

# **Module Objectives**

- To provide a management overview of TOGAF 8.1.1
  - The Open Group
  - The Architecture Forum
  - Why enterprise architecture
  - Why a framework
  - TOGAF 8.1
  - TOGAF Certification
  - Summary

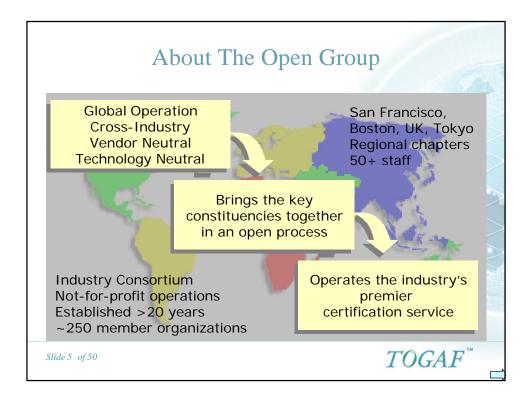
Slide 3 of 50

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# Agenda

- The Open Group
- The Architecture Forum
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Slide 4 of 50



# Mission and Strategy

- Mission:
  - Drive the creation of Boundaryless Information Flow.
- Strategy:
  - Work with customers to capture, understand and address current and emerging requirements, establish policies and share best practices.
  - Work with suppliers, consortia and standards bodies to develop consensus and facilitate interoperability, to evolve and integrate open specifications and open source technologies;
  - Develop and operate the IT industry's premier certification service and encourage procurement of certified products.

Slide 6 of 50

## **Activities**

- · Certification Services
  - For specifications of The Open Group and other consortia
- Conferences
  - Quarterly member meetings
  - Architecture Practitioners Conferences
- Member Forums and Technical Working Groups
  - Architecture,
  - Management,
  - Grid Enterprise Services, Identity,
  - "Jericho" (de-perimiterisation)
  - Messaging, Platform,
  - Real Time & Embedded,
  - Security, UDEF, SOA,
  - Semantic Interoperability





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# Forums/Work Areas of The Open Group

- Meeting points for Suppliers and Buyers
- Each Forum is effectively an autonomous consortium operating within The Open Group
  - Direction determined by members
  - Outputs approved by members
  - Must obey some rules to respect anti-trust legislation
- Forums initiate new areas of work, often in partnership with other Forums
  - ...leading to industry standards
  - ...leading to certification programs based on those standards

Slide 8 of 50

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Slide 9 of 50

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## Architecture Forum – Vision

- An effective open framework and method for architecture
- Architecture as a professional discipline
- Adequate "Commercial Off-The-Shelf" architecture tools

Slide 10 of 50

## Stakeholders and Value

- Customer Architects
  - reduced time, cost, risk
- · Tools Vendors
  - bigger market, bigger market share
- IT Solution Vendors
  - greater cost-efficiency
- Integrators
  - greater cost-efficiency, better service
- Academic / Research Organizations
  - funding support

Slide 11 of 50

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Slide 12 of 50

# What is an Enterprise?

- 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

Slide 13 of 50

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## What is an Architecture?

- An Architecture is the fundamental organization of something, embodied in:
  - its components,
  - their relationships to each other and the environment,
  - and the principles governing its design and evolution.

Adapted from ANSI/IEEE Standard 1471-2000

Slide 14 of 50

# Architecture Types

- There are four types of Architecture commonly accepted as subsets of Enterprise Architecture
  - Business (Process) Architecture
  - Data Architecture
  - Applications Architecture
  - Technology Architecture

Slide 15 of 50

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# Why Enterprise Architecture?

- Effective management and exploitation of information through IT is 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

Slide 16 of 50

# 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

Slide 17 of 50

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# The Importance of Governance

- An Enterprise Architecture is only as good as the decision making framework that is established around it → "governance" framework
- The Governance Framework depends on
  - Clear authority structure
  - The right participants



Slide 18 of 50

# What do we mean by Governance?

- The way in which decisions are made
- Who is responsible?
- Who is involved?
- · Who is accountable?

Slide 19 of 50

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Slide 20 of 50

### What is an Architecture Framework?

- An architecture framework is a toolkit which can be used for developing a broad range of different architectures.
- It should describe a method for designing an information system 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.

