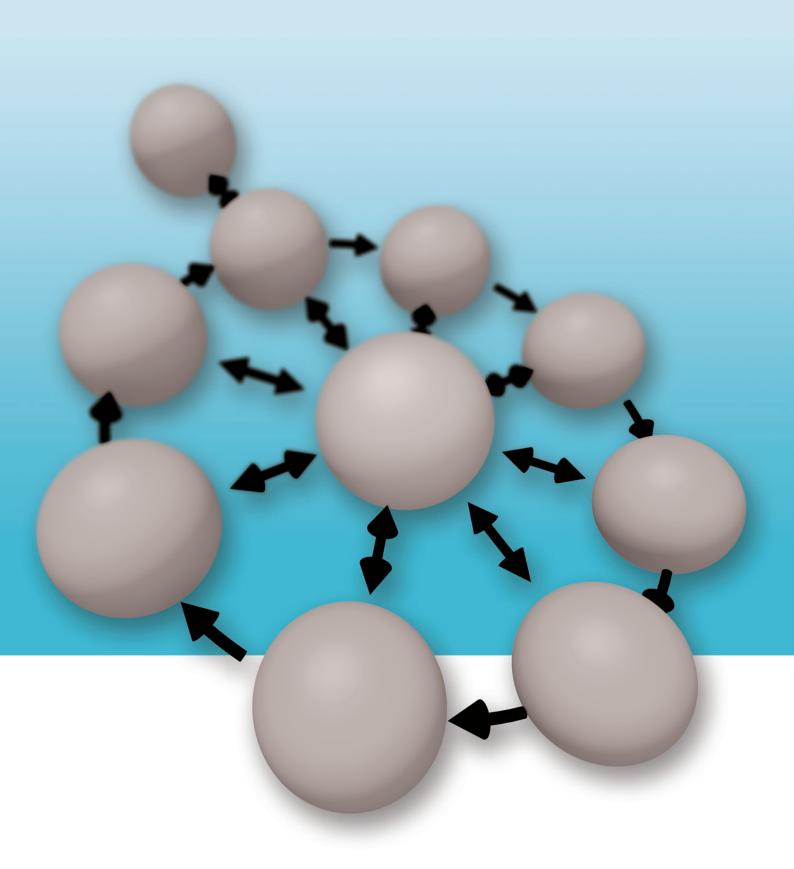
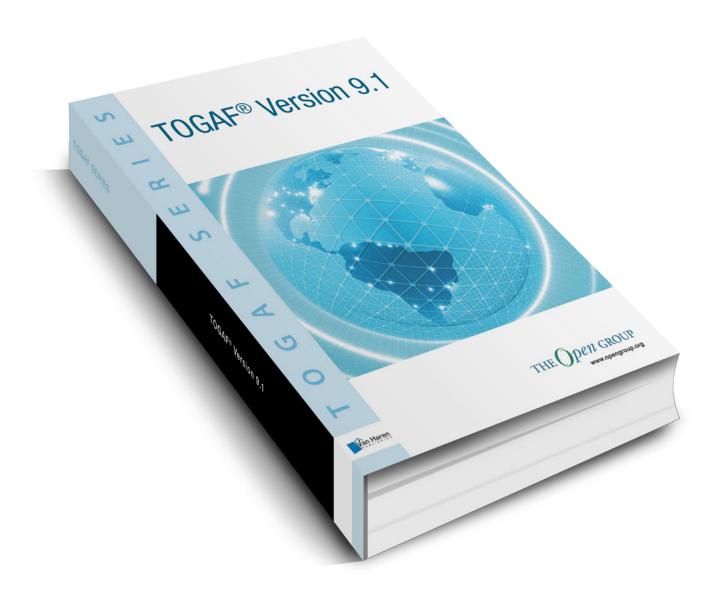
# TOGAF®9.1 IN PICTURES







TOGAF®9.1 is an Architecture Framework which has been developed by the Open Group to provide the methods and tools for assisting in the acceptance, production, use and maintenance of an Enterprise Architecture.

# CONTENTS TOGAF®9.1 in Pictures

This guide has been designed to give a quick and simple pictorial introduction to TOGAF®9. TOGAF® is a registerd trademark of The Open Group.

