

The Guide to the Business Analysis Body of Knowledge (BABOK)TM Version 3.0 Framework

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1. INTRODUCTION

DESCRIPTION

A Guide to the Business Analysis Body of Knowledge® (BABOK® Guide) is the globally recognised standard for the practice of business analysis. The BABOK® Guide describes business analysis knowledge areas, tasks, underlying competencies, techniques and perspectives on how to approach business analysis.

PURPOSE

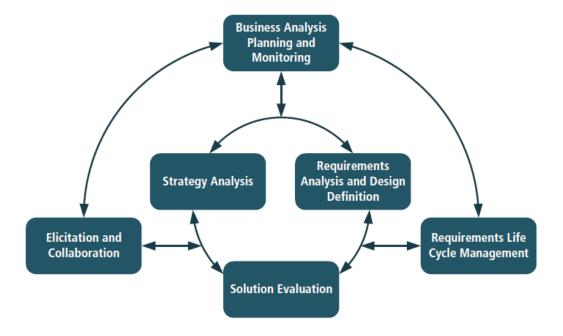
The primary purpose of the BABOK® Guide is to define the profession of business analysis and provide a set of commonly accepted practices. It helps practitioners discuss and define the skills necessary to effectively perform business analysis work. The BABOK® Guide also helps people who work with and employ business analysts to understand the skills and knowledge they should expect from a skilled practitioner.

KNOWLEDGE AREAS

Knowledge areas represent areas of specific business analysis expertise that encompass several tasks. The six knowledge areas are:

- 1. **Business Analysis Planning and Monitoring:** describes the tasks that business analysts perform to organise and coordinate the efforts of business analysts and stakeholders. These tasks produce outputs that are used as key inputs and guidelines for the other tasks throughout the BABOK® Guide.
- 2. **Elicitation and Collaboration:** describes the tasks that business analysts perform to prepare for and conduct elicitation activities and confirm the results obtained. It also describes the communication with stakeholders once the business analysis information is assembled and the ongoing collaboration with them throughout the business analysis activities.
- 3. **Requirements Life Cycle Management:** describes the tasks that business analysts perform in order to manage and maintain requirements and design information from inception to retirement. These tasks describe establishing meaningful relationships between related requirements and designs, and assessing, analyzing and gaining consensus on proposed changes to requirements and designs.
- 4. **Strategy Analysis:** describes the business analysis work that must be performed to collaborate with stakeholders in order to identify a need of strategic or tactical importance (the business need), enable the enterprise to address that need, and align the resulting strategy for the change with higher- and lower-level strategies.
- 5. **Requirements Analysis and Design Definition:** describes the tasks that business analysts perform to structure and organise requirements discovered during elicitation activities, specify and model requirements and designs, validate and verify information, identify solution options that meet business needs, and estimate the potential value that could be realised for each solution option. This knowledge area covers the incremental and iterative activities ranging from the initial concept and exploration of the need through the transformation of those needs into a particular recommended solution.
- 6. **Solution Evaluation:** describes the tasks that business analysts perform to assess the performance of and value delivered by a solution in use by the enterprise, and to recommend removal of barriers or constraints that prevent the full realization of the value.

DIAGRAM



STRUCTURE OF THE BABOK GUIDE

The core content of the BABOK® Guide is composed of business analysis tasks organized into knowledge areas. Knowledge areas are a collection of logically (but not sequentially) related tasks. These tasks describe specific activities that accomplish the purpose of their associated knowledge area. The Business Analysis Key Concepts, Underlying Competencies, Techniques, and Perspectives sections form the extended content in the BABOK® Guide that helps guide business analysis to better perform business analysis tasks.

- Business Analysis Key Concepts: define the key terms needed to understand all other content, concepts, and ideas within the BABOK® Guide.
- Underlying Competencies: provide a description of the behaviours, characteristics, knowledge, and personal qualities that support the effective practice of business analysis.
- **Techniques:** provide a means to perform business analysis tasks. The techniques described in the BABOK® Guide are intended to cover the most common and widespread techniques practiced within the business analysis community.
- **Perspectives:** describe various views of business analysis. Perspectives help business analysts working from various points of view to better perform business analysis tasks, given the context of the initiative.

Each task in the BABOK® Guide is presented in the following format:

- Purpose
- Description
- Inputs
- Elements
- Guidelines/Tools
- Techniques
- Stakeholders
- Outputs

2. BUSINESS ANALYSIS KEY CONCEPTS

DESCRIPTION

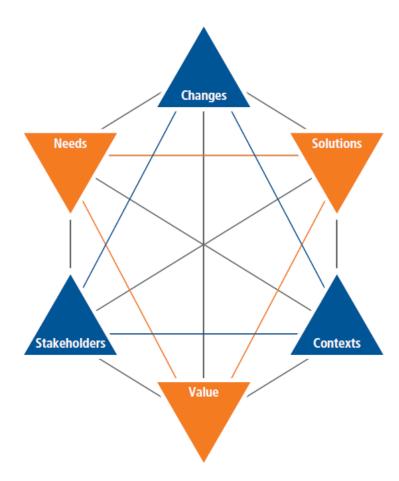
The Business Analysis Key Concepts chapter includes information that provides a foundation for all other content, concepts, and ideas within the BABOK® Guide. It provides business analysts with a basic understanding of the central ideas necessary for understanding and employing the BABOK® Guide in their daily practice of business analysis.

COMPOSITION

Business Analysis Core Concept Model™ (BACCM™): defines a conceptual framework for the business analysis profession.

- **Key Terms**: provides definitions of essential concepts, which are highlighted because of their importance to the *BABOK® Guide*.
- Requirements Classification Schema: identifies levels or types of requirements that assist the business analyst and other stakeholders in categorizing requirements.
- Stakeholders: defines roles, and characteristics of groups or individuals participating in or affected by the business analysis activities within a change.
- Requirements and Designs: describes the distinction between and the importance of requirements and designs as they relate to business analysis.

BACM DIAGRAM



Requirements Classification Schema

Business requirements

Statements of goals, objectives, and outcomes that describe why a change has been initiated. They can apply to the whole of an enterprise, a business area, or a specific initiative.

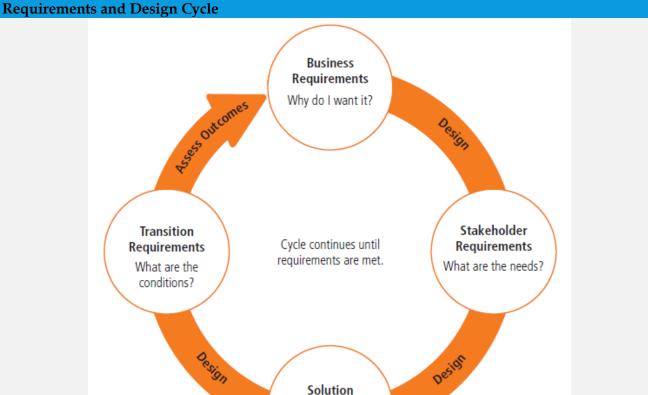
2 Stakeholder requirements

Describe the needs of stakeholders that must be met in order to achieve the business requirements. They may serve as a bridge between business and solution requirements.

3 Solution requirements

Describe the capabilities and qualities of a solution that meets the stakeholder requirements. They provide the appropriate level of detail to allow for the development and implementation of the solution. Solution requirements can be divided into two sub-categories:

- **Functional requirements**: describe the capabilities that a solution must have in terms of the behaviour and information that the solution will manage, and
- Non-functional requirements or quality of service requirements: do not relate directly to the behaviour of functionality of the solution, but rather describe conditions under which a solution must remain effective or qualities that a solution must have.
- **Transition requirements**: describe the capabilities that the solution must have and the conditions the solution must meet to facilitate transition from the current state to the future state, but which are not needed once the change is complete. They are differentiated from other requirements types because they are of a temporary nature. Transition requirements address topics such as data conversion, training, and business continuity.



Requirements

What do I want?

BUSINESS ANALYSIS TASKS BY KNOWLEDGE AREA

3. BUSINESS ANALYSIS PLANNING AND MONITORING	4. ELICITATION AND COLLABORATION	5. REQUIREMENTS LIFE CYCLE MANAGEMENT	6. STRATEGY ANALYSIS	7. REQUIREMENTS ANALYSIS AND DESIGN DEFINITION	8. SOLUTION EVALUATION
3.1 Plan Business Analysis	4.1 Prepare for Elicitation	5.1 Trace Requirements	6.1 Analyse Current State	7.1 Specify and Model	8.1 Measure Solution
Approach				Requirements	Performance
3.2 Plan Stakeholder	4.2 Conduct Elicitation	5.2 Maintain Requirements	6.2 Define Future State	7.2 Verify Requirements	8.2 Analyse Performance
Management					Measure
3.3 Plan Business Analysis	4.3 Confirm Elicitation Results	5.3 Prioritise Requirements	6.3 Assess Risks	7.3 Validate Requirements	8.3 Assess Solution Limitations
Governance					
3.4 Plan Business Analysis	4.4 Communicate Business	5.4 Assess Requirements	6.4 Define Change Strategy	7.4 Define Requirements	8.4 Assess Enterprise Limitations
Management	Analysis Information	Changes		Architecture	
3.5 Identify Business Analysis	4.5 Manage Stakeholder	5.5 Approve Requirements		7.5 Define Design Options	8.5 Recommend Actions to
Performance Improvements	Collaboration				Increase Solution Value
				7.6 Analyse Potential Value and	
				Recommend Solution	

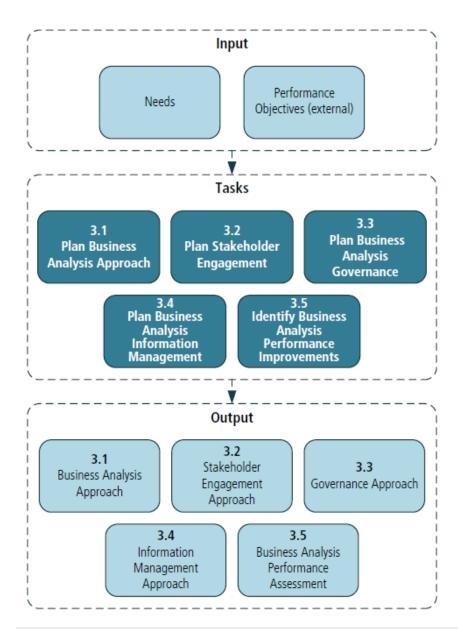
3. BUSINESS ANALYSIS PLANNING AND MONITORING (BAPM)

DESCRIPTION

Business Analysis Planning and Monitoring describes how to determine which activities are necessary to perform in order to complete a business analysis effort. It covers identification of stakeholders, selection of business analysis techniques, the process we will use to manage our requirements, and how we assess the progress of the work in order to make the necessary changes in the work effort.

PURPOSE

- Plan the execution of business analysis tasks
- Update or change the approach to business analysis as required
- Assess effectiveness of and continually improve business analysis practices



	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
A	Plan Business Analysis Approach Describes the planning of business analysis work from creation or selection of a methodology to planning the individual activities, tasks, and deliverables.	• Needs	 Planning Approach Formality and Level of Detail of BA Deliverables BA Activities Timing of BA Work Complexity and Risk Acceptance 	 Brainstorming Business Cases Document Analysis Estimation Financial Analysis Functional Decomposition Interviews Item Tracking Lessons Learned Process Modelling Reviews Risk Analysis and Management Scope Modelling Survey/Questionnaire Workshops 	 Domain SME Project Manager Regulator Sponsor 	BA Approach
S	Plan Stakeholder Engagement Describes understanding which stakeholders are relevant to the change, what business analysts need from them, what they need from business analysts, and the best way to collaborate.	 Needs Business Analysis Approach 	 Perform Stakeholder Analysis Define Stakeholder Collaboration Stakeholder Communication Needs 	 Brainstorming Business Rules Analysis Document Analysis Interviews Lessons Learned Mind Mapping Organisational Modelling Process Modelling Risk Analysis and Management Scope Modelling Stakeholder List, Map or Personas Survey or Questionnaire Workshops 	 Customers Domain SME End User Project Manager Regulator Sponsor Supplier 	Stakeholder Engagement Approach
G	Plan Business Analysis Governance Defines the components of business analysis that are used to support the governance function of the organisation. It helps ensure that decisions are made properly and consistently, and follows a process that ensures decision makers have the information they need. Examples of this include requirements management, business analysis risk management, and allocation of business analysis resources.	 Needs Stakeholder Engagement Approach 	 Decision Making Change Control Process Plan Prioritisation	 Brainstorming Document Analysis Interviews Item Tracking Lessons Learned Organisational Modelling Process Modelling Reviews Survey or Questionnaire Workshops 	 Domain SME Project Manager Regulator Sponsor 	Governance Approach
M	Plan Business Analysis Information Management Defines how information developed by business analysts (including requirements and designs) is captured, stored, and integrated with other information for longterm use.	 BA Approach Governance Approach Stakeholder Engagement Approach 	 Organisation of Business Analysis Information Level of Abstraction Plan Traceability Approach Plan for Requirements Reuse Storage and Access Requirements Attributes 	 Brainstorming Interviews Item Tracking Lessons Learned Mind Mapping Processing Modelling Survey or Questionnaire Workshops 	Domain SMERegulatorSponsor	Information Management Approach

