

Requirements Life Cycle Management

Module - 5



6 Knowledge Area

Describe the practice of business analysis as it is applied within the boundaries of a project or throughout enterprise evolution and continuous improvement

Business Analysis Planning & Monitoring

Elicitation & Collaboration

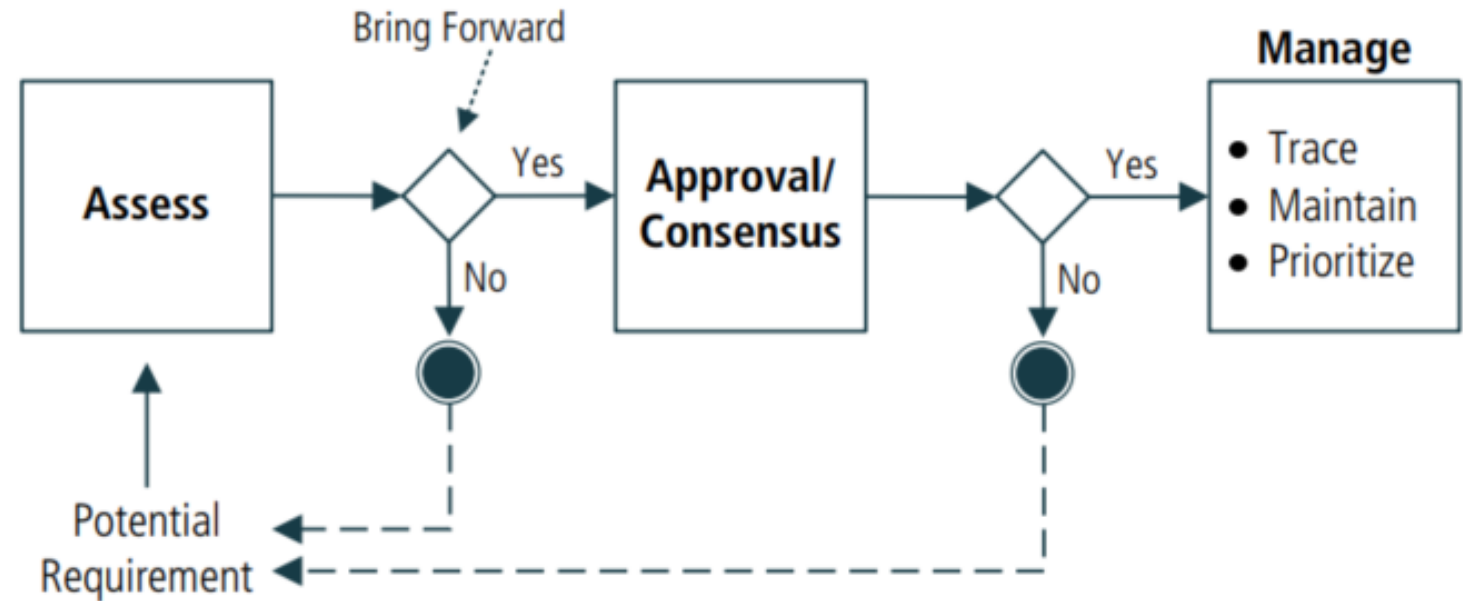
Requirements Life Cycle Management

Strategy Analysis

Requirement Analysis & Design Definition (RADD)