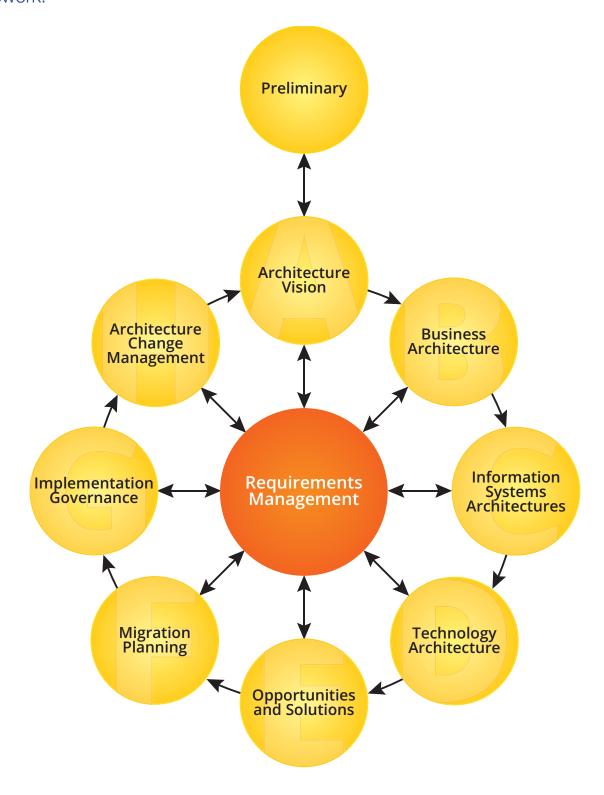
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### Architecture Development Method

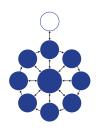
The ADM is the core of TOGAF®. It uses a step-by-step approach to create a method for developing Enterprise Architecture and helping to establish a framework.

The ADM is an iterative process, not only as the whole process but also between and within phases.



## PRELIMINARYPHASE

### Framework and Principles



### **PRE:INPUTS**

- Architecture Principles
- Organizational model for EA
- Tailored Architecture Framework

### PRE:STEPS

Scope the enterprise organizations impacted

Identify and establish architecture principles

Select and tailor architecture framework(s)

Confirm governance and support frameworks

Define and establish enterprise architecture team and organization

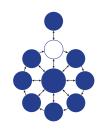
Implement Architecture Tools

### **PRE:**OUTPUTS

- Architecture Principles
- Business Principles, Business Goals, and Business Drivers
- Organizational model for EA

- Request for Architecture Work
- Tailored Architecture Framework

# PHASEA Architecture Vision



### **A**:INPUTS

- Architecture Building Blocks
- Architecture Principles
- Architecture Vision
- Business Principles, Business Goals and Business Drivers
- Organizational model for EA
- Request for Architecture Work

- Statement of Architecture Work
- Tailored Architecture Framework

### A:STEPS

Establish the architecture project

Identify stakeholders, concerns, and business requirements

Evaluate business capabilities

Confirm and elaborate business goals, business drivers and constraints

Assess readiness for business transformation

Define scope

Develop architecture vision

Confirm and elaborate architecture principles, including business principles

Define the target architecture value propositions and KPIs

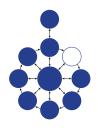
Identify the business transformation risks and mitigation activities

Develop enterprise architecture plans and Statement of Architecture Work; secure approval

### A:OUTPUTS

- Architecture Principles
- Business Principles, Business Goals, and Business Drivers
- Statement of Architecture Work
- Architecture Vision
- Communications Plan
- Capability Assessment
- Tailored Architecture Framework

# PHASEB Business Architecture



### **B**:INPUTS

- Architecture Building Blocks
- Architecture principles
- Architecture Vision
- Business Principles, Business Goals and Business Drivers
- Request for Architecture Work
- Capability Assessment

- Communications Plan
- Organization model for EA
- Statement of Architecture Work
- Tailored Architecture Framework

#### **B**:STEPS

Select reference models, viewpoints and tools

Perform Gap Analysis

Define Roadmap Components

Finalize the Business Architecture

Create Architecture Definition Document

Develop Baseline Business Architecture Description

Develop Target Business Architecture Description

Resolve impacts across the Architecture Landscape

Conduct formal stakeholder review

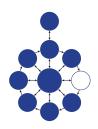
### **B**:OUTPUTS

- Architecture Principles
- Architecture Requirements Specification
- Architecture Roadmap

- Business Principles, Business Goals and Business Drivers
- Statement of Architecture Work

### PHASEC

### Information Systems Architecture



### C:INPUTS

- Architecture Building Blocks
- Architecture Definition Document
- Architecture Principles
- Architecture Requirements Specification
- Architecture Roadmap
- Architecture Vision

- Request for Architecture Work
- Capability Assessment
- Communications Plan
- Organization Model for EA
- Statement of Architecture Work
- Tailored Architecture Framework

#### C:STEPS

Select reference models, viewpoints and tools

Perform Gap Analysis

Define Roadmap Components

Finalize the Information Architecture

Create Architecture Definition Document

Develop Baseline Information Architecture Description

Develop Target Information Architecture Description

Resolve impacts across the Architecture Landscape

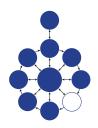
Conduct formal stakeholder review

### C:OUTPUTS

- Architecture Definition Document
- Architecture Principles
- Architecture Requirements Specification

