TOGAF 9 In Pictures
TOGAF 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”.

This guide has been designed to give a quick and simple pictorial introduction to TOGAF9, broken down into 6 main ‘modules’, following the modular structure of TOGAF9, which has been a change from TOGAF8.
Architecture Development Method

A STEP-BY-STEP approach

A METHOD for developing EA

THE CORE of TOGAF

HELPS ESTABLISH an EA Framework
ADM is an Iterative Process

- **OVER** the whole process;
- **BETWEEN** phases;
- **WITHIN** phases

- New Iteration
- New Decisions
### ADM Phase: Preliminary

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Steps</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Architecture Principles</td>
<td>Scope the enterprise organizations impacted</td>
<td>• Architecture Principles</td>
</tr>
<tr>
<td>• Organizational model for EA</td>
<td>Implement Architecture Tools</td>
<td>• Business Principles, Business Goals, and Business Drivers</td>
</tr>
<tr>
<td>• Tailored Architecture Framework</td>
<td>Select and tailor architecture framework(s)</td>
<td>• Organizational model for EA</td>
</tr>
<tr>
<td></td>
<td>Define and establish enterprise architecture team and organization</td>
<td>• Request for Architecture Work</td>
</tr>
<tr>
<td></td>
<td>Identify and establish architecture principles</td>
<td>• Tailored Architecture Framework</td>
</tr>
</tbody>
</table>
ADM Phase A: Architecture Vision

**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

**Steps**
- Establish the architecture project
- Identify stakeholders, concerns, and business requirements
- Confirm and elaborate architecture principles, including business principles
- Evaluate business capabilities
- Develop architecture vision
- Define scope
- Assess readiness for business transformation
- 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

**Outputs**
- Architecture Principles
- Business Principles, Business Goals, and Business Drivers
- Statement of Architecture Work
- Architecture Vision
- Communications Plan
- Capability Assessment
- Tailored Architecture Framework
<table>
<thead>
<tr>
<th>Inputs</th>
<th>Steps</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Architecture Building Blocks</td>
<td>Select reference models, viewpoints and tools</td>
<td>• Architecture Principles</td>
</tr>
<tr>
<td>• Architecture principles</td>
<td>Resolve impacts across the Architecture Landscape</td>
<td>• Architecture Requirements Specification</td>
</tr>
<tr>
<td>• Architecture Vision</td>
<td>Conduct formal stakeholder review</td>
<td>• Architecture Roadmap</td>
</tr>
<tr>
<td>• Business Principles, Business Goals and Business Drivers</td>
<td></td>
<td>• Business Principles, Business Goals and Business Drivers</td>
</tr>
<tr>
<td>• Request for Architecture Work</td>
<td></td>
<td>• Statement of Architecture Work</td>
</tr>
<tr>
<td>• Capability Assessment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Communications Plan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Organization model for EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Statement of Architecture Work</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Tailored Architecture Framework</td>
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</tr>
</tbody>
</table>

ADM Phase B: Business Architecture

Select reference models, viewpoints and tools → Resolve impacts across the Architecture Landscape → Conduct formal stakeholder review

Develop Baseline Business Architecture Description → Define Roadmap Components → Finalize the Business Architecture

Develop Target Business Architecture Description → Perform Gap Analysis → Create Architecture Definition Document
## ADM Phase C: Inf. Systems Architecture

### 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

### Steps
- **Select reference models, viewpoints and tools**
- **Resolve impacts across the Architecture Landscape**
- **Conduct formal stakeholder review**
- **Develop baseline Information Architecture Description**
- **Define Roadmap Components**
- **Finalize the Information Architecture**
- **Perform Gap Analysis**
- **Create Architecture Definition Document**

### Outputs
- Architecture Definition Document
- Architecture Principles
- Architecture Requirements Specification
- Architecture Roadmap
- Statement of Architecture Work

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**Phase C includes Data Architecture and Application Architecture**
<table>
<thead>
<tr>
<th>Inputs</th>
<th>Steps</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Architecture Building Blocks</td>
<td>Select reference models, viewpoints and tools</td>
<td>• Architecture Definition Document</td>
</tr>
<tr>
<td>• Architecture Definition Document</td>
<td>Resolve impacts across the Architecture Landscape</td>
<td>• Architecture Principles</td>
</tr>
<tr>
<td>• Architecture Principles</td>
<td>Develop baseline Technology Architecture Description</td>
<td>• Architecture Requirements Specification</td>
</tr>
<tr>
<td>• Architecture Requirements Specification</td>
<td>Define Roadmap Components</td>
<td>• Architecture Roadmap</td>
</tr>
<tr>
<td>• Architecture Roadmap</td>
<td>Perform Gap Analysis</td>
<td>• Statement of Architecture Work</td>
</tr>
<tr>
<td>• Architecture Vision</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Capability Assessment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Communications Plan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Organizational model for EA</td>
<td></td>
<td></td>
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<tr>
<td>• Statement of Architecture Work</td>
<td></td>
<td></td>
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<tr>
<td>• Tailored Architecture Framework</td>
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</tr>
</tbody>
</table>
## ADM Phase E: Opportunities and Solutions

