TOGAF™ and The Open Group Architecture Forum

Robert Weisman, MSc, PEng, PMP, CD
CEO/Principal Consultant
Robert.weisman@buildthevision.ca
1-613-841-5118 (Office)
1-613-222-1219 (Cell)

Strategic Planning
Enterprise Architecture
Training and Certification

THE Open GROUP
Making standards work®

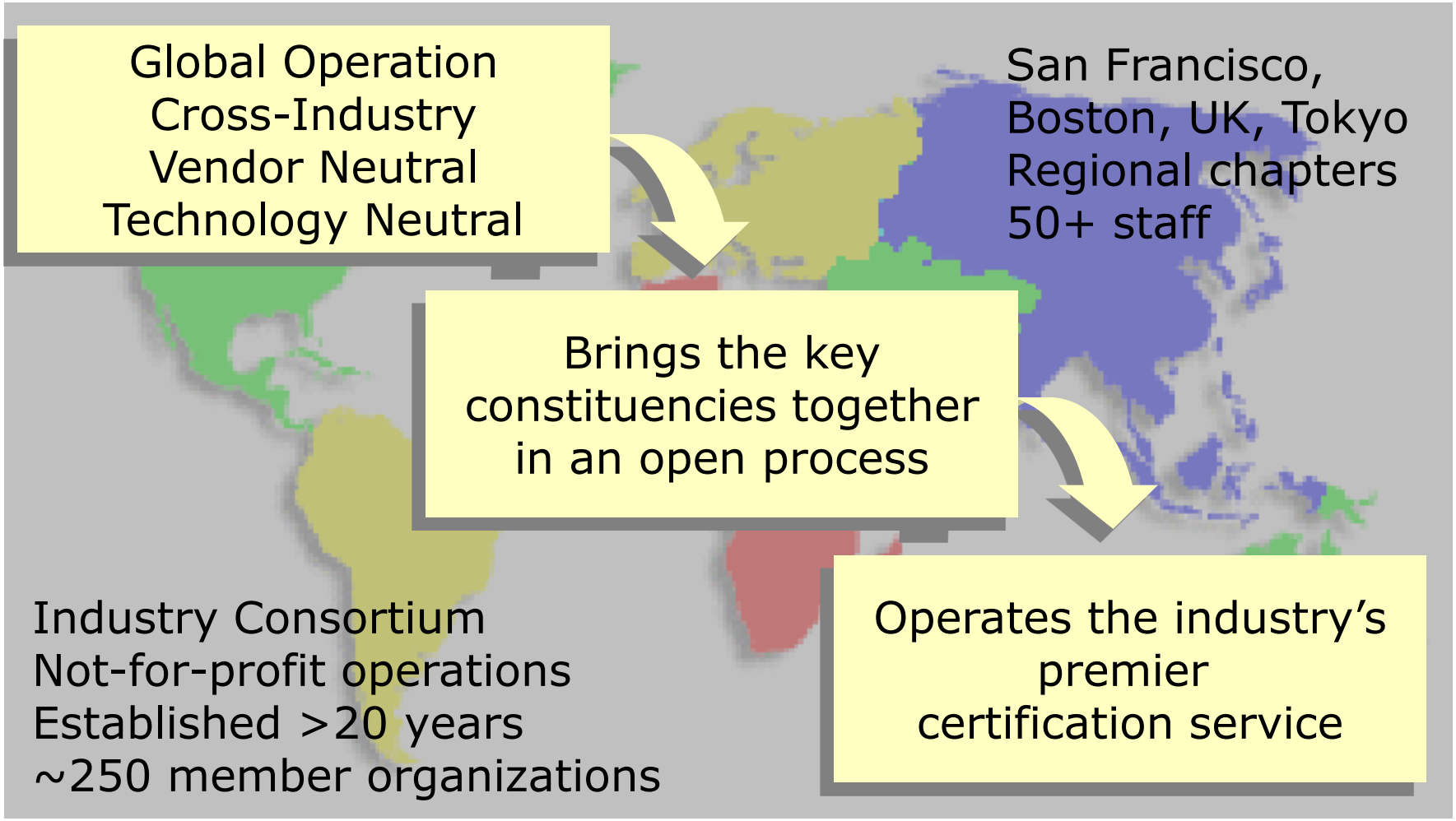
Agenda

- The Open Group
- The Architecture Forum
- TOGAF
  - Background
  - TOGAF 8 “Enterprise Edition”
  - A look ahead to the next revision of TOGAF
- Summary

The Open Group

THE Open GROUP
Making standards work®

About The Open Group



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.

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
  - Adaptive Business Solutions, Architecture,
  - Business Architecture,Management
  - Grid Enterprise Services, Identity,
  - Jericho Forum (de-perimiterization)
  - Platform,
  - Real Time & Embedded,
  - Security, UDEF, SOA,
  - Semantic Interoperability

Forums/Work Areas of The Open Group

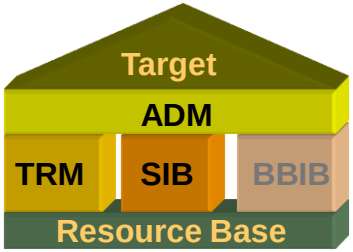
- Meeting points for Suppliers and Buyers
- Each Forum is effectively an autonomous consortium operating within The Open Group
  - Direction determined by members
  - Outputs approved by members
  - Must obey some rules to respect anti-trust legislation
- Forums initiate new areas of work, often in partnership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

The Architecture Forum

THE Open GROUP
Making standards work®

Architecture Forum - Focus

- Original (and continuing) focus:
  - TOGAF



TOGAF

- Extended focus:
  - Architecture as a Professional discipline
  - Architecture Tools

Stakeholders and Value

- **Customer Architects**: **Reduced time, cost, risk**
  - procuring effective IT architecture tools
  - developing an IT architecture
  - procuring products to implement an IT architecture
- **Tools Vendors**: **Bigger market, bigger market share**
  - supporting open methods for architecture
- **IT Solution Vendors**: **Greater cost-efficiency**
  - reduced cost of bidding, greater share of procurements
- **Integrators**: **Greater cost-efficiency, better service**
  - better service delivery to clients
  - more effective use / re-use of own architecture assets
- **Academic / Research Organizations**: **Funding support**
  - demonstrated relevance to market, route to standardization
  - “technology transfer” important in bids for funding

206 current members **52 new** **8 terminations**

Membership List – Sept 30th, 2008

Aalders Analysis & Design Pty Ltd
ABIO bv
Accenture
ACORD Corporation
act! Consulting
ADP, Inc.
AIPEX Pty Ltd
alfabet AG
Allied Irish Bank
American Express
Analytix Holdings
APL Limited
Applied Technology Solutions
Architecting-the Enterprise
Arismor
Armscor
Armstrong Process Group, Inc.
Austin Energy
Bank of Montreal Financial Group
BEA Systems Inc.
Bealigned CVBA (Belgium)
BearingPoint, Inc.
Bizzdesign Holding BV
Bodo University College
Boehringer Ingelheim
Boeing Corporation (US)
BP International
British Telecom
Build the Vision
Business Connexion
C and C Technology (UK)
CA, Inc.
Capgemini Limited
Capita IT Services (UK)
Cardiff University
Casewise, Inc.
CC and C Solutions (Australia)
CEISAR
Celestial Computing Services (UK)
Centre For Open Systems (Australia)
CGI
Cisco Systems, Inc.
CLARS
Companhia Vale do Rio Doce
Data Access Technologies
Datamine
Deccan Global Solutions LLC
Dept for Works & Pensions (UK)
Desktop Management Task Force
Detecon International
Devoteam Consulting
Deloitte Consulting, LLP
Discover Financial Services LLC
Digterra (Pty) Ltd
EA Global Ltd
EDS
Elegant Group
Eli Lilly (UK)
Elparazim
Enbridge, Inc
Energetics
Enterprise Architects Ltd
Equinox Limited
Eskom Holdings
Fannie Mae
Flashmap Systems, Inc.
FEAC Institute
Focus On The Family
France Telecom
Fujitsu (Japan)
Fundani Computer Systems
Future Tech Systems
Getronics
Grant MacEwan College

THE Open GROUP
Making standards work®

206 current members **52 new** **8 terminations**

Membership List – Sept 30th, 2008

Griffiths Waite
GTECH Corporation
Heck Consulting
Hewlett-Packard (US)
HighMark
Hi-Q Systems Ltd
Hornford Associates
Hotel Technology Next Generation
HSBC Bank Plc
IBM
ICMG PRIVATE LTD
IDS Scheer AG
Infosys (India)
Infovide (Poland)
Innenministerium NordRhein-Westfalen
INSPIRED
Intel Corporation
Intercall, Inc
Integration Consortium
Investec
ISES International B.V
IT Advisor, Inc
IT Frontier Corporation
Iwate Prefectural University
Joint Information Systems Committee
Kamehameha Schools
Johnson and Johnson
Kings College London
Knotion Consulting
Kynetia Networks S.L.
La Poste
Lawrence Technological University
Learning and Skills Council
Letsema Consulting
Liverpool John Moores University
Lockheed Martin (US)
MANTIX LIMITED
Marathon Oil (US)
Marriott International (US)
MEGA International (US)
Metaplexity Associates
MIT Lincoln Laboratory
MITRE Corporation (US)
Mitsubishi Corporation
Mizuho Information & Research
Molimax
N2 Services Inc.
NASA Jet Propulsion Labs (US)
NASA Scientific & Engineering Workstation - Procurement (SEWP)
National Computerization Agency (Korea)
National E-health Transition Authority - NEHTA (Australia)
National IT and Telecom Agency
National University of Singapore
NEC Corporation
Nissan Motor Co., Ltd
Nomura Research Institute
Norwegian University of Science & Technology
NTT Data Corporation
NYS Office Of Temporary & Disability Assistance
Object Management Group
Open GIS Consortium, Inc (US)
Orbus Software
Oslo Software (France)
Parity Training
Penn State University/Applied Research Lab
plenum ManagementConsulting GMBH
PricewaterhouseCoopers LLC
Principal Financial Group
Procter & Gamble Company
Proforma Corporation

THE Open GROUP
Making standards work®

206 current members **52 new** **8 terminations**

Membership List – Sept 30th, 2008

Qualiware (Denmark)
Quick Response Systems
Raytheon (US)
Real IRM Solutions
ReGIS (Japan)
Resilience Corporation
Resultex Limited
Rococo Company (Japan)
Roehampton University
Rolls Royce
Royal Insitute of Technology, Stockholm
Royal Phillips Technology
SAP
SASOL (South Africa)
Satyam Computer Services
SCC
SDT
Schools Interoperability Framework
Serono International SA
Shift Technologies
Shenzhen Kingdee Middleware Co.Ltd
SIOS Technology, Inc
Smart 421
SNA Technologies Inc
Solvera Solutions
Sparx Systems
State Services Commission
State Information Technology Agency
SUN Microsystems
Swiss Federal Department of Finance
Symantec Corp
Systems Flow, Inc.
T2b
Tata Consultancy Services
Teamcall
Telelogic/Popkin Software (US/UK)
Telemanagement Forum (US)
Telkom S.A
Tenfold, Inc
Telephone and Data Systems
The Salamander Organisation
Tieturi OY
Tonex
Total System Service Inc
Toyota Info Technology Centre (Japan)
Treasury Board of Canada Secretariat
TriVector
Troux (US)
Tshwayne University of Technology Unisys (US)
UK MOD
Unisys
University Kyoto (Japan)
University of Cambridge
University of Colorado
University of Denver
University of Johannesburg
University of Pretoria
University of Reading (UK)
University of South Africa
University of Technology, Sydney (Australia)
Veriserve Corporation (US)
Wachovia Bank
White Knight Management (UK)
WiPro (India)
Xantus Consulting

THE Open GROUP
Making standards work®

206 current members 52 new

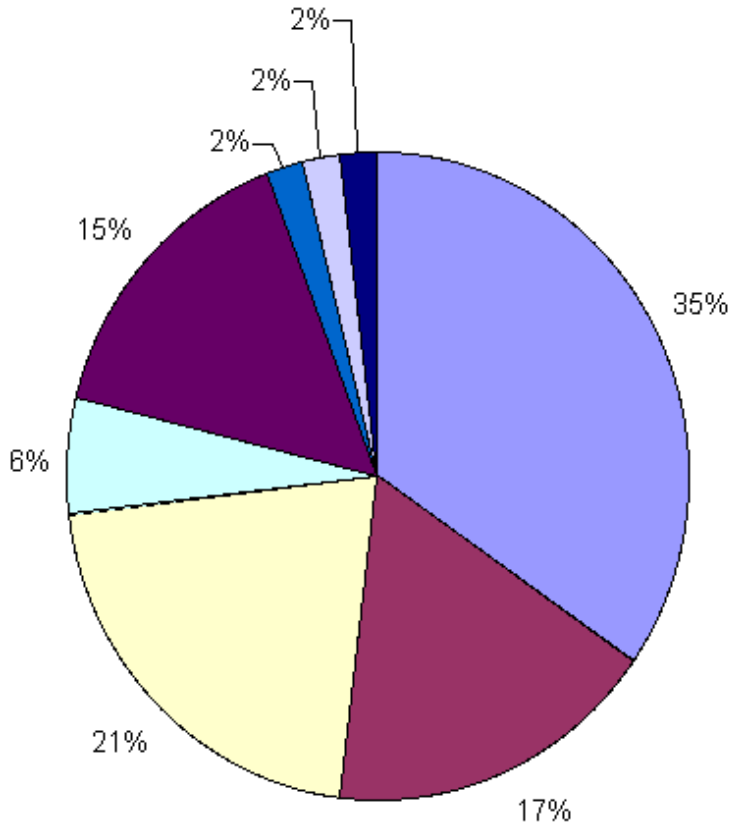
New Members 2008

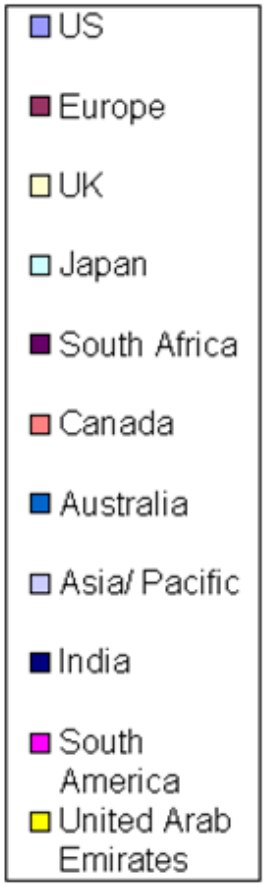
ACORD Corporation
Analytix Holdings
Bodo Univeristy College
Build the Vision
Cardiff University
CEISAR
Cognizant Technology Solutions
Datamine
Deccan Global Solutions LLC
Deloitte Consulting LLC
Digterra (Pty) Ltd
Discover Financial Services LLC
EA Global Ltd
FEAC Institute
France Telecom
IDS Scheer AG
Intel Corporation
Intercall, Inc.
ISES International B.V
IT Frontier Corporation
Iwate Prefectural University
Joint Information Systems Committee
Kamehameha Schools
Kings College London
Knotion Consulting
La Poste
Liverpool John Moores University
Mantix Ltd
Molimax
NTT Data Corporation
ORBUS Software
Parity Training
plenum Management consulting GmBH
Principal Financial Group
Pyrrhus Software
Resultex Limited
Roehampton University
Schools Interoperability Framework
SDT
Shenzhen Kingdee Middleware Co.Ltd
Sogeti S.A.S
Sparx Systems
State Information Technology Agency (PTY) Ltd
Symantec Corp
T2b
Tata Consultancy Services
Telephone and Data Systems
Tieturi OY
Total System Service Inc
triVector
Univeristy of South Africa
Xantus Consulting

THE Open GROUP
Making standards work®

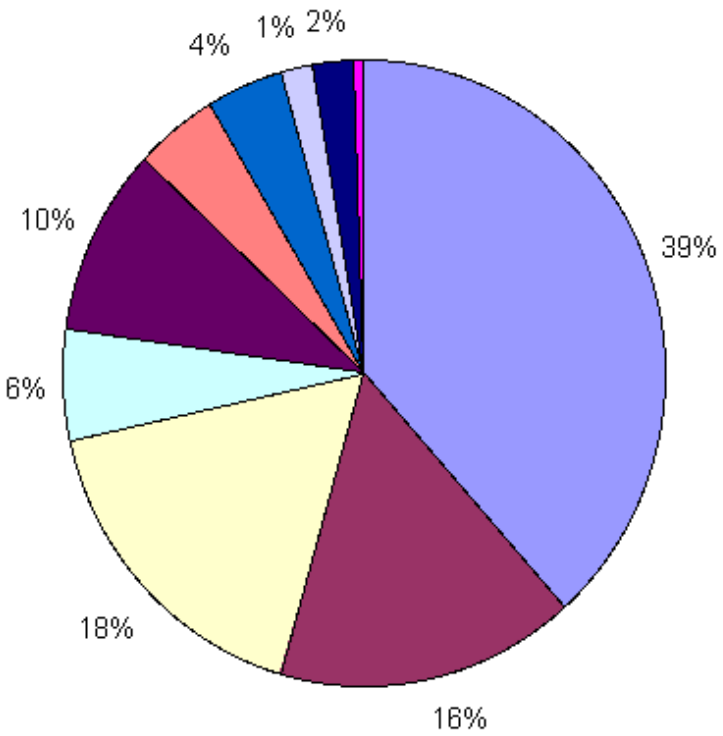
Forum Members – By Geography

New Members 2008



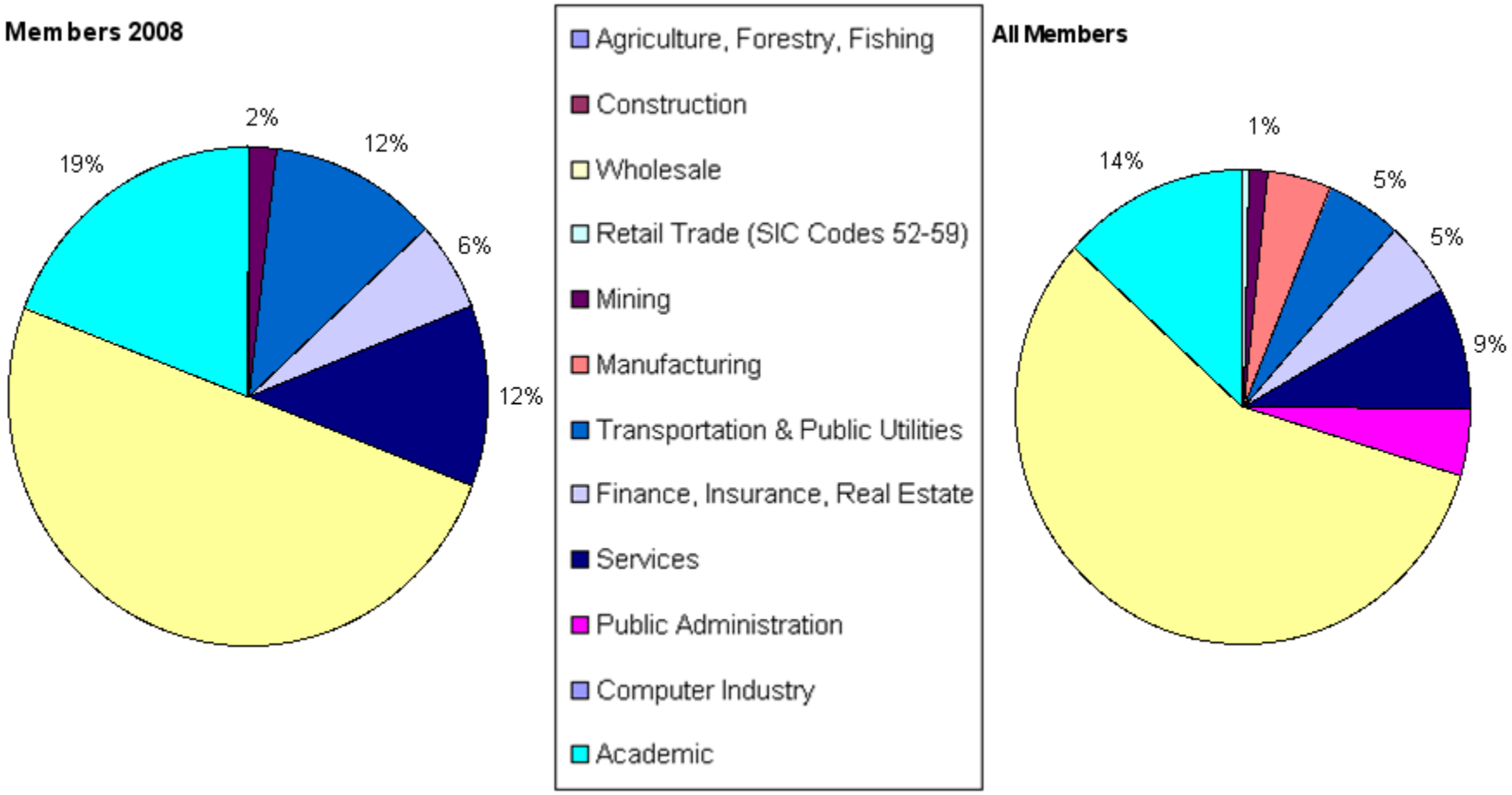


All Members



THE Open GROUP
Making standards work®

Forum Members – By Vertical



THE Open GROUP
Making standards work®

TOGAF 8 “Enterprise Edition”