- Architecture Roadmap
- Statement of Architecture Work

# PHASED Technology Architecture



### **D**:INPUTS

- Architecture Building Blocks
- Architecture Definition Document
- Architecture Principles
- Architecture Requirements Specification
- Architecture Roadmap
- Architecture Vision

- Capability Assessment
- Communications Plan
- Organizational model for EA
- Statement of Architecture Work
- Tailored Architecture Framework

#### **D**:STEPS

Select reference models, viewpoints and tools

Perform Gap Analysis

Define Roadmap Components

Finalize the Technology Architecture

Create Architecture Definition Document

Develop Baseline Technology Architecture Description

Develop Target Technology Architecture Description

Resolve impacts across the Architecture Landscape

Conduct formal stakeholder review

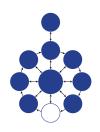
### **D**:OUTPUTS

- Architecture Definition Document
- Architecture Principles
- Architecture Requirements Specification

- Architecture Roadmap
- Statement of Architecture Work

## PHASEE

### Opportunities and Solutions



### **E**:INPUTS

- Architecture Definition Document
- Architecture Principles
- Architecture Roadmap
- Architecture Vision
- Capability Assessment
- Communications Plan

- Organizational model for EA
- Statement of Architecture Work
- Tailored Architecture Framework

#### **E**:STEPS

Determine/confirm key corporate change attributes

Review IT requirements from a functional perspective

Consolidate and reconcile interoperability requirements

Formulate high-level Implementation and Migration Strategy

Identify and group major work packages

Determine business constraints for implementation

Review and consolidate gap analysis results from Phases B to D

Refine and validate dependencies

Confirm readiness and risk for business transformation

Identify Transition Architectures

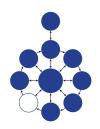
Create portfolio and project charters and update the architectures

### **E**:OUTPUTS

- Architecture Requirements Specification
- Architecture Roadmap
- Capability Assessment

- Implementation and Migration Plan
- Transition Architecture

# PHASEF Migration Planning



### F:INPUTS

- Architecture Principles
- Architecture Roadmap
- Architecture Vision
- Capability Assessment
- Communications Plan
- Organizational model for EA

- Statement of Architecture Work
- Tailored Architecture Framework

#### F:STEPS

Confirm management framework interactions for the Implementation Plan

Assign a business value to each project

Estimate resource requirements, project timing and availability/delivery vehicle

Prioritize the migration projects through the conduct of a cost/benefit assessment and risk validation

Confirm Transition Architecture increments/phases and update Architecture Definition Document

Generate the Architecture Implementation Roadmap (time-lined)

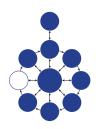
Establish the architecture evolution cycle and document lessons learned

### F:OUTPUTS

- Architecture Building Blocks
- Architecture Contract
- Architecture Requirements Specification

- Architecture Roadmap
- Implementation and Migration Plan
- Request for Architecture Work
- Transition Architecture

# PHASEG Implementation Governance



### **G**:INPUTS

- Architecture Contract
- Architecture Definition Document
- Architecture Principles
- Architecture Roadmap
- Architecture Vision
- Implementation Governance model

- Organizational model for EA
- Request for Architecture Work
- Statement of Architecture Work
- Tailored Architecture Framework
- Transition Architecture

### **G**:STEPS

Confirm scope and priorities for deployment with development management

Guide development of solutions deployment

Identify deployment resources and skills

Perform enterprise architecture compliance reviews

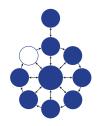
Implement business and IT operations

Perform post-implementation review and close the implementation

### **G**:OUTPUTS

- Compliance Assessment
- Solution Building Blocks

# PHASEH Change Management



### **H**:INPUTS

- Architecture Definition Document
- Architecture Principles
- Architecture Roadmap
- Architecture Vision
- Compliance Assessment
- Implementation Governance model

- Organizational model for EA
- Statement of Architecture Work
- Tailored Architecture Framework
- Transition Architecture

### H:STEPS

Establish Value Realization process

Provide Analysis for Architecture Change Management

Develop Change Requirements to meet Performance Targets

**Deploy Monitoring Tools** 

Manage Risks

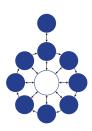
Manage Governance Process

Activate the process to implement Change

### H:OUTPUTS

- Architecture Building Blocks
- Requirements Impact Assessment

### REQUIREMENTSMANAGEMENT



### **RM**:INPUTS

- The Inputs to the Requirement Management process are the requirements-related outputs from each ADM phase
- The first high-level requirements are produced as part of the Architecture Vision

### RM:STEPS

Identify/document requirements

Identify changed requirements and record priorities; identify and resolve conflicts; generate requirements impact statement