	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
P	Identify Business Analysis Performance Improvements Describes managing and monitoring how business analysis work is performed to ensure that commitments are met and continuous learning and improvement opportunities are realised.	 Business Analysis Approach Performance Objectives (external) 	 Performance Analysis Assessment Measures Analyse Results Recommend Actions for Improvement 	 Brainstorming Interviews Lessons Learned Metrics and KPIs Observation Process Analysis Process Modelling Reviews Risk Analysis and Management Root Cause Analysis Survey or Questionnaire Workshops 	 Domain SME Project Manager Sponsor 	Business Analysis Performance Assessment

4. ELICITATION AND COLLABORATION (EC)

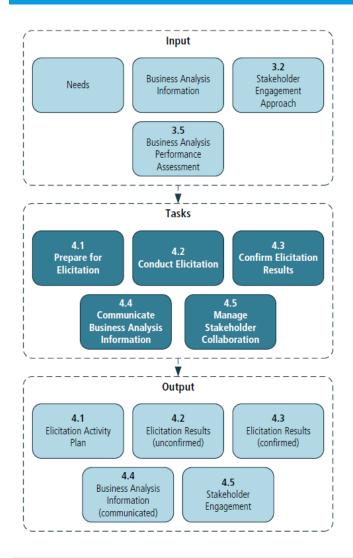
DESCRIPTION

The Elicitation and Collaboration knowledge area describes the tasks that business analysts perform to obtain information from stakeholders and confirm the results. It also describes the communication with stakeholders once the business analysis information is assembled. Elicitation is the drawing forth or receiving of information from stakeholders or other sources. It is the main path to discovering requirements and design information, and might involve talking with stakeholders directly, researching topics, experimenting, or simply being handed information. Collaboration is the act of two or more people working together towards a common goal. The Elicitation and Collaboration knowledge area describes how business analysis identify and reach agreement on the mutual understanding of all types of business analysis information. Elicitation and collaboration work is never a 'phase' in business analysis; rather, it is ongoing as business analysis work is occurring.

Elicitation and collaboration can be planned, unplanned, or both. Planned activities such as workshops, experiments, and/or surveys can be structured and organised in advance. Unplanned activities happen in the moment without notice, such as last-minute or 'just in time' collaboration or conversations. Business analysis information derived from an unplanned activity may require deeper exploration through a planned activity.

PURPOSE

Explore, identify and document stakeholder needs.



	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
P	Prepare for Elicitation The purpose of Prepare for Elicitation is to understand the scope of the elicitation activity, select appropriate techniques, and plan for (or procure) appropriate supporting materials and resources.	 Needs Stakeholder Engagement Approach 	 Understand the Scope of Elicitation Select Elicitation Techniques Setup Logistics Secure Supporting Material Prepare Stakeholders 	 Brainstorming Data Mining Document Analysis Estimation Interviews Mind Mapping Risk Analysis and Management Stakeholder List, Map and Personas 	Domain SMEProject ManagerSponsor	Elicitation Activity Plan
C	Conduct Elicitation The purpose of Conduct Elicitation is to draw out, explore, and identify information relevant to the change.	Elicitation Activity Plan	 Guide Elicitation Activity Capture Elicitation Outcomes 	 Benchmark and Market Analysis Brainstorming Business Rules Analysis Collaborative Games Concept Modelling Data Mining Data Modelling Document Analysis Focus Groups Interface Analysis Interviews Mind Mapping Observation Process Analysis Processing Modelling Prototyping Survey or Questionnaire Workshops 	 Customers Domain SME End User Implementation SME Sponsor Any Stakeholders 	Elicitation Results (unconfirmed)
С	<u>C</u> onfirm Elicitation Results The purpose of Confirm Elicitation Results is to check the information gathered during an elicitation session for accuracy and consistency with other information.	Elicitation Results (unconfirmed)	 Compare Elicitation Results Against Source Information Compare Elicitation Results Against Other Elicitation Results 	Document AnalysisInterviewsReviewsWorkshops	Domain SMEAny Stakeholders	Elicitation Results (confirmed)
С	Communicate Business Analysis Information The purpose of Communicate Business Analysis Information is to ensure stakeholders have a shared understanding of business analysis information.	BA InformationStakeholder Engagement Approach	 Determine Objectives and Format of Communication Communicate Business Analysis Package 	InterviewsReviewsWorkshops	 End User Customer Domain SME Implementation SME Tester Any Stakeholder 	Business Analysis Information (communicated)
С	Manager Stakeholder Collaboration The purpose of Manage Stakeholder Collaboration is to encourage stakeholders to work towards a common goal.	 Stakeholder Engagement Approach Business Analysis Performance Assessment 	 Gain Agreement on Commitments Monitor Stakeholder Engagement Collaboration 	 Collaborative Games Lessons Learned Risk Analysis and Management Stakeholder List, Map, or Personas 	All Stakeholders	• Stakeholder Engagement

5. REQUIREMENTS LIFE CYCLE MANAGEMENT (RLCM)

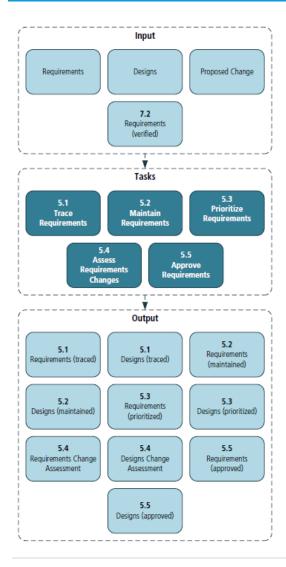
DESCRIPTION

The Requirements Life Cycle Management knowledge area describes the tasks that business analysts perform in order to manage and maintain requirements and design information from inception to retirement. These tasks describe establishing meaningful relationships between related requirements and designs, assessing changes to requirements and designs when changes are proposed, and analysing and gaining consensus on changes. The purpose of requirements life cycle management is to ensure that business, stakeholder, and solution requirements and designs are aligned to one another and that the solution implements them. It involves a level of control over requirements and over how requirements will be implemented in the actual solution to be constructed and delivered. It also helps to ensure that business analysis information is available for future use.

PURPOSE

The requirements life cycle:

- begins with the representation of a business need as a requirement,
- continues through the development of a solution, and
- ends when a solution and the requirements that represent it are retired.



	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
Т	Trace Requirements The purpose of Trace Requirements is to ensure that requirements and designs at different levels are aligned to one another, and to manage the effects of change to one level on related requirements.	RequirementsDesigns	 Level of Formality Relationships Traceability Repository 	 Business Rules Analysis Functional Decomposition Process Modelling Scope Modelling 	 Customers Domain SME End User Implementation SME Operational Support Project Manager Sponsor Supplier Tester 	Requirements (traced)Designs (traced)
M	Maintain Requirements The purpose of Maintain Requirements is to retain requirement accuracy and consistency throughout and beyond the change during the entire requirements life cycle, and to support reuse of requirements in other solutions.	RequirementsDesigns	Maintain RequirementsMaintain AttributesReusing Requirements	 Business Rules Analysis Functional Decomposition Process Modelling Use Cases and Scenarios User Stories 	Domain SMEImplementation SMEOperational SupportRegulatorTester	 Requirements (maintained) Designs (maintained)
P	Prioritise Requirements The purpose of Prioritize Requirements is to rank requirements in the order of relative importance.	RequirementsDesigns	 Basis for Prioritisation Challenges for Prioritisation Continual Prioritisation 	 Backlog Management Business Cases Decision Analysis Estimation Financial Analysis Interviews Item Tracking Prioritisation Risk Analysis and Management Workshops 	 Customer End user Implementation SME Project Manager Regulator Sponsor 	 Requirements (prioritised) Designs (prioritised)
A	Assessment Requirement Changes The purpose of Assess Requirements Changes is to evaluate the implications of proposed changes to requirements and designs.	Proposed changeRequirementsDesigns	 Assessment Formality Impact Analysis Impact Resolution 	 Business Cases Business Rules Analysis Decision Analysis Document Analysis Estimation Financial Analysis Interviews Item Tracking Risk Analysis and Management Workshops 	 Customer Domain SME End User Operational Support Project Manager Regulator Sponsor Tester 	 Requirements Change Assessment Designs Change Assessment
A	Approve Requirements The purpose of Approve Requirements is to obtain agreement on and approval of requirements and designs for business analysis work to continue and/or solution construction to proceed.	Requirements (verified)Designs	 Understand Stakeholder Roles Conflict and Issue Management Gain Consensus Track and Communicate Approval 	 Acceptance and Evaluation Criteria Decision Analysis Item Tracking Reviews Workshops 	 Customer Domain SME End User Operational Support Project Manager Regulator Sponsor Tester 	 Requirements (approved) Designs (approved)

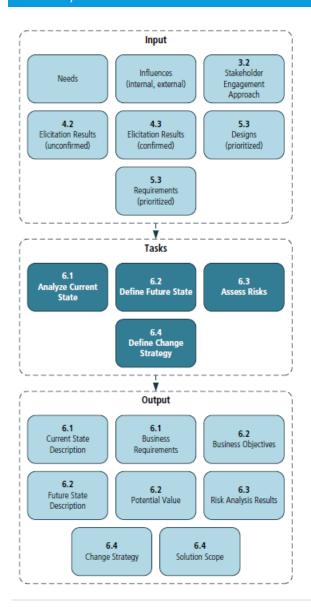
6. STRATEGY ANALYSIS (SA)

DESCRIPTION

Strategy defines the most effective way to apply the capabilities of an enterprise in order to reach a desired set of goals and objectives. Strategies may exist for the entire enterprise, for a division, department or region, and for a product, project, or iteration. The Strategy Analysis knowledge area describes the business analysis work that must be performed to collaborate with stakeholders in order to identify a need of strategic or tactical importance (the *business need*), enable the enterprise to address that need, and align the resulting strategy for the change with higher and lower-level strategies. Strategy analysis focuses on defining the future and transition states needed to address the business need, and the work required is defined both by that need and the scope of the solution space. It covers strategic thinking in business analysis, as well as the discovery or imagining of possible solutions that will enable the enterprise to create greater value for stakeholders, and/or capture more value for itself. Strategy analysis provides context to requirements analysis and design definition for a given change. Strategy analysis should be performed as a business need is identified.

PURPOSE

Allows stakeholders to make the determination of whether to address that need or not. Strategy analysis is an ongoing activity that assesses any changes in that need, in its context, or any new information that may indicate that an adjustment to the change strategy may be required.



	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
A	Analyse Current State The purpose of Analyse Current State is to understand the reasons why an enterprise needs to change some aspect of how it operates and what would be directly or indirectly affected by the change.	Elicitation Results Needs	 Business Needs Organisational Structure and Culture Capabilities and Processes Technology and Infrastructure Policies Business Architecture Internal Assets External Influencers 	 Benchmarking and Market Analysis Business Capability Analysis Business Model Canvas Business Cases Concept Modelling Data Mining Document Analysis Financial Analysis Focus Groups Functional Decomposition Interviews Item Tracking Lessons Learned Metrics and KPIs Mind Mapping Observation Organisational Modelling Process Analysis Process Modelling Risk Analysis and Management Root Cause Analysis Scope Modelling Survey or Questionnaire SWOT Analysis Vendor Assessment Workshops 	 Customers Domain SME End User Implementation SME Operational Support Project Manager Regulator Sponsor Supplier Tester 	Current State Description Business Requirements
D	Define Future State The purpose of Define Future State is to determine the set of necessary conditions to meet the business need.	Business Requirements	 Business Goals and Objectives Scope of Solution Space Constraints Organisational Structure and Culture Capabilities and Processes Technology and Infrastructure Policies Business Architecture Internal Assets Identify Assumptions Potential Value 	 Acceptance and Evaluation Criteria Balanced Scorecard Benchmarking and Market Analysis Brainstorming Business Capability Analysis Business Cases Business Model Canvas Decision Analysis Decision Modelling Financial Analysis Functional Decomposition Interviews Lessons Learned Metrics and KPIs Mind Mapping Organisational Modelling Process Modelling Prototyping Scope Modelling Survey or Questionnaire SWOT Analysis Vendor Assessment 	 Customers Domain SME End User Implementation SME Operational Support Project Manager Regulator Sponsor Supplier Tester 	 Business Objectives Future State Description Potential Value

	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
				Workshops		
A	Assess Risks The purpose of Assess Risks is to understand the undesirable consequences of internal and external forces on the enterprise during a transition to, or once in, the future state. An understanding of the potential impact of those forces can be used to make a recommendation about a course of action.	 Business Objectives Elicitation Results (confirmed) Influences Potential Value Requirements (Prioritised) 	 Unknowns Constraints, Assumptions and Dependencies Negative Impact to Value Risk Tolerance Recommendation 	 Brainstorming Business Cases Decision Analysis Document Analysis Financial Analysis Interviews Lessons Learned Mind Mapping Risk Analysis and Management Root Cause Analysis Survey or Questionnaire Workshops 	 Domain SME Implementation SME Operational Support Project Manager Regulator Sponsor Supplier Tester 	• Risks Analysis Results
D	Define Change Strategy The purpose of Define Change Strategy is to develop and assess alternative approaches to the change, and then select the recommended approach.	 Current State Description Future State Description Risk Analysis Results Stakeholder Engagement Approach 	 Solution Scope Gap Analysis Enterprise Readiness	 Balanced Scorecard Benchmarking and Market Analysis Brainstorming Business Capability Analysis Business Cases Business Model Canvas Decision Analysis Estimation Financial Analysis Focus Groups Functional Decomposition Interviews Lessons Learned Mind Mapping Organisational Modelling Process Modelling Scope Modelling SWOT Analysis Vendor Assessment Workshops 	 Customer Domain SME End User Implementation SME Operational Support Project Manager Regulator Sponsor Supplier Tester 	 Change Strategy Solution Scope