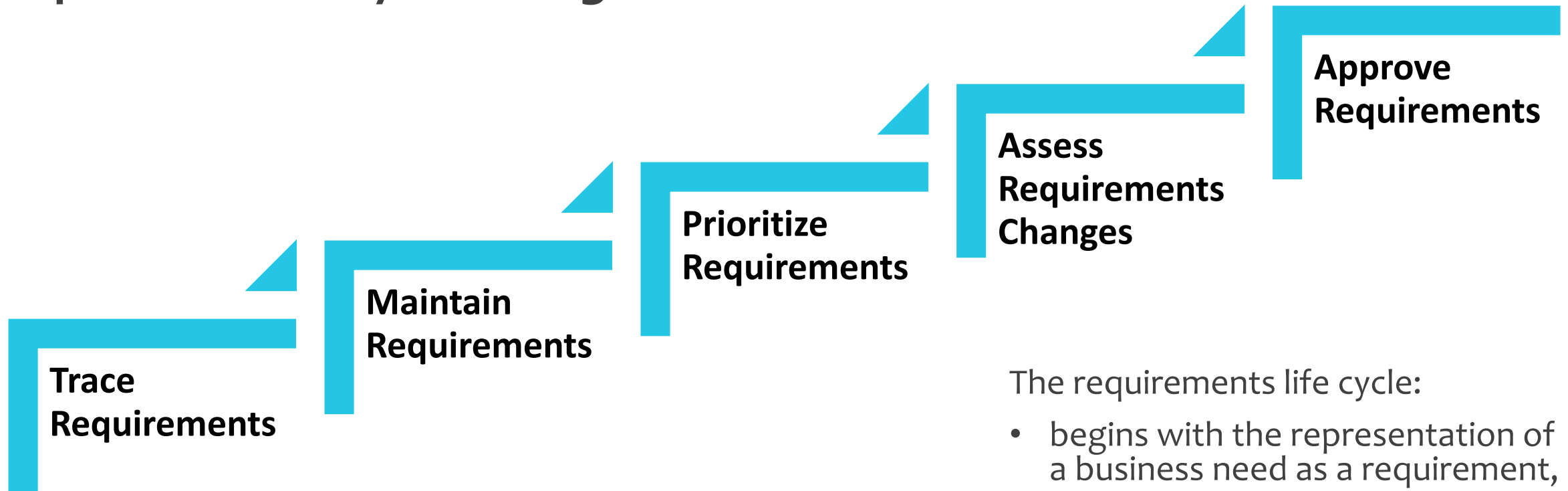
Solution Evaluation

Purpose of Requirement Life Cycle Management



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.

Requirement Life Cycle Management Tasks:



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.

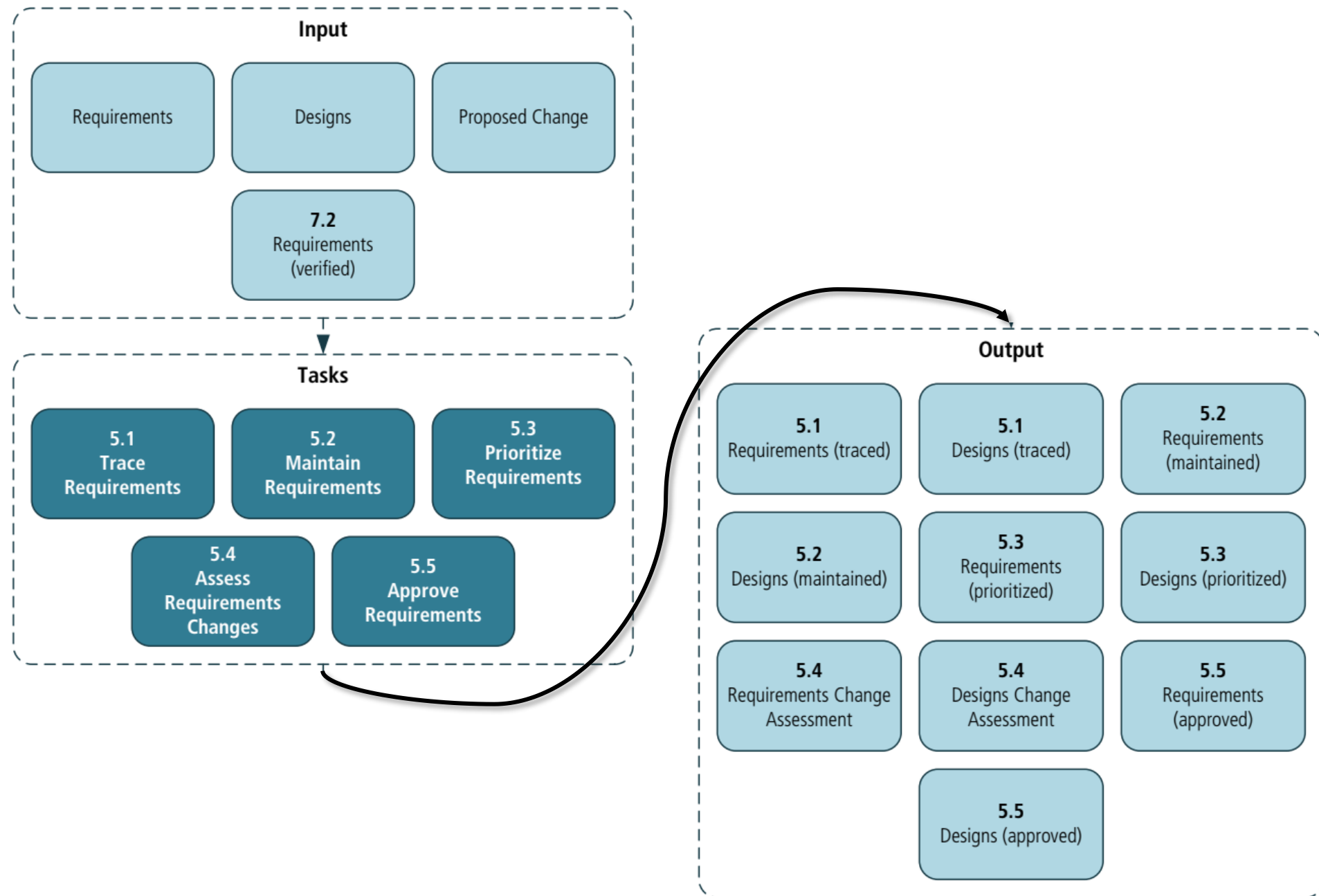
Core Concepts with the context of Requirement Life Cycle Management

Core Concept	During Requirements Life Cycle Management, business analysts...
Change: the act of transformation in response to a need.	manage how proposed changes to requirements and designs are evaluated during an initiative.
Need: a problem or opportunity to be addressed.	trace, prioritize and maintain requirements to ensure that the need is met.
Solution: a specific way of satisfying one or more needs in a context.	trace requirements and designs to solution components to ensure that the solution satisfies the need.