Implement requirements arising from Phase H

Update the requirements repository

Baseline requirements

Monitor baseline requirements

Assess impact of changed requirements on current and previous ADM phases

Implement change in the current phase

Assess and revise gap analysis for past phases

### **RM**:OUTPUTS

- Changed Requirements
- Requirements Impact Assessment

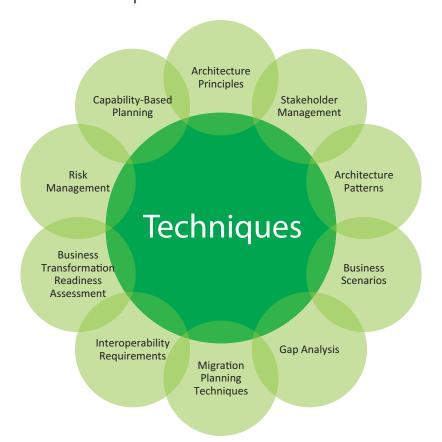
## **GUIDELINES**

for Adapting the ADM Process



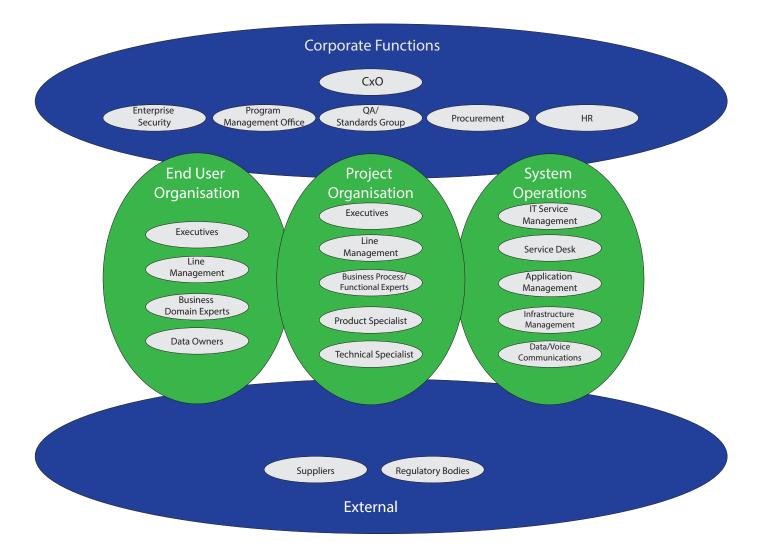
## **TECHNIQUES**

for Architecture Development



### TECHNIQUE Stakeholder Analysis

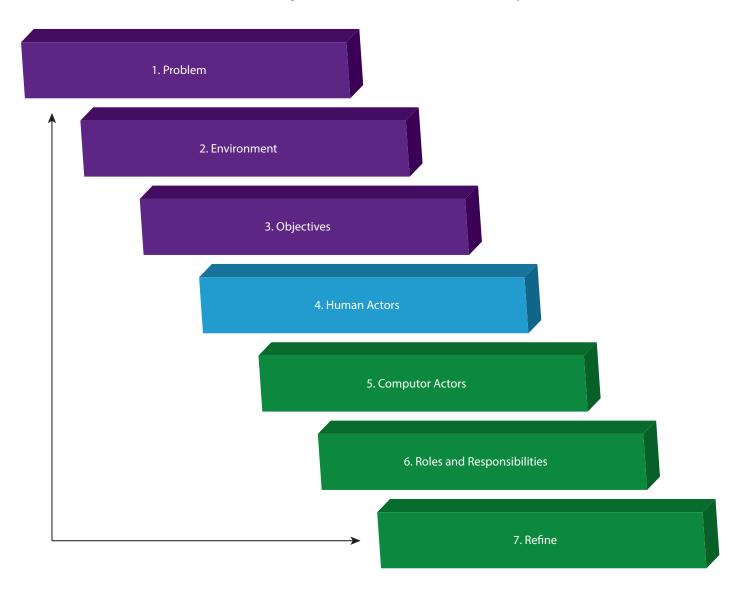
Win support from stakeholders.