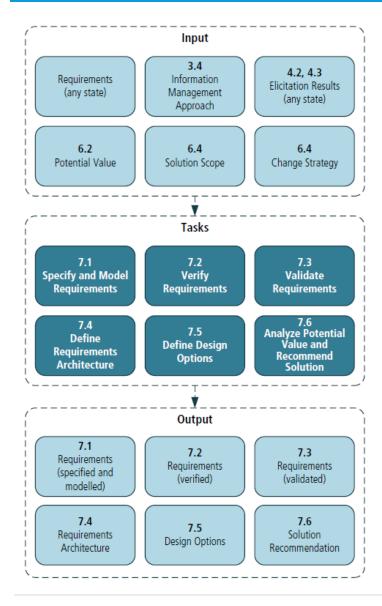
7. REQUIREMENTS ANALYSIS AND DESIGN DEFINITION (RADD)

DESCRIPTION

The Requirements Analysis and Design Definition knowledge area describes the tasks that business analysts perform to structure and Organise requirements discovered during elicitation activities, specify and model requirements and designs, validate and verify information, identify solution options that meet business needs, and estimate the potential value that could be realised for each solution option. This knowledge area covers the incremental and iterative activities ranging from the initial concept and exploration of the need through the transformation of those needs into a particular recommended solution. Both requirements and designs are important tools used by business analysts to define and guide change. The main difference between requirements and designs is in how they are used and by whom. One person's designs may be another person's requirements. Requirements and designs may be either high-level or very detailed based upon what is appropriate to those consuming the information.

PURPOSE

The business analyst's role in modelling needs, requirements, designs, and solutions is instrumental in conducting thorough analysis and communicating with other stakeholders. The form, level of detail, and what is being modelled are all dependent on the context, audience, and purpose. Business analysts analyse the potential value of both requirements and designs. In collaboration with implementation subject matter experts, business analysts define solution options that can be evaluated in order to recommend the best solution option that meets the need and brings the most value.



	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
S	Specify and Model Requirements The purpose of Specify and Model Requirements is to analyse, synthesize, and refine elicitation results into requirements and designs.	Elicitation Results (any state)	 Model Requirements Analyse Requirements Represent Requirements and Attributes Implement the Appropriate Level of Abstraction 	 Acceptance and Evaluation Criteria Business Capability Analysis Business Model Canvas Business Rules Analysis Concept Modelling Data Dictionary Data Flow Diagrams Data Modelling Puccision Modelling Functional Decomposition Glossary Interface Analysis Non-Functional Requirements Analysis Organisational Modelling Process Modelling Prototyping Roles and Permissions Matrix Root Cause Analysis Scope Modelling Sequence Diagrams Stakeholder List, Map, or Personas State Modelling Use Cases and Scenarios User Stories 	Any Stakeholder	Requirements (Specified and Modelled)
V	<u>Verify Requirements</u> The purpose of Verify Requirements is to ensure that requirements and designs specifications and models meet quality standards and are usable for the purpose they serve.	Requirements (Specified and Modelled)	 Characteristics of Requirements and Designs Quality Verification Activities Checklists 	 Acceptance and Evaluation Criteria Item Tracking Metrics and KPIs Reviews 	All Stakeholders	Requirements (Verified)
V	<u>V</u> alidate Requirements The purpose of Validate Requirements is to ensure that all requirements and designs align to the business requirements and support the delivery of needed value.	Requirements (Specified and Modelled)	 Identify Assumptions Define Measurable Evaluation Criteria Evaluate Alignment with Solution Scope 	 Acceptance and Evaluation Criteria Document Analysis Financial Analysis Item Tracking Metrics and KPIs Reviews Risks Analysis and Management 	All Stakeholders	Requirements (Validated)
A	The purpose of Define Requirements Architecture is to ensure that the requirements collectively support one another to fully achieve the objectives. Define Design Options	 Information Management Approach Requirements (any state) Solution Scope 	 Requirements Viewpoints and Views Template Architectures Completeness Relate and Verify Requirements Relationships Business Analysis Information Architecture Define Solution 	 Data Modelling Functional Decomposition Interviews Organisational Modelling Scope Modelling Workshops Benchmarking and Market Analysis 	 Domain Subject Matter Expert, Implementation Subject Matter Expert, Project Manager, Sponsor, Tester Any Stakeholder Domain SME 	Requirements Architecture Design Options

	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
	The purpose of Define Design Options is to define the solution approach, identify opportunities to improve the business, allocate requirements across solution components, and represent design options that achieve the desired future state.	 Requirements (Validated, Prioritised) Requirements Architecture 	 Approaches Identify Improvement Opportunities Describe Design Options 	 Brainstorming Document Analysis Interviews Lessons Learned Mind Mapping Root Cause Analysis Surveys or Questionnaire Vendor Assessment Workshops 	Implementation SMEOperational SupportProject ManagerSupplier	
V	Analyse Potential Value and Recommend Solution The purpose of Analyse Potential Value and Recommend Solution is to estimate the potential value for each design option and to establish which one is most appropriate to meet the enterprise's requirements.	 Potential Value Design Options 	 Expected Benefits Expected Costs Determine Value Assess Design Options and Recommend Solution 	 Acceptance and Evaluation Criteria Backlog Management Brainstorming Business Cases Business Model Canvas Decision Analysis Estimation Financial Analysis Focus Groups Interviews Metrics and KPIs Risk Analysis and Management Survey or Questionnaire SWOT Analysis Workshops 	 Customer Domain SME End User Implementation SME Project Manager Regulator Sponsor 	Solution Recommendation

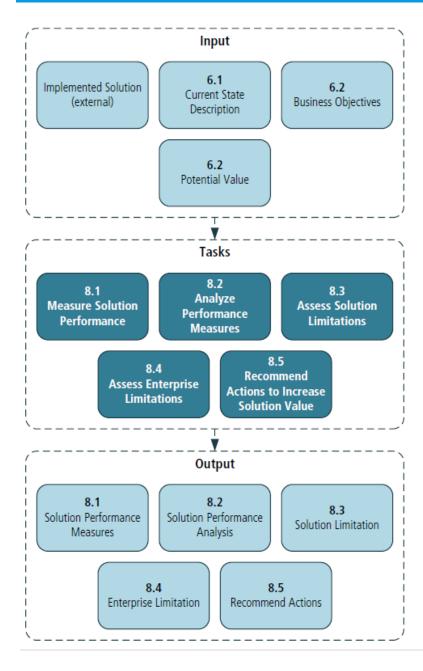
8. SOLUTION EVALUATION (SE)

DESCRIPTION

Describes the tasks that business analysts perform to assess the performance of and value delivered by a solution in use by the enterprise, and to recommend removal of barriers or constraints that prevent the full realization of the value.

PURPOSE

Solution Evaluation describes tasks that analyse the actual value being delivered, identifies limitations which may be preventing value from being realised, and makes recommendations to increase the value of the solution. It may include any combination of performance assessments, tests, and experiments, and may combine both objective and subjective assessments of value. Solution Evaluation generally focuses on a component of an enterprise rather than the entire enterprise.



	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
M	Measure Solution Performance The purpose of Measure Solution Performance is to define performance measures and use the data collected to evaluate the effectiveness of a solution in relation to the value it brings.	 Business Objectives Implemented Solution (external) 	 Define Solution Performance Measures Validate Performance Measures Collect Performance Measures 	 Acceptance and Evaluation Criteria Benchmarking and Market Analysis Business Cases Data Mining Decision Analysis Focus Groups Metrics and Key Performance Indicators (KPIs) Non-Functional Requirements Analysis Observation Prototyping Survey or Questionnaire Use Cases and Scenarios Vendor Assessment 	 Customer Domain SME End User Project Manager Sponsor Regulator 	Solution Performance Measures
A	Analyse Performance Measure The purpose of Analyse Performance Measures is to provide insights into the performance of a solution in relation to the value it brings.	 Potential Value Solution Performance Measures 	 Solution Performance versus Desired Value Risks Trends Accuracy Performance Variances 	 Acceptance and Evaluation Criteria Benchmarking and Market Analysis Data Mining Interviews Metrics and Key Performance Indicators (KPIs) Observation Risks Analysis and Management Root Case Analysis Survey or Questionnaire 	Domain SMEProject ManagerSponsor	• Solution Performance Analysis
L	Assess Solution Limitations The purpose of Assess Solution Limitations is to determine the factors internal to the solution that restrict the full realization of value.	 Implemented Solution (external) Solution Performance Analysis 	 Identify Internal Solution Component Dependencies Investigate Solution Problems Impact Assessment 	 Acceptance and Evaluation Criteria Benchmarking and Market Analysis Business Rules Analysis Data Mining Decision Analysis Interviews Item Tracking Lessons Learned Risks Analysis and Management Root Cause Analysis Survey or Questionnaire 	 Customer Domain SME End User Regulator Sponsor Tester 	Solution Limitation
E	Assess Enterprise Limitations The purpose of Assess Enterprise Limitations is to determine how factors external to the solution are restricting value realization.	 Current State Description Implemented (or Constructed) Solution (external) Solution Performance Analysis 	 Enterprise Culture Assessment Stakeholder Impact Analysis Organisational Structure Changes Operational Assessment 	 Benchmarking and Market Analysis Data Mining Brainstorming Decision Analysis Document Analysis Interviews Item Tracking Lessons Learned Observation Organisational Modelling Process Analysis Process Modelling 	 Customer Domain SME End User Regulator Sponsor 	• Enterprise Limitation

	Tasks	Inputs	Elements	Techniques	Stakeholders	Outputs
				 Risks Analysis and Management Roles and Permission Matrix Root Cause Analysis SWOT Analysis Workshops 		
R	Recommend Actions to Increase Solution Value The purpose of Recommend Actions to Increase Solution Value is to understand the factors that create differences between potential value and actual value, and to recommend a course of action to align them.	Enterprise LimitationSolution Limitation	 Adjust Solution Performance Measures Recommendations 	 Data Mining Decision Analysis Financial Analysis Focus Groups Organisational Modelling Prioritisation Process Analysis Risk Analysis and Management Survey or Questionnaire 	CustomerDomain SMEEnd UserRegulatorSponsor	Recommended Actions

8. UNDERLYING COMPETENCIES (UC)

DESCRIPTION

The Underlying Competencies chapter provides a description of the behaviours, characteristics, knowledge, and personal qualities that support the practice of business analysis. The underlying competencies described here are not unique to business analysis. They are described here to ensure readers are aware of the range of fundamental skills required and provide a basis for them to further investigate the skills and knowledge that will enable them to be accomplished and adaptable business analysts.

These competencies are grouped into six categories:

- Analytical Thinking and Problem Solving,
- Behavioural Characteristics,
- Business Knowledge,
- Communication Skills,
- Interaction Skills, and
- Tools and Technology

Each underlying competency is defined with a purpose, definition, and effectiveness measures.

	Competency Name	Components
1	Analytical Thinking and Problem Solving Analytical thinking and problem solving skills are required for business analysts to analyse problems and opportunities effectively, identify which changes may deliver the most value, and work with stakeholders to understand the impact of those changes.	 Creative Thinking, Decision Making, Learning, Problem Solving, Systems Thinking, Conceptual Thinking, and Visual Thinking
2	Behavioural characteristics Behavioural characteristics are not unique to business analysis but they have been found to increase personal effectiveness in the practice of business analysis. These characteristics exist at the core of every business analyst's skill set. Each of the behavioural characteristics described here can impact the outcome of the practitioner's efforts.	 Ethics Personal Accountability Trustworthiness Organisation and Time Management Adaptability
3	Business Knowledge Business knowledge is required for the business analyst to perform effectively within their business, industry, organisation, solution, and methodology. Business knowledge enables the business analyst to better understand the overarching concepts that govern the structure, benefits, and value of the situation as it relates to a change or a need.	 Business Acumen Industry Knowledge Organisation Knowledge Solution Knowledge Methodology Knowledge
4	Communication Skills Communication is the act of a sender conveying information to a receiver in a method which delivers the meaning the sender intended. Active listening skills help to deepen understanding and trust between the sender and the receiver. Effective communication benefits all stakeholders.	VerbalNon-VerbalWrittenListening
5	Interaction Skills Interaction skills are represented by the business analyst's ability to relate,	FacilitationLeadership and InfluencingTeamwork

	Competency Name	Components
	cooperate, and communicate with different kinds of people including executives, sponsors, colleagues, team members, developers, vendors, learning and development professionals, end users, customers, and subject matter experts (SMEs).	Negotiation and Conflict ResolutionTeaching
6	Tools and Technology	Office Productivity and TechnologyBusiness Analysis Tools and
	Business analysts use a variety of software applications to support communication and collaboration, create and maintain requirements artefacts, model concepts, track issues, and increase overall productivity.	Technology • Communications Tools and Technology

8. TECHNIQUES

DESCRIPTION

The Techniques chapter provides a high-level overview of the techniques referenced in the Knowledge Areas of the *BABOK® Guide*. Techniques are methods business analysts use to perform business analysis tasks. The techniques described in the *BABOK® Guide* are intended to cover the most common and widespread techniques practiced within the business analysis community. Business analysts apply their experience and judgment in determining which techniques are appropriate to a given situation and how to apply each technique. This may include techniques that are not described in the *BABOK® Guide*. As the practice of business analysis evolves, techniques will be added, changed, or removed from future iterations of the *BABOK® Guide*. In a number of cases, a set of conceptually similar approaches have been grouped into a single technique. Any approach within a technique may be used individually or in combination to accomplish the technique's purpose.