Core Concepts with the context of Requirement Life Cycle Management

Core Concept	During Requirements Life Cycle Management, business analysts...
Stakeholder: a group or individual with a relationship to the change, the need, or the solution.	work closely with key stakeholders to maintain understanding, agreement, and approval of requirements and designs.
Value: the worth, importance, or usefulness of something to a stakeholder within a context.	maintain requirements for reuse to extend value beyond the current initiative.
Context: the circumstances that influence, are influenced by, and provide understanding of the change.	analyze the context to support tracing and prioritization activities.

Requirements Life Cycle Management Input/Output Diagram

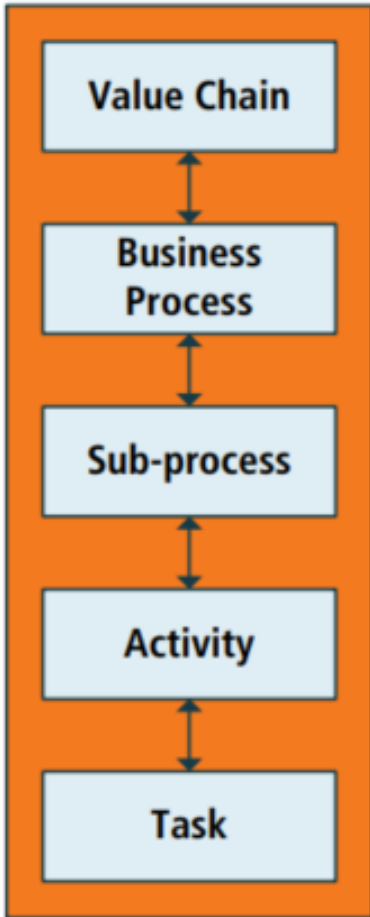


5.1 Trace Requirement

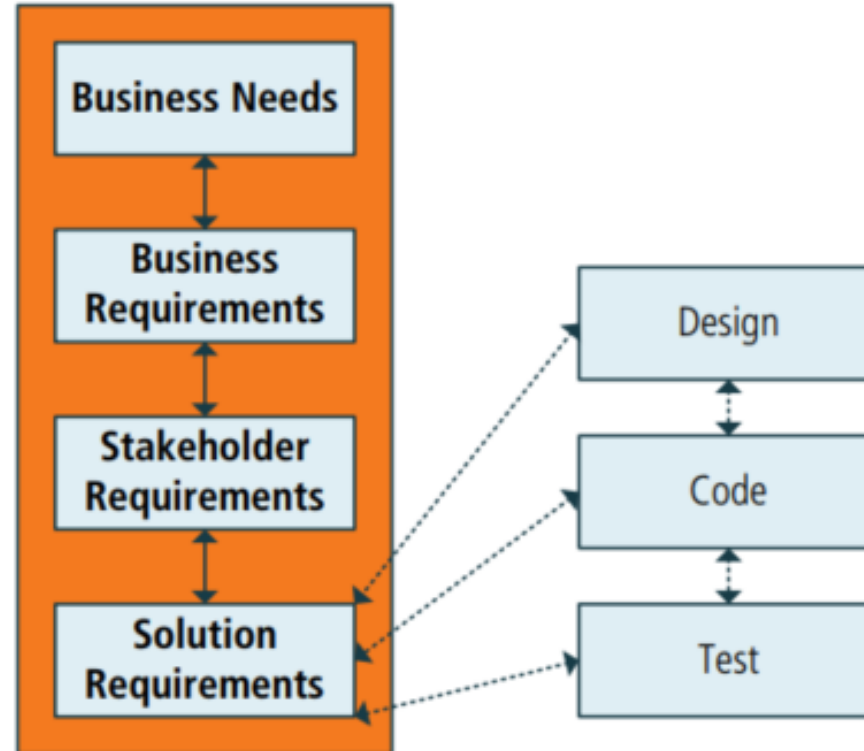
- The purpose of Trace Requirements is **to ensure that requirements and designs at different levels are aligned to one another**, and to manage the effects of change to one level on related requirements.
- Traceability enables:
 - faster and simpler impact analysis,
 - more reliable discovery of inconsistencies and gaps in requirements,
 - deeper insights into the scope and complexity of a change, and
 - reliable assessment of which requirements have been addressed and which have not.
- It is often difficult to accurately represent needs and solutions without taking into account the relationships that exist between them.

Examples of visual representations of traceability for a process and for software requirements.

