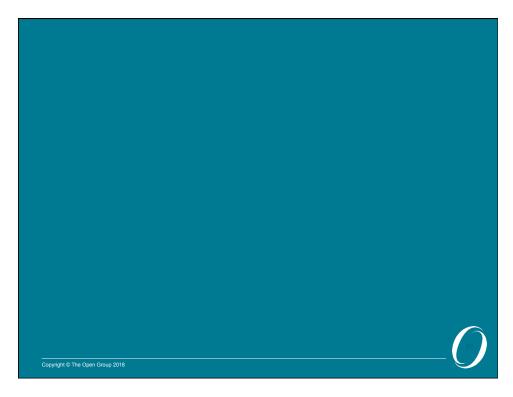
The TOGAF® Standard is...

- » An effective, industry standard framework and <u>method</u> for Enterprise Architecture.
- » Complementary to, not competing with, other enterprise frameworks
- » A repository of best practice
 - It "demystifies" architecture development
- » Vendor, tool, and technology neutral
- » A framework and method for achieving the "Boundaryless Information Flow" vision

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