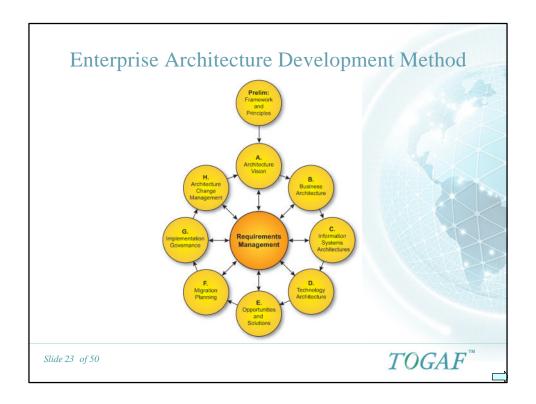
Slide 21 of 50

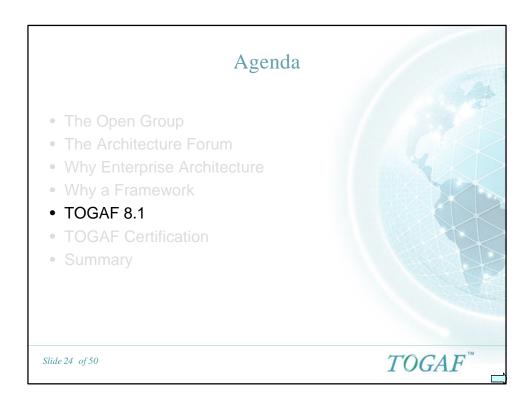
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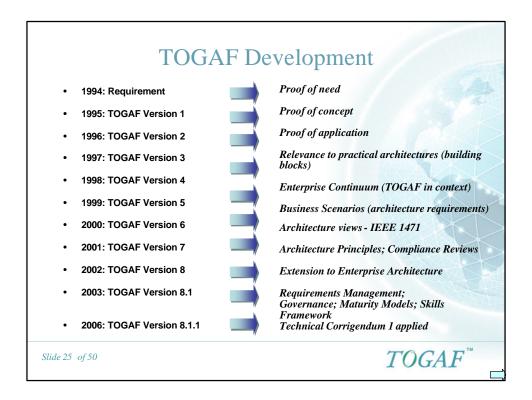
#### The Value of a Framework

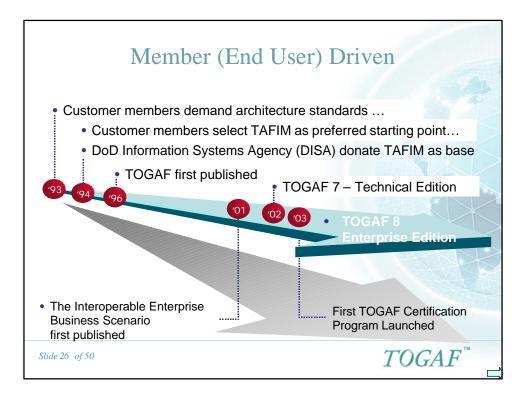
- Provides a practical starting point for an Architecture Project
  - Avoids the initial panic when the scale of the task becomes apparent
  - Systematic "Codified common sense"
  - Captures what others have found to work in real life
  - Contains a Baseline set of resources for reuse
  - Foundation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

Slide 22 of 50









# **TOGAF Scope**

- TOGAF emphasizes business goals as architecture drivers, and provides a repository of best practice.
- · It includes:
  - the TOGAF ADM, an iterative approach to planning, designing, realizing, and governing the architecture
  - reference architectures that provide a set of templates for an organization to adapt to their specific requirements
  - a resource base.

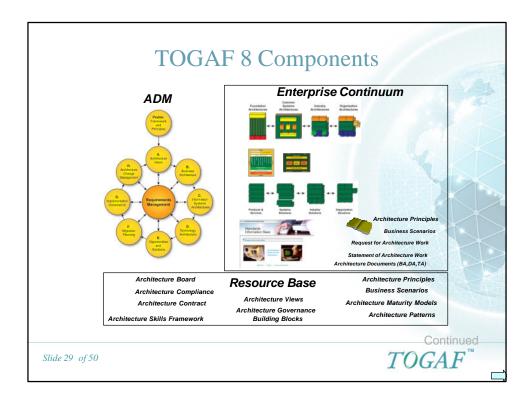
Slide 27 of 50

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#### **TOGAF 8 Goals**

- Long-term:
  - An industry standard, generic enterprise architecture method....
  - ....usable in conjunction with frameworks having products relevant/specific to particular sectors.
    - Several frameworks have mind share:
      - Zachman, Spewak, DoD Framework, FEAF, TEAF, ...
    - · Almost all focus on products, not method
    - TOGAF and.... (not TOGAF or....)
- Version 8:
  - An overall structure and core method for enterprise architecture that can be filled out in future years.