Process Traceability



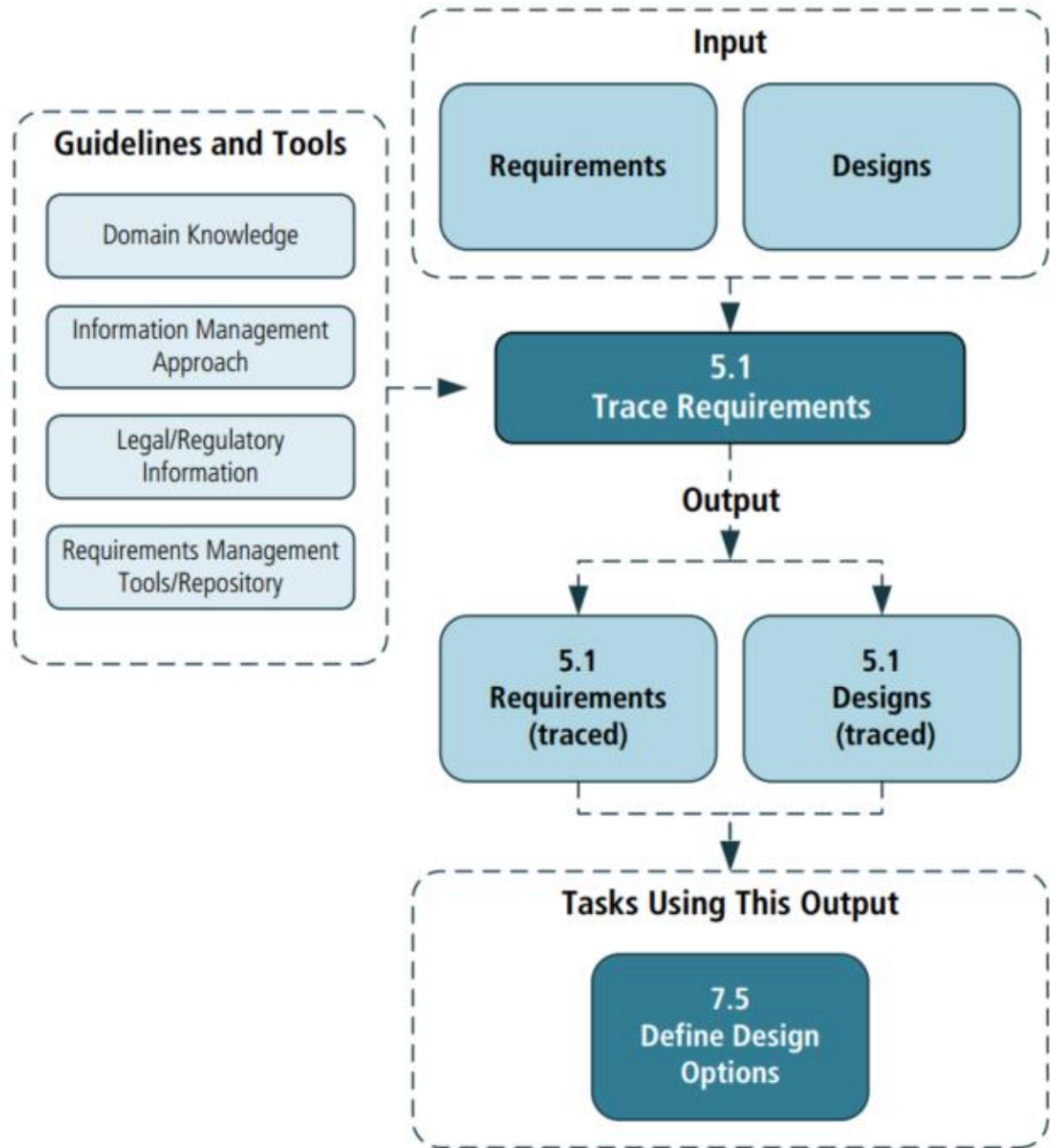
Software Requirements Traceability



Trace Requirement Input/Output Diagram

Techniques

- Business Rule Analysis
- Functional Decomposition
- Process Modelling
- Scope Modelling