	Description	Elements	Strengths	Limitations	Illustration
1	Acceptance and Evaluation Criteria Acceptance criteria are used to define the requirements, outcomes, or conditions that must be met in order for a solution to be considered acceptable to key stakeholders. Evaluation criteria are the measures used to assess a set of requirements in order to choose between multiple solutions.	 Value Attributes Assessment 	 Agile methodologies may require that all requirements be expressed in the form of testable acceptance criteria. Acceptance criteria are necessary when the requirements express contractual obligations. Acceptance criteria provide the ability to assess requirements based on agreed upon criteria. Evaluation criteria provide the ability to assess diverse needs based on agreed upon criteria, such as features, common indicators, local or global benchmarks, and agreed ratios. Evaluation criteria assist in the delivery of expected return on investment (ROI) or otherwise specified potential value. Evaluation criteria helps in defining priorities. 	 Acceptance criteria may express contractual obligations and as such may be difficult to change for legal or political reasons. Achieving agreement on evaluation criteria for different needs among diverse stakeholders can be challenging. 	One Solution Acceptance Criteria Value Attributes: • Cost • Performance • Usability • Functionality Multiple Solutions Evaluation Criteria Value Attributes: • Cost • Performance • Usability • Functionality Measure Criteria used to assess value delivered by potential solutions Solutions Solutions Solution Value Ranking
2	Backlog Management The backlog is used to record, track, and prioritise remaining work items. Items in the Backlog: • use cases, • user stories, • functional requirements, • non-functional requirements, • designs, • customer orders, • risk items, • change requests,	 Items in the Backlog Prioritisation Estimation Managing Changes to the Backlog 	 An effective approach to responding to changing stakeholder needs and priorities because the next work items selected from the backlog are always aligned with current stakeholder priorities. Only items near the top of the backlog are elaborated and estimated in detail; items near the bottom of the backlog reflect lower priorities and receive less attention and effort. Can be an effective communication vehicle because stakeholders can understand what items are about 	 Large backlogs may become cumbersome and difficult to manage. It takes experience to be able to break down the work to be done into enough detail for accurate estimation. A lack of detail in the items in the backlog can result in lost information over time. 	na

	Description	Elements	Strengths	Limitations	Illustration
	 defects, planned rework, maintenance, conducting a presentation, or completing a document. 		to be worked on, what items are scheduled farther out, and which ones may not be worked on for some time.		
3	Balanced Scorecard The balanced scorecard is used to manage performance in any business model, organisational structure, or business process.	 Learning and Growth Dimension Business Process Dimension Customer Dimension Financial Dimension Measures or Indicators 	 Facilitates holistic and balanced planning and thinking. Short-, medium-, and long-term goals can be harmonised into programs with incremental success measures. Strategic, tactical, and operational teams are more easily aligned in their work. Encourages forward thinking and competitiveness. 	 A lack of a clear strategy makes aligning the dimensions difficult. Can be seen as the single tool for strategic planning rather than just one tool to be used in a suite of strategic planning tools. Can be misinterpreted as a replacement for strategic planning, execution, and measurement. 	To succeed financially, how should we appear to our shareholders? Financial Objectives Measures To achieve our vision, how should we appear to our customers? Customer Objectives Measures To satisfy our shareholders and customers, what business processes must we excel at? Internal Business Process Measures Measures Targets Initiatives Learning and Growth Objectives Measures Targets Initiatives Learning and Growth Objectives Measures Targets Initiatives
4	Benchmarking and Market Analysis Benchmarking and market analysis are conducted to improve organisational operations, increase customer satisfaction, and increase value to stakeholders.	Benchmarking Market Analysis	 Benchmarking provides organisations with information about new and different methods, ideas, and tools to improve organisational performance. An organisation may use benchmarking to identify best practices by its competitors in order to meet or exceed its competition. Benchmarking identifies why similar companies are successful and what processes they used to become successful. Market analysis can target specific groups and can be tailored to answer specific questions. Market analysis may expose weaknesses within a certain company or industry. Market analysis may identify differences in product offerings and services that are available from a competitor. 	 Benchmarking is time-consuming; organisations may not have the expertise to conduct the analysis and interpret useful information. Benchmarking cannot produce innovative solutions or solutions that will produce a sustainable competitive advantage because it involves assessing solutions that have been shown to work elsewhere with the goal of reproducing them. Market analysis can be time-consuming and expensive, and the results may not be immediately available. Without market segmentation, market analysis may not produce the expected results or may provide incorrect data about a competitor's products or services. 	Na

	Description	Elements	Strengths	Limitations	Illustration
5	Brainstorming is an excellent way to foster creative thinking about a problem. The aim of brainstorming is to produce numerous new ideas, and to derive from them themes for further analysis.	 Preparation Session Wrap-up 	 Ability to elicit many ideas in a short time period. Non-judgmental environment enables creative thinking. Can be useful during a workshop to reduce tension between participants. 	 Participation is dependent on individual creativity and willingness to participate. Organisational and interpersonal politics may limit overall participation. Group participants must agree to avoid debating the ideas raised during brainstorming. 	Define Area of Interest 2. Session Share Ideas Discuss and Evaluate Time Limit Determine Time Limit Determine Time Limit Determine Time Limit Determine Time Limit Record Ideas Discuss and Evaluate Record Ideas Discuss Create List Rate Ideas Discuss Rate Ideas
6	Business Capability Analysis Business capability analysis provides a framework for scoping and planning by generating a shared understanding of outcomes, identifying alignment with strategy, and providing a scope and Prioritisation filter.	 Capabilities Using Capabilities Performance Expectations Risk Model Strategic Planning Capability Maps 	 Provides a shared articulation of outcomes, strategy, and performance, which help create very focused and aligned initiatives. Helps align business initiatives across multiple aspects of the organisation. Useful when assessing the ability of an organisation to offer new products and services. 	 Requires an organisation to agree to collaborate on this model. When created unilaterally or in a vacuum it fails to deliver on the goals of alignment and shared understanding. Requires a broad, cross-functional collaboration in defining the capability model and the value framework. 	ORGANIZATIONAL ANALYSIS High Med Low High Med Low High Med Low High Med Low Capability Analysis Root Cause Analysis Process Analysis Stakeholder Analysis Roadmap Construction Business Value High Med Low High Med Low High Med Low High Med Low Requirements Elicitation Requirements Management Requirements Communication User Acceptance Testing Usability Testing PROFESSIONAL DEVELOPMENT High Med Low Organizational Consulting Project Analysis Consulting Training Mentoring Resources Maintenance MANAGEMENT Business Value Customer Value Performance Gap Risk Performance Gap Risk Development High Med Low Performance Management Resource Allocations Employee Dev Planning
7	Business Cases A business case provides a justification for a course of action based on the benefits to be realised by using the proposed solution, as compared to the cost, effort, and other considerations to acquire and live with that	Need AssessmentDesired OutcomesAssess AlternativesRecommended Solution	 Provides an amalgamation of the complex facts, issues, and analysis required to make decisions regarding change. Provides a detailed financial analysis of cost and benefits. Provides guidance for ongoing decision making throughout the 	 May be subject to the biases of authors. Frequently not updated once funding for the initiative is secured. Contains assumptions regarding costs and benefits that may prove invalid upon further investigation. 	Na

Description	Elements	Strengths	Limitations	Illustration
solution.		initiative.		
A business model canvas A business model canvas describes how an enterprise creates, delivers, and captures value for and from its customers.	 Key Partnerships Key Activities Key Resources Value Proposition Customer Relationships Channels Customer Segments Cost Structure Revenue Streams 	 It is a widely used and effective framework that can be used to understand and optimise business models. It is simple to use and easy to understand. 	 Does not account for alternative measures of value such as social and environmental impacts. The primary focus on value propositions does not provide a holistic insight for business strategy. Does not include the strategic purpose of the enterprise within the canvas. 	Key Partnerships Key Resources Key Resources Revenue Streams Customer Relationships Customer Relationships Customer Relationships Customer Segments Revenue Streams
Business Rules Analysis Business rules analysis is used to identify, express, validate, refine, and Organise the rules that shape day-to-day business behaviour and guide operational business decision making.	 Definitional Rules Behavioural Rules 	 When enforced and managed by a single enterprise-wide engine, changes to business rules can be implemented quickly. A centralized repository creates the ability to reuse business rules across an Organisation. Business rules provide structure to govern business behaviours. Clearly defining and managing business rules allows Organisations to make changes to policy without altering processes or systems. 	 Organisations may produce lengthy lists of ambiguous business rules. Business rules can contradict one another or produce unanticipated results when combined unless validated against one another. If available vocabulary is insufficiently rich, not businessfriendly, or poorly defined and Organised, resulting business rules will be inaccurate or contradictory. 	Na
Collaborative Games Collaborative games encourage participants in an elicitation activity to collaborate in building a joint understanding of a problem or a solution.	 Game Purpose Process Outcome Examples of Collaborative Games 	 May reveal hidden assumptions or differences of opinion. Encourages creative thinking by stimulating alternative mental processes. Challenges participants who are normally quiet or reserved to take a more active role in team activities. Some collaborative games can be useful in exposing business needs that aren't being met. 	 The playful nature of the games may be perceived as silly and make participants with reserved personalities or cultural norms uncomfortable. Games can be time-consuming and may be perceived as unproductive, especially if the objectives or outcomes are unclear. Group participation can lead to a false sense of confidence in the conclusions reached. 	Na
A concept Modelling A concept model is used to organise the business vocabulary needed to consistently and thoroughly communicate the knowledge of a domain.	Noun ConceptsVerb ConceptsOther Connections	 Provide a business-friendly way to communicate with stakeholders about precise meanings and subtle distinctions. Is independent of data design biases and the often limited business vocabulary coverage of data models. Proves highly useful for white-collar, knowledge-rich, decision-laden business processes. 	 May set expectations too high about how much integration based on business semantics can be achieved on relatively short notice. Requires a specialized skill set based on the ability to think abstractly and non-procedurally about know-how and knowledge. The knowledge-and-rule focus may be foreign to stakeholders. 	Na

	Description	Elements	Strengths	Limitations	Illustration			
			• Helps ensure that large numbers of business rules and complex decision tables are free of ambiguity and fit together cohesively.	• Requires tooling to actively support real-time use of standard business terminology in writing business rules, requirements, and other forms of business				
12	Data Dictionary A data dictionary is used to	Data ElementsPrimitive Data Elements	Provides all stakeholders with a shared understanding of the format and content of relevant information.	communication. Requires regular maintenance, otherwise the metadata could become obsolete or incorrect.	Primitive Data Da Elements	ata Element 1	Data Element 2	Data Element 3
	standardise a definition of a data element and enable a common interpretation of data elements.	• Composite Elements	• A single repository of corporate metadata promotes the use of data throughout the Organisation in a consistent manner.	• All maintenance is required to be completed in a consistent manner in order to ensure that stakeholders can quickly and easily retrieve the	by data elements Alias	First Name	Middle Name	Last Name
				information they need. This requires time and effort on the part of the stewards responsible for the accuracy and completeness of the	stakeholders Values/Meanings	Given Name	Middle Name	Surname
				 data dictionary. Unless care is taken to consider the metadata required by multiple scenarios, it may have limited value 		Minimum 2 characters	Can be omitted	Minimum 2 characters
				across the enterprise.	Definition	First Name tomer Name = Fir	Middle Name rst Name + Middle N	Family Name Name + Family Name
13	Data flow diagrams show where data comes from, which activities process the data, and if the output results are stored or utilized by another activity or external entity.	 Externals (Entity, Source, Sink) Data Store Process Data Flow 	 May be used as a discovery technique for processes and data or as a Technique for the verification of functional decompositions or data models. Are excellent ways to define the scope of a system and all of the systems, interfaces, and user interfaces that attach to it. Allows for estimation of the effort needed to study the work. Most users find these data flow diagrams relatively easy to understand. Helps to identify duplicated data elements or misapplied data elements. Illustrates connections to other systems. Helps define the boundaries of a system. Can be used as part of system documentation. Helps to explain the logic behind the data flow within a system. 	 Using data flow diagrams for large-scale systems can become complex and difficult for stakeholders to understand. Different methods of notation with different symbols could create challenges pertaining to documentation. Does not illustrate a sequence of activities. Data transformations (processes) say little about the process or stakeholder. 	Input Data——Input Data——	Output Data Data Pro Verb/No Phrase Na Output Data	Output Data Ocess Oun aming	External Agent Noun Input Data External Agent Noun
14	Data Mining	Requirements	data flow within a system.Reveal hidden patterns and create	Applying some techniques without		Na		