THE Open GROUP
Making standards work®

TOGAF Origins

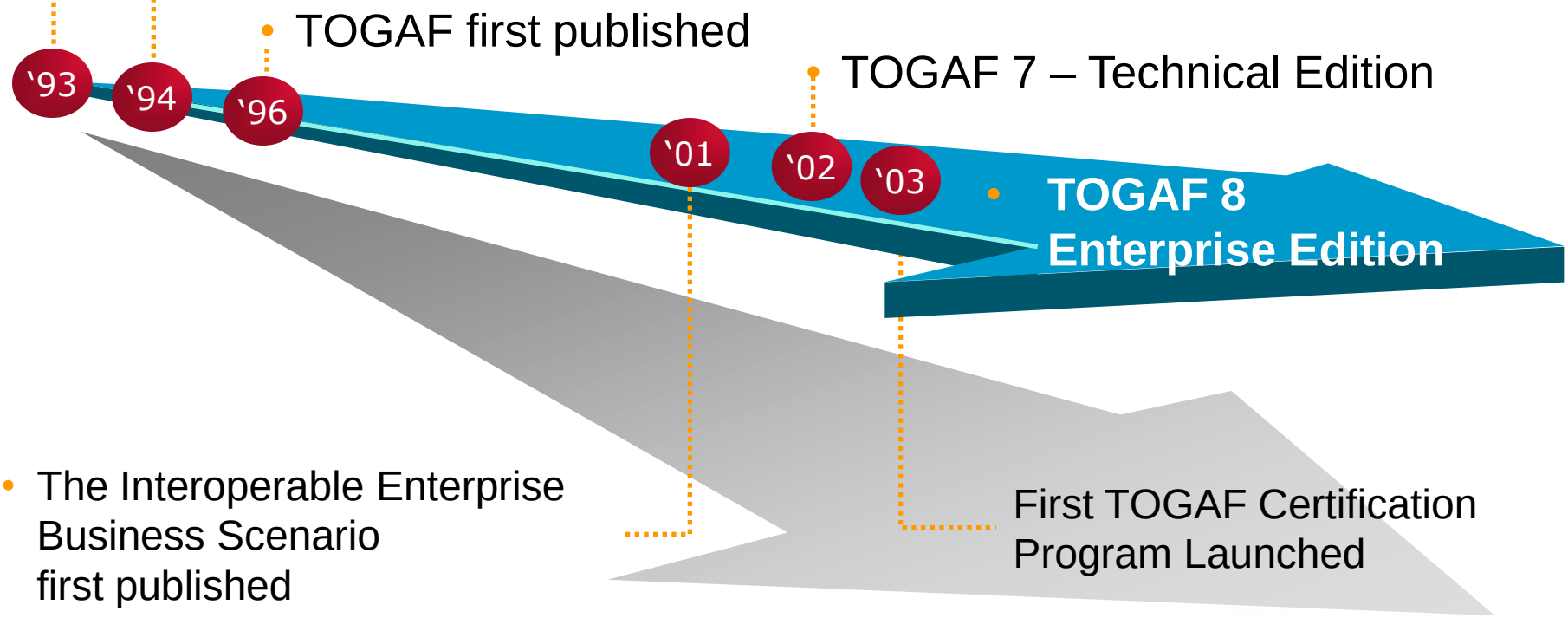
- A customer initiative
- A framework, not an architecture
  - A generic framework for developing architectures to meet different business needs
  - Not a “one-size-fits-all” architecture
- Originally based on TAFIM (U.S. DoD)

Technical Architecture for Information Management

- TAFIM
  - US Department of Defense
  - Rich repository of lessons learned
  - Focus on IM enabled by IT
    - Information needed by clients
- Defence has ongoing need for interoperability
  - Crisis Response
  - Whole range of military operations

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



TOGAF 8 Scope

- TOGAF 8 covers the development of four related types of architecture:
  - Business architecture
  - Data or information architecture
  - Application architecture
  - Technology architecture

TOGAF 8 "Enterprise Edition"

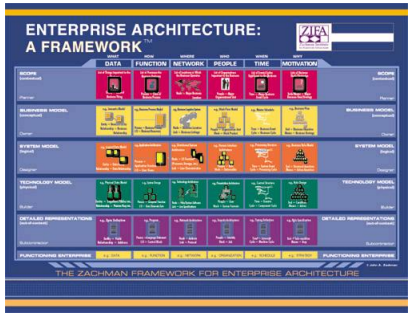
TOGAF 7 "Technical Edition"

TOGAF 8 Goals

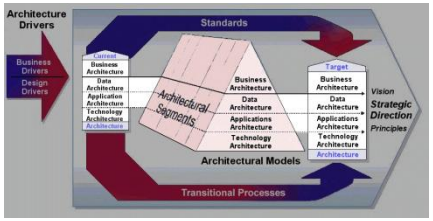
- Long-term:
  - An industry standard, generic enterprise architecture method….
  - ….usable in conjunction with frameworks having products relevant / specific to particular sectors.
    - Several frameworks have mindshare:
      - Zachman, Spewak, DoD Framework, FEAF, TEAF, …
    - Almost all focus 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.

Supporting industry integration

TOGAF

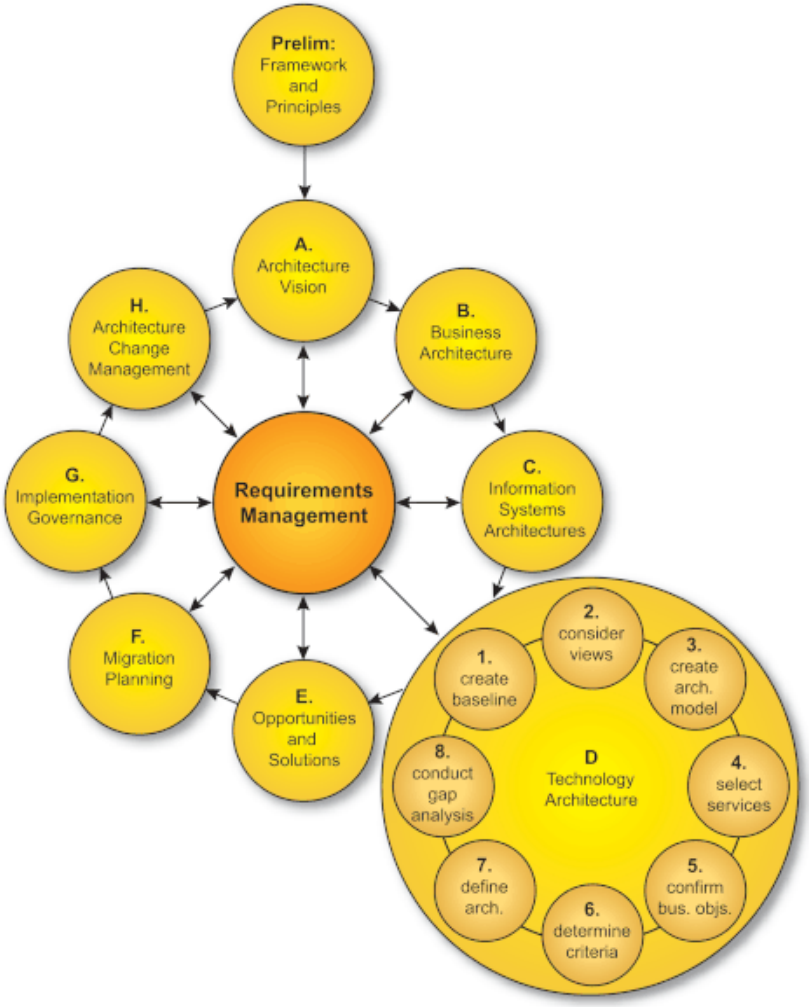


Zachman Framework



Federal Enterprise Architecture Framework

Support or Guidance



TOGAF ADM
Architecture Development Method

Other Frameworks

THE Open GROUP
Making standards work®

TOGAF/ MDA Alignment

- TOGAF ADM
  - Enterprise Architecture Development Method

- TOGAF or any other framework

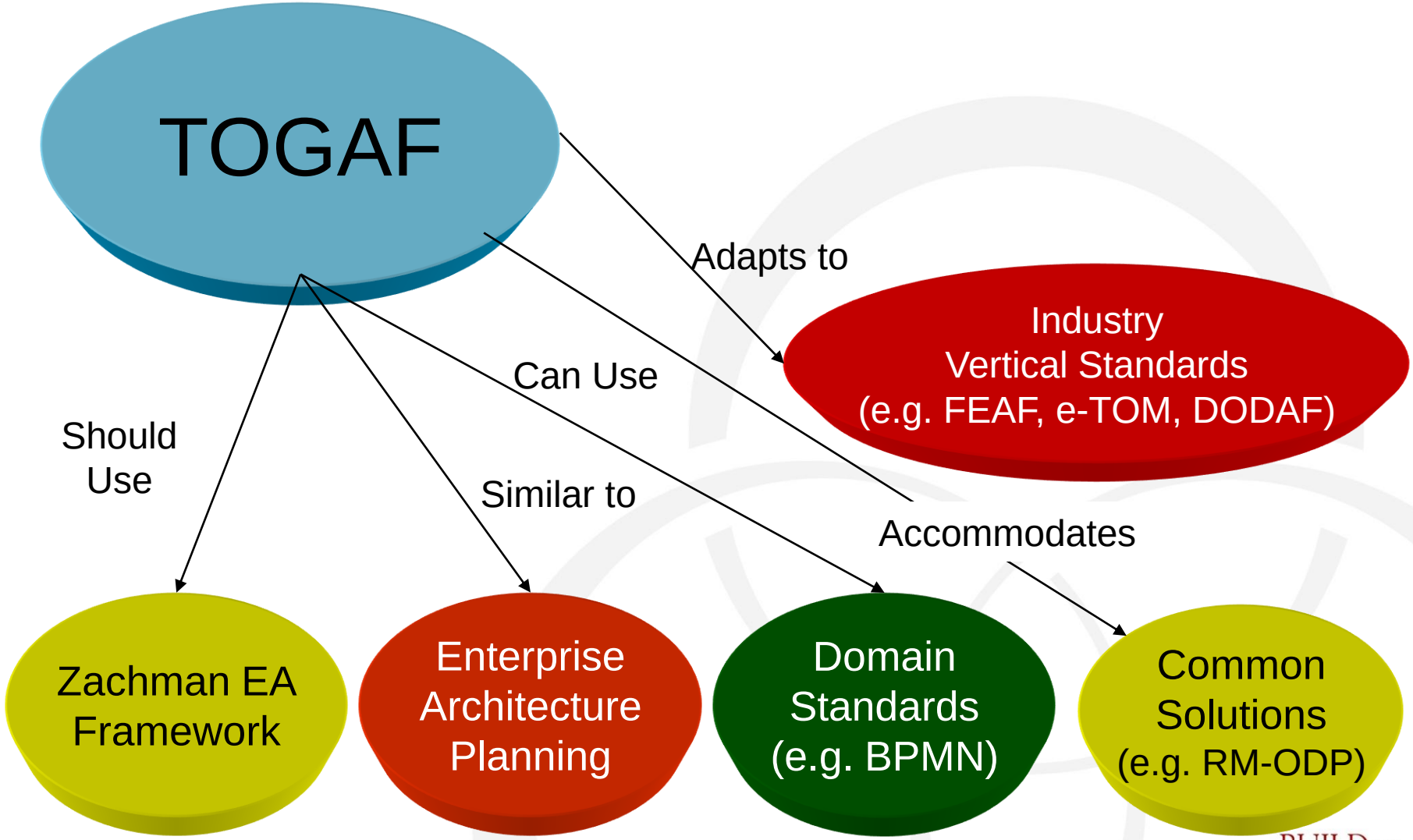
- The OMG Model Driven Architecture
  - A Software Architecture and Development Approach

MODEL DRIVEN ARCHITECTURE™

TOGAF and Other Frameworks / Bodies of Knowledge

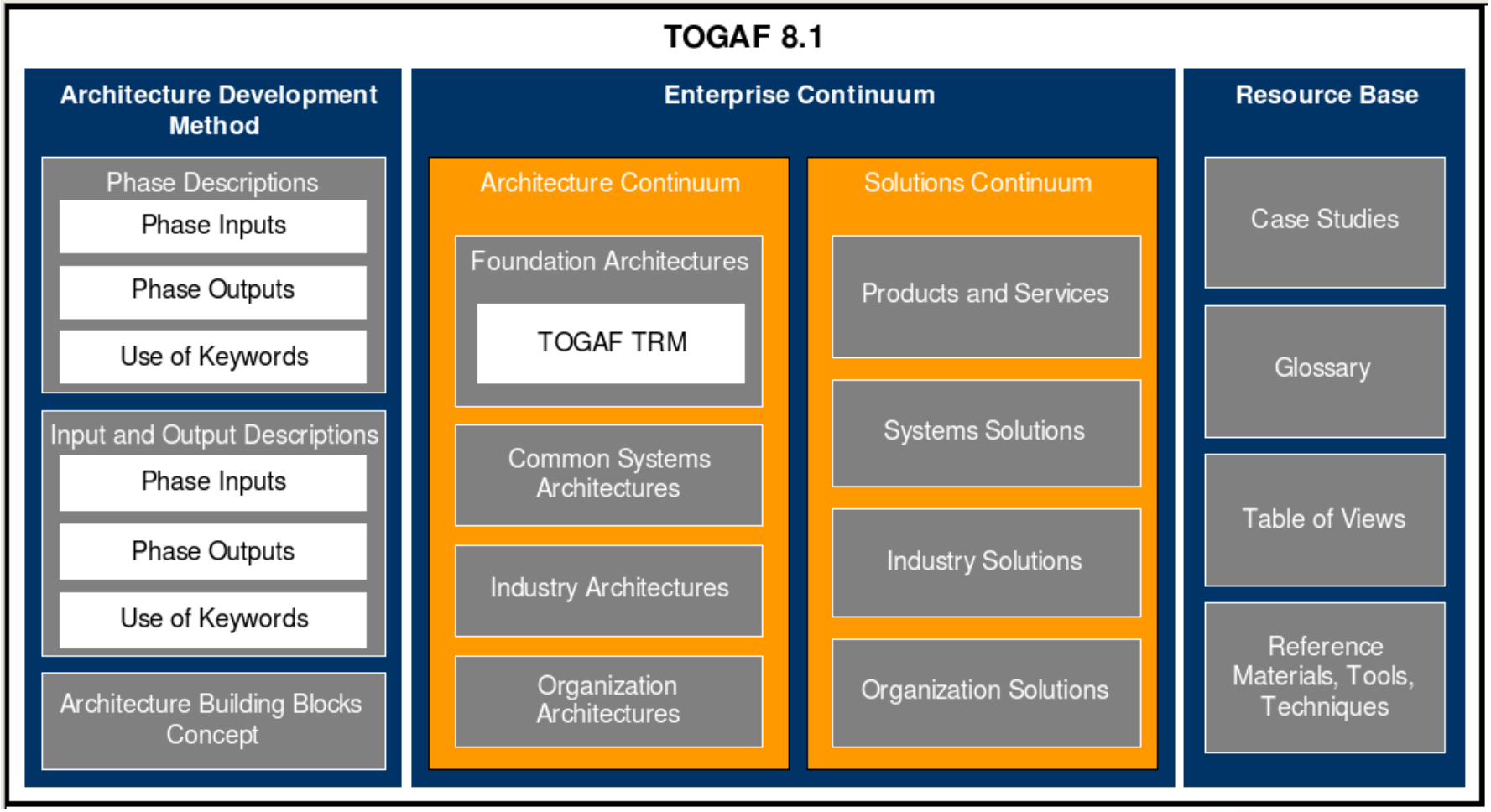
- TOGAF8 already contains mapping to Zachman Framework
- Recent White papers:
  - http://www.opengroup.org/architecture/wp/
  - Mapping TOGAF to OMG's MDA modeling standards
  - Mapping TOGAF8 and DODAF
  - Mapping TOGAF8 and COBIT4
  - Mapping TOGAF8 and ITIL touchpoints