### 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

### Steps
- Determine/confirm key corporate change attributes
- Formulate high-level Implementation and Migration Strategy
- Identify and group major work packages
- Determine business constraints for implementation
- Confirm readiness and risk for business transformation
- Identify Transition Architectures
- Review and consolidate gap analysis results from Phases B to D
- Refine and validate dependencies
- Create portfolio and project charters and update the architectures
- Review IT requirements from a functional perspective
- Consolidate and reconcile interoperability requirements

### Outputs
- Architecture Requirements Specification
- Architecture Roadmap
- Capability Assessment
- Implementation and Migration Plan
- Transition Architecture
ADM Phase F: Migration Planning

**Inputs**
- Architecture Principles
- Architecture Roadmap
- Architecture Vision
- Capability Assessment
- Communications Plan
- Organizational model for EA
- Statement of Architecture Work
- Tailored Architecture Framework

**Steps**
- Confirm management framework interactions for the Implementation Plan
- Assign 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
- Generate the Architecture Implementation Roadmap (time-lined)
- Confirm Transition Architecture increments/phase s and Update Architecture Definition Document

**Outputs**
- Architecture Building Blocks
- Architecture Contract
- Architecture Requirements Specification
- Architecture Roadmap
- Implementation and Migration Plan
- Request for Architecture Work
- Transition Architecture
# ADM Phase G: Implementation Governance

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Steps</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture Contract</td>
<td>Confirm scope and priorities for deployment with development management</td>
<td>• Compliance Assessment</td>
</tr>
<tr>
<td>Architecture Definition Document</td>
<td>Perform post-implementation review and close the implementation</td>
<td>• Solution Building Blocks</td>
</tr>
<tr>
<td>Architecture Principles</td>
<td>Identify deployment resources and skills</td>
<td></td>
</tr>
<tr>
<td>Architecture Roadmap</td>
<td>Implement business and IT operations</td>
<td></td>
</tr>
<tr>
<td>Architecture Vision</td>
<td>Guide development of solutions deployment</td>
<td></td>
</tr>
<tr>
<td>Implementation Governance model</td>
<td>Perform enterprise architecture compliance reviews</td>
<td></td>
</tr>
<tr>
<td>Organizational model for EA</td>
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<tr>
<td>Request for Architecture Work</td>
<td></td>
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<tr>
<td>Statement of Architecture Work</td>
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<tr>
<td>Tailored Architecture Framework</td>
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<tr>
<td>Transition Architecture</td>
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</tbody>
</table>

**Steps:**
- Confirm scope and priorities for deployment with development management
- Identify deployment resources and skills
- Guide development of solutions deployment
- Perform post-implementation review and close the implementation
- Implement business and IT operations
- Perform enterprise architecture compliance reviews

**Outputs:**
- Compliance Assessment
- Solution Building Blocks
ADM Phase H: Change Management

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Steps</th>
<th>Outputs</th>
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</thead>
<tbody>
<tr>
<td>• Architecture Definition Document</td>
<td>Establish Value Realization process</td>
<td>• Architecture Building Blocks</td>
</tr>
<tr>
<td>• Architecture Principles</td>
<td>Manage Governance Process</td>
<td>• Requirements Impact Assessment</td>
</tr>
<tr>
<td>• Architecture Roadmap</td>
<td>Develop Change Requirements to meet Performance Targets</td>
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</tr>
<tr>
<td>• Architecture Vision</td>
<td>Provide Analysis for Architecture Change Management</td>
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</tr>
<tr>
<td>• Compliance Assessment</td>
<td>Manage Risks</td>
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<tr>
<td>• Implementation Governance model</td>
<td>Deploy Monitoring Tools</td>
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<tr>
<td>• Organizational model for EA</td>
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<td></td>
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<tr>
<td>• Statement of Architecture Work</td>
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<tr>
<td>• Tailored Architecture Framework</td>
<td></td>
<td></td>
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<tr>
<td>• Transition Architecture</td>
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</table>
ADM Phase: Requirements Management