Desc	cription	Elements	Strengths	Limitations	Illustration
Data decisi	n mining is used to improve sion making by finding useful erns and insights from data.	 Elicitation Data Preparation: Analytical Dataset Data Analysis Modelling Techniques Deployment 	useful insight during analysis — helping determine what data might be useful to capture or how many people might be impacted by specific suggestions. • Can be integrated into a system design to increase the accuracy of the data. • Can be used to eliminate or reduce human bias by using the data to determine the facts.	an understanding of how they work can result in erroneous correlations and misapplied insight. • Access to big data and to sophisticated data mining tool sets and software may lead to accidental misuse. • Many techniques and tools require specialist knowledge to work with. • Some techniques use advanced math in the background and some stakeholders may not have direct insights into the results. A perceived lack of transparency can cause resistance from some stakeholders. • Data mining results may be hard to deploy if the decision making they are intended to influence is poorly understood.	
A dat entiti releva attrib descr relati provi seman	at a model describes the ries, classes or data objects on to a domain, the butes that are used to ribe them, and the ionships among them to ide a common set of antics for analysis and ementation.	 Entity or Class Attribute Relationship or Association Diagrams 	 Can be used to define and communicate a consistent vocabulary used by domain subject matter experts and implementation subject matter experts. Review of a logical data model helps to ensure that the logical design of persistent data correctly represents the business need. Provides a consistent approach to analysing and documenting data and its relationships. Offers the flexibility of different levels of detail, which provides just enough information for the respective audience. Formal modelling of the information held by the business may expose new requirements as inconsistencies are identified. 	Following data modelling standards too rigorously may lead to models that are unfamiliar to people without a background in IT. May extend across multiple functional areas of the Organisation, and so beyond the business knowledge base of individual stakeholders.	Each entity is shown as a rectangle with the entity name. Entity 1 Unique Identifier Attribute Entity 3 Unique Identifier Attribute Entity 4 Unique Identifier Attribute 1 Attribute 2 The attributes of the entity are listed below the unique identifier. Entity 3 Unique Identifier Attribute 1 Attribute 2 The attribute 1 Attribute 2 The attribute 2 The attribute 3 Unique Identifier Attribute 4 Unique Identifier Attribute 3 Entity 4 Unique Identifier Attribute 4 Attribute 1 Attribute 2 The attribute 1 Attribute 2 The attribute 2 In attribute 3 Entity 4 Unique Identifier Attribute Attribute 1 Attribute 2 The attribute 1 Attribute 2 The attribute 2 In attribute 3 Entity 4 Unique Identifier Attribute 4 In attribute 4 Attribute 5 Attribute 7 Entity 4 Only One Any number from one to many 1 Any number from one to many 1 Entity 5 Any number from one to many 1

	Description	Elements	Strengths	Limitations	Illustration		
16	Decision Analysis	Components of	Provides business analysts with a	The information to conduct proper	Alternate 1	Alternate 2	Alternate 3
		Decision Analysis	prescriptive approach for determining	decision analysis may not be	Criterion 1 Meets criterion	n/a	n/a
	Decision analysis formally	 Decision Matrices 	alternate options, especially in	available in time to make the	Criterion 2 Meets criterion Criterion 3 n/a	Meets criterion Meets criterion	Meets criterion Meets criterion
	assesses a problem and possible decisions in order to determine	Decision Trees	complex or uncertain situations.	decision.	Criterion 4 Meets criterion	n/a	n/a
	the value of alternate outcomes	• Trade-offs	• Helps stakeholders who are under pressure to assess options based on	• Many decisions must be made immediately, without the luxury of	Score 3	2	2
	under conditions of uncertainty.		criteria, thus reducing decisions based	employing a formal or even informal			
			on descriptive information and	decision analysis process.			
			emotions.	• The decision maker must provide			
			Requires stakeholders to honestly	input to the process and understand			
			assess the importance they place on	the assumptions and model			
			different alternate outcomes in order	limitations. Otherwise, they may			
			to help avoid false assumptions.	perceive the results provided by the			
			• Enables business analysts to construct appropriate metrics or	business analyst as more certain than they are.			
			introduce relative rankings for	Analysis paralysis can occur when			
			outcome evaluation in order to directly	too much dependence is placed on			
			compare both the financial and non-	the decision analysis and in			
			financial outcome evaluation criteria.	determining probabilistic values.			
				Some decision analysis models			
				require specialized knowledge (for			
				example, mathematical knowledge in			
				probability and strong skills with decision analysis tools).			
17	Decision Modelling	Types of Models and	Decision models are easy to share	Adds a second diagram style when			
	8	Notations	with stakeholders, facilitate a shared	modelling business processes that	Eligibility Rules		
	Decision modelling shows how		understanding, and support impact	contain decisions. This may add			
	repeatable business decisions are		analysis.	unnecessary complexity if the	Loan Amount	Age	Eligibility
	made.		• Multiple perspectives can be shared	decision is simple and tightly		40	et at t
			and combined, especially when a	coupled with the process.	<=1000	>18	Eligible
			diagram is used.Simplifies complex decision making	• May limit rules to those required by known decisions and so limit the	\ =1000	<=18	Ineligible
			by removing business rules	capture of rules not related to a		. 21	
			management from the process.	known decision.	1000–2000	>21	Eligible
			Assists with managing large	Defining decision models may	1000 2000	<=21	Ineligible
			numbers of rules in decision tables by	allow an Organisation to think it has		>=25	Eligible
			grouping rules by decision. This also	a standard way of making decisions	>2000	>=25	Liigible
			helps with reuse. • These models work for rules-based	when it does not. May lock an Organisation into a current-state		<25	Ineligible
			automation, data mining, and	decision-making approach.			
			predictive analytics, as well as for	Cuts across Organisational			
			manual decisions or business	boundaries, which can make it			
			intelligence projects.	difficult to acquire any necessary			
				sign-off.			
				May not address behavioural			
				business rules in a direct fashion.			
				Business terminology must be clearly defined and shared			
				definitions developed to avoid data			
				quality issues affecting automated			

	Description	Elements	Strengths	Limitations	Illustration
				decisions.	
18	Document Analysis Document analysis is used to elicit business analysis information, including contextual understanding and requirements, by examining available materials that describe either the business environment or existing Organisational assets.	 Preparation Document Review and Analysis Record Findings 	 Existing source material may be used as a basis for analysis. The business analyst does not need to create content. Existing sources, although possibly outdated, can be used as a point of reference to determine what is current and what has changed. Results can be used to validate against the results of other requirements elicitation techniques. Findings can be presented in formats that permit ease of review and reuse. 	 Existing documentation may be out of date or invalid (incorrect, missing information, unreadable, unreviewed or unapproved). Authors may not be available for questions. Primarily helpful only for evaluating the current state, via review of as-is documentation. If there is a wide range of sources, the effort may be very timeconsuming and lead to information overload and confusion. 	Na
19	Estimation Estimation is used by business analysts and other stakeholders to forecast the cost and effort involved in pursuing a course of action.	 Methods (top-down, bottom up, parametric, rough order of magnitude, rolling wave, Delphi, PERT), Accuracy of the Estimate Sources of Information (analogous, org. history, expert judgment) Precision and Reliability of Estimates Contributors to Estimates 	 Estimates provide a rationale for an assigned budget, time frame, or size of a set of elements. Without an estimate, teams making a change may be provided an unrealistic budget or schedule for their work. Having a small team of knowledgeable individuals provide an estimate by following a defined technique generally results in a closer predictor of the actual value than if an estimate was made by one individual. Updating an estimate throughout a work cycle, in which the estimated elements are refined over time, incorporates knowledge and helps ensure success. 	 Estimates are only as accurate as the level of knowledge about the elements being estimated. Without Organisation or local knowledge, estimates can vary widely from the actual values determined later. Using just one estimation method may lead stakeholders to have unrealistic expectations. 	Na

	Description	Elements	Strengths	Limitations	Illustration				
20	Financial Analysis	Cost of the Change	Financial analysis allows executive	Some costs and benefits are		Year 0	Year 1	Year 2	Year 3
		 Total Cost of 	decision makers to objectively	difficult to quantify financially.	Expected Benefits				
	Financial analysis is used to	Ownership (TCO)	compare very different investments	Because financial analysis is	Revenue		\$XXXX	\$XXXX	\$XXXX
	understand the financial aspects of an investment, a solution, or a	Value Realization	from different perspectives.	forward looking, there will always be	Reduced operating costs		\$XXXX	\$XXXX	\$XXXX
	solution approach.	Cost-Benefit Analysis Cinconsist	• Assumptions and estimates built into the benefits and costs, and into the	some uncertainty about expected costs and benefits	Time savings		\$XXXX	\$XXXX	\$XXXX
		• Financial Calculations	financial calculations, are clearly stated	Positive financial numbers may	Reduced cost of errors		\$XXXX	\$XXXX	\$XXXX
		Calculations	so that they may be challenged or approved.	give a false sense of security — they may not provide all the information	Increased customer satisfaction		\$XXXX	\$XXXX	\$XXXX
			• It reduces the uncertainty of a change or solution by requiring the	required to understand an initiative.	Decreased cost of compliance		\$XXXX	\$XXXX	\$XXXX
			identification and analysis of factors		Other		\$XXXX	\$XXXX	\$XXXX
			that will influence the investment.		Total Annual benefits	\$0	\$XXXX	\$XXXX	\$XXXX
			• If the context, business need, or						
			stakeholder needs change during a		Costs				
			change initiative, it allows the business		Project costs	\$XXXX	\$XXXX	\$0	\$0
			analyst to objectively re-evaluate the		Ongoing support	\$0	\$XXXX	\$XXXX	\$XXXX
			recommended solution.		New facilities	\$XXXX	\$0	\$0	\$XXXX
					Licensing	\$0	\$XXXX	\$XXXX	\$XXXX
					Infrastructure renewal	\$XXXX	\$0	\$XXXX	\$0
					Other	\$0	\$XXXX	\$0	\$XXXX
					Total Costs	\$XXXX	\$XXXX	\$XXXX	\$XXXX
					Net Benefits	-\$XXXX	\$XXXX	\$XXXX	\$XXXX
					Cumulative Net Benefits	-\$XXXX	-\$XXXX	-\$XXXX	\$XXXX
21	Focus Groups A focus group is a means to elicit ideas and opinions about a specific product, service, or opportunity in an interactive group environment. The participants, guided by a moderator, share their impressions, preferences, and needs.	 Focus Group Objective Focus Group Plan Participants Discussion Guide Assign a Moderator and Recorder Conduct the Focus Group After the Focus Group 	 The ability to elicit data from a group of people in a single session saves both time and costs as compared to conducting individual interviews with the same number of people. Effective for learning people's attitudes, experiences, and desires. Active discussion and the ability to ask others questions creates an environment in which participants can consider their personal view in relation to other perspectives. An online focus group is useful when travel budgets are limited and participants are distributed geographically. Online focus group sessions can be recorded easily for playback. 	 In a group setting, participants may be concerned about issues of trust or may be unwilling to discuss sensitive or personal topics. Data collected about what people say may not be consistent with how people actually behave. If the group is too homogeneous their responses may not represent the complete set of requirements. A skilled moderator is needed to manage group interactions and discussions. It may be difficult to schedule the group for the same date and time. Online focus groups limit interaction between participants. It is difficult for the moderator of an online focus group to determine attitudes without being able to read body language. One vocal participant could sway the results of the focus group. 		N:	a a a a a a a a a a a a a a a a a a a		

	Description	Elements	Strengths	Limitations	Illustration
22	Functional Decomposition Functional decomposition helps manage complexity and reduce uncertainty by breaking down processes, systems, functional areas, or deliverables into their simpler constituent parts and allowing each part to be analysed independently.	 Decomposition Objectives Subjects of Decomposition Level of Decomposition Representation of Decomposition Results 	 Makes complex endeavours possible by breaking down complex problems into feasible parts. Provides a structured approach to building a shared understanding of complex matters among a diverse group of stakeholders. Simplifies measurement and estimation of the amount of work involved in pursuing a course of action, defining scope of work, and defining process metrics and indicators. 	 Missing or incorrect information at the time decomposition is performed may later cause a need to revise the results of decomposition partially or entirely. Many systems cannot be fully represented by simple hierarchical relationships between components because the interactions between components cause emergent characteristics and behaviours. Every complex subject allows multiple alternative decompositions. Exploring all alternatives can be a challenging and time-consuming task, while sticking with a single alternative may disregard important opportunities and result in a suboptimal solution. Performing functional decomposition may involve deep knowledge of the subject and extensive collaboration with diverse stakeholders. 	Function Subfunction 2 Process 1.1 Process 1.2 Process 1.3 Process 2.1 Process 2.2 Process 2.4 Process 2.1.1 Activity 1.1.1 Activity 1.1.2 Activity 1.1.3
23	Glossary A glossary defines key terms relevant to a business domain.	A term is included in the glossary when: • the term is unique to a domain, • there are multiple definitions for the term, • the definition implied is outside of the term's common use, or • there is a reasonable chance of misunderstanding.	 A glossary promotes common understanding of the business domain and better communication among all stakeholders. Capturing the definitions as part of an enterprise's documentation provides a single reference and encourages consistency. Simplifies the writing and maintenance of other business analysis information including but not limited to requirements, business rules, and change strategy. 	 A glossary requires an owner to perform timely maintenance, otherwise it becomes outdated and may be ignored. It may be challenging for different stakeholders to agree on a single definition for a term. 	Na
24	Interface Analysis Interface analysis is used to identify where, what, why, when, how, and for whom information is exchanged between solution components or across solution boundaries.	 Preparing for Identification Conduct Interface Identification Define Interfaces 	 By engaging in interface analysis early on, increased functional coverage is provided. Clear specification of the interfaces provides a structured means of allocating requirements, business rules, and constraints to the solution. Due to its broad application, it avoids over analysis of fine detail. 	• Does not provide insight into other aspects of the solution since the analysis does not assess the internal components.	Interface Validation or Transformation Output Solution Message Solution
25	Interviews An interview is a systematic approach designed to elicit	Interview GoalPotential IntervieweesInterview Questions	 Encourages participation by and establishes rapport with stakeholders. Simple, direct technique that can be used in a variety of situations. 	 Significant time is required to plan for and conduct interviews. Requires considerable commitment and involvement of the participants. 	Na

