# Consultancy Services for the Development of a Government Enterprise Architecture (GEA) and E-government Interoperability Framework (E-GIF)

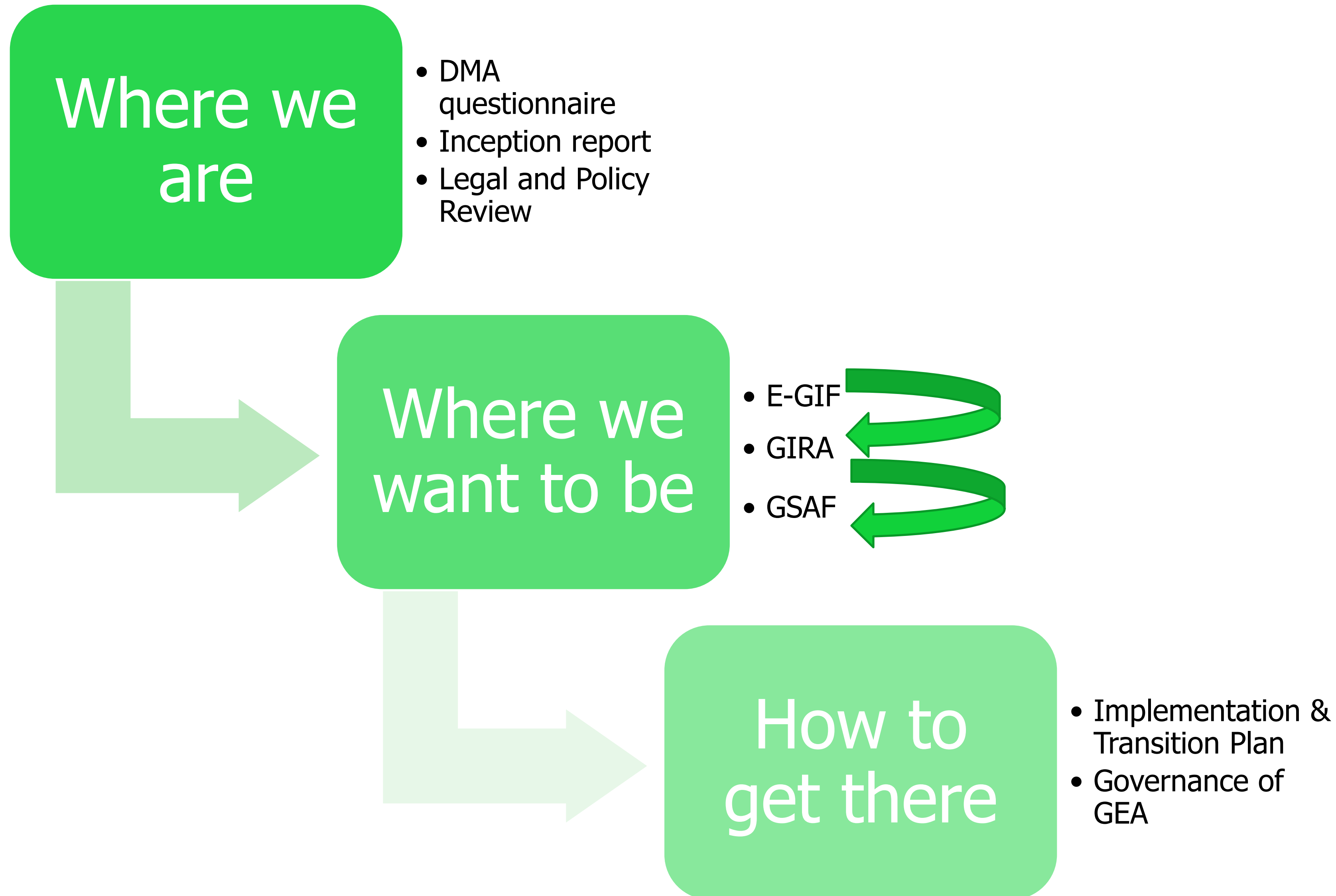# Overview of the components of the GEA and GIF