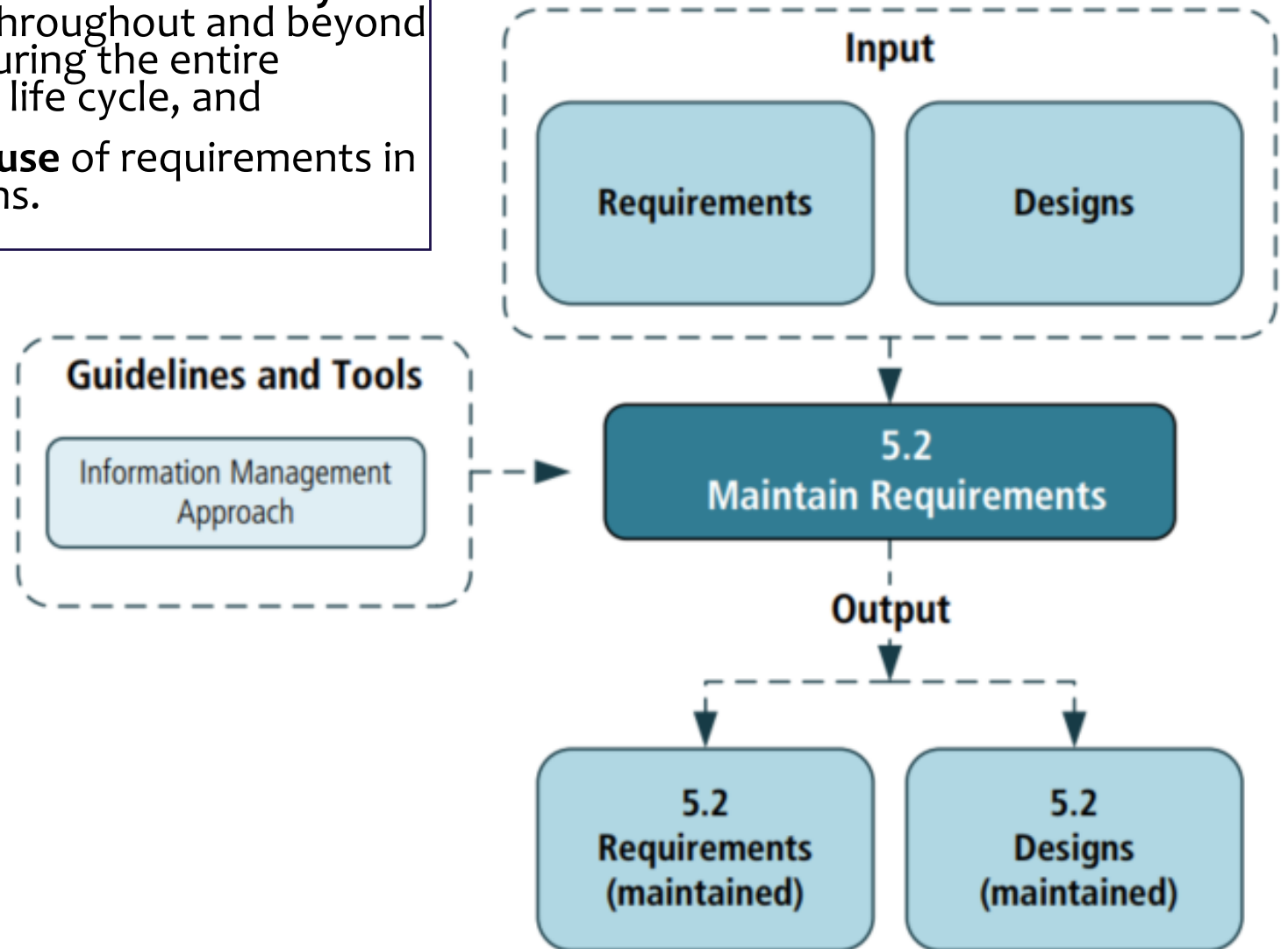
5.2 Maintain Requirements

The purpose

- 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.

Techniques

- Business Rule Analysis
- Data Flow Diagrams
- Data Modelling
- Document Analysis
- Functional Decomposition
- Process Modelling
- Use Cases and Scenarios
- User Stories