	Description	Elements	Strengths	Limitations	Illustration
	business analysis information from a person or group of people by talking to the interviewee(s), asking relevant questions, and documenting the responses. The interview can also be used for establishing relationships and building trust between business analysts and stakeholders in order to increase stakeholder involvement or build support for a proposed solution.	 Interview Logistics Interview Flow Interview Follow-Up 	 Allows the interviewer and participant to have full discussions and explanations of the questions and answers. Enables observations of non-verbal behaviour. The interviewer can ask follow-up and probing questions to confirm their own understanding. Maintains focus through the use of clear objectives for the interview that are agreed upon by all participants and can be met in the time allotted. Allows interviewees to express opinions in private that they may be reluctant to express in public, especially when interview results are kept confidential. 	 Training is required to conduct effective interviews. Based on the level of clarity provided during the interview, the resulting documentation may be subject to the interviewer's interpretation. There is a risk of unintentionally leading the interviewee. 	
26	Item Tracking Item tracking is used to capture and assign responsibility for issues and stakeholder concerns that pose an impact to the solution.	Item RecordItem ManagementMetrics	 Ensures concerns around stakeholder requirements are captured, tracked, and resolved to the stakeholder's satisfaction. Allows stakeholders to rank the importance of outstanding items. 	 If not careful, the copious recording of data about items may outweigh any benefits realised. It may use time that could be better spent on other efforts and stakeholders could become mired in details and statistics. 	Na
	The purpose of the lessons learned process is to compile and document successes, opportunities for improvement, failures, and recommendations for improving the performance of future projects or project phases.	Sessions can include a review of: • business analysis activities or deliverables, • the final solution, service, or product, • automation or technology that was introduced or eliminated, • impact to Organisational processes, • performance expectations and results, • positive or negative variances, • root causes impacting performance results, and • recommendations for behavioural approaches.	 Useful in identifying opportunities or areas of improvement. Assists in building team morale after a difficult period. Reinforces positive experiences and successes. Reduces risks for future actions. Provides tangible value or metrics as a result of the effort. Recognises strengths or shortcomings with the project structure, methodology, or tools that were used. 	 Honest discussion may not occur if participants try to assign blame during these sessions. Participants may be reluctant to document and discuss problems. Proactive facilitation may be required to ensure that the discussions remain focused on solutions and improvement opportunities. 	Na Na
28	Metrics and Key Performance Indicators (KPIs)	 Indicators Metrics Structure	Establishing a monitoring and evaluation system allows stakeholders to understand the extent to which a	Gathering excessive amounts of data beyond what is needed will result in unnecessary expense in	Na
	Metrics and key performance	Reporting	solution meets an objective, as well as	collecting, analysing, and reporting.	

	Description	Elements	Strengths	Limitations	Illustration
	indicators measure the performance of solutions, solution components, and other matters of interest to stakeholders.		how effective the inputs and activities of developing the solution (outputs) were. • Indicators, metrics, and reporting also facilitate Organisational alignment, linking goals to objectives, supporting solutions, underlying tasks, and resources.	It will also distract project members from other responsibilities. On Agile projects, this will be particularly relevant. • A bureaucratic metrics program fails from collecting too much data and not generating useful reports that will allow timely action. Those charged with collecting metric data must be given feedback to understand how their actions are affecting the quality of the project results. • When metrics are used to assess performance, the individuals being measured are likely to act to increase their performance on those metrics, even if this causes sub-optimal performance on other activities.	
29	Mind Mapping Mind mapping is used to articulate and capture thoughts, ideas, and information.	 Main Topic Topics Sub-topics Branches Keywords Colour Images 	 Can be used as an effective collaboration and communication tool. Summarizes complex thoughts, ideas, and information in a way that shows the overall structure. Associations and sub-topics facilitate understanding and decision making. Enable creative problem solving by articulating associations and generating new associations. Can be helpful in preparing and delivering presentations. 	 Can be misused as a brainstorming tool, and the related documenting of ideas and creating associations may inhibit idea generation. A shared understanding of a mind map can be difficult to communicate. 	Sub-topic 1.1 Keyword Topic 1 Keyword Keyword Sub-topic 2.1 Keyword Topic 2 Keyword Keyword Keyword Keyword Sub-topic 3.1 Keyword Sub-topic 4.1 Keyword Sub-topic 4.1 Keyword Sub-topic 4.2 Keyword Sub-topic 4.3 Keyword Sub-topic 4.3.1
30	Non-Functional Requirements Analysis Non-functional requirements analysis examines the requirements for a solution that define how well the functional requirements must perform. It specifies criteria that can be used to judge the operation of a system rather than specific behaviours (which are referred to as the functional requirements).	 Categories of Non-Functional Requirements Measurement of Non-Functional Requirements Measurement of Non-Functional Requirements 	 Clearly states the constraints that apply to a set of functional requirements. Provides measurable expressions of how well the functional requirements must perform, leaving it to the functional requirements to express what the solution must do or how it must behave. This will also have a strong influence on whether the solution is accepted by the users. 	 The clarity and usefulness of a nonfunctional requirement depends on what the stakeholders know about the needs for the solution and how well they can express those needs. Expectations of multiple users may be quite different, and getting agreement on quality attributes may be difficult because of the users' subjective perception of quality. For example, what might be 'too fast' to one user might be 'too slow' to another. 	Na

	Description	Elements	Strengths	Limitations	Illustration
				 A set of non-functional requirements may have inherent conflicts and require negotiation. For example, some security requirements may require compromises on performance requirements. Overly strict requirements or constraints can add more time and cost to the solution, which may have negative impacts and weaken adoption by users. Many non-functional requirements are qualitative and therefore may be difficult to be measured on a scale, and may garner a degree of subjectivity by the users as to how they believe the particular requirements ultimately meet their needs. 	
31	Observation Observation is used to elicit information by viewing and understanding activities and their context. It is used as a basis for identifying needs and opportunities, understanding a business process, setting performance standards, evaluating solution performance, or supporting training and development.	 Observation Objectives Prepare for Observation Conduct the Observation Session Confirm and Present Observation Results 	 Observers can gain realistic and practical insight about the activities and their tasks within an overall process. Instances of informally performed tasks as well as any workarounds can be identified. Productivity can be viewed first-hand and realistically compared against any established performance standards or metrics. Recommendations for improvement are supported by objective and quantitative evidence. 	 May be disruptive to the performance of the participant and the overall Organisation. Can be threatening and intrusive to the person being observed. While being observed, a participant may alter their work practices. Significant time is required to plan for and conduct observations. Not suitable for evaluating knowledge-based activities since these are not directly observable. 	Na
32	Organisational Modelling Organisational modelling is used to describe the roles, responsibilities, and reporting structures that exist within an Organisation and to align those structures with the Organisation's goals.	 Types of Organisational Models Roles Interfaces Organisational Charts Influencers 	 Organisational models are common in most Organisations. Including an Organisational model in business analysis information allows team members to provide support. Future projects may benefit from knowing who was involved in this project and what their role entailed. 	 Organisational models are sometimes out of date. Informal lines of authority, influence, and communication not reflected in the org chart are more difficult to identify and may conflict with the Organisational chart. 	Area 1 Line Manager Line Manager Line Manager Line Manager Employee Employee Employee Employee Employee Employee Employee Employee Employee

	Description	Elements	Strengths	Limitations	Illustration
33	Prioritisation Prioritisation provides a framework for business analysts	 Grouping Ranking Time Boxing/Budgeting	Facilitates consensus building and trade-offs and ensures that solution value is realised and initiative timelines are met.	 Some stakeholders may attempt to avoid difficult choices and fail to recognise the necessity for making trade-offs. The solution team may intentionally or unintentionally try to influence the result of the Prioritisation process by overestimating the difficulty or complexity of implementing certain requirements. Metrics and key performance indicators are often not available when prioritizing business analysis information; therefore, a stakeholder's perspective of the importance may be subjective. 	Determine importance of business analysis information based on value, risk, difficulty of implementation, or other criteria.
	to facilitate stakeholder decisions and to understand the relative importance of business analysis information. • Negotiation	• Negotiation			Approaches to Prioritization Ranking BA information classified high, medium, low priority BA information class important BA information ordered from most to least important Consider audience needs and opinions Choose approach(es) Budgeting/Time Boxing BA information based on allocation of a fixed resource (time or money) Consider audience needs and opinions
34	Process Analysis assesses a process for its efficiency and effectiveness, as well as its ability to identify opportunities for change.	 Identify Gaps and Areas to Improve Identify Root Cause Generate and Evaluate Options Common Methods 	 Ensures solutions address the right issues, minimizing waste. Many different techniques and methodologies can be used and provide teams with great flexibility in approach. 	 Can be time-consuming. There are many techniques and methodologies in process analysis. It can be challenging to decipher which to use and how rigorously to follow them, given the scope and purpose. May prove ineffective at process improvement in knowledge or decision intensive processes. 	Supplier Customer Process Activity/Tasks Data Data Time Time Time Time Time Time Total elapsed time Value-adding time Non-value adding time

	Process Modelling	 Types of Process 	 Appeals to the basic human 	. T. 1 . TT. (1		
		i j pes el l'ideess	• Appears to the basic numan	• To many people in IT, a formal		
-		Models and	understanding of sequential activities.	process model tends to reflect an	Lane 1	Lane 2
	Process modelling is a	Notations	 Most stakeholders are comfortable 	older and more document-heavy		
	tandardized graphical model		with the concepts and basic elements	approach to software development.		
	used to show how work is carried		of a process model.	Therefore, project time is not	Start Event	
	ut and is a foundation for		• The use of levels can accommodate	allocated to developing a process	Ť	
pr	process analysis.		the different perspectives of various	model, especially of the current state	•	
			stakeholder groups.	or problem domain.	Task 1	
			• Effective at showing how to handle a	Can become extremely complex	[IdSK I	
			large number of scenarios and parallel	and unwieldy if not structured		The flow of work splits.
			branches.	carefully. This is especially true if	V	Tasks are executed in parallel.
			 Can help identify any stakeholder 	business rules and decisions are not	Parallel Split	paralici.
			groups that may have otherwise been	managed separately from the		
			overlooked.	process.		
			• Facilitates the identification of	Complex processes can involve	Task 2A Task 2B	
			potential improvements by	many activities and roles; this can		
			highlighting "pain points" in the	make them almost impossible for a	\wedge	
			process structure (i.e. process	single individual to understand and	Parallal I	The flow of work
			visualisation).	'sign off'.	Parallel Join	merges. The join must
			• Likely to have value in its own right.	Problems in a process cannot		be explicit.
			They provide documentation for	always be identified by looking at a	Input/Output	
			compliance purposes and can be used	high-level model. A more detailed	Task	
			by business stakeholders for training	model with reference to metadata		
			and coordination of activities.	(such as path frequency, cost, and	Data stare	Sub-Process
			 Can be used as a baseline for 	time factors) is usually required. It is	Data Store	
			continuous improvement.	often necessary to engage with	Sub-process Y Task 3	
			• Ensures labelling consistency across	stakeholders directly to find the	successful? Task 3	
			artefacts.	operational problems they have	; Y	
			 Provides transparency and clarity to 	encountered while working with a	Exclusive Gateway. The	A sub-process embeds
			process owners and participants on	process.	decision is not made at End Event	another process model.
			activity responsibilities, sequence and	• In a highly dynamic environment	the gateway. It is made	
			hand-overs.	where things change quickly, process	in a preceding task.	
				models can become obsolete.		
				May prove difficult to maintain if		
				the process model only serves as		
				documentation, as stakeholders may		
				alter the process to meet their needs		
				without updating the model.		
36 P	Prototyping	 Prototyping 	Provides a visual representation for	If the system or process is highly	Na	
		Approach (throw	the future state.	complex, the prototyping process		
P	Prototyping is used to elicit and	away, evolutionary)	 Allows for stakeholders to provide 	may become bogged down with		
vi	validate stakeholder needs	Prototyping	input and feedback early in the design	discussion of 'how' rather than		
	hrough an iterative process that	Examples	process.	'what', which can make the process		
	reates a model or design of	 Prototyping Methods 	When using throw-away or paper	take considerable time, effort, and		
	equirements. It is also used to	7 r 0 1120110 010	prototyping methods, users may feel	facilitation skill.		
	ptimize user experience, to		more comfortable being critical of the	Underlying technology may need		
	valuate design options, and as a		mock-up because it is not polished and	to be understood or assumed in		
	pasis for development of the final		release-ready.	order to initiate prototyping.		
	usiness solution.					
bı	usiness solution.		 A narrow yet deep vertical 	• If the prototype is deeply elaborate		