TOGAF and EA Frameworks



BUILD THE VISION

TOGAF 8 Components

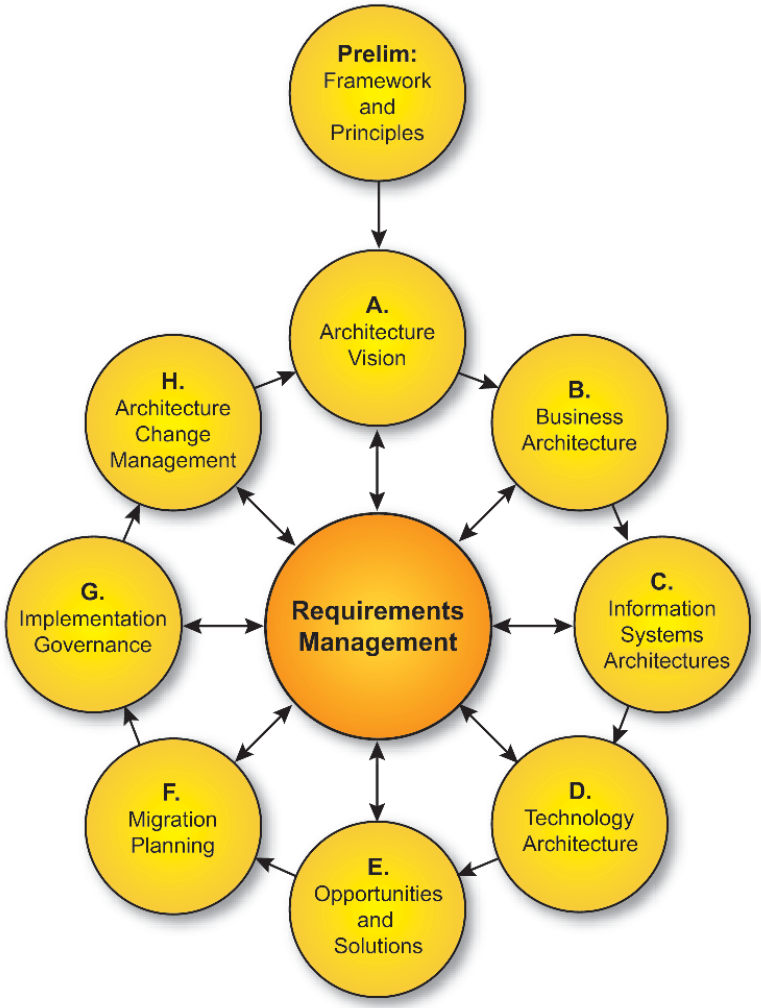


Source: SAP and Capgemini

TOGAF 8 “Enterprise Edition” – Architecture Development Method Overview

THE Open GROUP
Making standards work®

ADM – Basic Principles



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

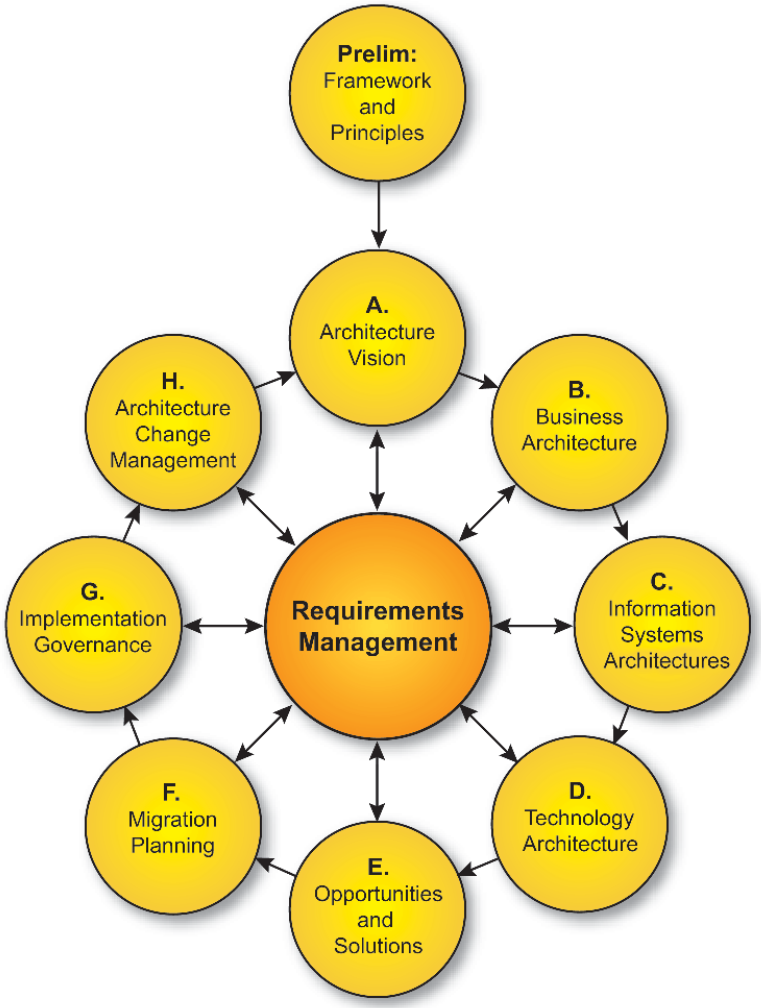
Each iteration = new decisions:

- Enterprise coverage
- Level of detail
- Time horizon
- Architecture asset re-use:
  - previous ADM iterations
  - other frameworks, system models, industry models,…)

Decisions based on:

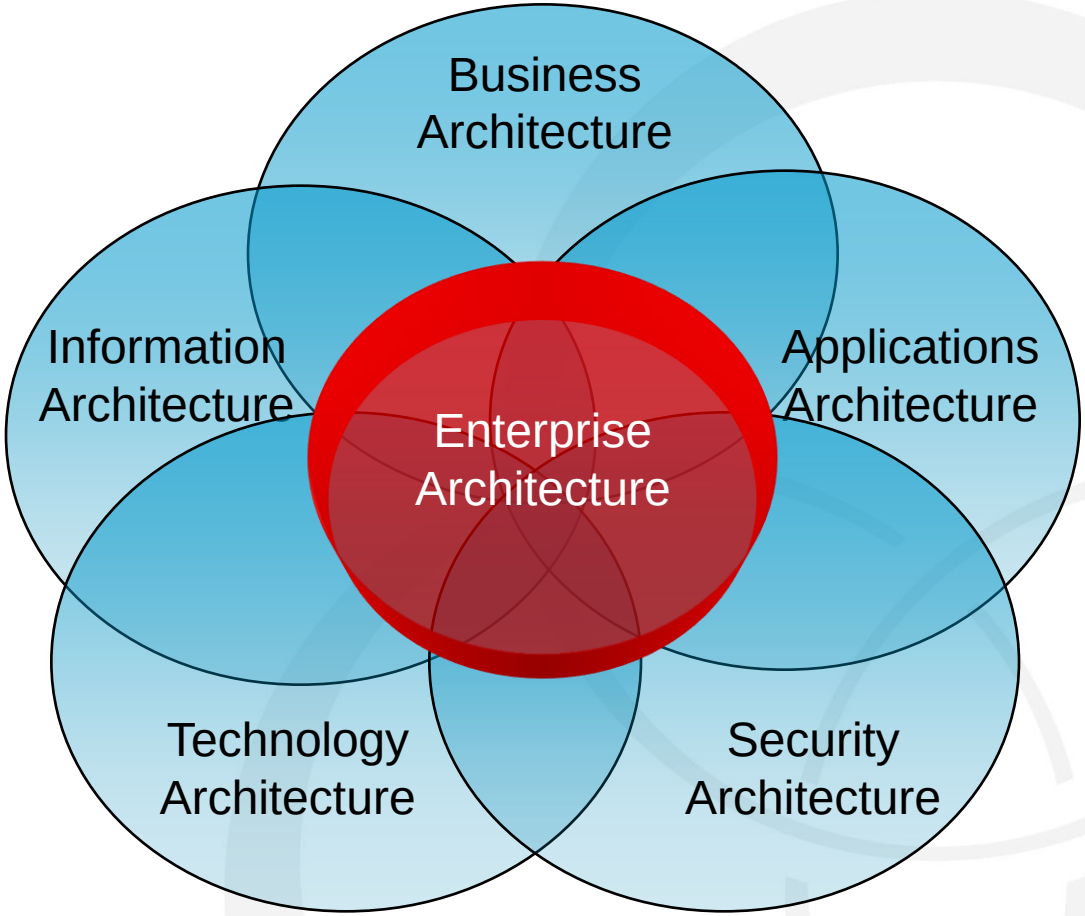
- Competence / resource availability
- Value accruing to the enterprise.

ADM – Basic Principles

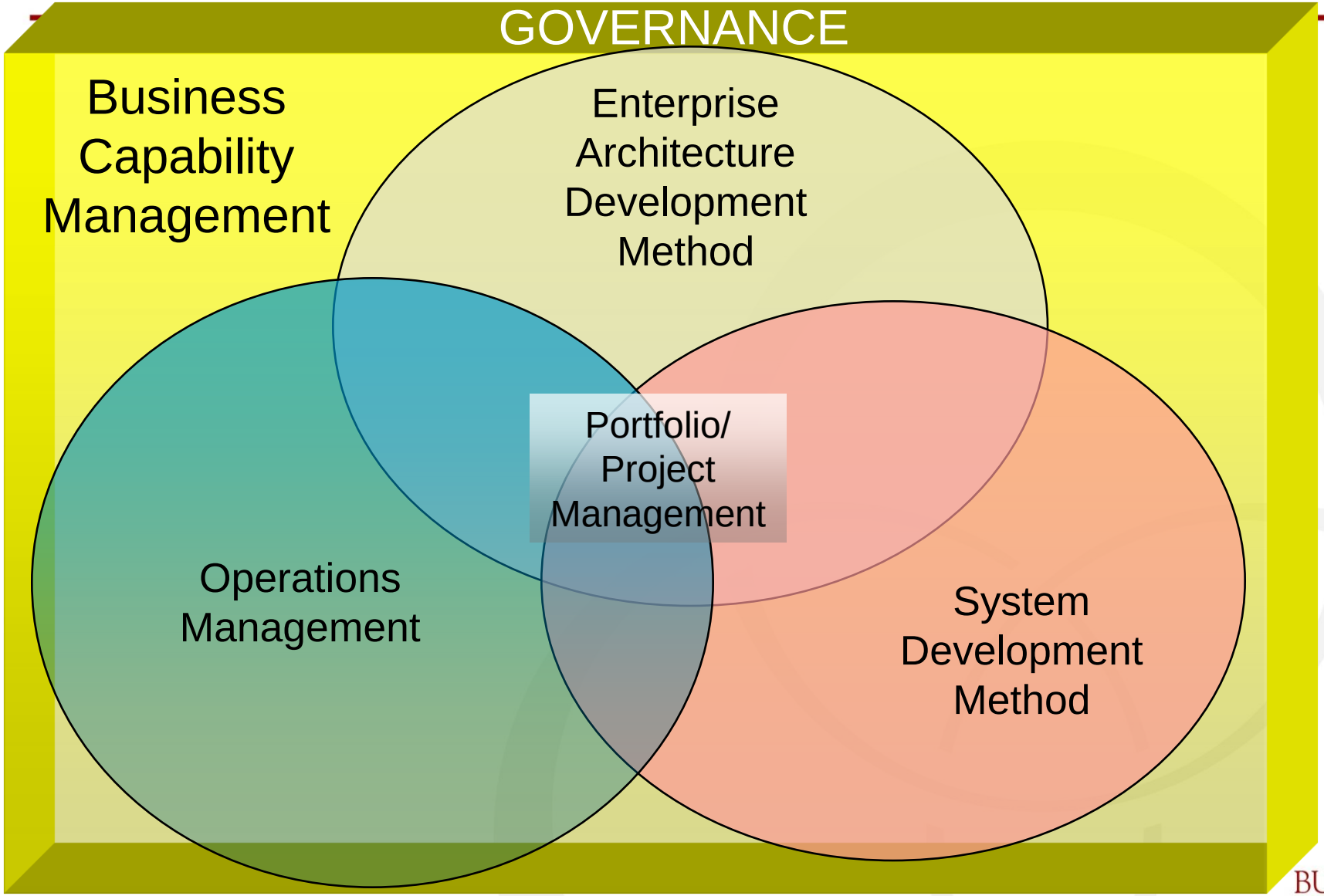


Every phase is validated against and validates the current requirements of the business

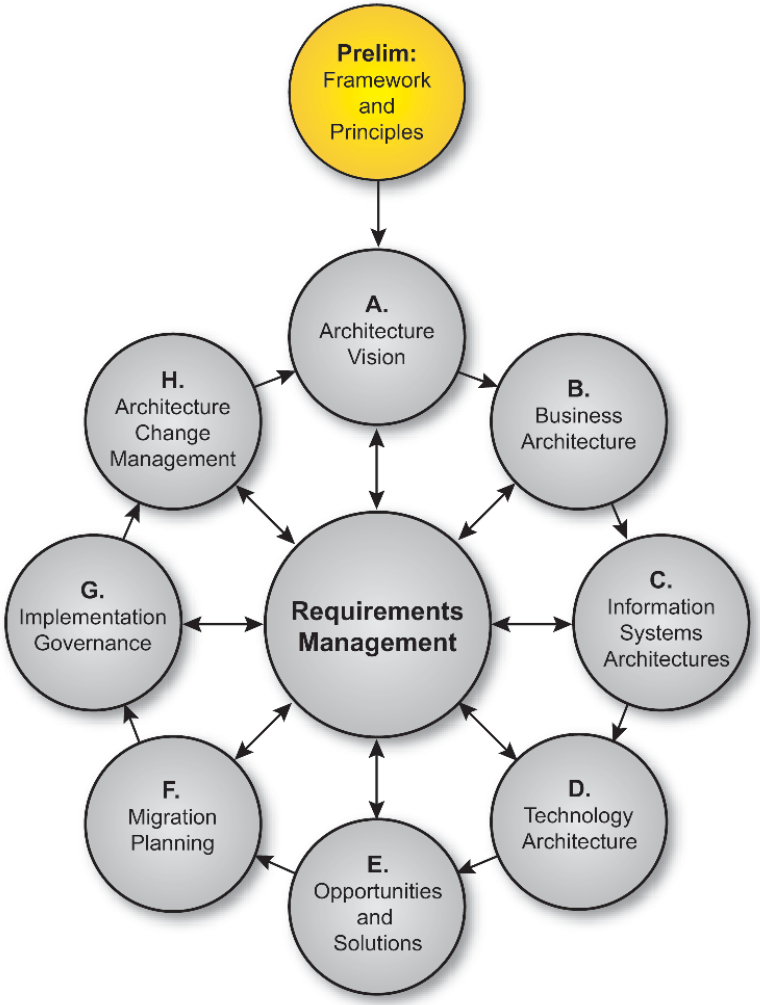
A Way of Looking at EA



EA in Context

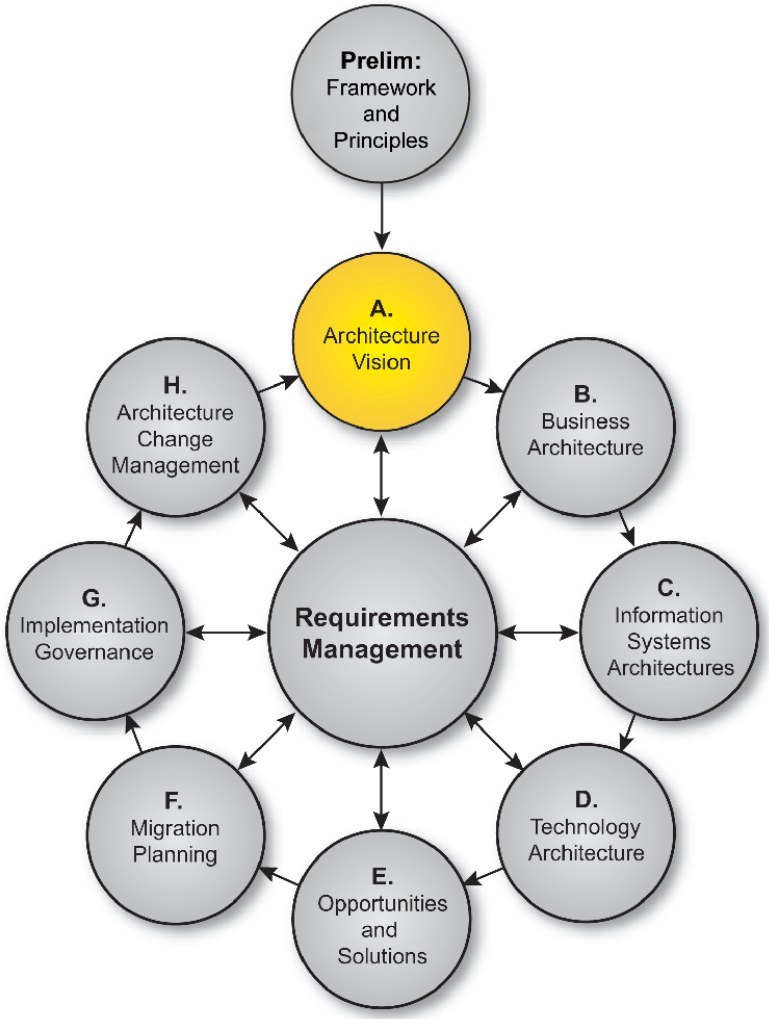


Preliminary Phase: Frameworks & Principles



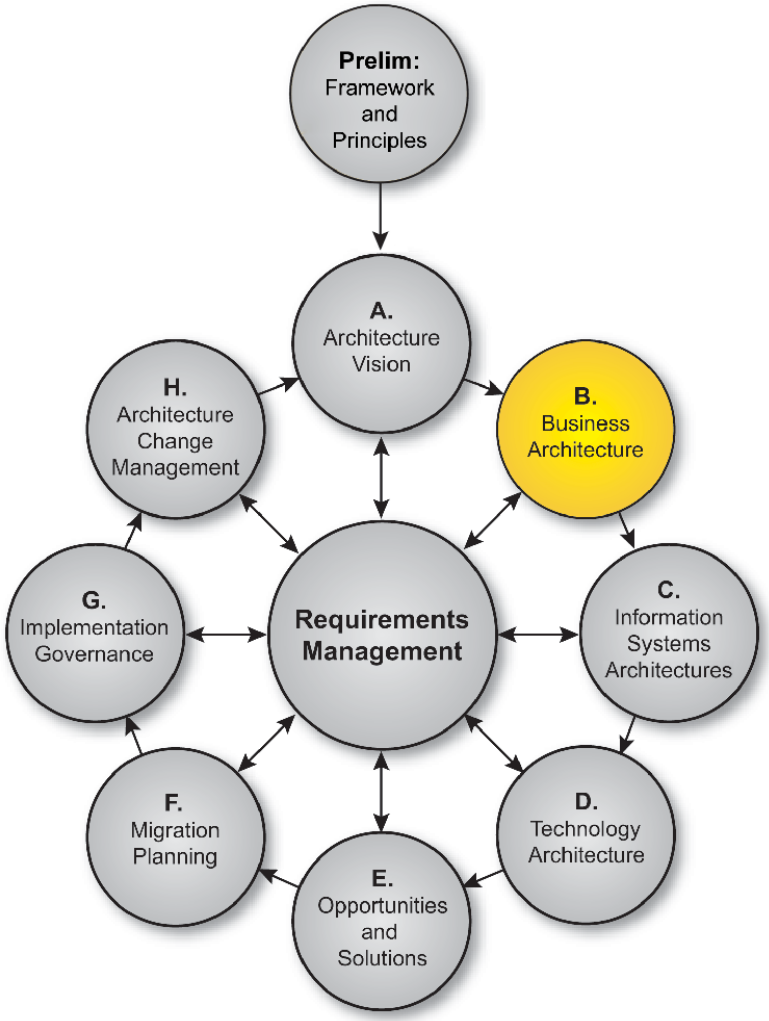
- This phase prepares the organization for undertaking Enterprise Architecture successfully
  - Understand business environment
  - Commitment of key stakeholders
  - Agreement on scope
  - Establish principles
  - Establish governance structure
  - Agree method to be adopted