**Tõnis Mäe**

Project Team Leader

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# Why this workshop

The workshop will cover the main aspects of the GEA and GIF and **motivate** stakeholders **to study the project outcomes** and give feedback after the workshop



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# Project Roadmap

**Where we are**
- DMA questionnaire
- Inception report
- Legal and Policy Review

**Where we want to be**
- E-GIF
- GIRA
- GSAF

**How to get there**
- Implementation & Transition Plan
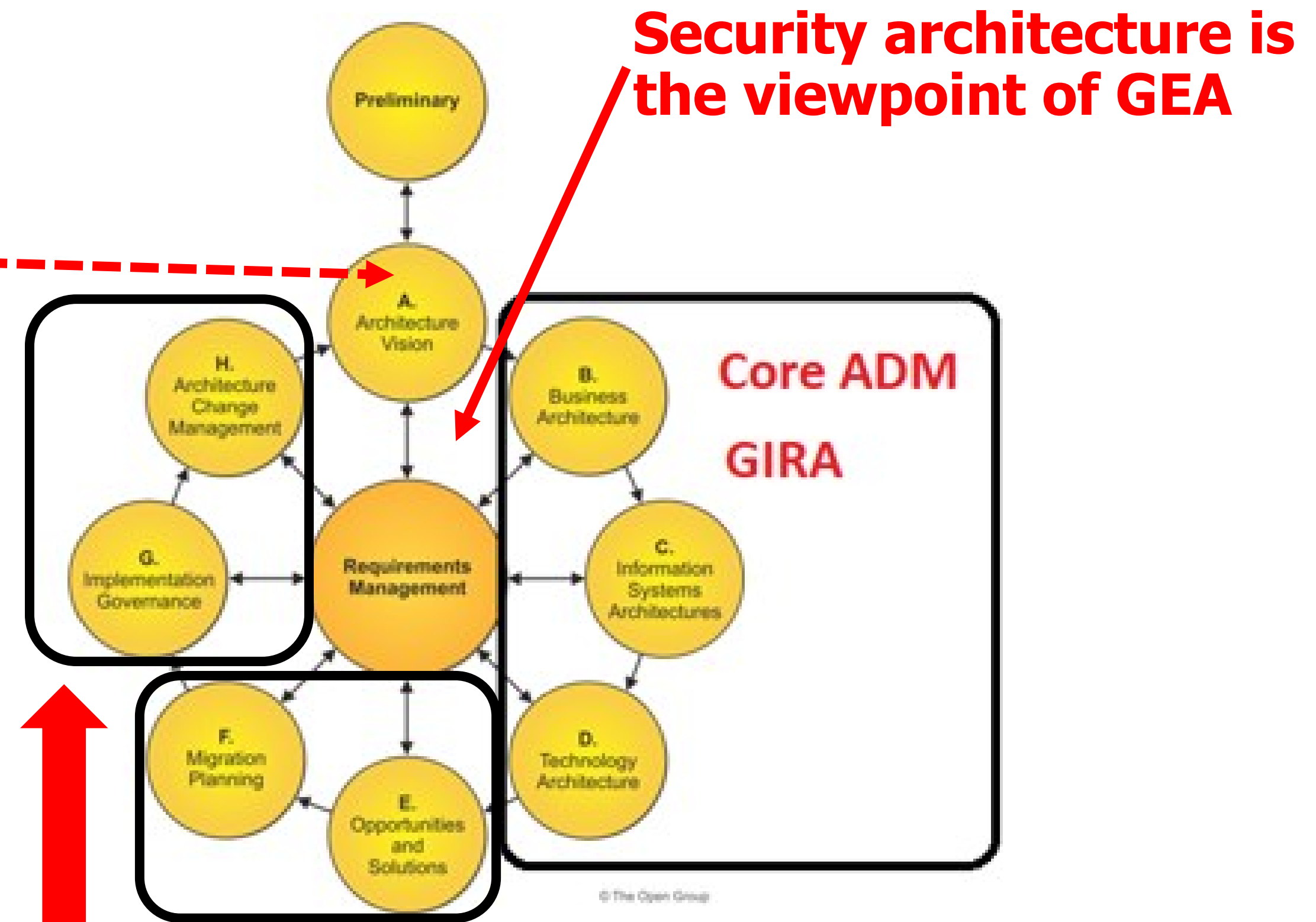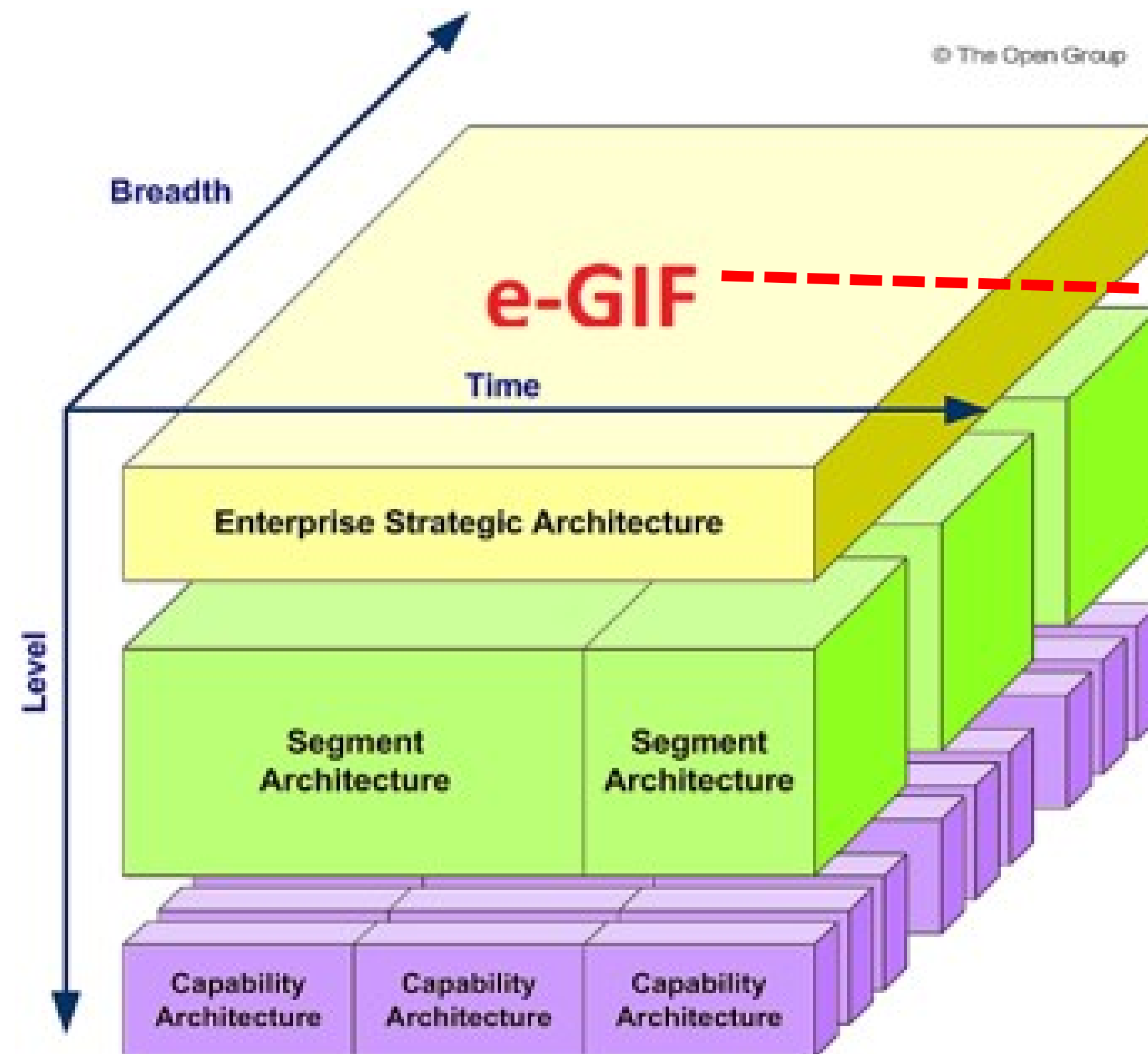- Governance of GEA