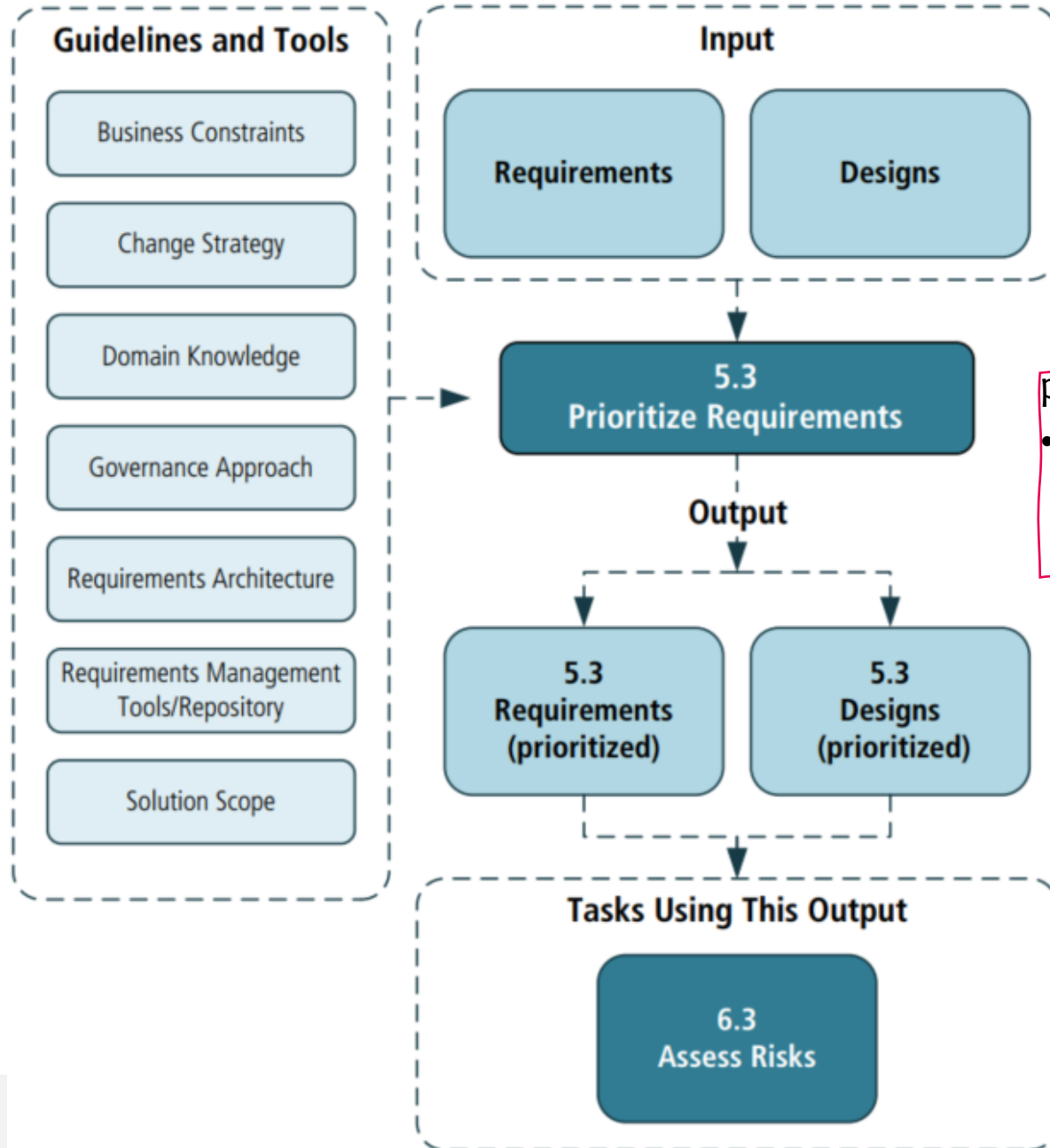
Maintain Requirements Input/Output Diagram

5.3 Prioritize Requirements

Techniques

- Backlog Management
- Business Cases
- Decision Analysis
- Estimation
- Financial Analysis
- Interviews
- Item Tracking
- Prioritization
- Risk Analysis and Management
- Workshops

Prioritize Requirements Input/Output Diagram



purpose

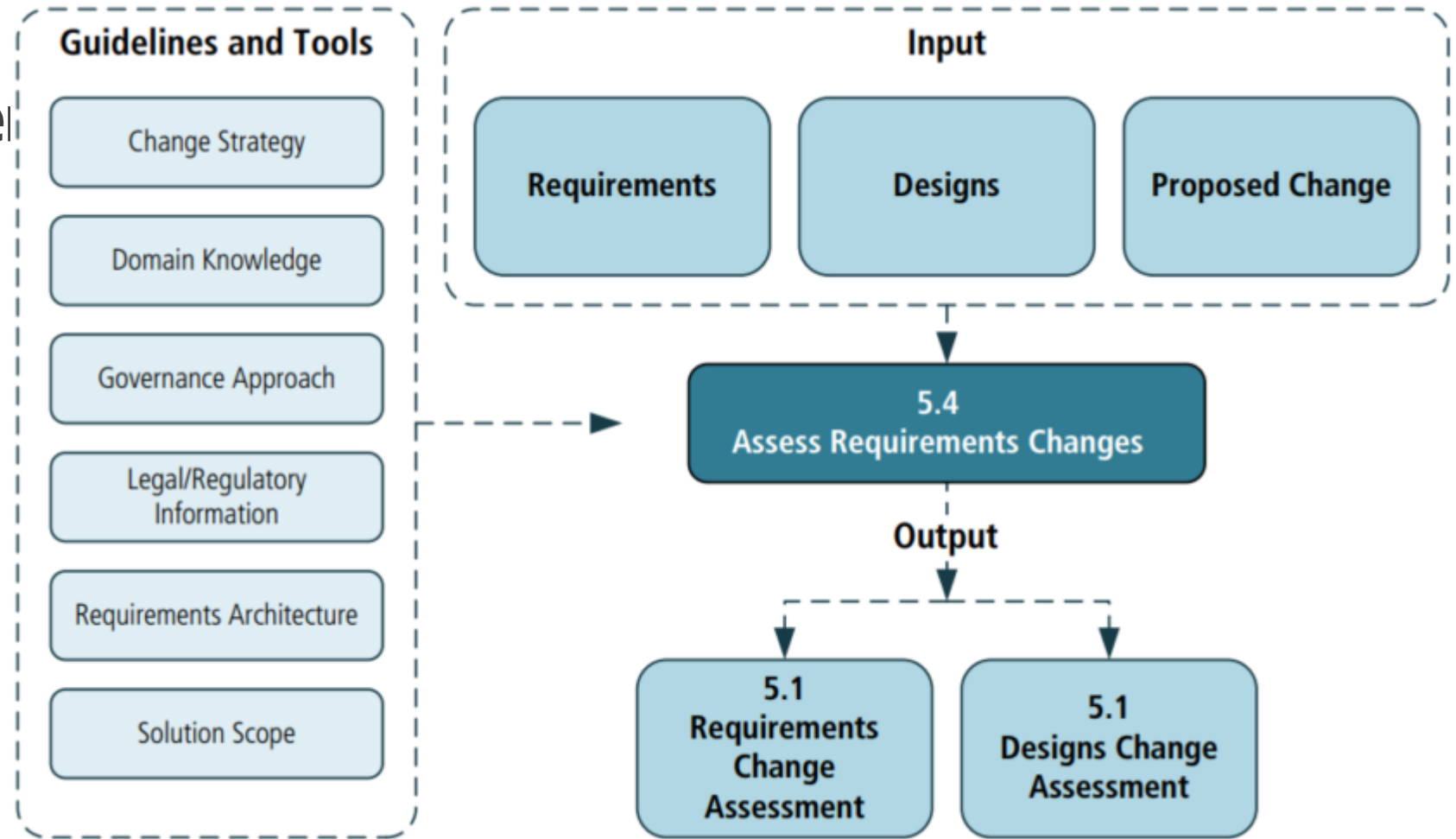
- to **rank** requirements in the order of relative importance.