Phase A: Architecture Vision



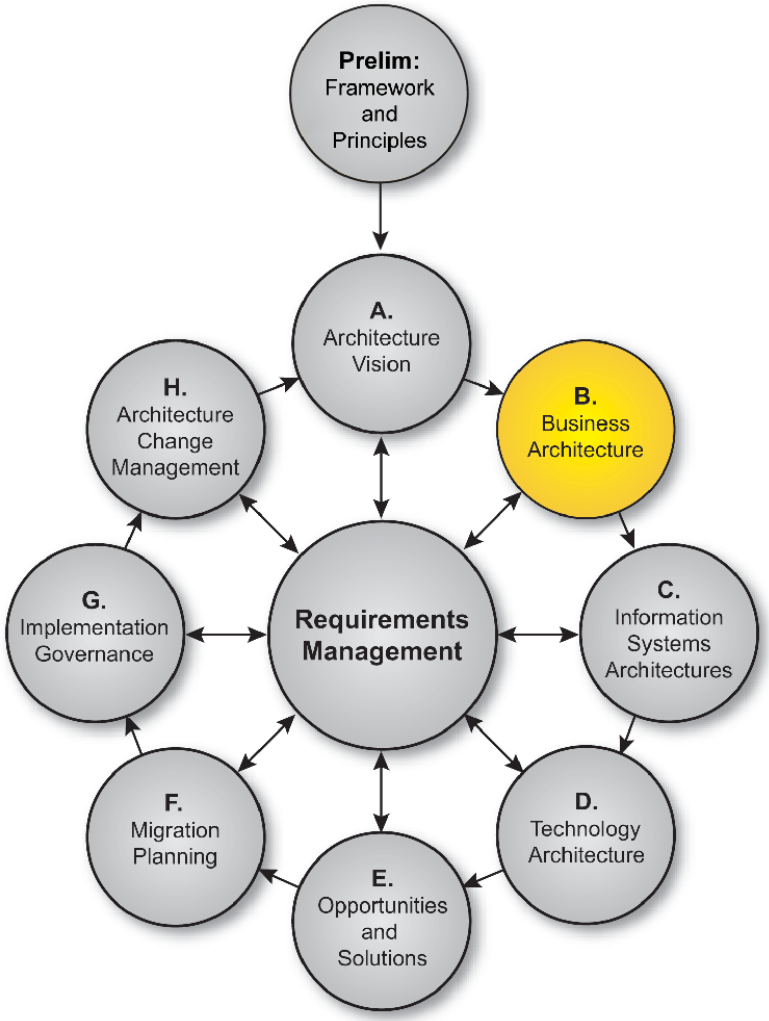
- Initiates one iteration of the architecture process
  - Sets scope, constraints, expectations
  - Required at the start of every architecture cycle
- Validates business context
- Creates Statement of Architecture work

Phase B: Business Architecture



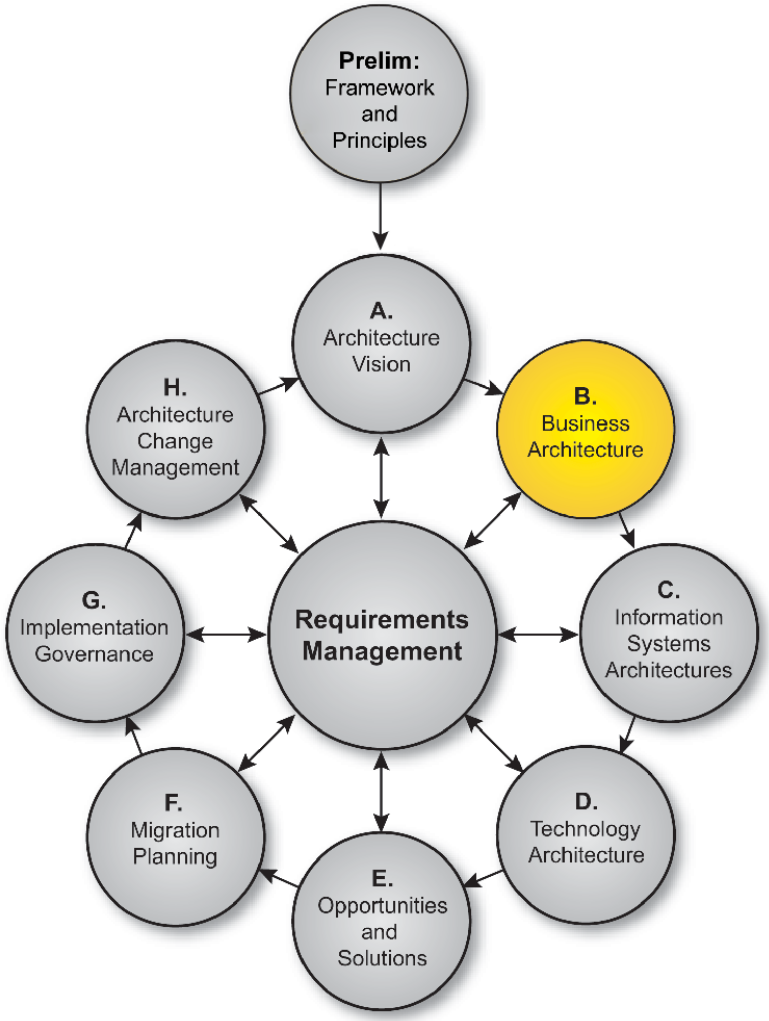
- The fundamental organization of a business, embodied in
  - its business processes and people,
  - their relationships
    - to each other and the environment,
  - and the principles governing its design and evolution
- Shows how the organization meets it's business goals

Phase B:
Business Architecture - Contents



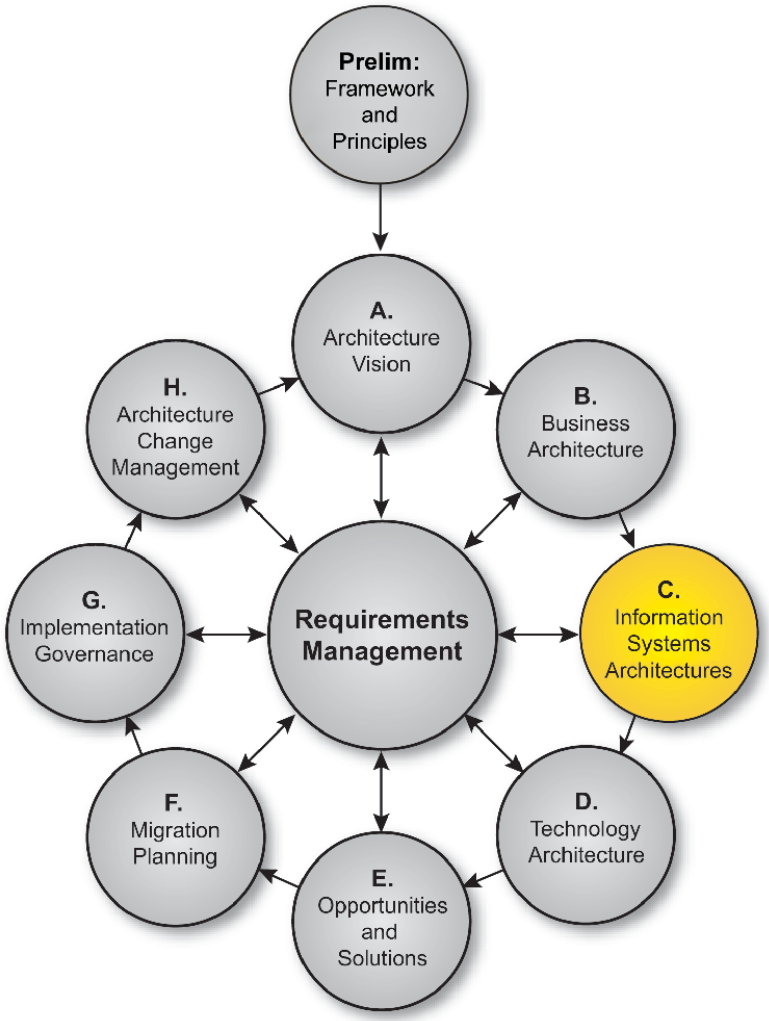
- Organization structure
- Business goals and objectives
- Business functions
- Business Services
- Business processes
- Business roles
- Correlation of organization and functions.

Phase B:
Business Architecture - Steps



- Confirm context
- Define baseline
- Define target
  - Views are important
- Validate
  - Requirements
  - Concerns
- Perform Gap analysis
- Produce report

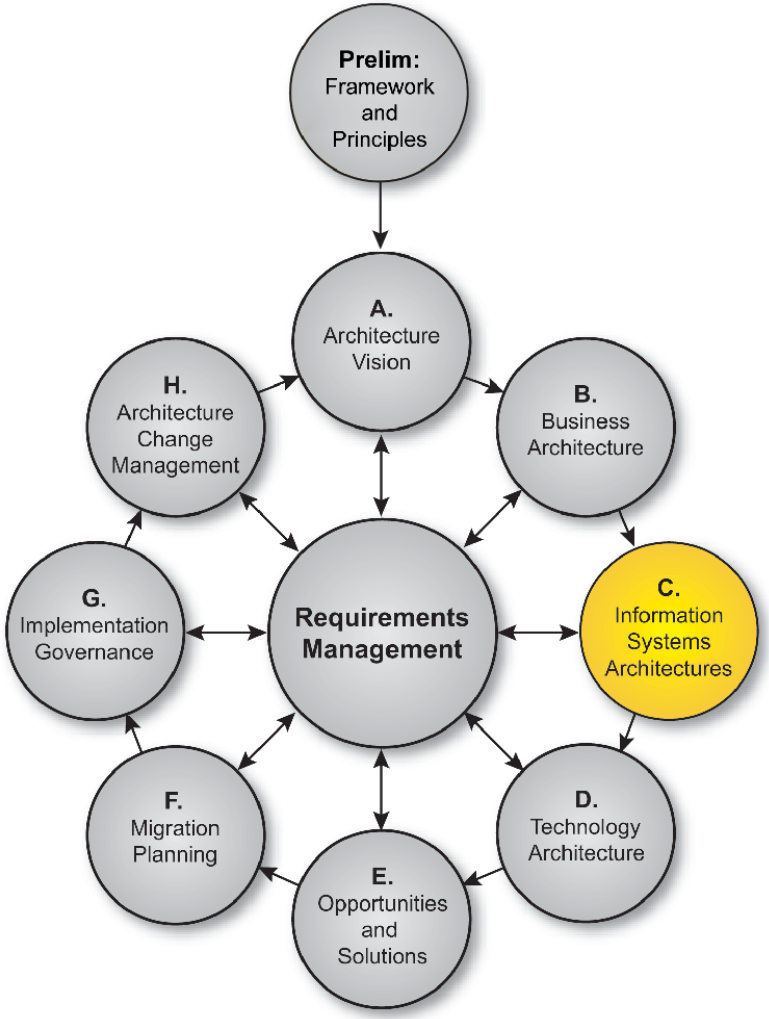
Phase C: Information Systems Architectures



- The fundamental organization of an IT system, embodied in
  - relationships to each other and the environment, and the principles governing its design and evolution
- Shows how the IT systems meets the business goals of the enterprise

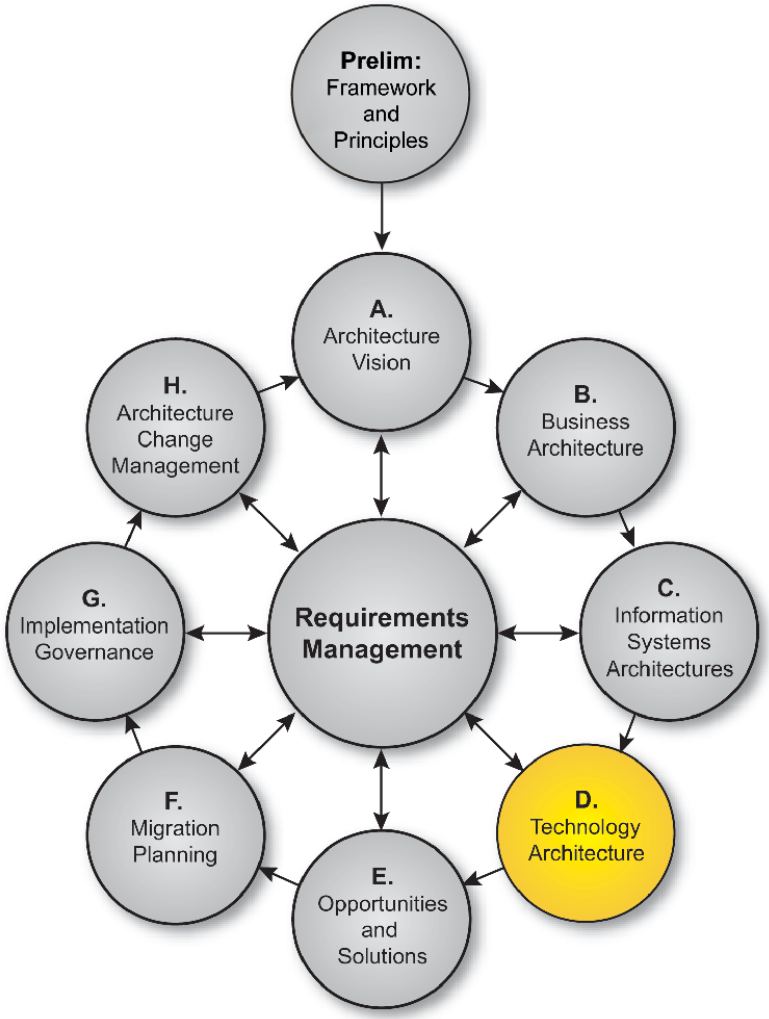
Continued

Phase C:
Data or Applications first ?



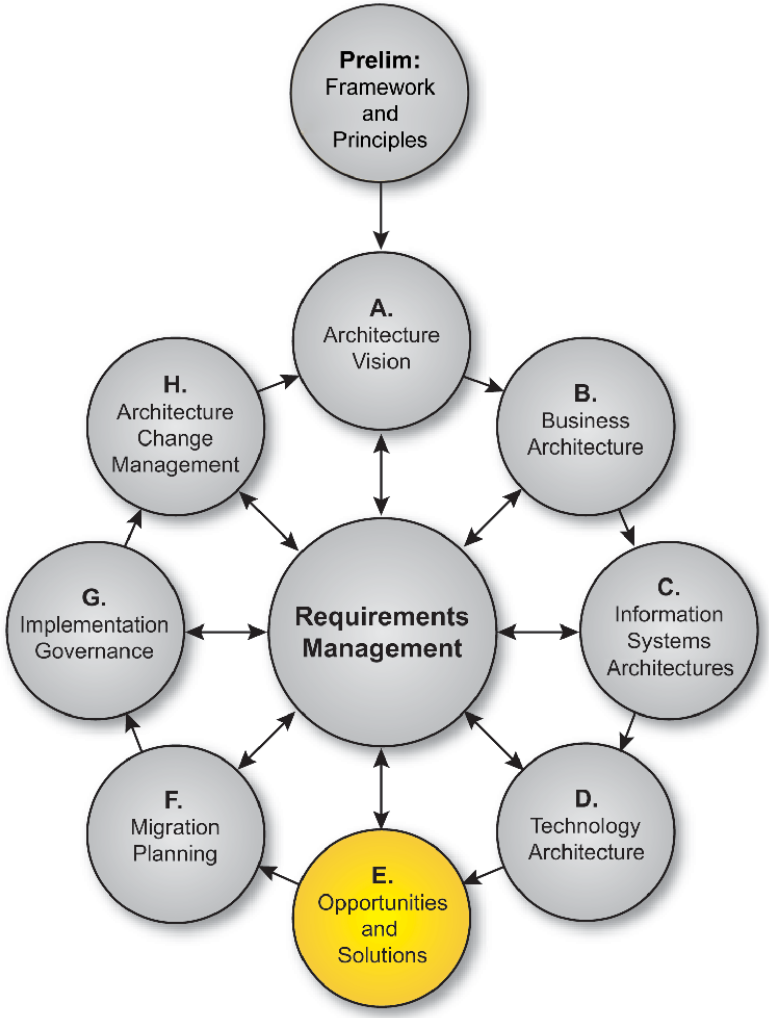
- It is usually necessary to address both
  - Not always the case, depending on project scope and constraints
- May be developed in either order, or in parallel
  - Theory suggests Data Architecture comes first
  - Practical considerations may mean that starting with Application Systems may be more efficient
- There will need to be some iteration to ensure consistency

Phase D: Technology Architecture



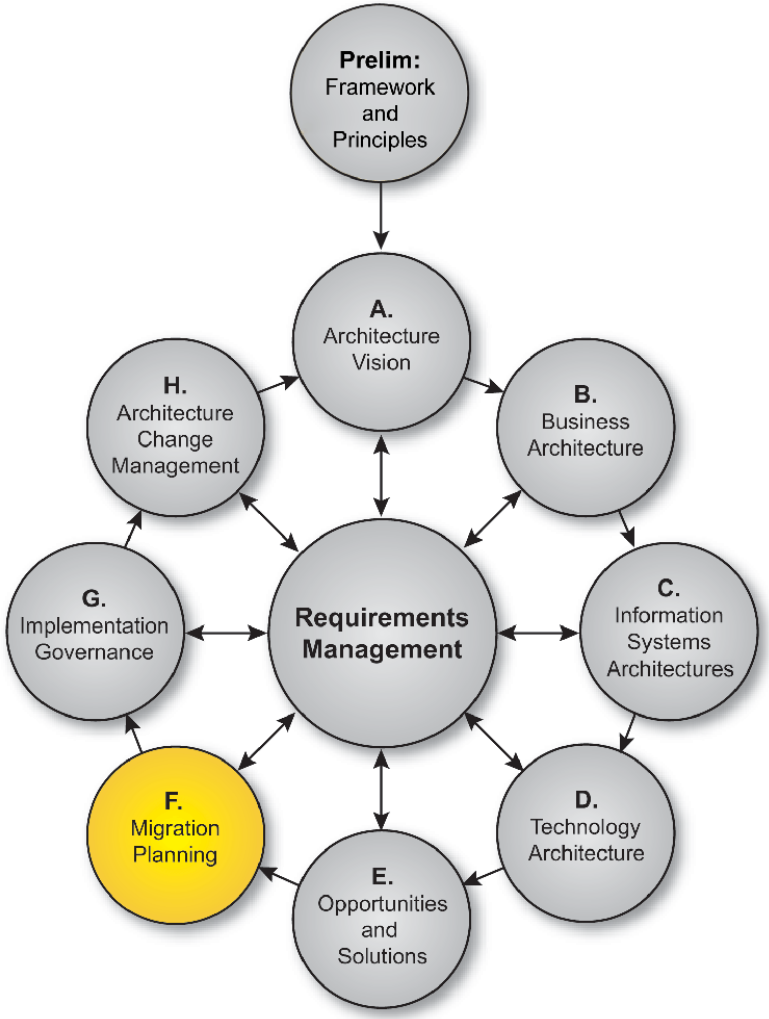
- The fundamental organization of an IT system, embodied in
  - its hardware, software and communications technology
  - their relationships to each other and the environment,
  - and the principles governing its design and evolution