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# Tools used in the project

- The European Interoperability Reference Architecture (EIRA©)

- The Open Group Architecture Framework (TOGAF),

- The Architecture Development Method (ADM) of TOGAF,

- The Enterprise Architecture Modelling Language - ArchiMate®,

- Archi®, a modelling toolkit for creating ArchiMate models and sketches,

# Use of TOGAF ADM

The GIRA covers the **core components** of ADM: business, information systems and technology architectures.

e-GIF covers **all** ADM phases on strategy level.

**Security architecture is the viewpoint of GEA**



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Breadth

Time

e-GIF

Enterprise Strategic Architecture

Level

Segment Architecture

Segment Architecture

Capability Architecture

Capability Architecture

Capability Architecture

Preliminary

H. Architecture Change Management

A. Architecture Vision

B. Business Architecture

**Core ADM**

**GIRA**

G. Implementation Governance

Requirements Management

C. Information Systems Architectures

F. Migration Planning

E. Opportunities and Solutions

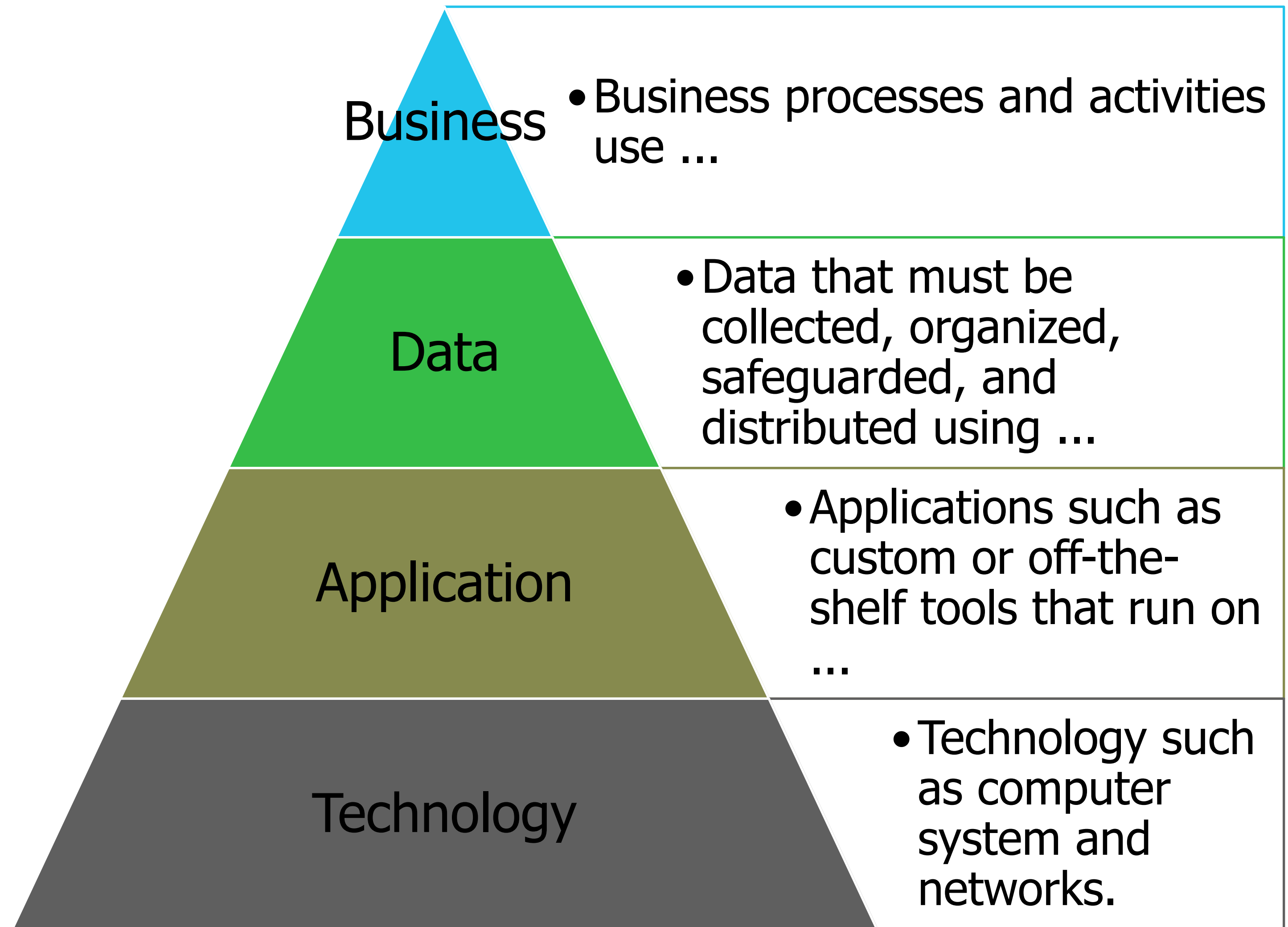D. Technology Architecture

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*Governance of GEA*

**Implementation plan of GEA**

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# Architecture Framework

A conceptual structure used to plan, develop, implement, govern, and sustain an architecture.

It structures architects' thinking by dividing the architecture description into domains, layers, or views, and offers models - typically matrices and diagrams - for documenting each view.

**Business**
- Business processes and activities use ...

**Data**
- Data that must be collected, organized, safeguarded, and distributed using ...

**Application**
- Applications such as custom or off-the-shelf tools that run on ...

**Technology**
- Technology such as computer system and networks.

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# Ugandan Interoperability Framework (e-GIF)

**Interoperability**
Ability of organisations to interact towards mutually beneficial goals.

Sharing of information and knowledge between organisations through **linking business processes**.



## e-GIF

Common approach to deliver public services.

Contains: interoperability guidelines as:

