

#### Module Objectives

The objectives of this module are to understand:

- The objectives of Phase B, Business Architecture
- The Approach
- What it consists of
- What inputs are needed for it
- What the outputs are

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#### **Business Architecture Objectives**

The objectives of this phase are to:

- Describe the existing Business Architecture (the baseline)
- Develop a target Business Architecture
- Analyze gaps between the baseline and target
- Select architectural viewpoints
- Select tools and techniques for viewpoints

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#### Approach

- Knowledge of the Business Architecture is a prerequisite for architecture work in the other domains (Data, Applications, Technology)
  - and so is the first activity that needs to be undertaken.
- Business Strategy defines what to achieve
- Business Architecture describes how to achieve it
- This Phase is often required to demonstrate business value of subsequent work to key stakeholders.

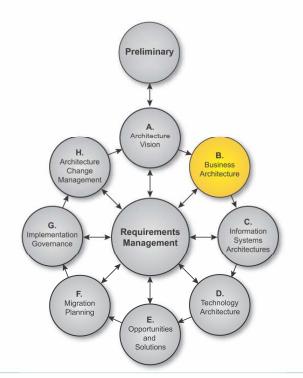
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#### Approach

- Scope depends on existing strategy and planning
  - Update and verify
  - bridge between high-level business drivers, strategy, and
  - goals on the one hand, and specific business requirements
  - Existing architecture discovery must include all relevant detail
- If there is no existing strategy or planning:
  - Identify any existing architecture definitions, then verify and update
  - New process definitions may require detailed work
- In both cases, use business scenarios to identify key business objectives and processes

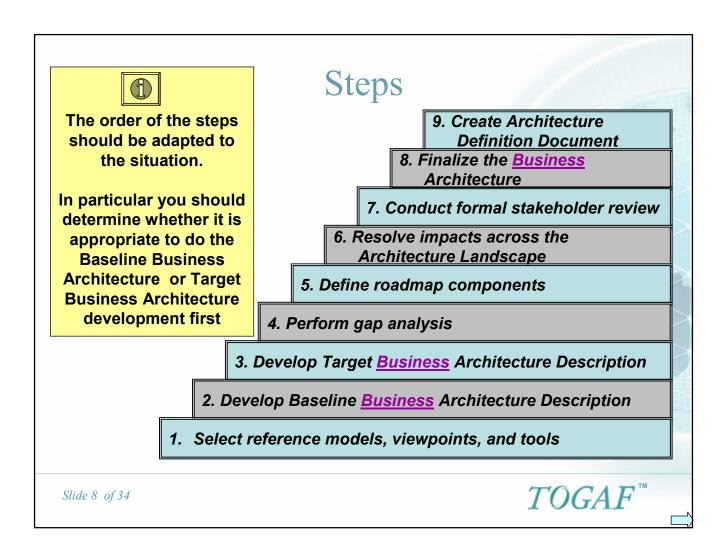
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#### Phase B: Inputs



- Request for Architecture Work
- Refined statements of Business principles, goals and drivers
- Capability Assessment
- Communications Plan
- Organization model for enterprise architecture
- Tailored Architecture Framework
- Approved Statement of Architecture Work
- Architecture Principles
- Enterprise Continuum
- Architecture Repository
- Architecture Vision
  - including the first versions of the architectures