Phase E: Opportunities and Solutions



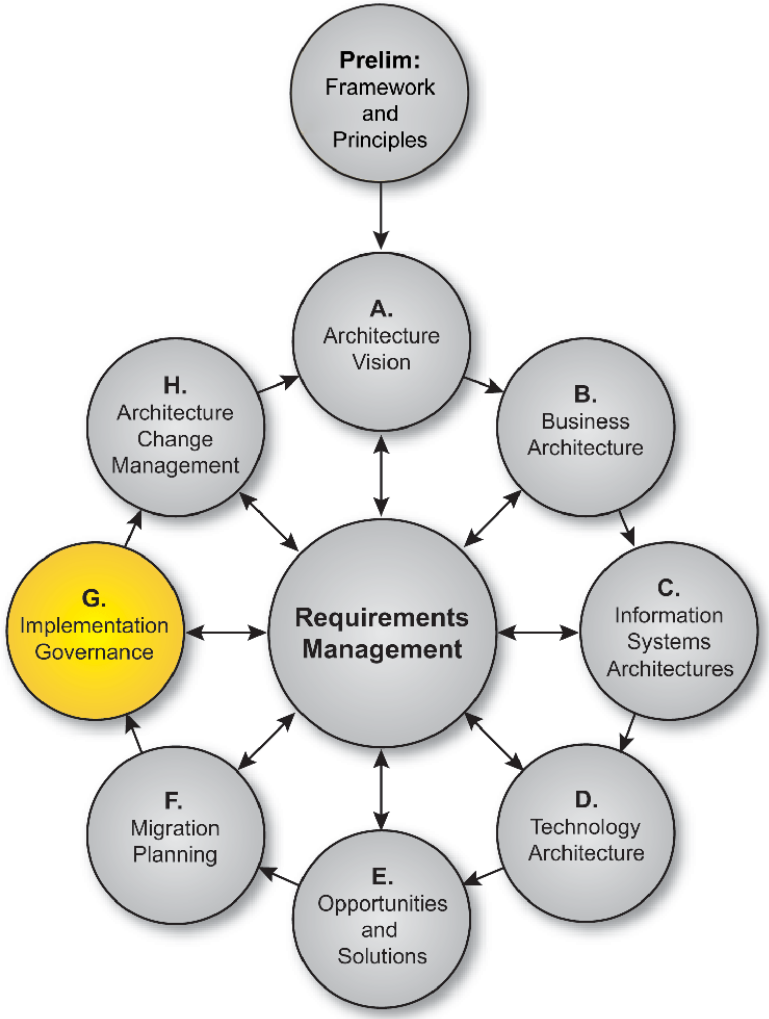
- Identify the major implementation projects
- Decide on approach
  - Make v Buy v Re-Use
  - Outsource
  - COTS
  - Open Source
- Assess priorities
  Identify dependencies

Phase F: Migration Planning



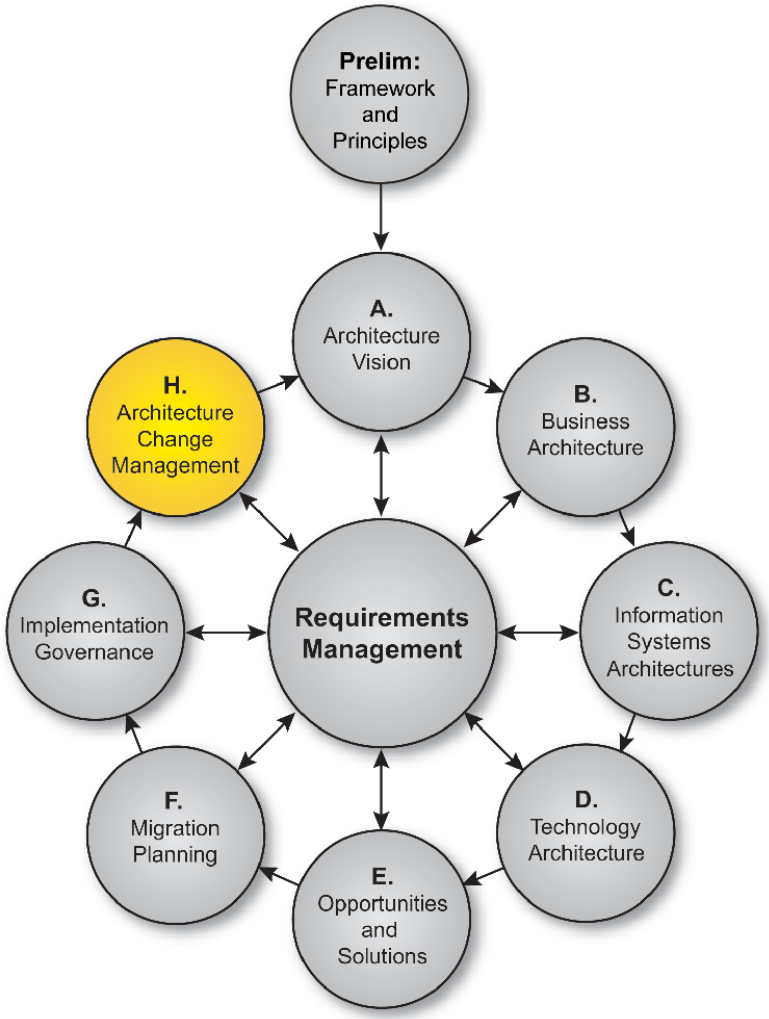
- For projects identified in Phase E perform
  - Cost/benefit analysis
  - Risk assessment
- Produce an implementation road-map

Phase G: Implementation Governance



- Defines architecture constraints on implementation projects
- Architecture contract
- Monitors implementation work for conformance

Phase H: Architecture Change Management

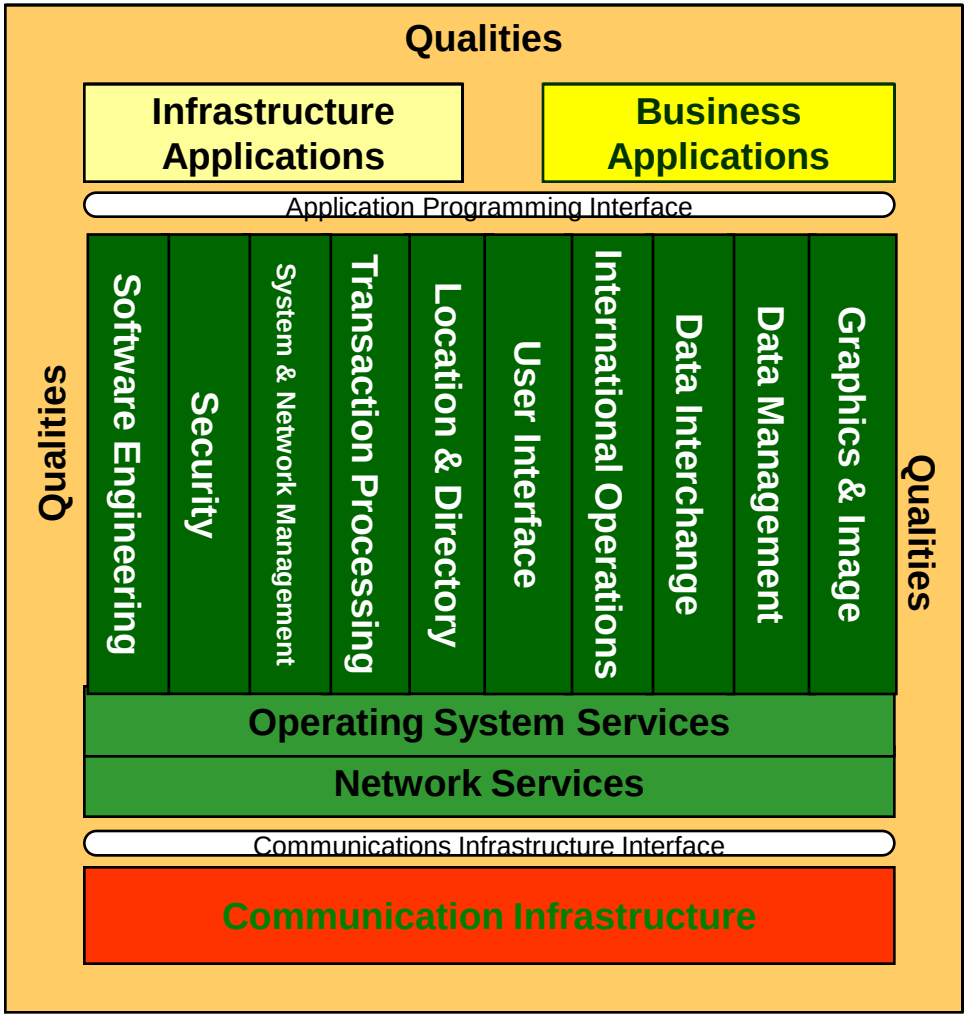


- Ensures that changes to the architecture are managed in a cohesive and architected way
- Establishes and supports the Enterprise Architecture to provide flexibility to evolve rapidly in response to changes in the technology or business environment

TOGAF 8 “Enterprise Edition” – Reference Models

THE Open GROUP
Making standards work®

Foundation Architecture: TRM



- Associated with detailed taxonomy of **services**
  - defines scope of each service category
- Identifies system-wide capabilities or **"qualities"**; e.g.:
  - Internationalization
  - Security
  - Management

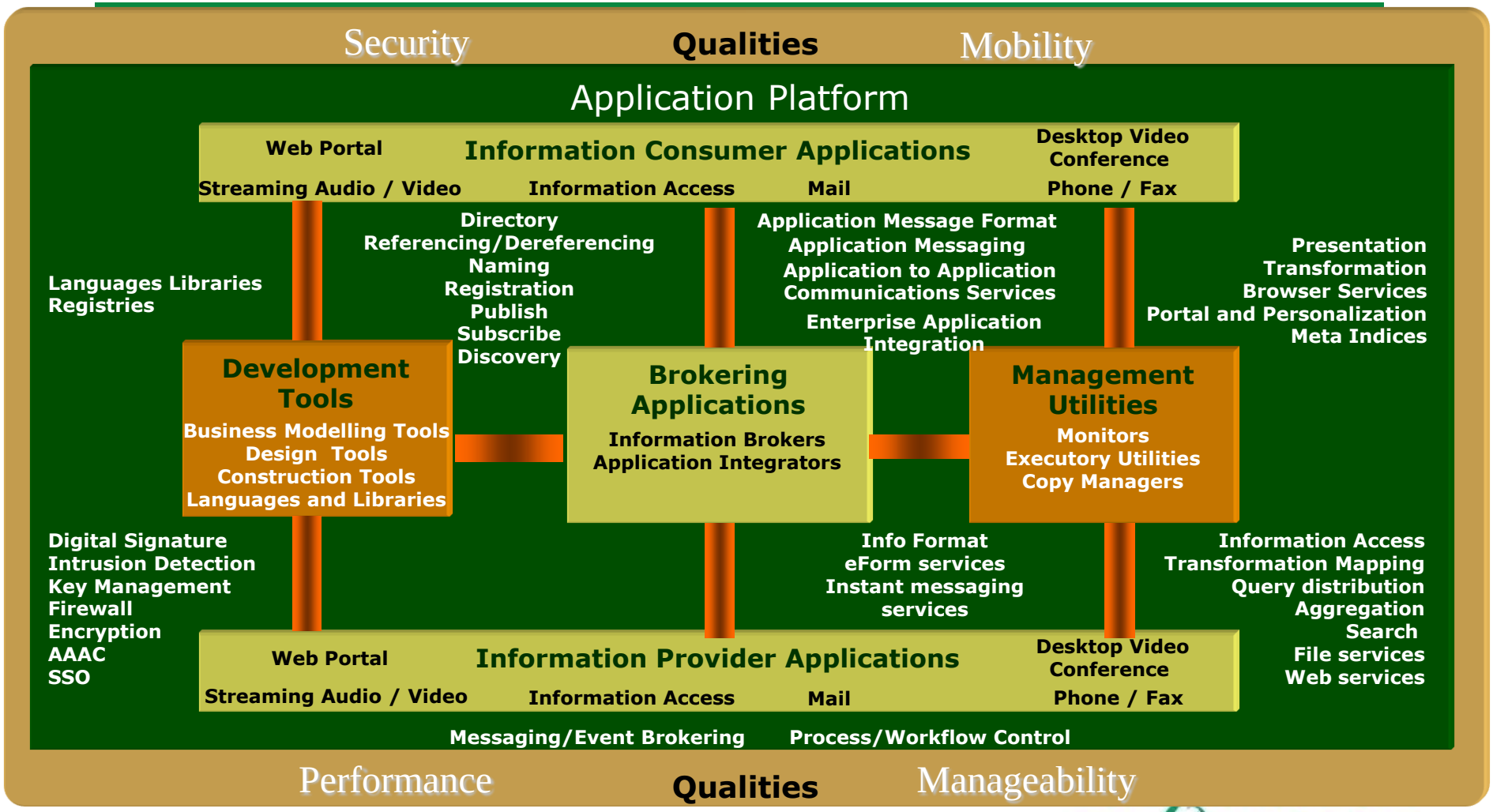
Foundation Architecture: Standards Information Base (SIB)

- A database of open industry standards
- Content determined by Open Group consensus process
- Structured according to TOGAF Technical Reference Model taxonomy
- Available for public web access
  - http://www.opengroup.org/sib/
- Gateway to many linked resources

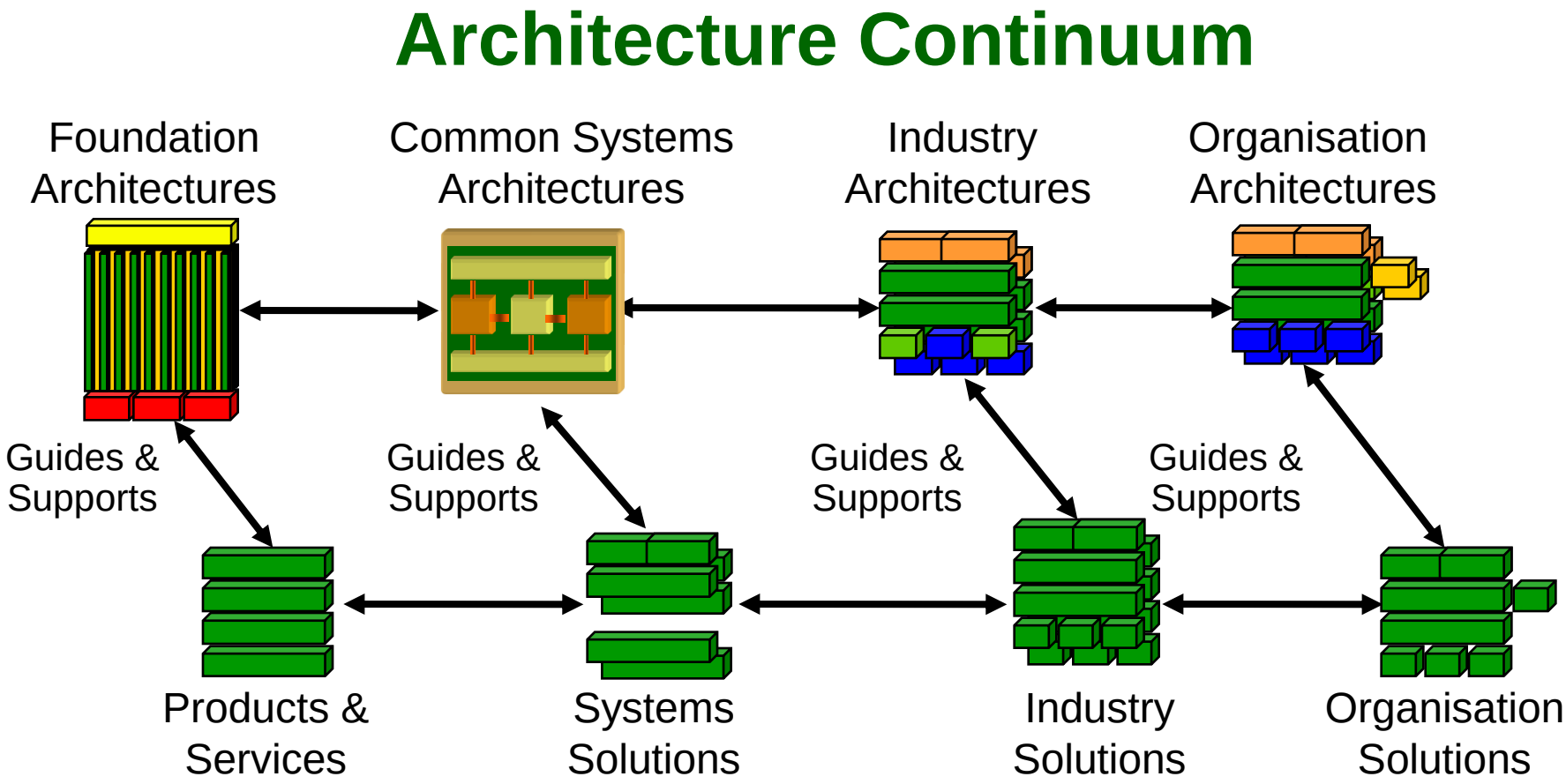
Integrated Information Infrastructure Reference Model

- A model of the key components for developing, managing, and operating an integrated information infrastructure.
  - Supporting “Boundaryless Information Flow”
- A model of a set of applications that sit on top of an application platform.
- An expanded subset of the TOGAF Technical Reference Model, using different orientation.

Integrated Information Infrastructure Reference Model – Detailed Model



The "Enterprise Continuum"



TOGAF 8 “Enterprise Edition” – Resource Base

THE Open GROUP
Making standards work®

Resource Base

- Architecture Board: Guidelines for establishing and operating an Enterprise Architecture Board
- Architecture Compliance: Guidelines and checklists for ensuring project compliance to architecture
- Architecture Contracts: Guidelines for architecture contracts
- Architecture Governance: Arrangements for effective control of IT Architecture by enterprise management
- Architecture Patterns: Guidelines on architecture patterns
- Architecture Principles: Guidelines on developing Architecture Principles; and a generic set of Architecture Principles
- Architecture Views: Guidelines for developing viewpoints and views in architecture models
- Building Blocks Example: Example illustrating use of building blocks in architecture

Resource Base (continued)

- Business Process Domain Views: A set of function views aligned with the business process structure of the enterprise
- Business Scenarios: A method for deriving business requirements for architecture and the implied technical requirements
- Case Studies: Real-life examples of TOGAF in use
- Glossary: Definitions of key terms
- Other Architectures / Frameworks: and relationship to TOGAF
- Tools for Architecture Development: Generic evaluation criteria for architecture tools
- Zachman Framework mapping: Mapping the TOGAF ADM to the Zachman Framework

TOGAF Certification

	For Individuals	Knowledge based
	For organizations providing training courses	Course syllabus meets requirements. Instructor certified
	For organizations providing professional services	Abide by code of practice. Services provided by certified Architects
	For organizations providing tools	The tool supports the TOGAF ADM

TOGAF 8 global, online testing

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
  - Over 7000 certified
- Supported by Architecture Tools

CIO Magazine - Table of Contents - March 1, 2005

| Enterprise Architecture |

A New Blueprint For The Enterprise

By Christopher Koch

Enterprise architecture is not just about mapping and standardizing hardware and software anymore. Now it's about services, events and-get this-good old ROI.