## **TECHNIQUE**

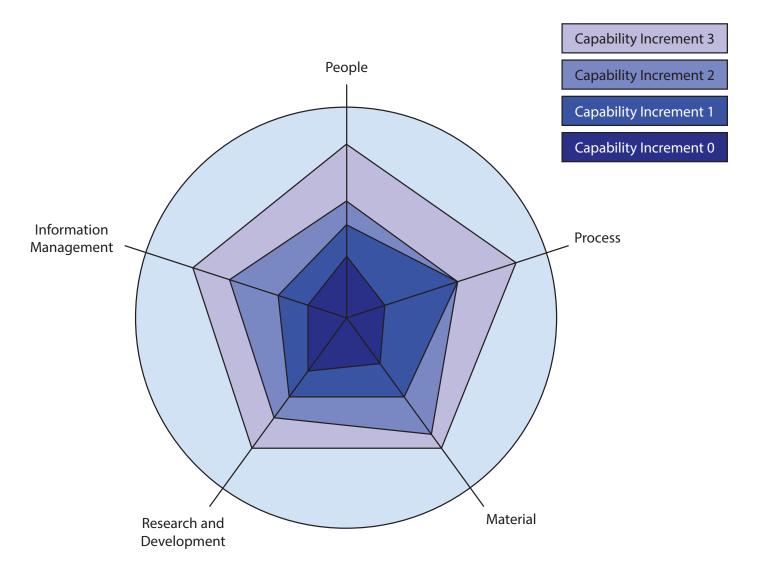
### **Business Scenarios**

Method within a method to identify and articulate business requirements.



# TECHNIQUE Capability Based Planning

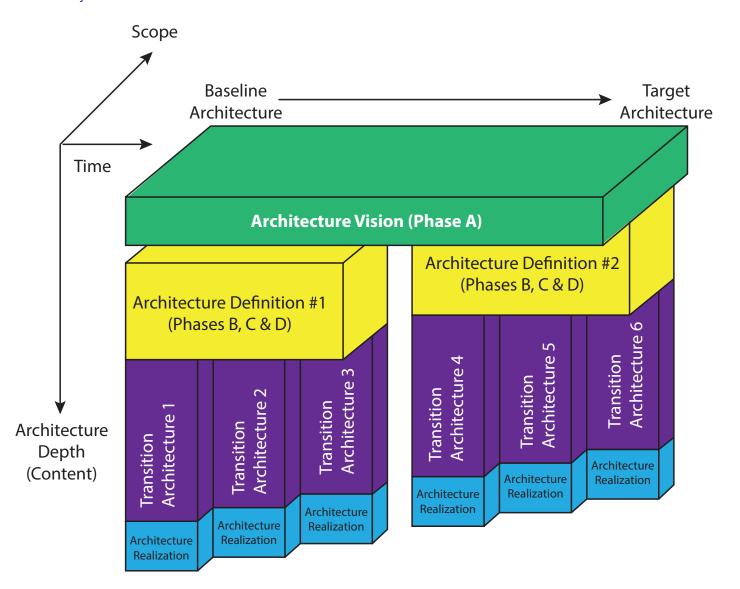
Capabilities of the enterprise.



# TECHNIQUE Architecture Partitioning

### Break into bite-size chunks:

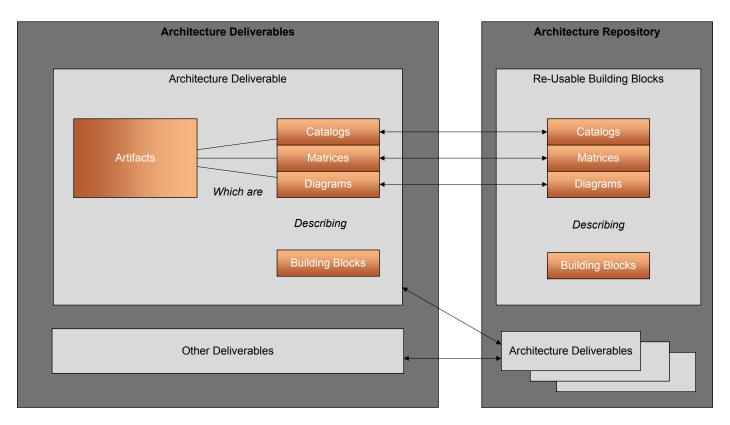
- Enterprise Scope
- Architecture Domains
- Level of Detail
- Project Schedules



## ARCH.CONTENTFRAMEWORK

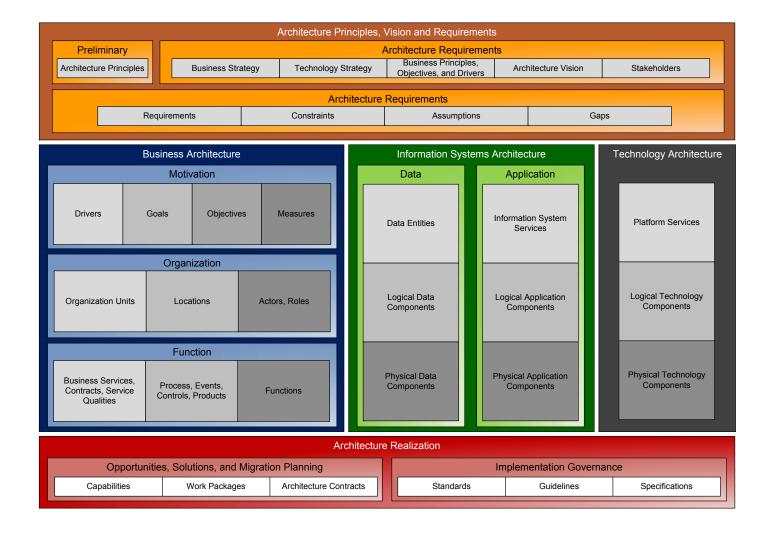
### Description of Architectural Work Products