	Description	Elements	Strengths	Limitations	Illustrat	ion			
			feasibility studies, proof of concept efforts, or to uncover technology and process gaps.	develop unrealistic expectations for the final solution. These can range from assumed completion dates to higher expectations of performance, reliability, and usability. • Stakeholders may focus on the design specifications of the solution rather than the requirements that any solution must address. This can, in turn, constrain the solution design. Developers may believe that they must provide a user interface that precisely matches the prototype, even if more elegant technology and interface approaches exist.					
37	Reviews	• Objectives	• Can help identify defects early in the	• Rigorous team reviews take time	Role	Description	Responsibility	Applicable Techniques	
	Reviews are used to evaluate the content of a work product.	TechniquesParticipants	ews are used to evaluate the ent of a work product. • Participants the need for expensive removal of defects discovered later in the life reviewed using inspection	defects discovered later in the life cycle. • All parties involved in a review become engaged with the final reviewed using inspection or formal walkthrough techniques. • Informal reviews by one or two reviewers are practical in terms of	critical work products might be reviewed using inspection or formal	Author	Author of the work product.	Answers questions about the work product and listens to suggestions and comments. Incorporates changes into the work product after the review.	All
			 All parties involved in a review become engaged with the final outcome; they have a vested interest in a quality result. Desk checks and pass around reviews can be performed by a reviewer at a convenient time, rather Informal reviews by one or two reviewers are practical in terms of the effort required, but they provide less assurance of removing all significant defects than using a larger team and more formal process. For desk checks and pass around 		Reviewer	A peer or stakeholder.	Examines the work product according to the review objectives. For defect detection reviews, the reviewer examines the work product prior to a review session and keeps track of both defects found and suggestions for improvement.	All	
				less assurance of removing all significant defects than using a larger team and more formal process. • For desk checks and pass around	Facilitator	A neutral facilitator (should not be the author in order to avoid compromising the review).	Facilitates the review session, keeps participants focused on the objectives of the review and ensures that each relevant section of the work product is covered. Validates that reviewers have examined the work product before the session begins and ensures that all reviewers participate in the review session.	Inspection Formal walkthrough May be helpful for single issue review	
			than interrupting work in progress to attend a meeting.	reviews it may be difficult for the author to validate that an independent review was done by each participant.	Scribe	A neutral participant with strong communication skills.	Documents all defects, suggestions, comments, issues, concerns, and outstanding questions that are raised during a review session. Familiarity with the subject matter enables the scribe to capture items clearly.	Inspection Formal and informal walkthrough	
				• If review comments are shared and discussed via e-mail there may be many messages to process, which makes it difficult for the author to resolve disagreements or differences in suggested changes.					

	Description	Elements	Strengths	Limitations	Illustration						
38	Risk Analysis and Management Risk analysis and management identifies areas of uncertainty that could negatively affect value, analyses and evaluates those uncertainties, and develops and manages ways of dealing with the risks.	 Risk Identification Analysis Evaluation Treatment 	 Can be applied to strategic risks which affect long-term value of the enterprise, tactical risks which affect the value of a change, and operational risks which affect the value of a solution once the change is made. An Organisation typically faces similar challenges on many of its initiatives. The successful risk responses on one initiative can be useful lessons learned for other initiatives. The risk level of a change or of a solution could vary over time. Ongoing risk management helps to recognise that variation, and to reevaluate the risks and the suitability of the planned responses. 	 The number of possible risks to most initiatives can easily become unmanageably large. It may only be possible to manage a subset of potential risks. There is the possibility that significant risks are not identified. 	Risk Event or Condition 1 If the union does not agree with changes to job descriptions 2 If subject matter experts are not available for requirements elicitation 3 If an insufficient number of customers survey 4 If the organizational structure does not adjust to the planned new business processes 1 If the union then planned staff changes will not be able to accur job descriptions 2 If subject then scope matter and quality will be reduced, and the delivery requirements elicitation 3 If an then we will not have a representative sample of reply to our survey 4 If the organizational efficiencies and the business need will not be met	n Begin consu with the no late next reconsulting to late next reconsul	op a plan nen the are ed, hold e thops and n ment the or about ipation act with that slizes in / gement relop and ie survey usiness or must ve the izational pes prior ples ples prior ples prior ples prior ples prior ples prior ples prior ples prior ples ples ples ples prior ples ples prior ples ples prior ples ples ples ples ples ples ples ples	Rtisk Owner Marta Deepak François	Low Low	Impact Low Medium Low	Risk Level Low
39	Roles and Permissions Matrix A roles and permissions matrix is used to ensure coverage of activities by denoting responsibility, to identify roles, to discover missing roles, and to communicate results of a planned	 Identifying Roles Identifying Activities Identifying Authorities Refinements 	 Provides procedural checks and balances, as well as data security, by restricting individuals from performing certain actions. Promotes improved review of transaction history, in that audit logs can capture details about any assigned authorities at the time. 	• Need to recognise the required level of detail for a specific initiative or activity; too much detail can be time-consuming and not provide value, too little detail can exclude necessary roles or responsibilities.	Roles and Permissions Matrix	I	ator	Manager	Role Group 2	Sales	Customer
	change.		Provides documented roles and		Create new account	r	х	х	Ī		Х
			responsibilities for activities.		Modify account	-	X	Х	-	\dashv	X
					Create order	_	X	χ	-	х	X
					View reports	_	х	Х	-	х	\dashv
					Create reports	_	Х	Х	-	X	\exists
40	Root Cause Analysis Root cause analysis is used to identify and evaluate the underlying causes of a problem.	 The Fishbone Diagram The Five Whys 	 Helps to maintain an objective perspective when performing cause-and-effect analysis. Enables stakeholders to specify an effective solution at the appropriate points for corrective action. 	 Works best when the business analyst has formal training to ensure the root causes, not just symptoms of the problem, are identified. May be difficult with complex problems; the potential exists to lead to a false trail and/or dead-end conclusion. 	Category 1 Primary Cause Tertiary Cause Secondary Cause	*/	egory 2		-	Effect	

	Description	Elements	Strengths	Limitations	Illustration
41	-	 Objectives Scope of Change and Context Level of Detail Relationships Assumptions Scope Modelling Results 	 A scope model facilitates agreement as a basis for: defining contractual obligations, estimating the project effort, justifying in-scope/out-of-scope decisions in requirements analysis, and assessing the completeness and impact of solutions. 	 An initial, high-level model can lack a sufficient level of granularity, particularly for boundary elements, that is needed to ensure clear scope identification. Once a scope is defined, changing it may be difficult due to political reasons and contractual obligations. Meanwhile, many factors can affect the scope validity before the targets are achieved. Such factors as wrong initial assumptions, situation change, evolution of stakeholder needs, or technology innovations may cause a need for revising the scope partially or entirely. Traditional scope models cannot address common complex boundaries, such as a horizon (a boundary that is completely dependent on the position of the stakeholder). 	Na Na
42	Sequence Diagrams Sequence diagrams are used to model the logic of usage scenarios by showing the information passed between objects in the system through the execution of the scenario.	LifelineActivation BoxMessage	 Shows the interaction between the objects of a system in the chronological order that the interactions occur. Shows the interaction between the objects in a visual manner that allows the logic to be validated by stakeholders with relative ease. Use cases can be refined into one or more sequence diagrams in order to provide added detail and a more indepth understanding of a business process. 	 Time and effort can be wasted creating a complete set of sequence diagrams for each use case of a system, which may not be necessary. Have historically been used for modelling system flows and may be considered too technical in other circumstances. 	Object 1 Object 2 Object 3 Synchronous Message Asynchronous Message Lifeline Destruction
43	Stakeholder List, Map, or Personas Stakeholder lists, maps, and personas assist the business analyst in analysing stakeholders and their characteristics. This analysis is important in ensuring that the business analyst identifies all possible sources of requirements and that the stakeholder is fully understood so decisions made regarding stakeholder engagement,	 Stakeholder Lists Stakeholder Map Responsibility (RACI) Matrix Personas - A persona is defined as a fictional character or archetype that exemplifies the way a typical user interacts with a product. Personas are helpful when there is a desire to understand 	 Identifies the specific people who must be engaged in requirements elicitation activities. Helps the business analyst plan collaboration, communication, and facilitation activities to engage all stakeholder groups. Useful to understand changes in impacted groups over time. 	 Business analysts who are continuously working with the same teams may not utilize the stakeholder analysis and management technique because they perceive change as minimal within their respective groups. Assessing information about a specific stakeholder representative, such as influence and interest, can be complicated and may feel politically risky. 	Stakeholder Matrix

Description	Elements	Strengths	Limitations	Illustration		
collaboration, and communication are the best choices for the stakeholder and for the success of the initiative.	the needs held by a group or class of users.			Influence of Stakeholder	Ensure stakeholder remains satisfied.	Work closely with stakeholder to ensure that they are in agreement with and support the change.
					Monitor to ensure stakeholders interest or influence do not change.	Keep informed; stakeholder is likely to be very concerned and may feel anxious about lack of control.
					Low Impa Stake	oct on High holder
					Onion Diag	ram
					Affected External Stakeholders Organization or Enterprise Affected Organizational Unit Solution Delivery	Customers, suppliers, regulators, and others. Sponsors, executives, domain SMEs, and others who interact with the affected group. End users, help desk, and others whose work changes when the solution is delivered. Project team and others directly involved with
					RACI	creating the solution.

Description	Elements	Strengths	Limitations	Illustration
				Change Request Process RACI
				Executive Sponsor A
				Business Analyst R
				Project Manager C
				Developer C
				Tester
				Trainer
				Application Architect C
				Data Modeller C
				Database Analyst (DBA)
				Infrastructure Analyst C
				Business Architect R
				Information Architect C
				Solution Owner C
				Subject Matter Expert (SME)
				Other Stakeholders R C I
				(varies)
44 State Modelling	State	Identifies business rules and	• Is usually only used to understand	
State modelling is used to describe and analyse the different possible states of an entity within a system, how that entity changes from one state to another, and what can happen to the entity when it is in each state.	State TransitionState DiagramState Tables	information attributes that apply to the entity being modelled. • Identifies and describes the activities that apply to the entity at different states of the entity. • Is a more effective documentation and communication tool than plain text, especially if the entity being described has more than a few states, transitions, and conditions governing those transitions.	and communicate about information entities that are perceived to be complex; simple entities may be understood without the time and effort required to build a state model. • Building a state model appears simple at the start, but achieving a consensus among domain SMEs about the details required by the model can be difficult and time-consuming. • A high degree of precision about states and transitions is required to build a state diagram; some domain	Initial State State 1 Transition State 3 Final State
			SMEs and business analysis practitioners are uncomfortable	

	Description	Elements	Strengths	Limitations	Illustration		
	_			trying to describe such a level of detail.			
45	A survey or questionnaire is used to elicit business analysis information — including information about customers, products, work practices, and attitudes — from a group of people in a structured way and in a relatively short period of time.	 Prepare Distribute the Survey or Questionnaire Document the Results 	 Quick and relatively inexpensive to administer. Easier to collect information from a larger audience than other techniques such as interviews. Does not typically require significant time from the respondents. Effective and efficient when stakeholders are geographically dispersed. When using closed-ended questions, surveys can be effective for obtaining quantitative data for use in statistical analysis. When using open-ended questions, survey results may yield insights and opinions not easily obtained through other elicitation techniques. 	 To achieve unbiased results, specialized skills in statistical sampling methods are needed when surveying a subset of potential respondents. The response rates may be too low for statistical significance. Use of open-ended questions requires more analysis. Ambiguous questions may be left unanswered or answered incorrectly. May require follow-up questions or more survey iterations depending on the answers provided. 		Na	
46	SWOT analysis is a simple yet effective tool used to evaluate an Organisation's strengths, weaknesses, opportunities, and threats to both internal and external conditions.	Na	 Is a valuable tool to aid in understanding the Organisation, product, process, or stakeholders. Enables business analysts to direct the stakeholders' focus to the factors that are important to the business. 	 The results of a SWOT analysis provide a high-level view; more detailed analysis is often needed. Unless a clear context is defined for the SWOT analysis the result may be unfocused and contain factors which are not relevant to the current situation. 	Strengths Strength Strength Strength Weaknesses Weakness Weakness	Opportunities Opportunity Opportunity Opportunity Opportunity SO Strategies How can the group's strength be used to exploit potential opportunities? SO strategies are fairly straightforward to implement. WO Strategies Can the group use an opportunity to eliminate or	Threats Threat Threat Threat Threat Threat ST Strategies How can the group use its strengths to ward off potential threats? Can the threats be turned into opportunities? WT Strategies Can the group restructure itself to avoid the threat?
					Weakness	mitigate a weakness? Does the opportunity warrant the development of new capabilities?	Should the group consider getting out of this market? WT strategies involve worst-case scenarios.