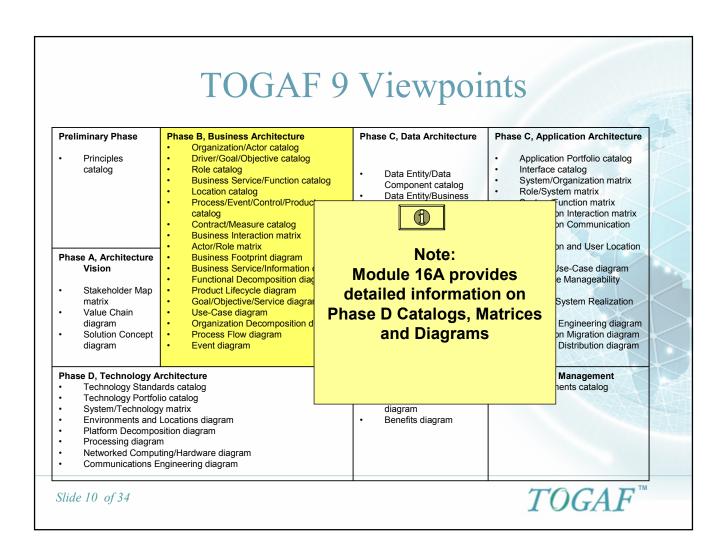
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- Select relevant Business Architecture resources from the Architecture Repository, on the basis of the business drivers, stakeholders and concerns.
- Select relevant Business Architecture viewpoints that will enable the architect to demonstrate how the stakeholder concerns are being addressed.
- Identify appropriate tools and techniques to be used for capture, modeling, and analysis with the viewpoints. These may be simple documents or spreadsheets, or more sophisticated modeling tools and techniques, such as activity models, business process models, use-case models, etc.

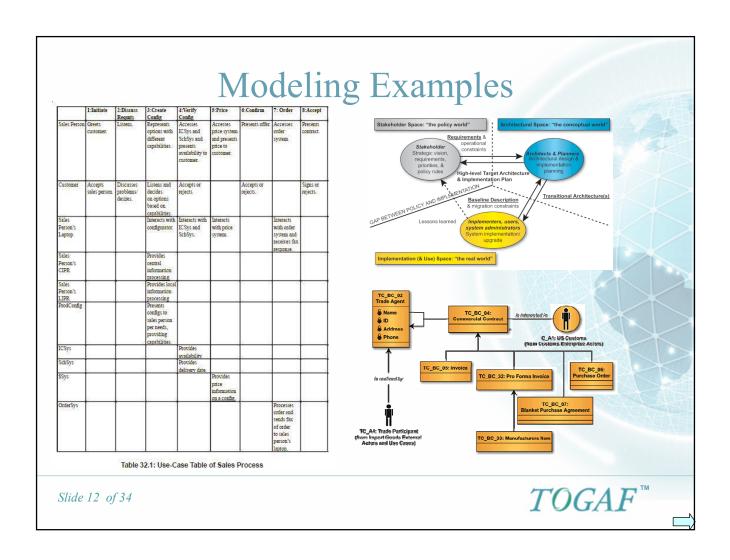
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- Determine Overall Modeling Process
  - For each viewpoint, select the models needed to support the specific view required, using the selected tool or method. Confirm all stakeholders' concerns are addressed. If not, use business scenarios to discover business requirements.
- Identify Required Service Granularity Level, Boundaries, and Contracts
  - identify which components of the architecture are functions and which are services. Specify required service levels. This can lead to the generation of formal Service Level Agreements.
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- Identify Required Catalogs of Business Building Blocks
  - Catalogs form the raw material for development of matrices and views and also act as a key resource for portfolio managing business and IT capability.

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- · Identify Types of Requirement to be Collected,
  - e.g. Functional requirements, Non-functional requirements, Assumptions, Constraints, Domain-specific Business Architecture principles, Policies, Standards, Guidelines, Specifications

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### Step 2: Develop Baseline Business Architecture Description

- Must be complete, but without unnecessary detail
- If possible, identify the relevant Business Architecture building blocks, drawing on the Architecture Repository
- If not, develop a new architecture description:
  - use the models identified within Step 1 as a guideline

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### Step 3: Develop Target Business Architecture Description

- If possible, identify the relevant Business Architecture building blocks, drawing on the Architecture Repository
- If not, develop a new architecture description:
  - use the models identified within Step 1 as a guideline

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### Step 4: Perform Gap Analysis

Verify the architecture models for internal consistency and accuracy:

- Perform trade-off analysis to resolve conflicts (if any) among the different views
- Validate that the models support the principles, objectives, and constraints
- Note changes to the viewpoint represented in the selected models from the Architecture Repository, and document
- Test architecture models for completeness against requirements
- Identify gaps between the baseline and target:
  - Create the gap matrix (see next slide).
  - Identify building blocks to be carried over, classifying them as either changed or unchanged.
  - Identify eliminated building blocks.
  - Identify new building blocks.
  - Identify gaps and classify as those that should be developed and those that should be procured.