Deliverables, artifacts, building blocks and relationships



### CONTENT**METAMODEL**

### Definition of Building Blocks and Relationships

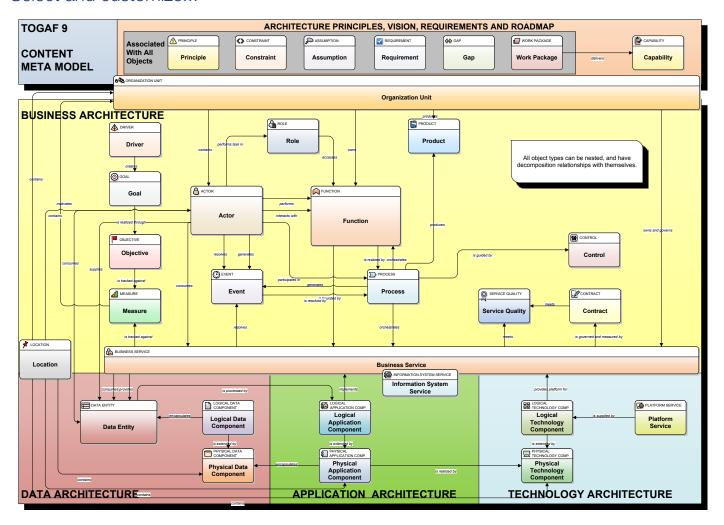


## CONTENTMETAMODEL

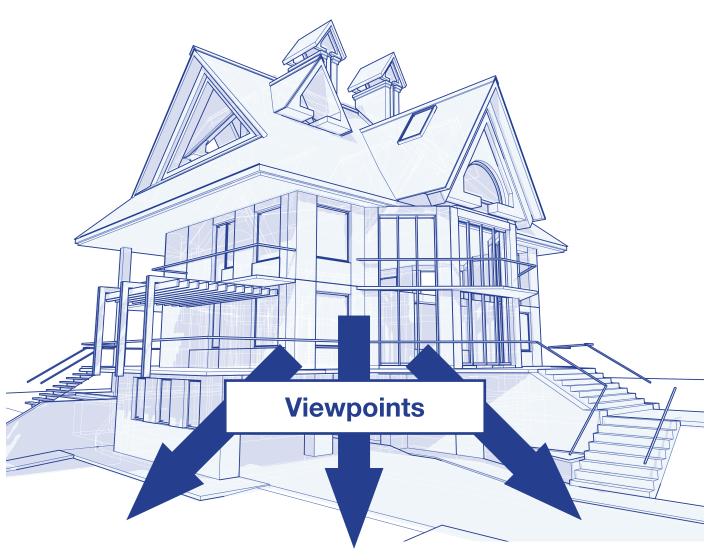
### **Broken Down**

#### **Entities and their interactions**

Select and customize...