Slide 28 of 50

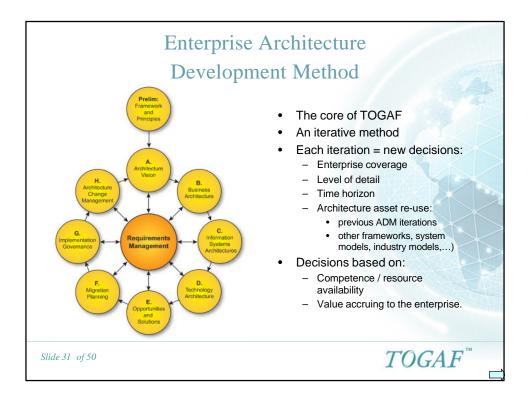


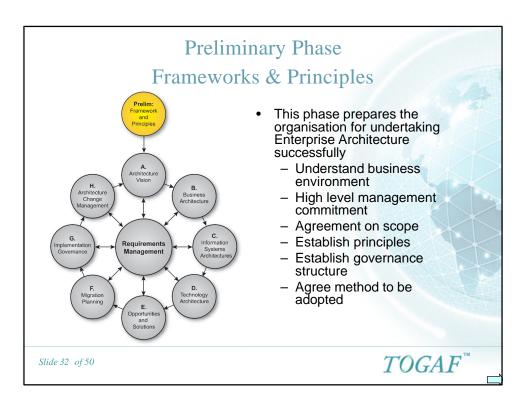
# **TOGAF 8 Components**

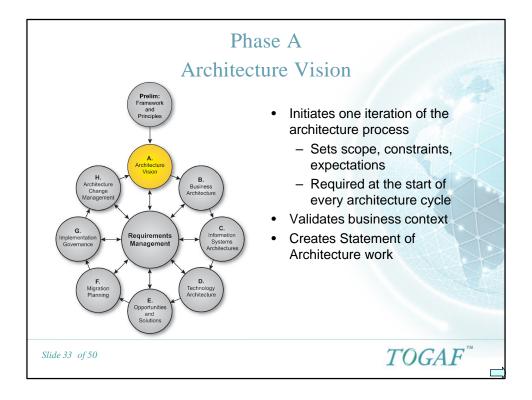
- Architecture Development Method (ADM)
  - An iterative sequence of steps to develop an enterprise-wide architecture
- The Enterprise Continuum
  - During application of the ADM, assets are created or drawn from existing assets, used, modified and returned to the *virtual repository* that is the Enterprise Continuum
- Resource Base
  - During application of the ADM, processes, templates, checklists and other items from the Resource Base are deployed as methods to develop the architecture

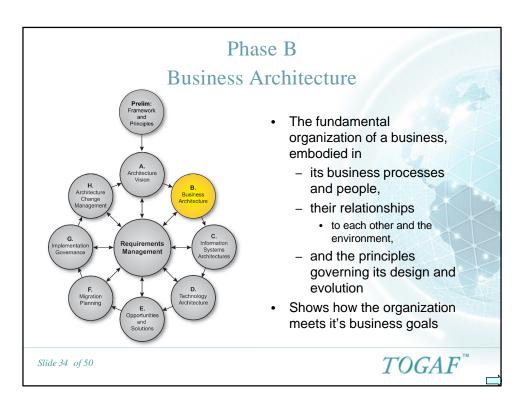
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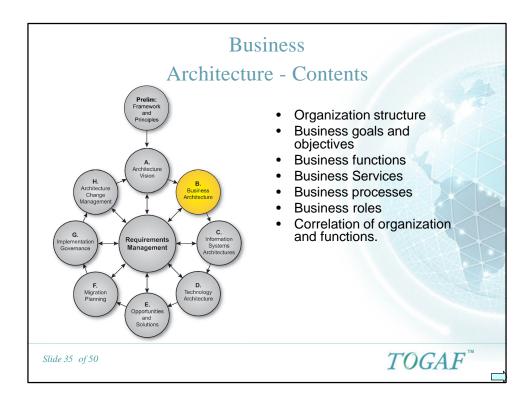
Slide 30 of 50