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### Step 4: Perform Gap Analysis

Gap analysis highlights services and/or functions that have been omitted or are yet to be developed; these are the gaps. They should be marked as 'correctly eliminated' or as 'to be addressed by reinstating, developing or procuring'.

- 1. Create a matrix of business ABBs:
  - Put 'Current architecture' + 'New Services' on the vertical axis
  - Put 'Target Architecture' + 'Eliminated Services' on the horizontal axis
- 2. Mark ABBs that are common to both as 'Included'

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### Step 4: Perform Gap Analysis

- 3. Review blocks missing from current:
  - Confirm as 'Eliminated'
  - Else mark for 'Review'
- 4. Mark any 'New Services' as gap to be filled by acquiring function by either:
  - Development
  - Procurement

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### Gap Analysis Exercise

Given the following ABBs in the baseline architecture:

 Broadcast services, Video conferencing services, Enhanced telephony services, Shared screen services.

And the following ABBs in the target architecture:

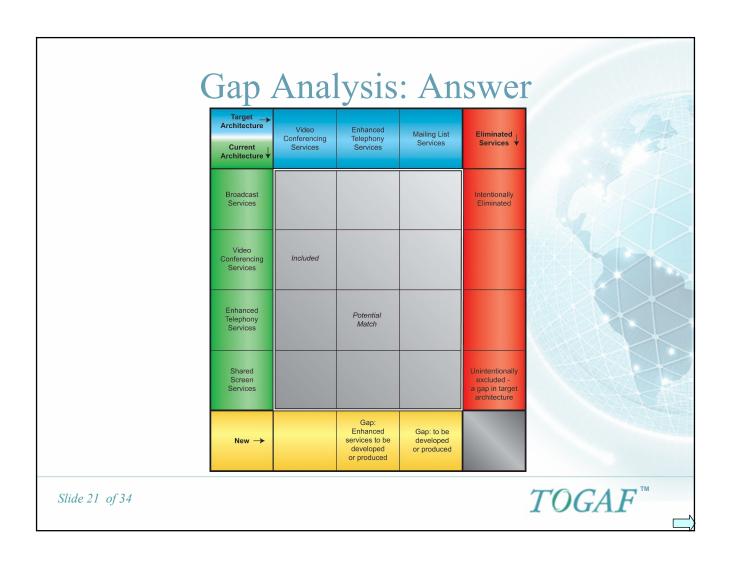
 Video conferencing services, Enhanced telephony services, Mailing list services.

Assume that 'Shared screen services' has been unintentionally excluded and that the 'Enhanced telephony services' of the baseline may match those needed.

Draw the gap analysis matrix.

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### Step 5: Define roadmap components

 The initial Business Architecture roadmap will be used as raw material to support more detailed definition of a consolidated, cross-discipline roadmap within the Opportunities & Solutions phase.

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# Step 6: Resolve impacts across the Architecture Landscape

- Architecture artifacts in the Architecture Landscape should be examined to identify:
  - Does this Business Architecture create an impact on any preexisting architectures?
  - Have recent changes been made that impact on the Business Architecture?
  - Are there any opportunities to leverage work from this Business Architecture in other areas of the organization?
  - Does this Business Architecture impact other projects?
  - Will this Business Architecture be impacted by other projects?

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### Step 7: Conduct Formal Stakeholder Review

- This is a formal review of the model and building blocks selected.
- The purpose is to compare proposed business architecture against the SOW.
- It is possible to loop back to earlier steps if necessary.