	Description	Elements	Strengths	Limitations	Illustration
47	Use cases and scenarios describe how a person or system interacts with the solution being modelled to achieve a goal.	 Use Case Diagram Use Case Description 	 Use case diagrams can clarify scope and provide a high-level understanding of requirements. Use case descriptions are easily understood by stakeholders due to their narrative flow. The inclusion of a desired goal or outcome ensures that the business value of the use case is articulated. Use case descriptions articulate the functional behaviour of a system. 	 The flexibility of the use case description format may lead to information being embedded that would be better captured using other techniques such as user interface interactions, non-functional requirements, and business rules. Decisions and the business rules that define them should not be recorded directly in use cases, but managed separately and linked from the appropriate step. The flexible format of use cases may result in capturing inappropriate or unnecessary detail in the attempt to show every step or interaction. Use cases intentionally do not relate to the design of the solution and as a result, significant effort may be required in development to map use case steps to software architecture. 	System
48	User Stories A user story represents a small, concise statement of functionality or quality needed to deliver value to a specific stakeholder.	 Title (optional) Statement of Value Conversation Acceptance Criteria 	 Easily understandable by stakeholders. Can be developed through a variety of elicitation techniques. Focuses on value to stakeholders. A shared understanding of the business domain is enhanced through collaboration on defining and exploring user stories. Tied to small, implementable, and testable slices of functionality, which facilitates rapid delivery and frequent customer feedback. 	In general, user stories are intended as a tool for short-term capture and Prioritisation of requirements and not for long-term knowledge retention or to provide a detailed analysis. Neglecting this principle can lead to the following issues: • This conversational approach can challenge the team since they do not have all the answers and detailed specifications upfront. • Requires context and visibility; the team can lose sight of the big picture if stories are not traced back through validation or supplemented with higher level analysis and visual artefacts. • May not provide enough documentation to meet the need for governance, a baseline for future work, or stakeholder expectations. Additional documentation may be required.	Na Na
49	Vendor Assessment	Knowledge and Expertise	• Increases the chances of the Organisation to develop a productive	May be consuming in regards to time and resources.	Na
	A vendor assessment assesses the	Licensing and	and fair relationship with a suitable	• Does not prevent risk of failure as	

Description	Elements	Strengths	Limitations	Illustration
ability of a vendor to meet commitments regarding the delivery and the consistent provision of a product or service.	Pricing Models Vendor Market Position Terms and Conditions Vendor Experience, Reputation, and Stability	and reliable vendor, and to improve long-term satisfaction with the decision.	the partnership evolves. • Subjectivity may bias the evaluation outcome.	
Workshops bring stakeholders together in order to collaborate on achieving a predefined goal.	Prepare for the WorkshopWorkshop Roles	 Can be a means to achieve agreement in a relatively short period of time. Provides a means for stakeholders to collaborate, make decisions, and gain a mutual understanding. Costs are often lower than the cost of performing multiple interviews. Feedback on the issues or decisions can be provided immediately by the participants. 	 Stakeholder availability may make it difficult to schedule the workshop. The success of the workshop is highly dependent on the expertise of the facilitator and knowledge of the participants. Workshops that involve too many participants can slow down the workshop process. Conversely, collecting input from too few participants can lead to the overlooking of needs or issues that are important to some stakeholders, or to the arrival at decisions that don't represent the needs of the majority of the stakeholders. 	Na Na

9. PERSPECTIVES

DESCRIPTION

Perspectives are used within business analysis work to provide focus to tasks and techniques specific to the context of the initiative. Most initiatives are likely to engage one or more perspectives.

The perspectives included in the BABOK® Guide are:

- Agile,
- Business Intelligence,
- Information Technology,
- Business Architecture, and
- Business Process Management.

These perspectives do not presume to represent all the possible perspectives from which business analysis is practiced. The perspectives discussed in the BABOK® Guide represent some of the most common views of business analysis at the time of writing.

While the business analysis tasks detailed in the BABOK® Guide are intended to be applicable across all areas of business analysis, they are also pertinent to each specific business analysis perspective. Perspectives provide ways to approach business analysis work in a more focused manner suitable to the context. The perspectives help interpret and understand the knowledge areas and tasks in the BABOK® Guide from the lens in which one is currently working. Each perspective follows a common structure:

- Change Scope,
- Business Analysis Scope,
- Methodologies, Approaches, and Techniques,
- Underlying Competencies, and
- Impact on Knowledge Areas.

	Perspective	Change Scope		Methodologies, Approaches and Reference Models/Techniques	Illustration	
		Breadth of Change	Depth of Change			
1	The Agile Perspective highlights the unique characteristics of business analysis when practiced in the context of agile environments. Agile is about having a flexible mindset, embodied in a set of values and principles and exhibited by a variety of complementary practices. Agile initiatives involve constant change. Business analysts working on agile initiatives continually reassess, adapt, and adjust their efforts and tactics. Business analysts conduct analysis and deliver work products at the last responsible moment to continually allow flexibility for change; detailed analysis work is not done ahead of time, but just in time to be effectively	Agile approaches are used to address a variety of needs in an enterprise. The most common use of agile practices is in software development projects. However, many organisations have started to apply agile principles to nonsoftware related change such as process engineering and business improvement. Initiatives using agile approaches can be undertaken within a single department or can span across	Agile principles and practices are often successfully applied in initiatives where: • there is a clear commitment from the customer and engagement by empowered subject matter experts (SMEs), • the business need or proposed solution is complex or complicated, and • business needs are changing or unknown and are still emerging.	 Crystal Clear Disciplined Agile Delivery (DAD) Dynamic Systems Development Method (DSDM) Evolutionary Project Management (Evo) Extreme Programming (XP) Feature Driven Development (FDD) Kanban Scaled Agile Framework® (SAFeTM) Scrum Behaviour Driven Development (BDD) Kano Analysis Lightweight Documentation MoSCoW Prioritisation Personas 	Na	

	Perspective	Change Scope		Methodologies, Approaches and Reference Models/Techniques	Illustration	
		Breadth of Change	Depth of Change			
	utilized by the agile team. Agile business analysis ensures that information is available to the agile team at the right level of detail at the right time. Business analysts help agile teams answer these questions: • What need are we trying to satisfy? • Is that need worth satisfying? • Should we deliver something to satisfy that need? • What is the right thing to do to deliver that need?	multiple teams, departments, and divisions of an organisation.	Depth of Change	 Planning Workshop Purpose Alignment Model Real Options Relative Estimation Retrospectives Story Decomposition Story Mapping Storyboarding Value Stream Mapping 		
2	The Business Intelligence Perspective highlights the unique characteristics of business analysis when practiced in the context of transforming, integrating, and enhancing data. The focus of business intelligence is the transformation of data into value-added information: where to source it, how to integrate it, and how to enhance and deliver it as analytic insight to support business decision making. Business intelligence initiatives apply data-centric system architectures as well as technologies and tools to deliver reliable, consistent, high-quality information that enables stakeholders to better manage strategic, tactical, and operational performance.	A key objective of a business intelligence system is the consistent definition and usage of information throughout an organisation by establishing a 'single point of truth' for diverse business data.	 Executive level Management level Process level 	 Descriptive analytics Predictive analytics Prescriptive analytics 	Data Sources EXTERNAL SYSTEMS Pather Industry Public Corporate Business Area Ad-hoc, isolated Other Sources Machine data Web data Addo Visual data Documents & text External Systems Logical Reports Operational Data Stores Data Marts Data Analytics Data Analytics Information Delivery Conditional Alerts Audio Visual data Documents & text Documents & text Data Analytical Data Sandboxes Automated Decision Points Data Ad-hoc Queries Ad-hoc Queries Analytical Data	
3	The Information Technology Perspective The Information Technology Perspective highlights the characteristics of business analysis when undertaken from the point of view of the impact of the change on information technology systems. When working in the information technology (IT) discipline, business analysts deal with a wide range of complexity and scope of activities.	 Create a new organisational capability Achieve an organisational objective by enhancing an existing capability Facilitate an operational improvement Maintain an existing 	The nature of business analysis activities in an IT environment depend on a variety of solution impact factors: • What happens to the business if this system shuts down? • What happens if the system performance degrades? • What business capabilities and processes	PredictiveAdaptive	Na	

	Perspective	Change Scope		Methodologies, Approaches and Reference Models/Techniques	Illustration	
		Breadth of Change	Depth of Change	reference woders, recliniques		
	Initiatives may be as small as minor bug fixes and enhancements, or as large as re-engineering the entire information technology infrastructure for an extended enterprise. Business analysts are called upon to work with this diverse level of knowledge and skills among stakeholders to deliver valuable solutions to their IT needs. Business analysts working in an information technology environment consider their tasks in light of three key factors: Solution impact: the value and risk of the solution to the business. Organisational maturity: the formality and flexibility of the organisational change processes. Change scope: the breadth, depth, complexity, and context for the proposed change.	information technology system Repair a broken information technology system	depend on the IT system? • Who contributes to those capabilities and processes? • Who uses those capabilities and processes?			
4	The Business Architecture Perspective The Business Architecture Perspective highlights the unique characteristics of business analysis when practiced in the context of business architecture. Business architecture models the enterprise in order to show how strategic concerns of key stakeholders are met and to support ongoing business transformation efforts. Business architecture provides architectural descriptions and views, referred to as blueprints, to provide a common understanding of the organisation for the purpose of aligning strategic objectives with tactical demands. The discipline of business architecture applies analytical thinking and architectural principles to the enterprise level. The solutions may include changes in the	Business architecture may be performed: • across the enterprise as a whole, • across a single line of business within the enterprise (defining the architecture of one of the enterprise's business models), or • across a single functional division.	A business architecture effort may focus on the executive level of the enterprise to support strategic decision making, or on the management level to support the execution of initiatives. While business architecture provides important context, it does not usually operate at the operational decision or process level; instead, it assesses processes at the level of the value stream.	Reference Models: Association for Cooperative Operations Research and Development (ACORD) Business Motivation Model (BMM) Control Objectives for IT (COBIT) eTOM and FRAMEWORX Federal Enterprise Architecture Service Reference Model (FEASRM) Information Technology Infrastructure Library (ITIL®) Process Classification Framework (PCF) Supply Chain Operations Reference (SCOR) Value Reference Model (VRM) Techniques: Archimate® Business Motivation Model	Na	
	business model, operating model, organisational structure, or drive other initiatives.			(BMM)Business Process Architecture		

Perspective	Change Scope		Methodologies, Approaches and Reference Models/Techniques	Illustration	
	Breadth of Change	Depth of Change	 Capability Map Customer Journey Map Enterprise Core Diagram Information Map Organisational Map Project Portfolio Analysis Roadmap Service-Oriented Analysis The Open Group Architecture Framework (TOGAF®) Value Mapping Zachman Framework 		
The Business Process Management Perspective The Business Process Management Perspective highlights the unique characteristics of business analysis when practiced in the context of developing or improving business processes. Business Process Management (BPM) is a management discipline and a set of enabling technologies that: • focuses on how the organisation performs work to deliver value across multiple functional areas to customers and stakeholders, • aims for a view of value delivery that spans the entire organisation, and • views the organisation through a process-centric lens.	 Designing Modelling Execution and Monitoring Optimizing 	Business analysts use BPM frameworks to facilitate the analysis and deep understanding of the organisation's processes. BPM frameworks are sets or descriptions of processes for a generic organisation, specific industry, professional area, or type of value stream. BPM frameworks define particular levels of processes throughout the organisation's process architecture.	Framework: ACCORD Enhanced Telecommunications Operations Map (eTOM) Governments Strategic Reference Model (GSRM) Model based and Integrated Process Improvement (MIPI) Process Classification Framework(PCF) Methodologies: Adaptive Case Management (ACM) Business Process Reengineering (BPR) Continuous Improvement (CI) Lean Six Sigma Theory Of Constraints (TOC) Total Quality Management (TQM) Techniques: Cost Analysis Critical to Quality (CTQ) Cycle-time Analysis Define Measure Analyze Design Verify (DMADV) Define Measure Analyze Improve Control (DMAIC) Drum-Buffer-Rope (DBR) Failure Mode and Effect Analysis (FMEA)	Process Change Initiative Business Analyst Process Architect Process Project Manager Process Analyst Process Modeller Process Manager Process Manager Process Manager Process Manager Implementation Ongoing Staff Process Process Manager Process Manager	

Perspective	pective Change Scope		Methodologies, Approaches and Reference Models/Techniques	Illustration
	Breadth of Change	Depth of Change		
			House of Quality/ Voice of	
			Customer	
			 Inputs, Guide, Outputs, 	
			Enablers (IGOE)	
			Kaizen Event	
			Process Simulation	
			Suppliers Inputs Process	
			Outputs Customers (SIPOC)	
			 Theory of Constraints (TOC) 	
			Thinking Processes	
			Value Added Analysis	
			Value Stream Analysis	
			Who What When Where Why	
			(5Ws)	

CONTENT REVIEWERS

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