Wanted: Enterprise Architects

By Ben Worthen

IT has grown so big that the CIO can't handle it all. To ensure that IT is always aligned with the business, you need an enterprise architect.

How to Get Started

By CHRISTOPHER KOCH

Feature Article

This sidebar is part of the feature article "A New Blueprint For The Enterprise"

Read Article

Some standard templates can jump-start your thinking about enterprise architecture. But don't expect them to provide all the answers. "Frameworks are the filing cabinet you put the architecture documents into," says Bruce Robertson, vice president of enterprise planning and architectures for research company Meta.

- One of the most popular—and free—frameworks is the Open Group Architecture Framework (Togaf). www.opengroup.org/architecture/

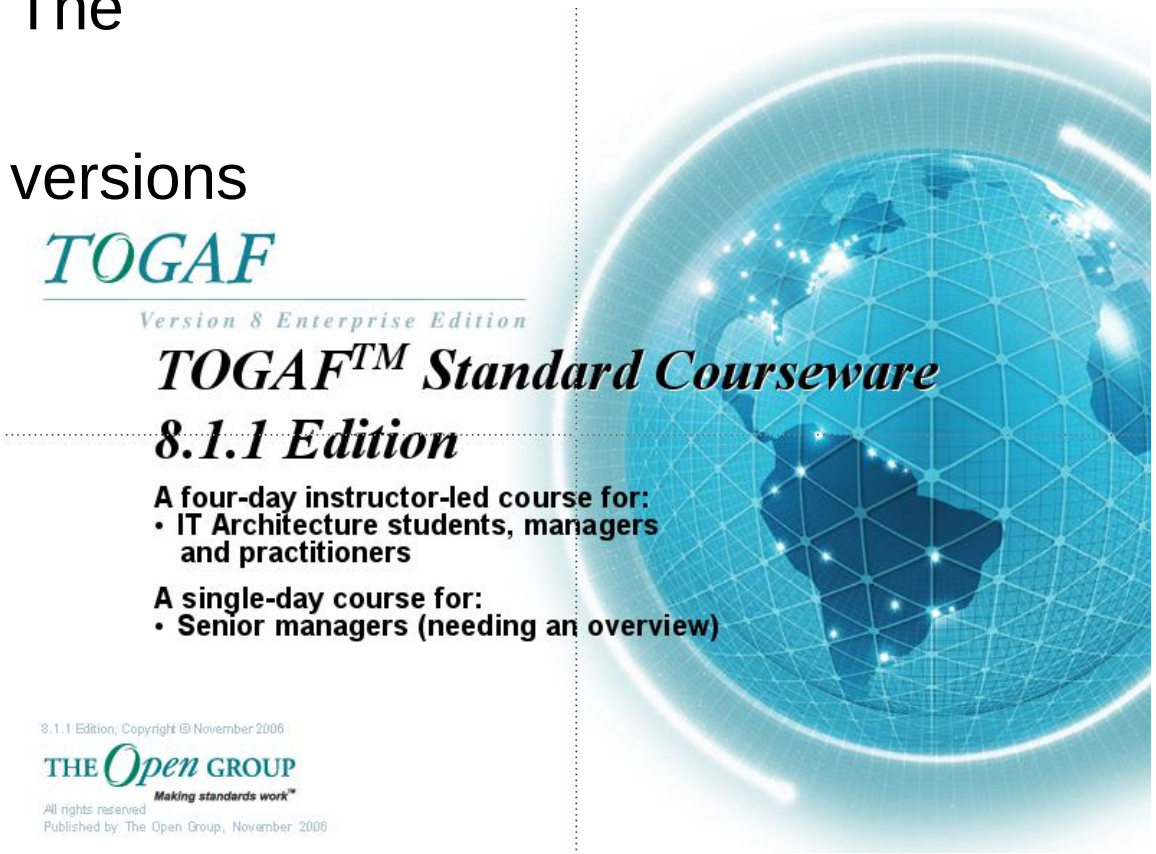
Demand for information

- TOGAF™ 8
  - >90,000 downloads
  - >7,000 certified practitioners
- > 200 corporate members of The Open Group Architecture Forum
- >20,000 TOGAF 8 books shipped

TOGAF 8 Product & Service Showcase

TOGAF 8 Core Training Materials

- Licensed from The Open Group
- 4-day & 1-day versions
- 23 modules
- Examination

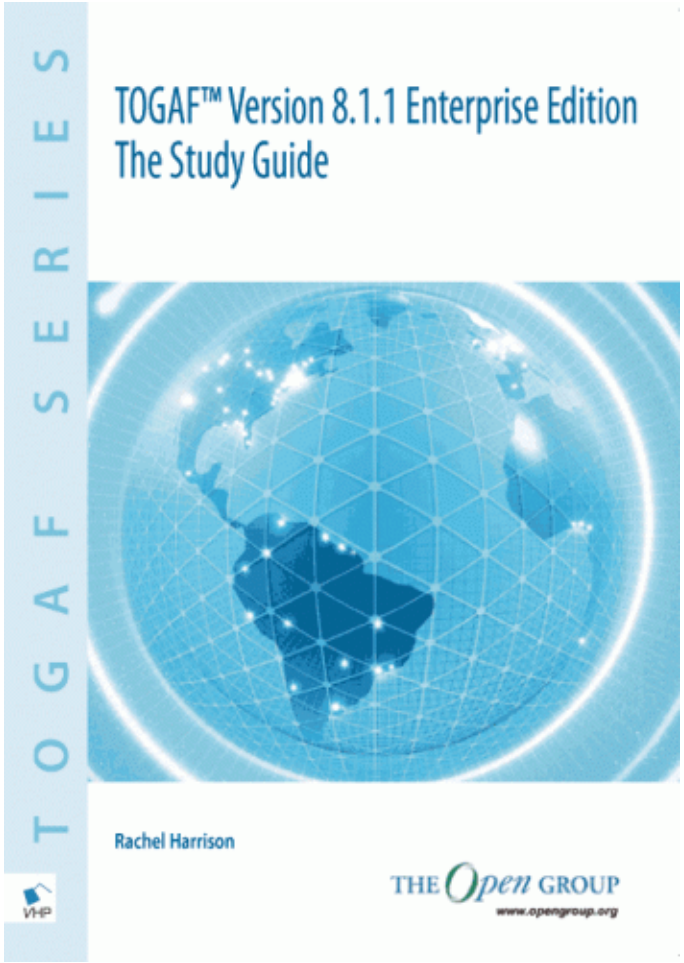


http://www.opengroup.org/projects/togaf8-training-support

TOGAF™ 2007 Edition

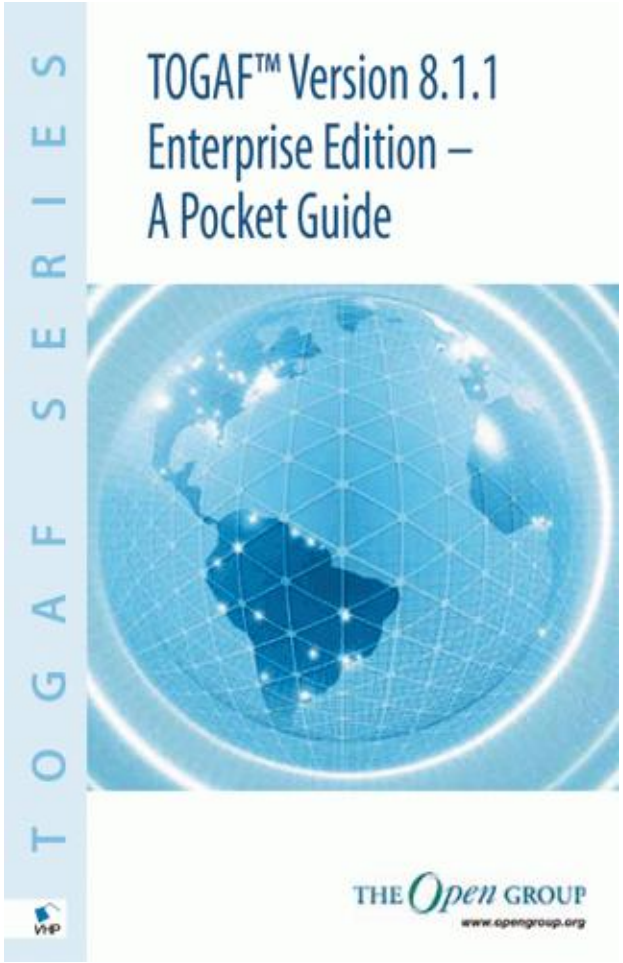
- TOGAF 2007 Edition – (Incorporating 8.1.1), "The Book"
  - Available from Van Haren Publishing
  - ISBN: 9-789087-530945
  - www.vanharen.net

TOGAF™ Version Enterprise Edition 8.1.1 Study Guide



- TOGAF Version 8.1.1 Enterprise Edition Study Guide
  - Available from Van Haren Publishing
  - ISBN: 9-789087-530938
  - www.vanharen.net

TOGAF™ Version Enterprise Edition 8.1.1 – A Pocket Guide



- TOGAF Version 8.1.1 Enterprise Edition – A Pocket Guide
  - Available from Van Haren Publishing
  - ISBN: 9-789087-530952
  - www.vanharen.net

THE Open GROUP
Making standards work®

17th Enterprise Architecture Practitioners Conference
San Francisco

https://store.opengroup.org

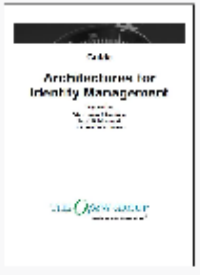
Categories

Books etc.-> (36)
Certification-> (10)
Downloads (24)
Miscellaneous (2)

Order TOGAF™ hardcopy books

Van Haren PUBLISHING

What's New?



Architectures for Identity Management (pdf edition)
$19.95USD

What's New Here?

Welcome Guest! Would you like to log yourself in? Or would you prefer to create an account?

The Open Group Online Store allows you to purchase a range of items from The Open Group, including publications and memorabilia, and also to pay and renew certification fees and more. Electronic publications are available for immediate download after purchase.It also allows you to keep track of your previous orders, print out receipts, sign up for newsletters, look out for new products within categories, etc.

If you are looking to purchase hard copy editions of our TOGAF Series documents, then please visit Van Haren Publishing: [US | Europe/Rest of the World]

Purchase any TOGAF item and receive a 50% discount voucher code for the TOGAF Certification examination (more...)

Featured Products For January

TOGAF Version 8 Enterprise Edition Study Guide (8.1.1 pdf edn)
$24.95USD

The Open Group Architecture Framework (TOGAF 8.1.1) html edition

TOGAF and COBIT Mapping Part II (pdf download)
$12.50USD

Shopping Cart

0 items

Bestsellers

01. The Open Group Architecture Framework (TOGAF 8.1.1) pdf edition
02. TOGAF Version 8 Enterprise Edition Study Guide (8.1.1 pdf edn)
03. TOGAF Version 8 Enterprise Edition Test Yourself Questions
04. TOGAF 8.1.1 ADM Overview reference card (pdf)

Van Haren PUBLISHING

https://www.vanharen.net

Categories

- All E-books
- All books
- Frameworks and standards
- Best Practice Series
- ITSM Library
- IT Management Topics
- VHP Titles
- BSI Titles
- I-Tracks
- Private labels
- OGC / TSO Titles
- IT Management
- Project Management
- Management
- **IT architecture**
  - TOGAF
- AMBI
- Other Titles
- EXIN Sample Exams

Full Catalogue

Book Languages

Please Select

Information

About Us
Shipping

Categories

TOGAF

TOGAF

Bookshop Highlights

TOGAF™ Version 8.1.1 Enterprise Edition – Study Guide (English version)

$68

TOGAF 2007 Edition (Incorporating 8.1.1) (English version)

$85

TOGAF™ Version 8.1.1 Enterprise Edition – A Pocket Guide (English version)

$21

TOGAF™ The Open Group

Quick Find

Use keywords like Title and ISBN to find what you are looking for.

Advanced Search

Currencies

US Dollar

Shopping Cart

0 items

Bestsellers

01. TOGAF 2007 Edition (Incorporating 8.1.1) (English version)
02. TOGAF™ Version 8.1.1 Enterprise Edition – Study Guide (English version)
03. TOGAF™ The Open Group Architecture

"togaf 8.1.1"

Category

Any Category

Books (6)

Showing Top Results

1. 

TOGAF Version 8.1.1 Enterprise Edition - Study Guide by Van Haren Publishing (**Paperback** - Aug 30, 2007)

Buy new: **$67.00** 2 Used & new from $67.00

Not in stock; order now and we'll deliver when available

Eligible for **FREE** Super Saver Shipping.

Excerpt - page 4: "... 4 TOGAFTM Version 8.1.1 Enterprise Edition - Study Guide 1.2.1 TOGAF Certification Principles The Open Group ..."

Surprise me! See a random page in this book.

Books: See all 6 items

2. 

TOGAF 2007 Edition (Incorporating 8.1.1) (English version) by Van Haren Publishing (**Paperback** - Aug 30, 2007)

Buy new: **$84.00**

Not in stock; order now and we'll deliver when available

Eligible for **FREE** Super Saver Shipping.

Excerpt - page 4: "... designs, and baseline data. 4 TOGAF 8.1.1 (2007) ..."

Surprise me! See a random page in this book.

Books: See all 6 items

Listmania!

Building A Solid Programming Core (with a .Net slant!!!): A list by Jean-Paul S. Boodhoo

References for ITSM Practitioners and Managers: A list by Russell Herrell "ITSM/ITIL/ISO 20000 Consultant - Instructor"

TOGAF 8 Summary

- An effective, industry standard framework and method 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

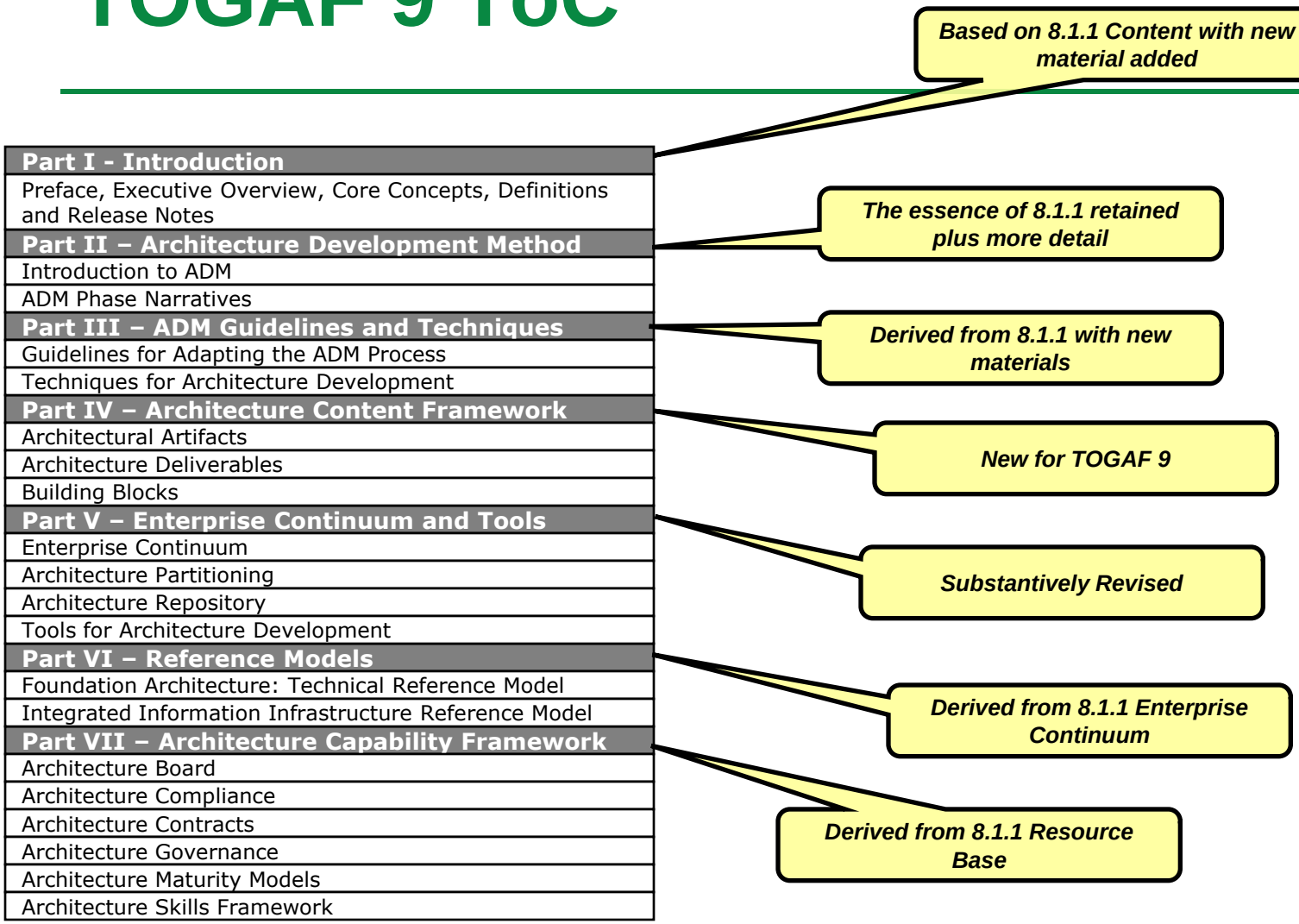
TOGAF 9

- Preserves the existing investment in TOGAF 8.1.1
  - The core method
  - Existing investment in People
    - Knowledge and skills
  - Existing investment in Tools
- Adding further detail and clarification to what has already been proven

What's new in TOGAF 9

- Modular Structure
- Content Framework
- Extended Guidance on using TOGAF
- Explicit Consideration of Architectural Styles
- Additional ADM detail

TOGAF 9 ToC



Conclusions

- Adopt and use TOGAF
  - An effective, industry standard framework and method for enterprise architecture.
  - Vendor, tool, and technology neutral
  - Complementary to, not competing with, other frameworks
- Join and participate in the Architecture Forum
  - Worldwide forum for Architecture practitioners
  - Network with peers and industry experts
  - Contribute to / leverage work in progress
  - Help further development of Enterprise Architecture as a discipline and a profession

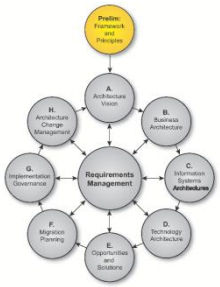
For More Information . . .