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## Step 8: Finalize the Business Architecture

- Select standards for each of the ABBs, reusing where possible from the Architecture Repository.
- Fully document each ABB.
- Cross check the overall architecture against the business goals.
- Document final requirements traceability report.
- Document final mapping of the architecture within the Architecture Repository. From the selected ABBs, identify those that might be reused and publish via the architecture repository.

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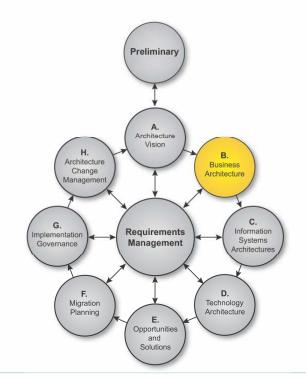
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### Step 9: Create Architecture Definition Document

- Document the rationale for all building block decisions in the architecture definition document.
- Prepare the Business sections of the architecture definition document report.
- If appropriate, use reports and/or graphics generated by modeling tools to demonstrate key views of the architecture. Route the document for review by relevant stakeholders, and incorporate feedback.

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#### Phase B: Outputs



- Statement of Architecture Work
- Validated business principles, goals and drivers
- Elaborated Business Architecture principles
- Draft Architecture Definition Document
- Draft Architecture Requirements Specification
- Business Architecture components of an Architecture Roadmap

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#### **Architecture Definition Document**

- Scope
- Goals, objectives, and constraints
- Architecture principles
- Baseline Architecture
- Architecture models (for each state to be modeled):
  - Business Architecture models
  - Data Architecture models
  - Application Architecture models
  - Technology Architecture models

- Rationale and justification for architectural approach
- Mapping to Architecture Repository:
  - Mapping to Architecture Landscape
  - Mapping to reference models
  - Mapping to standards
  - Re-use assessment
- Gap analysis
- Impact assessment

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## Architecture Definition Document – Business Architecture Components

- Baseline Business Architecture, if appropriate – this is a description of the existing Business Architecture
- Target Business Architecture, including:
  - Organization structure identifying business locations and relating them to organizational units
  - Business goals and objectives for the enterprise and each organizational unit
  - Business functions a detailed, recursive step involving successive decomposition of major functional areas into sub-functions
  - Business services the services that the enterprise and each enterprise unit provides to its customers, both internally and externally

- Business processes, including measures and deliverables
- Business roles, including development and modification of skills requirements
- Business data model
- Correlation of organization and functions – relate business functions to organizational units in the form of a matrix report
- Views corresponding to the selected viewpoints addressing key stakeholder concerns

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### Architecture Requirements Specification

- Success measures
- Architecture requirements
- Business service contracts
- Application service contracts
- Implementation guidelines
- Implementation specifications
- Implementation standards
- Interoperability requirements
- Constraints
- Assumptions

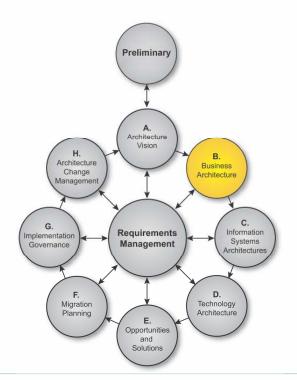
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# Architecture Requirements Specification – Business Architecture Components

- Gap analysis results
- Technical requirements
- Updated business requirements

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#### Summary



- The objective of Phase B is to document the fundamental organization of a business
  - Embodied in its business processes and people
  - Their relationships to each other and the environment
  - The principles governing its design and evolution
  - How the organization meets its business goals

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#### Test Yourself Question

Q. Choose the correct ending for the following phrase:

"Business Architecture is the first architecture activity undertaken because ..."

- A. It is often necessary to demonstrate the business value of the overall architecture activity
- B. It provides knowledge that is a prerequisite for undertaking architecture work in the other domains (data, applications, technology)
- C. It can be used to demonstrate the return on investment to key stakeholders
- D. It embodies the fundamental organization of a business and shows how an organization meets its business goals
- E. All of the above

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