<table>
<thead>
<tr>
<th>Inputs</th>
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<tbody>
<tr>
<td>The Inputs to the Requirement Management process are the requirements-related outputs from each ADM phase</td>
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</table>

<table>
<thead>
<tr>
<th>Steps</th>
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<tbody>
<tr>
<td>The first high-level requirements are produced as part of the Architecture Vision</td>
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</table>

<table>
<thead>
<tr>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changed Requirements</td>
</tr>
<tr>
<td>Requirements Impact Assessment</td>
</tr>
</tbody>
</table>

| Identify/document requirements |
| Implement requirements arising from Phase H |
| Update the requirements repository |
| Baseline requirements |
| Assess impact of changed requirements on current and previous ADM phases |
| Implement change in the current phase |
| Monitor baseline requirements |
| Identify changed requirements and record priorities; identify and resolve conflicts; generate requirements impact statement |
| Assess and revise gap analysis for past phases |
Win Support

FROM Stakeholders
Technique: Business Scenarios

Method within a Method to...

IDENTIFY

ARTICULATE

Business requirements
Manage

**CAPABILITIES** of the enterprise
Break into Bite-Size Chunks

ENTERPRISE SCOPE

ARCHITECTURE DOMAINS

LEVEL OF DETAIL

PROJECT SCHEDULES
Description of Architectural Work Products

Architecture Deliverables

- Artifacts
  - Catalogs
  - Matrices
  - Diagrams

Which are describing Building Blocks

Other Deliverables

Architecture Repository

- Catalogs
- Matrices
- Diagrams

Describing Re-Usable Building Blocks

Building Blocks

Architecture Deliverables

DELIVERABLES

ARTIFACTS

BUILDING BLOCKS

RELATIONSHIPS
Content Metamodel

Definition of Building Blocks and Relationships
Content Metamodel Broken Down

Entities and their Interactions

Select and Customize…
Viewpoints and Views

Stakeholder

Viewpoints

View

Salesperson

Plumber

Electrician

Builder
A Classification Framework

ARCHITECTURE CONTINUUM

Foundation Architectures

Common Systems Architectures

Industry Architectures

Organization-Specific Architectures

Guides & Supports

Foundation Solutions

Common Systems Solutions

Industry Solutions

Organization-Specific Solutions

SOLUTIONS CONTINUUM
Architecture Continuum

Search Progressively more General Architectures for Candidate Components

Foundation Architectures  Common Systems Architectures  Industry Architectures  Organization-Specific Architectures

Adapt Architectures to Needs of Organization
Solutions Continuum

- Search Progressively more General Solutions for Candidate Components
- Foundation Solutions
  - Common Systems Solutions
  - Industry Solutions
  - Organization-Specific Solutions
- Adapt Solutions to Needs of Organization
Technical Reference Model

A MODEL AND TAXONOMY of generic platform services
Integrated Information Infrastructure Reference Model

MODEL for business applications and infrastructure applications
Structured Definition

**HOW** to establish an Enterprise Architecture Function

**WHO** – Organizations

**WHAT** – Skills, Roles
Architecture Governance

Creation and Monitoring of Architectural Components

GUIDANCE

EFFECTIVE?

EQUITABLE?

SUSTAINABLE?
Architecture Compliance Levels

Compliance of Projects

**ESSENTIAL** part of architecture governance

**FORMULATE** *IT compliance Strategy*

- Irrelevant
- Conformant
- Consistent
- Fully Conformant
- Compliant
- Non-conformant
## Define

### ROLES & SKILLS & EXPERIENCE

<table>
<thead>
<tr>
<th>Roles</th>
<th>Enterprise Architecture Business</th>
<th>Program / Project Manager</th>
<th>IT Designer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture Views &amp; Viewpoints Design</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Building Block Design</td>
<td>4</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Solutions Modelling</td>
<td>4</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Benefits Analysis</td>
<td>4</td>
<td>4</td>
<td>2</td>
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<tr>
<td>Business Interworking</td>
<td>4</td>
<td>3</td>
<td>1</td>
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<tr>
<td>Systems Behaviour</td>
<td>3</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Project Management</td>
<td>3</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>
The Modules of TOGAF9

- **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 of organizations, roles and responsibilities to establish and operate an Enterprise Architecture
Get a Live Product Demonstration

For a more information on TOGAF9 and its application in the iServer TOGAF9 Quick Start Solution, register for an iServer Demonstration.

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 TOGAF9 Framework.

To book your demo, please send us an email and we will contact you to build your meeting agenda.