- The TOGAF Web Site
  - http://www.opengroup.org/togaf/
- 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/

Backup Slides

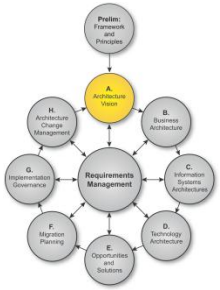
TOGAF 8 “Enterprise Edition” – Architecture Development Method Objectives, Steps, Inputs, Outputs,

THE Open GROUP
Making standards work®



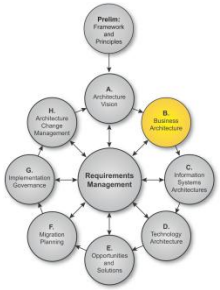
Preliminary Phase: Framework & Principles

Objectives	Steps	Inputs	Outputs
To confirm the commitment of the stakeholders To define the constraining principles To identify an organization's "architecture footprint"; that is, the people responsible for performing the architecture work, where they are located, and their responsibilities To define the scope and assumptions; this is particularly important for large organizations where there may be a federated architecture environment To define the framework and detailed methodologies that are going to be used to develop the enterprise architecture in the organization; this is typically an adaptation of the ADM To set up and monitor the framework's fitness-for-purpose; normally this includes an initial pilot project to check the viability of the approach within the organization To define the evaluation criteria for tools, repositories, and management processes to: capture, publish, and maintain architecture artifacts	Defining "How we do Architecture": Principles and Frameworks Establishing IT Architecture Governance	Request for Architecture Work TOGAF Architecture Development Method (ADM) Other architecture framework(s) Business strategy (including goals and drivers) IT governance strategy Architecture principles, including business principles Other federated architectures principles	Architecture principles Framework definition Restatement of business principles, goals, and drivers



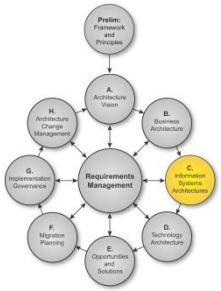
Phase A: Architecture Vision

Objectives	Steps	Inputs	Outputs
Obtain management commitment for this particular cycle of the ADM Validate business principles, goals, and drivers Define, scope, and prioritize architecture tasks Identify stakeholders, their concerns, and objectives Define business requirements and constraints Describe appropriate solutions Obtain formal approval to proceed Understand the influence on, and from, parallel architecture developments	Project Establishment Identify Business Goals and Business Drivers Review Architecture Principles, including Business Principles Define the scope Define Constraints Identify Stakeholders and Concerns, Business requirements, and Architecture Vision Document the Statement of Architecture Work and Gain Approval	Request for Architecture Work Business strategy, business goals, and business drivers Architecture principles, including business principles The Enterprise Continuum; that is, existing architecture documentation (framework description, architecture descriptions, existing baseline descriptions, etc.)	Approved Statement of Architecture Work including: • Scope and constraint • Plan for the architecture work Refined statements of business goals and strategic drivers Architecture principles, including business principles Architecture Vision (produced by the business scenario) including: • Baseline Business Architecture, Version 0.1 • Baseline Technology Architecture, Version 0.1 • Baseline Data Architecture, Version 0.1 • Baseline Applications Architecture, Version 0.1 • Target Business Architecture, Version 0.1 • Target Technology Architecture, Version 0.1 • Target Data Architecture, Version 0.1 • Target Applications Architecture, Version 0.1



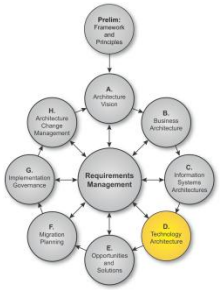
Phase B: Business Architecture

Objectives	Steps	Inputs	Outputs
Select architecture viewpoints to demonstrate how stakeholder concerns are addressed in the Business Architecture Select tools and techniques for viewpoints Describe the existing Business Architecture (the current baseline) Develop a Target Business Architecture Analyze the gaps between the Baseline and Target Architectures	Develop Baseline Business Architecture Description Identify Reference Models, Viewpoints, and Tools Create Business Architecture Model(s) Select Business Architecture Building Blocks Conduct a Formal Checkpoint Review of the Architecture Model and Building Blocks with Stakeholders Review Non-Functional (Qualitative) Criteria Complete the Business Architecture Perform Gap Analysis and Create Report	Request for Architecture Work Approved Statement of Architecture Work Refined statements of business goals and strategic drivers Architecture principles, including business principles The Enterprise Continuum Architecture Vision, including: Baseline Business Architecture, Version 0.1 Baseline Technology Architecture, Version 0.1 Baseline Data Architecture, Version 0.1 Baseline Applications Architecture, Version 0.1 Target Business Architecture, Version 0.1 Target Technology Architecture, Version 0.1 Target Data Architecture, Version 0.1 Target Applications Architecture, Version 0.1	Statement of Architecture Work, updated if necessary Validated business principles, business goals, and strategic drivers Target Business Architecture, Version 1.0 (detailed) Baseline Business Architecture, Version 1.0 (detailed) Views corresponding to the selected viewpoints addressing key stakeholder concerns Gap analysis results Technical requirements identifying, categorizing, and prioritizing the implications for work in the remaining architecture domains (for example, by a dependency/priority matrix) Business Architecture Report Updated business requirements



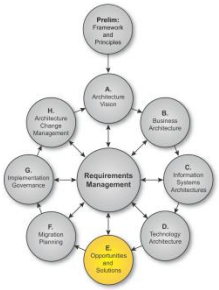
Phase C: Information Systems Architectures

Objectives	Steps	Inputs	Outputs
To develop Target Architectures for the Data and/or the Applications domains *For Data Architecture*: Define the types and sources of data needed to support the business, in a way that can be understood by the stakeholders *For Applications Architecture*: Define the *kinds* of application systems necessary to process the data and support the business	Develop Baseline Architecture Description Review and Validate Principles, select Reference Models, Viewpoints, and Tools Create Architecture Model(s) Select Architecture Building Blocks (*Data Architecture only*) Identify Candidate Applications (*Applications Architecture only*) Conduct a Formal Checkpoint Review of the Architecture Model and Building Blocks with Stakeholders Review Non-Functional (Qualitative) Criteria Complete the Architecture Conduct Checkpoint/Impact Analysis (*Data Architecture Only*) Perform Gap Analysis and Create Report	Application principles Data principles Request for Architecture Work Statement of Architecture Work Architecture Vision Enterprise Continuum Baseline Business Architecture, Version 1.0 Target Business Architecture, Version 1.0 Baseline Data Architecture, Version 0.1 Target Data Architecture, Version 0.1 Baseline Applications Architecture, Version 0.1 Target Applications Architecture Version 0.1 Relevant technical requirements Gap analysis results Re-usable building blocks (from organization's Architecture Continuum)	Statement of Architecture Work Baseline Data Architecture, Version 1.0 Target Data Architecture, Version 1.0 Baseline Applications Architecture, Version 1.0 Target Applications Architecture, Version 1.0 Data Architecture views corresponding to the selected viewpoints Applications Architecture views corresponding to the selected viewpoints Data Architecture Report Applications Architecture Report Gap analysis results Impact Analysis Updated business requirements



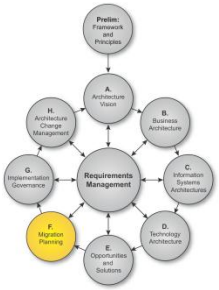
Phase D: Technology Architecture

Objectives	Steps	Inputs	Outputs
To develop a Target Technology Architecture that will form the basis of the following implementation work.	Develop Baseline Technology Architecture Description *Create Target Technology Architecture:* Create a Baseline Technology Architecture Description in *services terminology* Consider different Architecture Reference Models, Viewpoints, and Tools Create an Architecture Model of Building Blocks Select the Services Portfolio per Building Block Confirm that the Business Goals and Objectives are Met Choose the Criteria for Specification Selection Complete the Architecture Definition Conduct Gap Analysis	Technology principles, if existing Request for Architecture Work Statement of Architecture Work Architecture Vision Baseline Technology Architecture, Version 0.1 Target Technology Architecture, Version 0.1 Relevant technical requirements Gap analysis results (from Data Architecture and Applications Architecture) Baseline Business Architecture, Version 1.0 Baseline Data Architecture, Version 1.0 Baseline Applications Architecture, Version 1.0 Target Business Architecture, Version 1.0 Re-usable building blocks Target Data Architecture, Version 1.0 Target Applications Architecture, Version 1.0	Statement of Architecture Work, updated if necessary Baseline Technology Architecture, Version 1.0 Validated technology principles or new technology principles (if generated here) Technology Architecture Report, summarizing what was done and the key findings Target Technology Architecture, Version 1.0 Technology Architecture, gap analysis report Viewpoints addressing key stakeholder concerns Views corresponding to the selected viewpoints



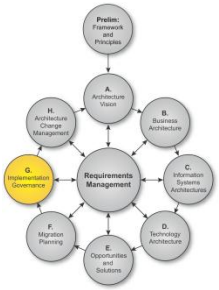
Phase E: Opportunities & Solutions

Objectives	Steps	Inputs	Outputs
Evaluate and select implementation options (for example, build *versus* buy *versus* re-use) Identify the strategic parameters for change and the projects to be undertaken Assess the costs and benefits of the projects Generate an overall implementation and migration strategy and a detailed Implementation Plan	Identify the Key Business Drivers Review Gap Analysis from previous phases Brainstorm Technical Requirements Brainstorm Other Requirements Architecture Assessment and Gap Analysis Identify Work Packages or Projects	Request for Architecture Work Statement of Architecture Work Target Business Architecture, Version 1.0 Target Data Architecture, Version 1.0 Target Applications Architecture, Version 1.0 Target Technology Architecture, Version 1.0 Re-usable Architecture (Solution) Building Blocks from your organization's Enterprise Continuum Product information	Implementation and migration strategy High-level Implementation Plan Impact Analysis document – the project list section is documented in this phase



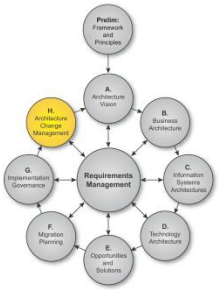
Phase F: Migration Planning

Objectives	Steps	Inputs	Outputs
Sort the various implementation projects into priority. Produce a prioritized list of projects that will form the basis of the detailed Implementation and Migration Plans.	Prioritize Projects Estimate the resource requirements and available resources for each project Perform a cost/benefit analysis for each project to identify the projects that will make the most impact in proportion to their costs Perform a risk assessment for each project to identify any high risk projects Generate a proposed implementation roadmap Prepare a migration plan showing how existing systems will migrate to the new architecture	Request for Architecture Work Statement of Architecture Work Target Business Architecture, Version 1.0 Target Technology Architecture, Version 1.0 Target Data Architecture, Version 1.0 Target Applications Architecture, Version 1.0 Impact Analysis – project list	Impact Analysis – detailed Implementation Plan and Migration Plan (including Architecture Implementation Contract)



Phase G: Implementation Governance

Objectives	Steps	Inputs	Outputs
Formulate recommendations for each implementation project Construct an Architecture Contract to govern the overall implementation and deployment process Perform appropriate governance functions while the system is being implemented and deployed Ensure conformance with the defined architecture by implementation projects and other projects	Formulate Project Recommendations Document Architecture Contract Perform ongoing Implementation Governance	Request for Architecture Work Statement of Architecture Work Re-usable Solution Building Blocks (from the organization's Solutions Continuum Impact Analysis – detailed Implementation Plan and Migration Plan (including Architecture Implementation Contract)	Impact Analysis – Implementation Recommendations Architecture Contract The architecture-compliant implemented system



Phase H: Architecture Change Management

Objectives	Steps	Inputs	Outputs
Establish an architecture change management process Provide continual monitoring of changes in technology, business, etc. Determine whether to initiate a new architecture cycle or make changes to the framework and principles	Formulate Project Recommendations Document Architecture Contract Perform ongoing Implementation Governance	Requests for Architecture Change due to technology changes Requests for Architecture Change due to business changes	Architecture updates Changes to architecture framework and principles New Request for Architecture Work, to initiate another cycle of the ADM

Requirements Management

Objectives	Steps	Inputs	Outputs
To provide a process to manage architecture requirements throughout the phases of the ADM cycle Identify requirements for the enterprise, store them and feed them in and out of the relevant ADM phases, which dispose of, address and prioritize requirements	Identify/document requirements Baseline Requirements Monitor baseline requirements Identify changed requirement; remove, add, modify and re-assess priorities Identify changed requirement and record priorities; identify and resolve conflicts; generate requirements impact statements Assess impact of changed requirement on current and previous ADM phases Implement requirements arising from Phase H Update the requirements repository Implement change in the current phase Assess and revise gap analysis for past phases	The inputs to the Requirements Management process are the requirements-related outputs from each ADM phase. The first high-level requirements are produced as part of the Architecture Vision. Each architecture domain then generates detailed requirements. Deliverables in later ADM phases contain mappings to new types of requirements (for example, conformance requirements).	Changed requirements Requirements Impact Statement, which identifies the phases of the ADM that need to be revisited to address any changes. The final version must include the full implications of the requirements (e.g., costs, timescales, and business metrics).

TOGAF 8 “Enterprise Edition” – Architecture Development Method Detailed Inputs, Outputs, Steps

Preliminary Phase: Framework & Principles

Inputs

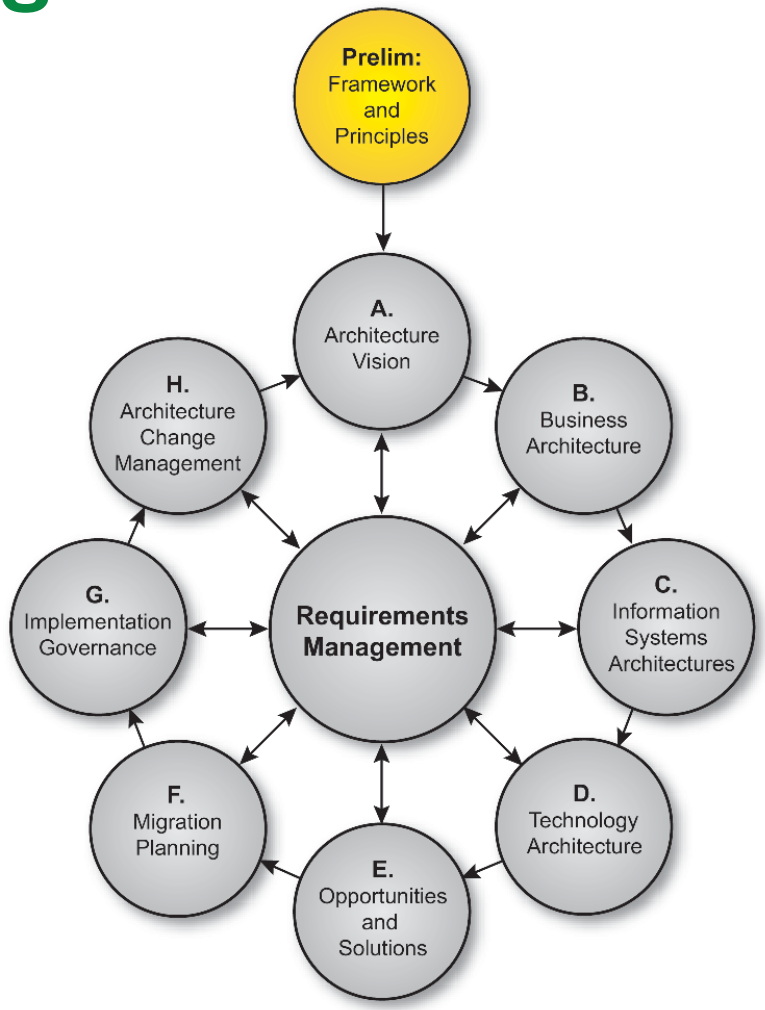
- TOGAF ADM
- Other architecture framework(s), if required
- Business Strategy, Business Principles, Business Goals, Business Drivers
- IT Governance Strategy
- Architecture Principles

Steps

- TOGAF ADM a generic method -- not practical to define specific steps for adapting.
- ADM Introduction discusses issues involved and gives general guidelines.

Outputs

- Framework Definition
- Architecture Principles
- Restatement of Business Strategy, Principles, Goals, Drivers



Phase A: Architecture Vision

Inputs

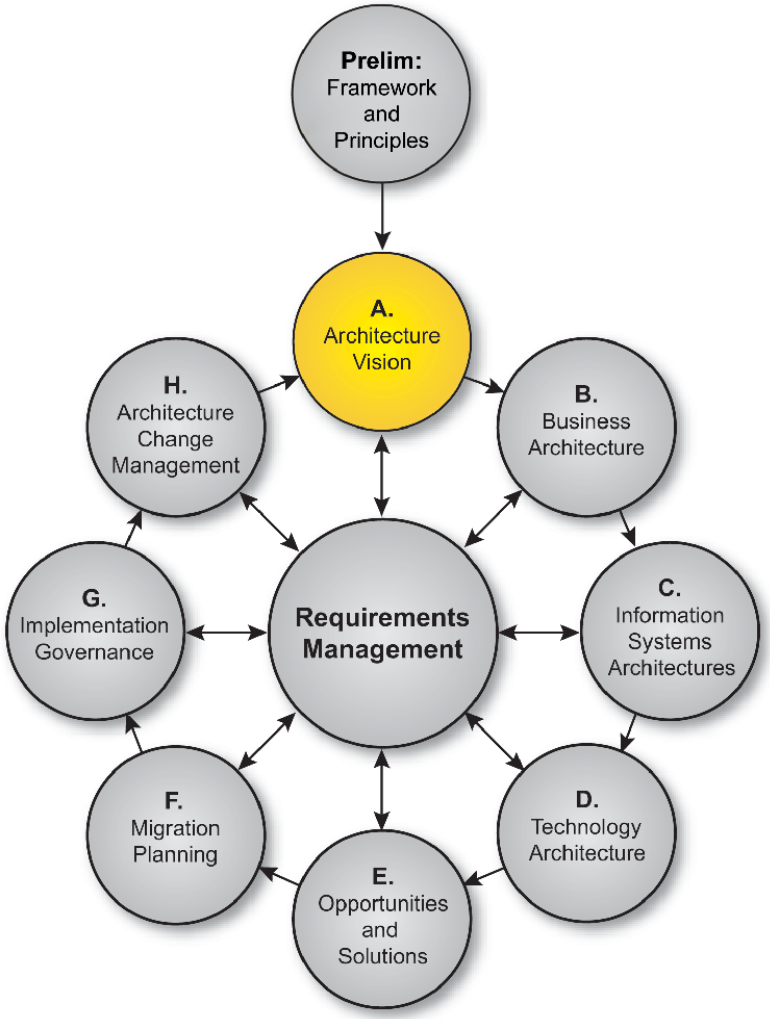
- Request for Architecture Work
- Business Strategy, Principles, Goals, Drivers
- Architecture Principles
- Enterprise Continuum - existing arch. documentation

Steps

- Project Establishment
- Business Principles, Goals and Drivers
- Architecture Principles.
- Project Scope
- Constraints.
- Stakeholders and concerns, Business Requirements, and Architecture Vision
- Statement of Architecture Work and Approval

Outputs

- Statement of Architecture Work
- Refined statements of Principles, Goals, Drivers
- Architecture Vision
- Business Scenario