5.4 Assess Requirements Changes

Techniques

- Business Cases
- Business Rules Analysis
- Decision Analysis
- Document Analysis
- Estimation
- Financial Analysis
- Interface Analysis
- Interviews
- Item Tracking
- Risk Analysis and Management
- Workshops

Assess Requirements Changes Input/Output Diagram



purpose

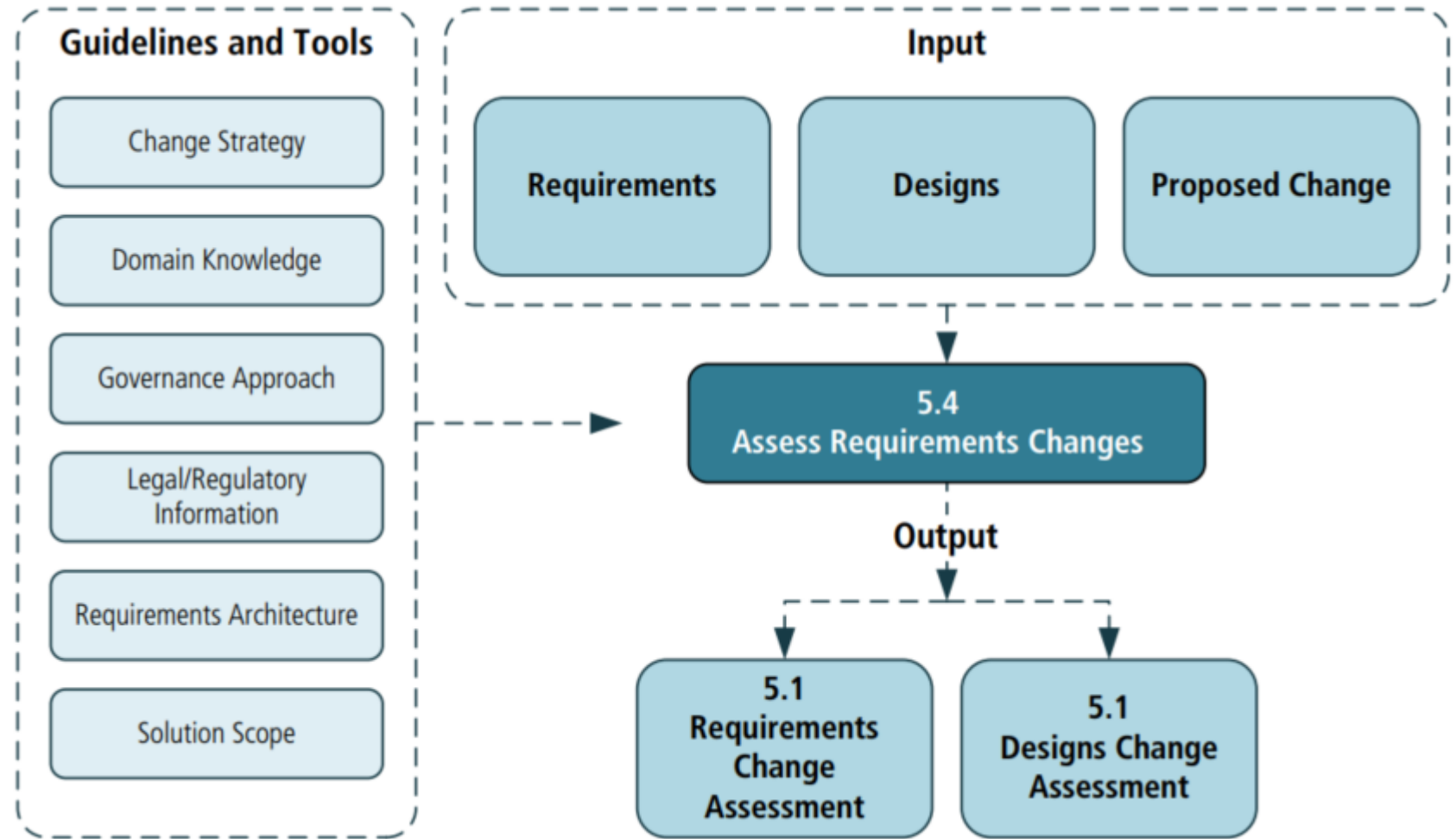
- to **evaluate the implications** of proposed changes to requirements and designs.