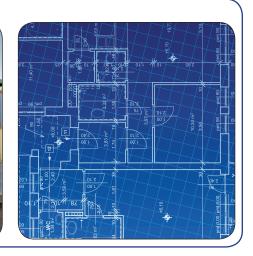
## **VIEWPOINTS**AND**VIEWS**











Salesperson

Electrician

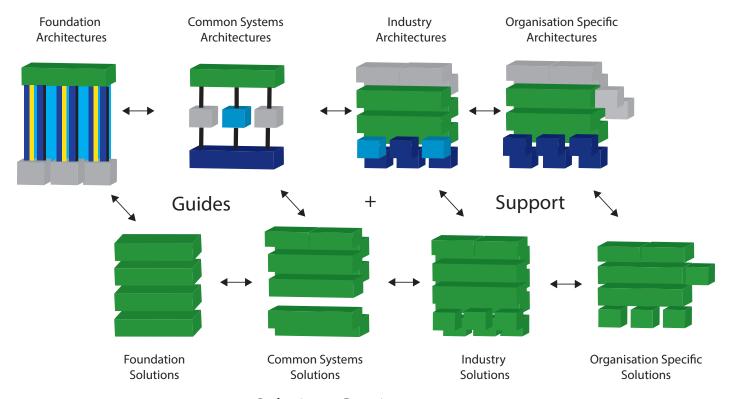
Builder

**Stakeholder** 

# **ENTERPRISE**CONTINUUM

### A Classification Framework

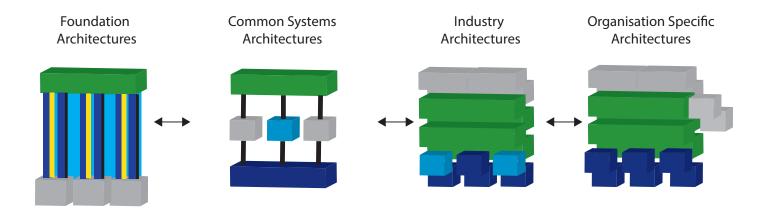
### **Architecture Continuum**



**Solutions Continuum** 

## **ARCHITECTURE**CONTINUUM

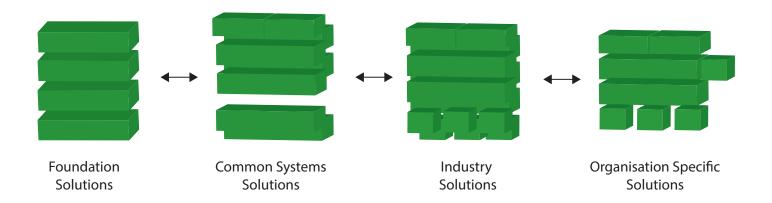
Search Progressively more General Architectures for Candidate Components