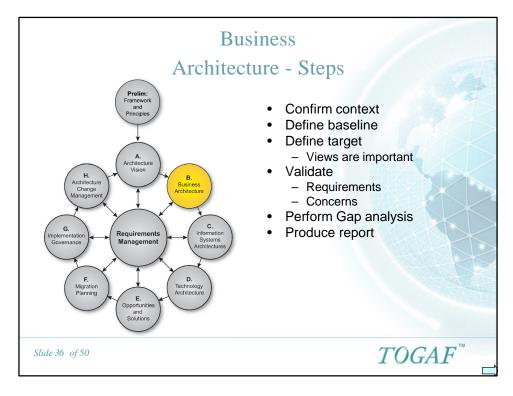


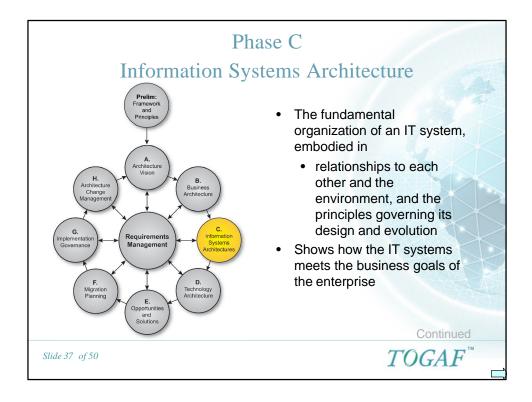


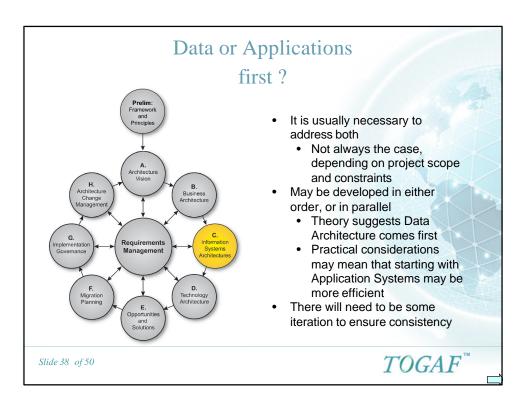


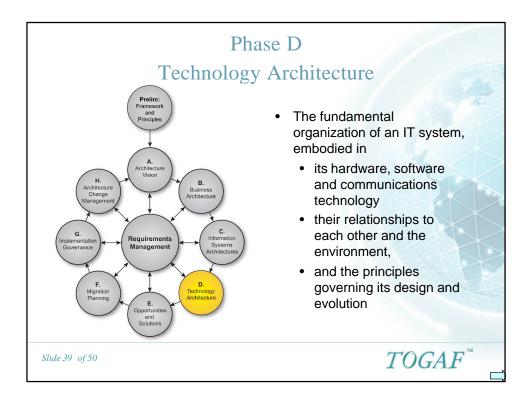


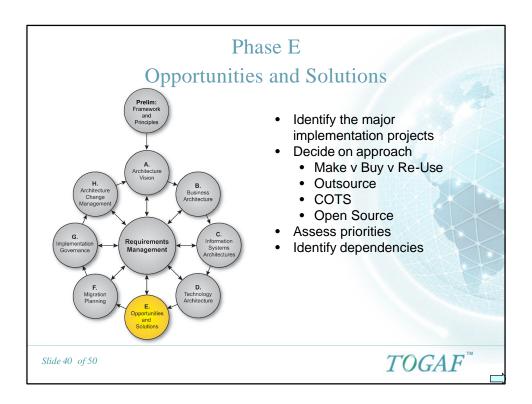


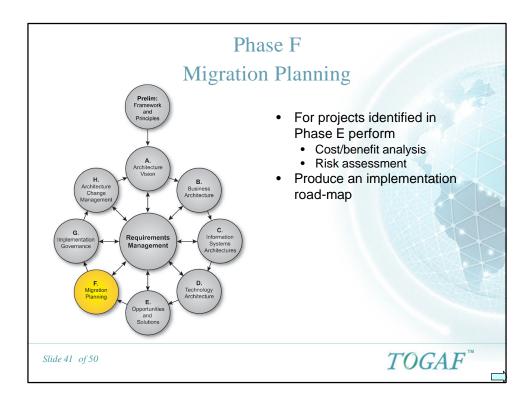


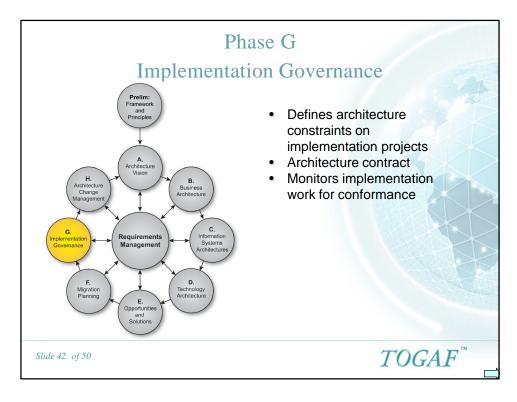


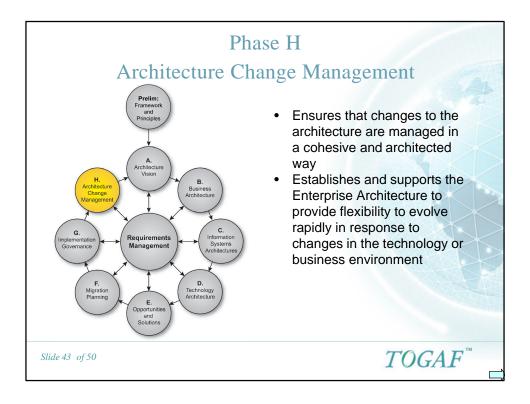


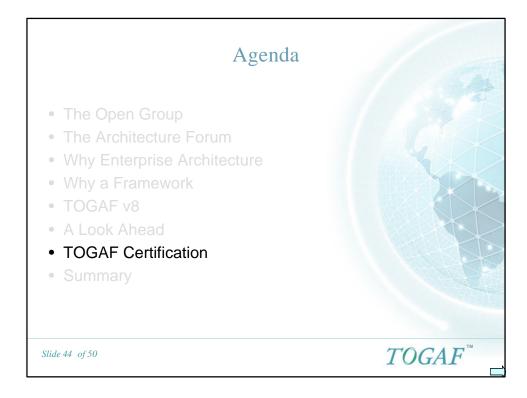












TOGAF Certification			
TOGAF 8 Certified	For Individuals	Knowledge based	
TOGAF 8 Training	For organizations providing training courses	Course syllabus meets requirements. Instructor certified	
TOGAF 8 Professional Services	For organizations providing professional services	Abide by code of practice. Services provided by certified Architects	
TOGAF 8 Tool Support	For organizations providing tools	The tool supports the TOGAF ADM	
Slide 45 of 50 TOGAF <sup>™</sup>			

# Some Figures about TOGAF

- Developed by 200+ organisations worldwide involved in its development
  - Large IT users
  - IT vendors
  - System Integrators
  - Academics
- Used in major IT projects worldwide
  - IBM, EDS, HP, Sun, Infosys, .....
- Community of knowledgeable TOGAF practitioners
  - More than 1750 certified
- Supported by Architecture Tools

Slide 46 of 50

# **TOGAF 8 - Recent Developments**

- Hewlett-Packard's internal IT used TOGAF8 in its recent successful merger with Compaq
- Raytheon integrating TOGAF8 into its REAP methodology