Phase B: Business Architecture

Inputs

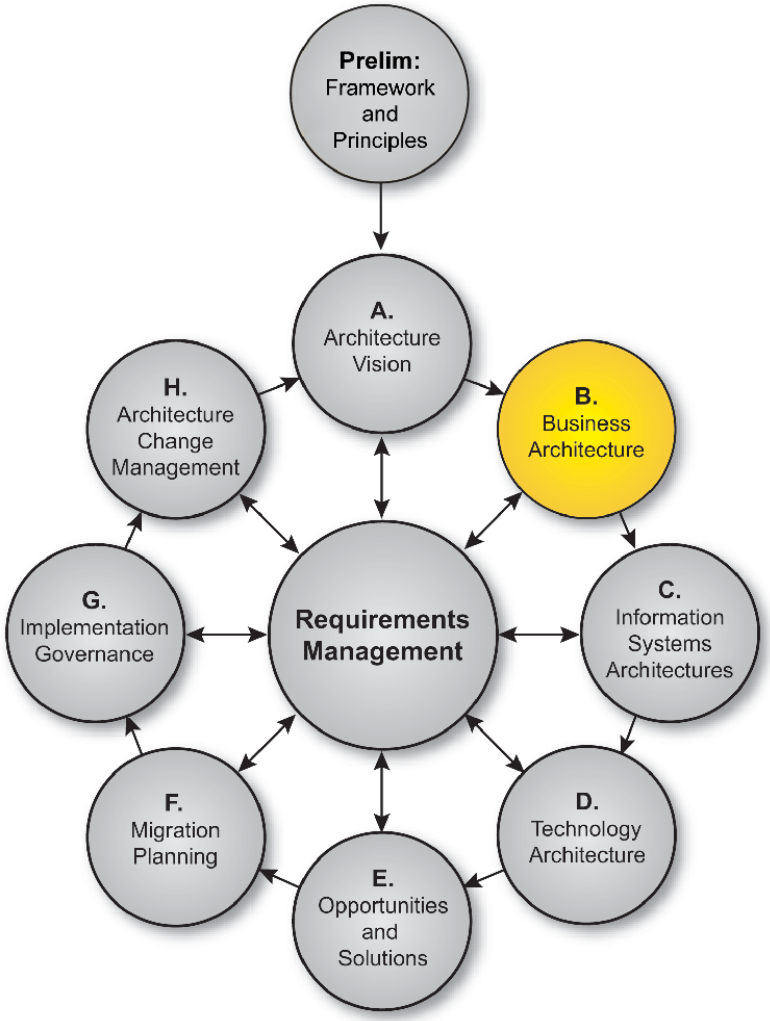
- Request for Architecture Work
- Approved Statement of Architecture Work
- Refined Business Principles, Goals, Drivers
- Enterprise Continuum
- Architecture Vision / Business Scenario

Steps

- Describe Baseline Business Architecture
- Identify Reference Models, Viewpoints, Tools
- Create Architecture Model(s)
- Select Building Blocks (e.g., business services)
- Formal Checkpoint Review with Stakeholders
- Complete Business Architecture
- Perform Gap Analysis, Report

Outputs

- Statement of Architecture Work (updated)
- Validated Business Principles, goals, drivers
- Target Business Architecture (detailed)
- Business Baseline (detailed)
- Views addressing key stakeholder concerns
- Gap analysis results
- Tech. requirements (drivers for Tech. Architecture)
- Business Architecture Report
- Updated business requirements



Phase C: Information Systems Architectures

Inputs

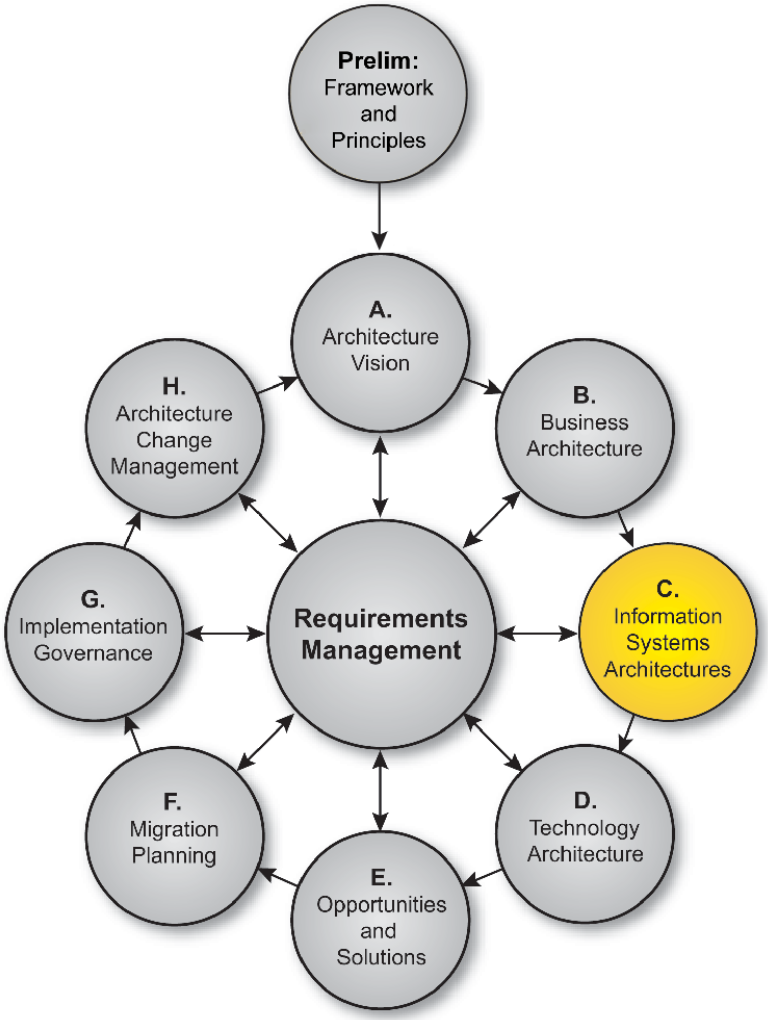
- Applications and Data Principles
- Request for Architecture Work
- Statement of Architecture Work
- Architecture Vision
- Business Baseline
- Target Business Architecture
- Relevant technical requirements
- Gap analysis (from Business Architecture)
- Re-usable building blocks

Steps (for Data and Applications Arch.)

- Describe Baseline Architecture
- Identify Reference Models, Viewpoints, Tools
- Create Architecture Model(s)
- Select Building Blocks
- Formal Checkpoint Review with Stakeholders
- Review Qualitative Criteria
- Complete Architecture Description
- Conduct Checkpoint / Impact Analysis
- Perform Gap Analysis, Report

Outputs

- Statement of Architecture Work (updated)
- Target Data and Applications Architectures
- Data and Applications Architecture Views
- Data and Applications Architecture Reports
- Gap analyses
- Impact Analyses
- Updated business requirements



Phase D: Technology Architecture

Inputs

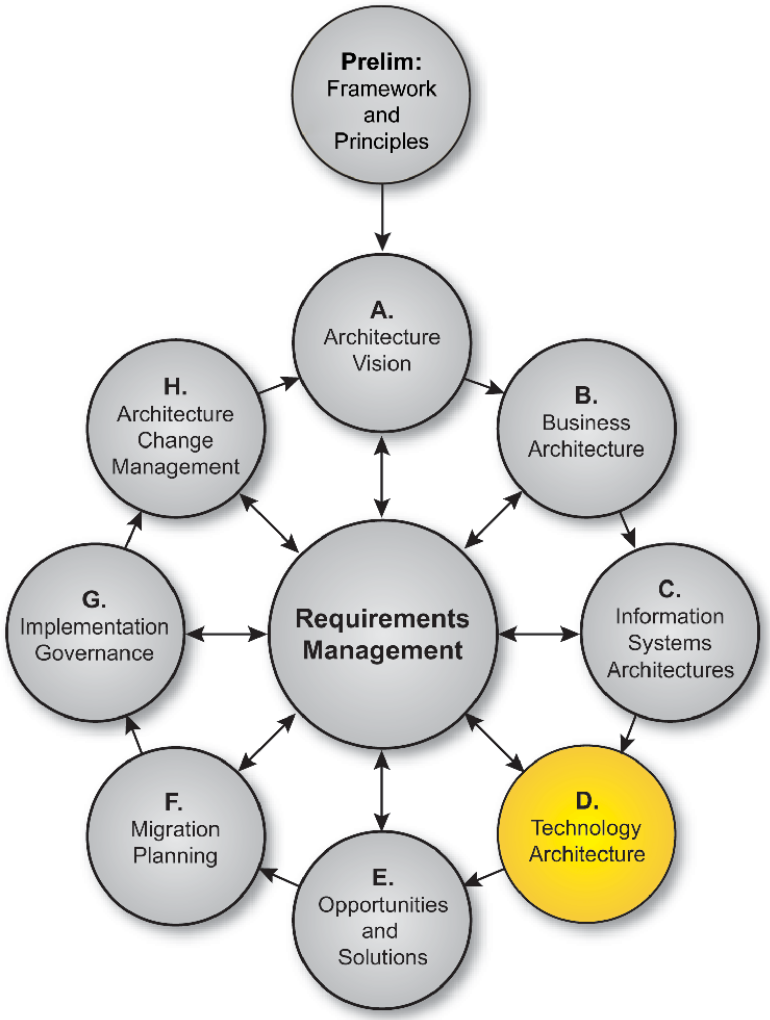
- Technical Principles
- Request for Architecture Work
- Statement of Architecture Work
- Architecture Vision
- Relevant technical requirements (previous phases)
- Gap analyses
- Business, Data and Applications Baselines
- Target Business, Data, Applications Architectures
- Re-usable building blocks

Steps

- Describe Baseline Technology Architecture
- Identify Reference Models, Viewpoints, Tools
- Create Architecture Model(s)
- Select services portfolio per building block
- Confirm business goals and objectives being met
- Determine criteria for specification selection
- Complete Technology Architecture
- Perform Gap Analysis, Report

Outputs

- Statement of Architecture Work (updated)
- Technology Baseline
- Technology Principles
- Technology Architecture Report
- Target Technology Architecture
- Technology Architecture - gap report
- Viewpoints / views addressing stakeholder concerns.



Phase E: Opportunities & Solutions

Inputs

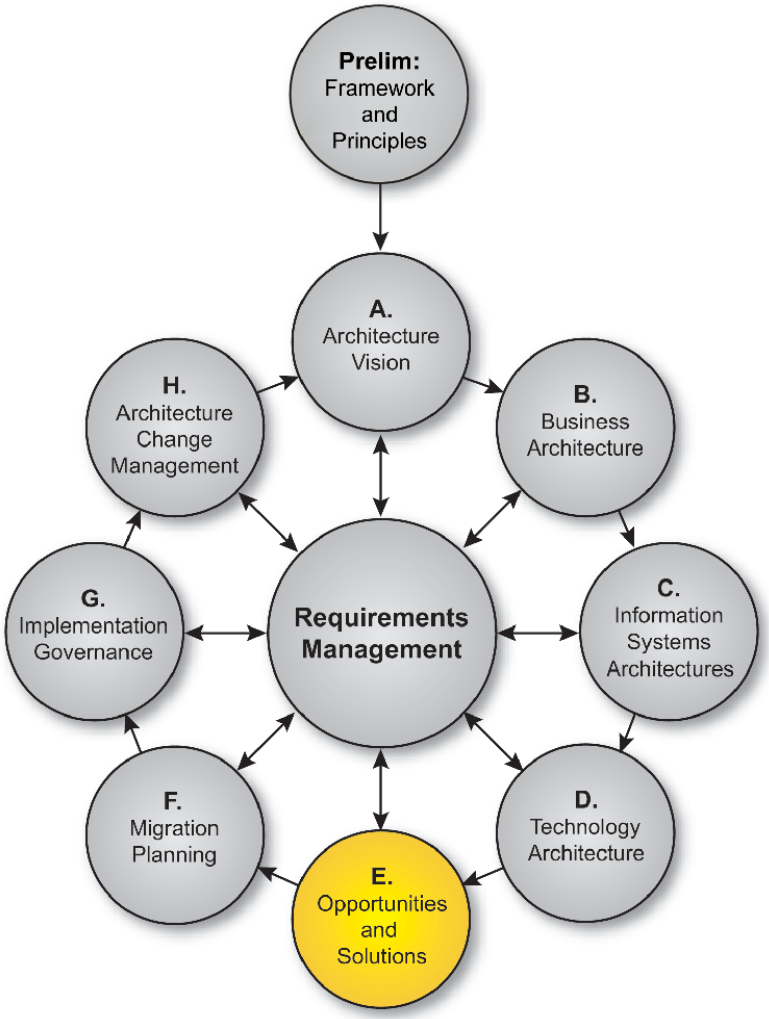
- Request for Architecture Work
- Statement of Architecture Work
- Business, Data, Applications, Technology Architectures
- Re-usable architecture building blocks
- Product information

Steps

- Identify business drivers constraining implementation sequence (cost reduction; service consolidation; etc.)
- Review gap analysis generated in Phase D.
- Brainstorm technical requirements
- Brainstorm co-existence, interoperability requirements
- Architecture assessment and gap analysis
- Identify major work packages; classify as new development, purchase opportunity, reuse of existing system.

Outputs

- Impact Analysis - Project list



Phase F: Migration Planning

Inputs

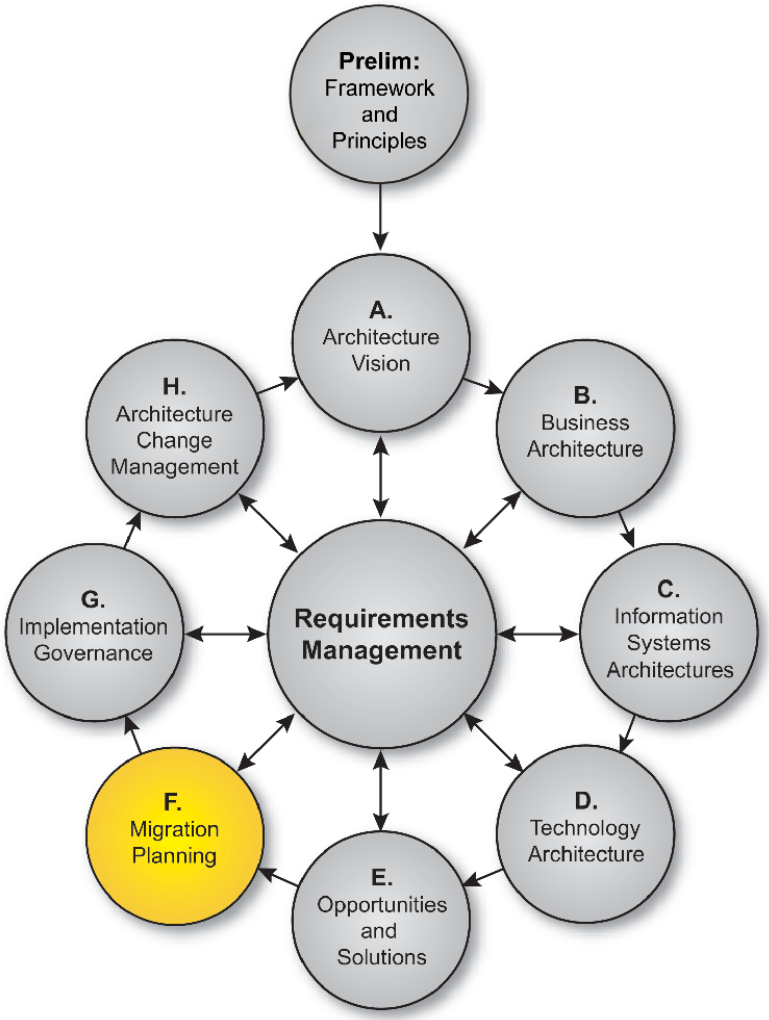
- Request for Architecture Work
- Statement of Architecture Work
- Business Architecture
- Data Architecture
- Applications Architecture
- Technology Architecture
- Impact Analysis - Project list

Steps

- Prioritize projects
- Estimate resource requirements and availability
- Perform cost / benefit assessment of migration projects
- Perform risk assessment
- Generate implementation roadmap (time-lined)
- Document the Migration Plan

Outputs

- Impact Analysis - Migration Plan



Phase G: Implementation Governance

Inputs

Request for Architecture Work
Statement of Architecture Work
Re-usable solutions building blocks
Impact Analysis - Migration Plan

Steps

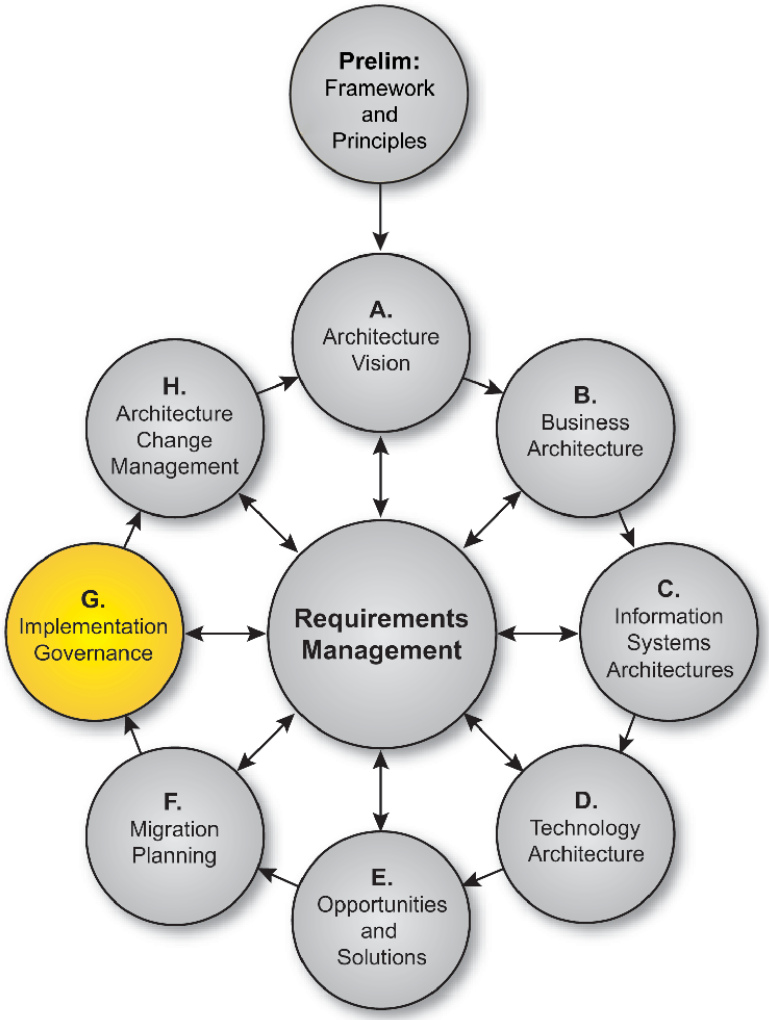
Formulate project recommendations; for each implementation project, document:

- scope
- strategic requirements (from architectural perspective)
- change requests
- rules for conformance
- time-line requirements from roadmap

Architecture Contract – document, obtain developing and sponsoring organization signatures
On-going implementation governance and architecture compliance review.

Outputs

Impact Analysis - Migration Plan



Phase H: Architecture Change Management

Inputs

- Request for Architecture Change - technology
- New technology reports
- Request for Architecture Change - business

Steps

- Ongoing monitoring of technology changes
- Ongoing monitoring of business changes
- Assessment of changes and development of position to act
- Meeting of Architecture Board (or other governing council) to decide on handling changes

Outputs

- Architecture updates
- Changes to Architecture Framework and Principles
- New Request for Architecture Work (to move to another cycle)