Adapt Architectures to Needs of Organization

# SOLUTIONSCONTINUUM

Search Progressively more General Solutions for Candidate Components

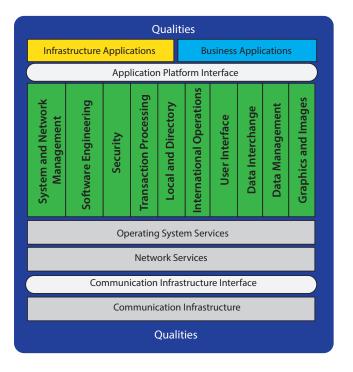


Adapt Solutions to Needs of Organization

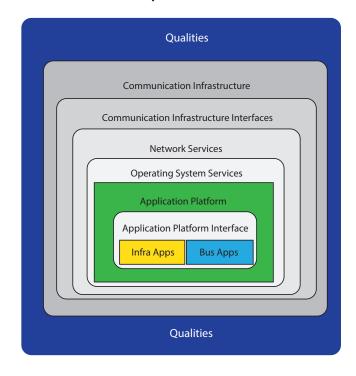


### A model and taxonomy of generic platform services

#### **Side View**



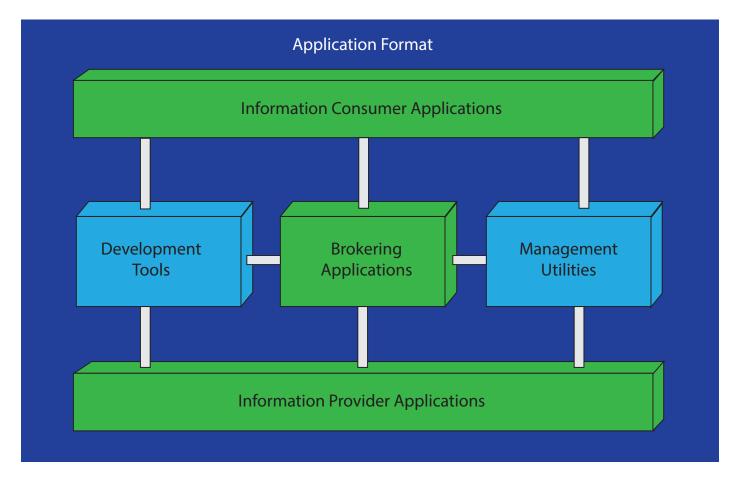
**Top Down View** 





Model for business applications and infrastructure applications

Security Qualities Mobility

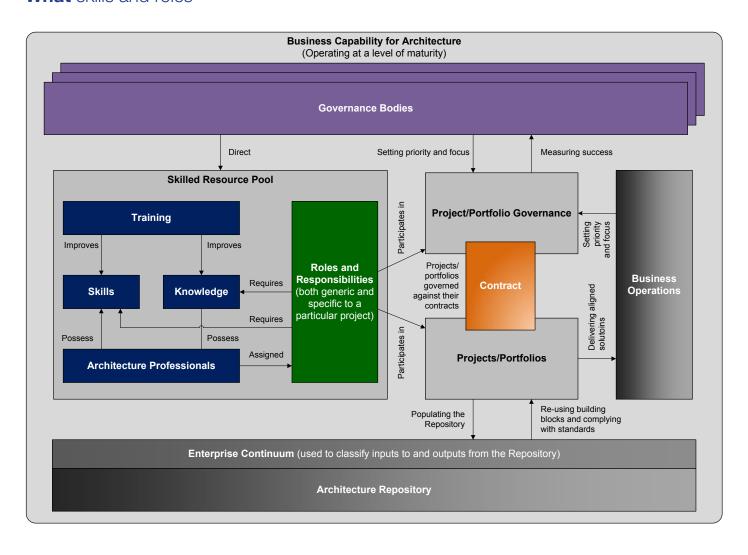


Performance SLAs Qualities Management Policy

### Capability Framework

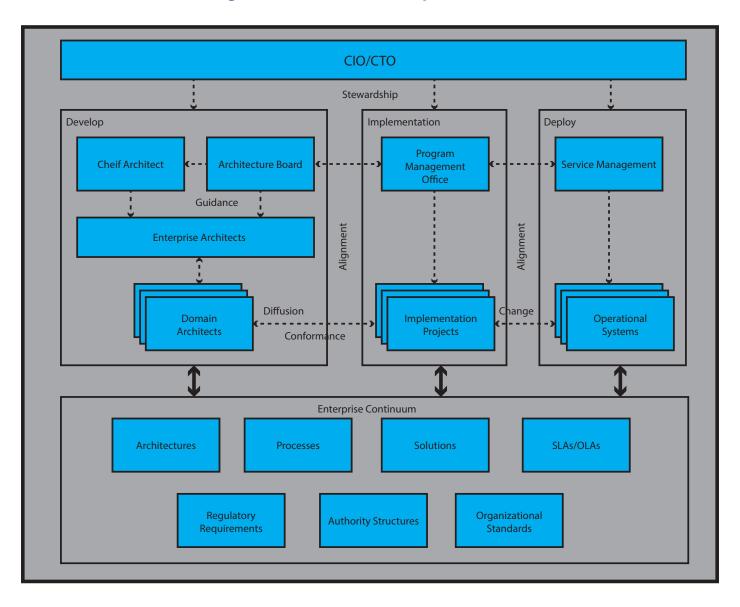
#### **Structured Definition**

**How** to establish an Enterprise Architecture function **Who** organizes **What** skills and roles



### Governance

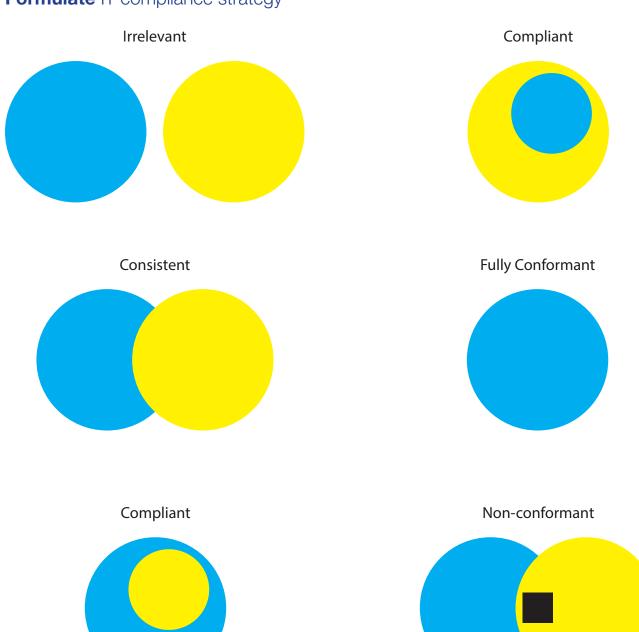
### **Creation and monitoring of architectural components**



### Compliance Levels

### **Compliance of projects**

**Essential** part of architecture governance **Formulate** IT compliance strategy



### Skills Framework

**Define** roles, skills and experience **Measure** staff development right fit

Roles	Enterprise Architecture Business	Program / Project Manager	IT Designer
Architecture Views and Viewpoints Design	4	2	2
Building Block Design	4	2	3
Solutions Modeling	4	2	3
Benefits Analysis	4	4	2
Business Interworking	4	3	1
Systems Behavior	3	3	2
Project Management	3	4	2

# SUMMARY of TOGAF®9

#### The Modules of TOGAF®9

#### The ADM

Steps to develop an Enterprise Architecture

#### **ADM Guidelines and Techniques**

Support application of the ADM

#### **Architecture Content Framework**

Detailed model of architectural work products

#### **The Enterprise Continuum**

Model for structuring a virtual repository, classification framework

#### **TOGAF® Reference Models**

Technical Reference Model; Integrated Information Infrastructure Reference Model

#### **The Architecture Capability Framework**

Structured definition or organizations, roles and responsibilities to establish and operate an Enterprise Architecture

### **MUCH**MORE...

### Get a Live Product Demonstration

For more information on TOGAF®9 and its application in the iServer TOGAF®9 Quick Start Solution, register for an iServer Demonstration at:

### http://orbussoftware.com/demo

A web demonstration is free and will only take an hour of your time!

One of our experienced process consultants can demonstrate the software to you using a repository based on the TOGAF®9 Framework.