- Principles

- Models

- Recommendations
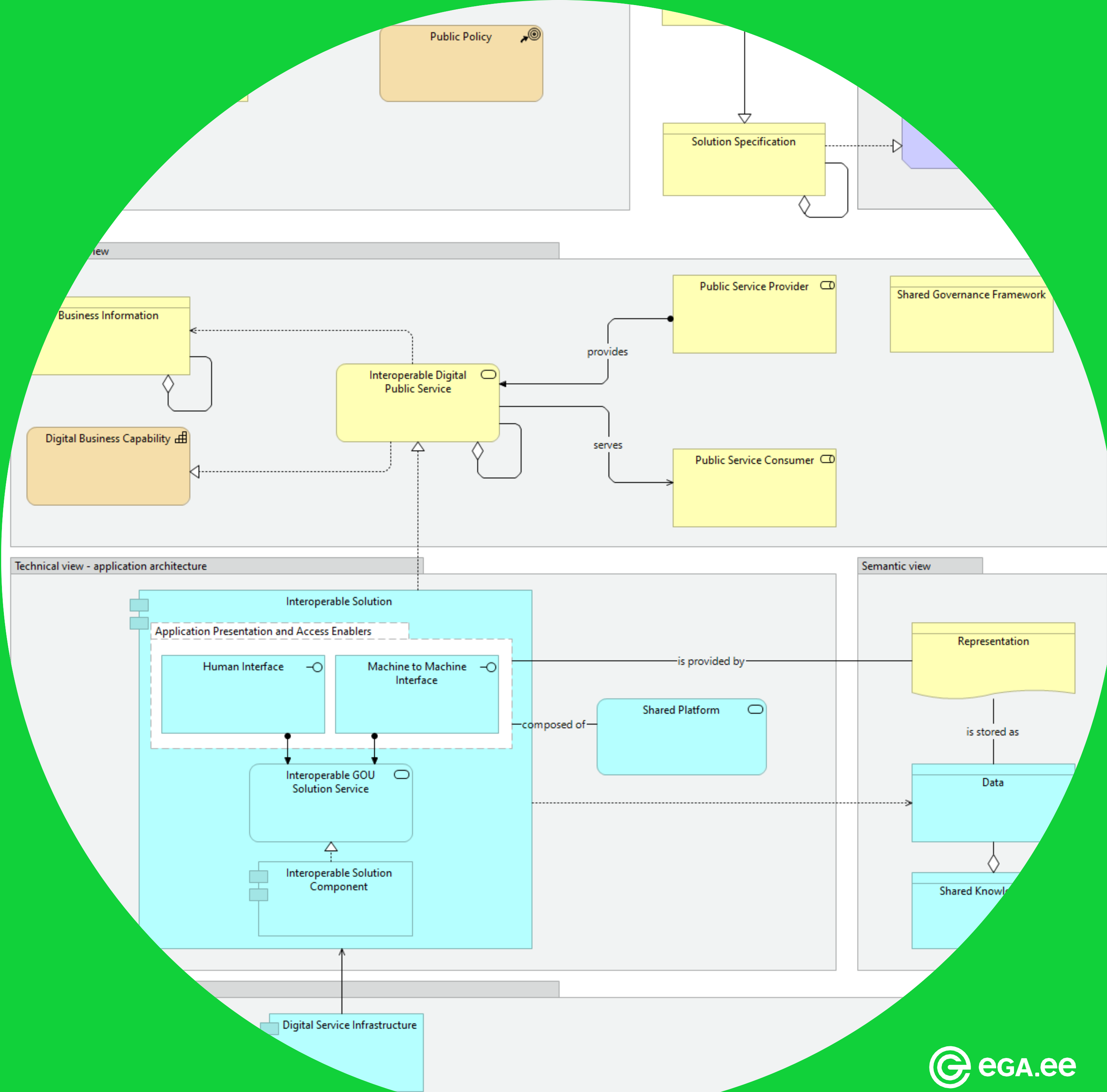
conceptual model

4 levels of interoperability

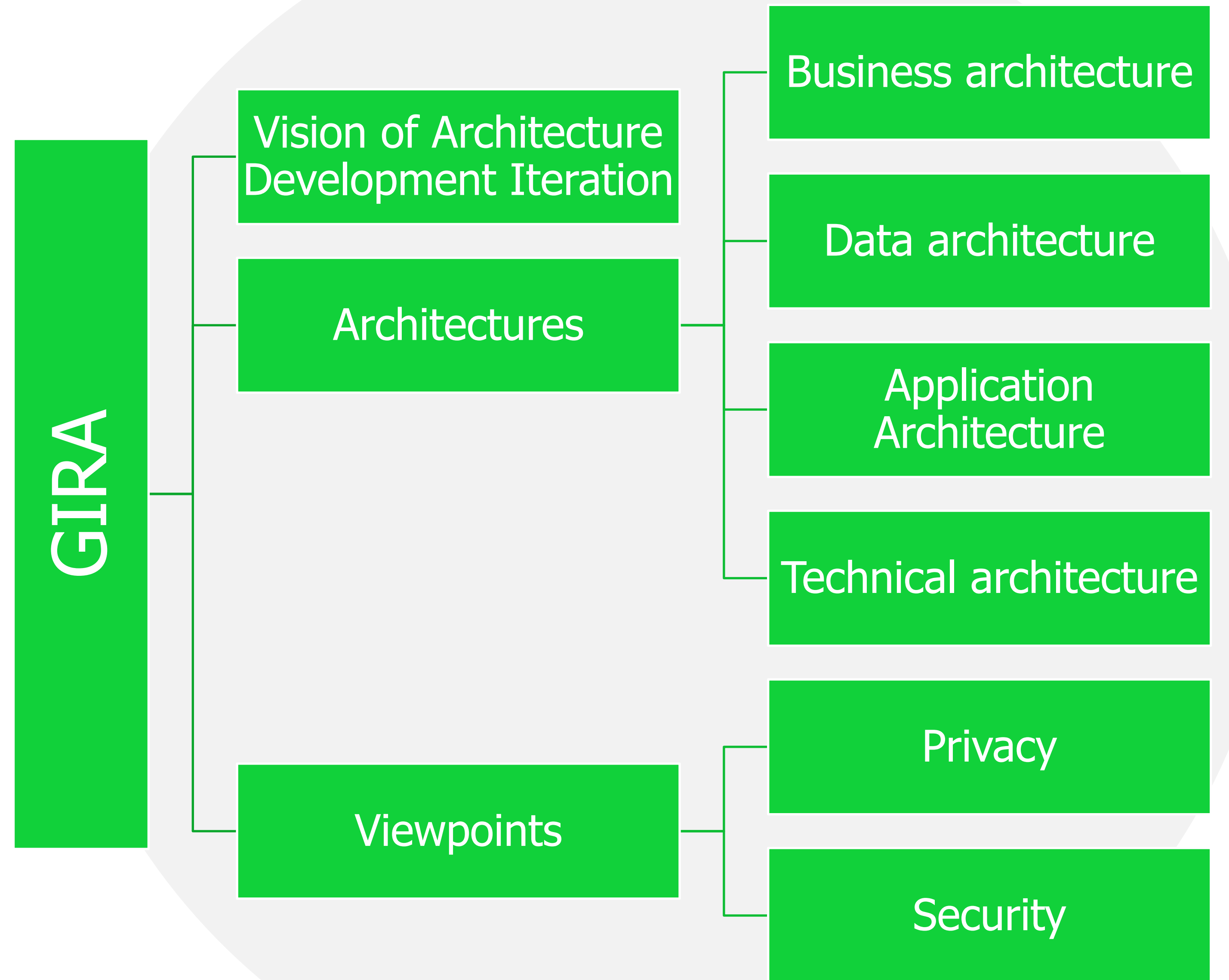12 underlying principles

76 recommendations

# The Ugandan Government Interoperability Reference Architecture (GIRA)

Architecture content metamodel defining key **architectural building blocks** (ABBs) and their **relationships**.

Common terminology for various architecture and system development tasks in MDAs.

GIRA structure

GIRA
- Vision of Architecture Development Iteration
- Architectures
  - Business architecture
  - Data architecture
  - Application Architecture
  - Technical architecture
- Viewpoints
  - Privacy
  - Security

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# Implementation & Transition Plan

- Covers the **implementation of the GIRA**

- Every MDA will build their own architecture independently, considering the **requirements of the e-GIF and GIRA**

- Review existing and missing Architecture Building Blocks (ABB) and their relationships

- Covers recommendations for the

  o Business architecture (including legal and organizational view)

  o Data architecture

  o Application and technical architecture

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# Security viewpoint

Security Architecture (SA) layers in the architecture will be present and pervade through all areas and layers.