- Sun Microsystems incorporating TOGAF8 into a composite best-ofbreed of EA frameworks
- TOGAF8 supported in the Troux/Metis, ProFroma/ProVision, and Telelogic/System Architect architecture tools
- Collaboration with Raytheon and MITRE Corporation to map TOGAF8 to DODAF
- Collaboration with OMG and Integration Consortium to map TOGAF8 to OMG's Model Driven Architecture (MDA)
- TOGAF8 Certification Program launched February 2004
- >1500 TOGAF certified individuals to date

Slide 47 of 50

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## Agenda

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- The Architecture Forum
- Why Enterprise Architecture
- Why a Framework
- · TOGAEVS
- A Look Ahead
- Summary

Slide 48 of 50

# TOGAF 8 Summary

- 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
  - "Demystifies" architecture development
- · Vendor, tool, and technology neutral
- A framework and method for achieving the "Boundaryless Information Flow" vision

Slide 49 of 50

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## For More Information . .

- The TOGAF Web Site
  - <a href="http://www.opengroup.org/togaf/">http://www.opengroup.org/togaf/</a>
- The Architecture Forum
  - http://www.opengroup.org/architecture/
- TOGAF Version 8 on-line
  - http://www.opengroup.org/architecture/togaf8-doc/arch/
- TOGAF Version 8 licensing and downloads
  - http://www.opengroup.org/togaf/

Slide 50 of 50

#### TOGAF Standard Courseware 8.1.1 Edition