5.5 Approve Requirements

Techniques

- Business Cases
- Business Rules Analysis
- Decision Analysis
- Document Analysis
- Estimation
- Financial Analysis
- Interface Analysis
- Interviews
- Item Tracking
- Risk Analysis and Management
- Workshops

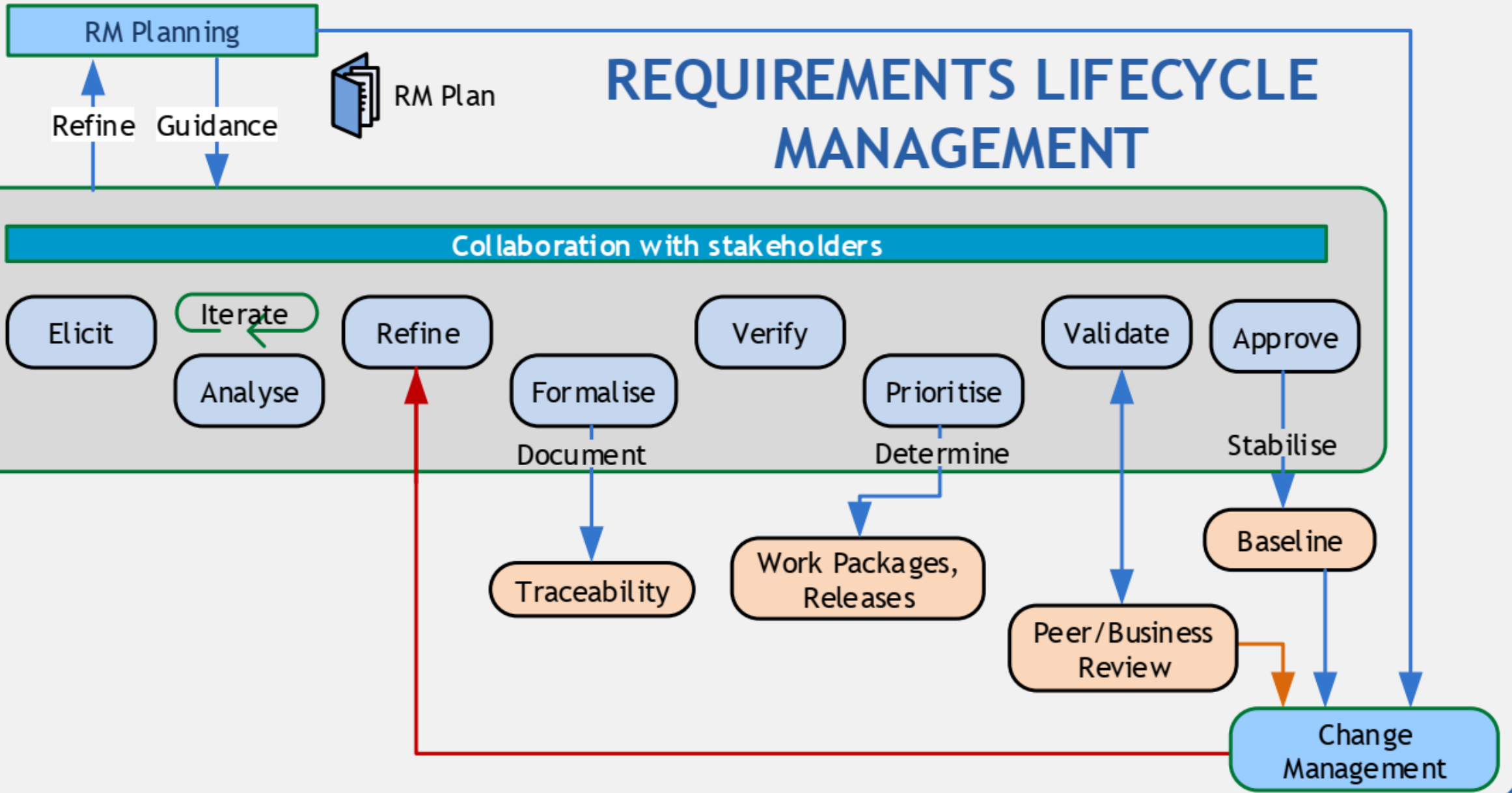
Assess Requirements Changes Input/Output Diagram



purpose

- to **evaluate the implications** of proposed changes to requirements and designs.

REQUIREMENTS LIFECYCLE MANAGEMENT





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