**Special focus** on Web Application Security Architecture (WASA)
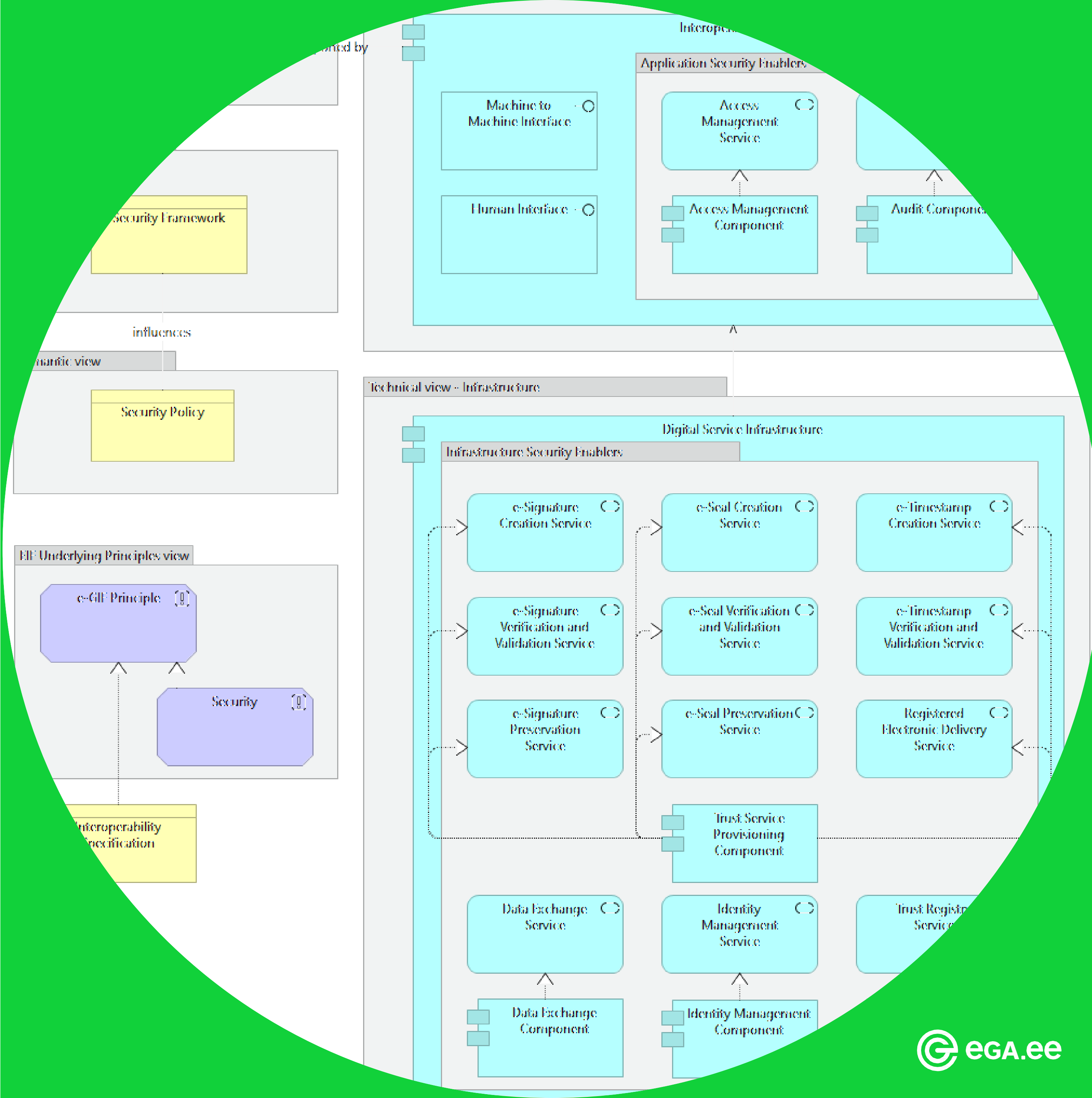
# Some questions to answer today

- Is the GIRA Ugandan?

- What expectations are not met?

- What vision requirements are not met?

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# Thank You!

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