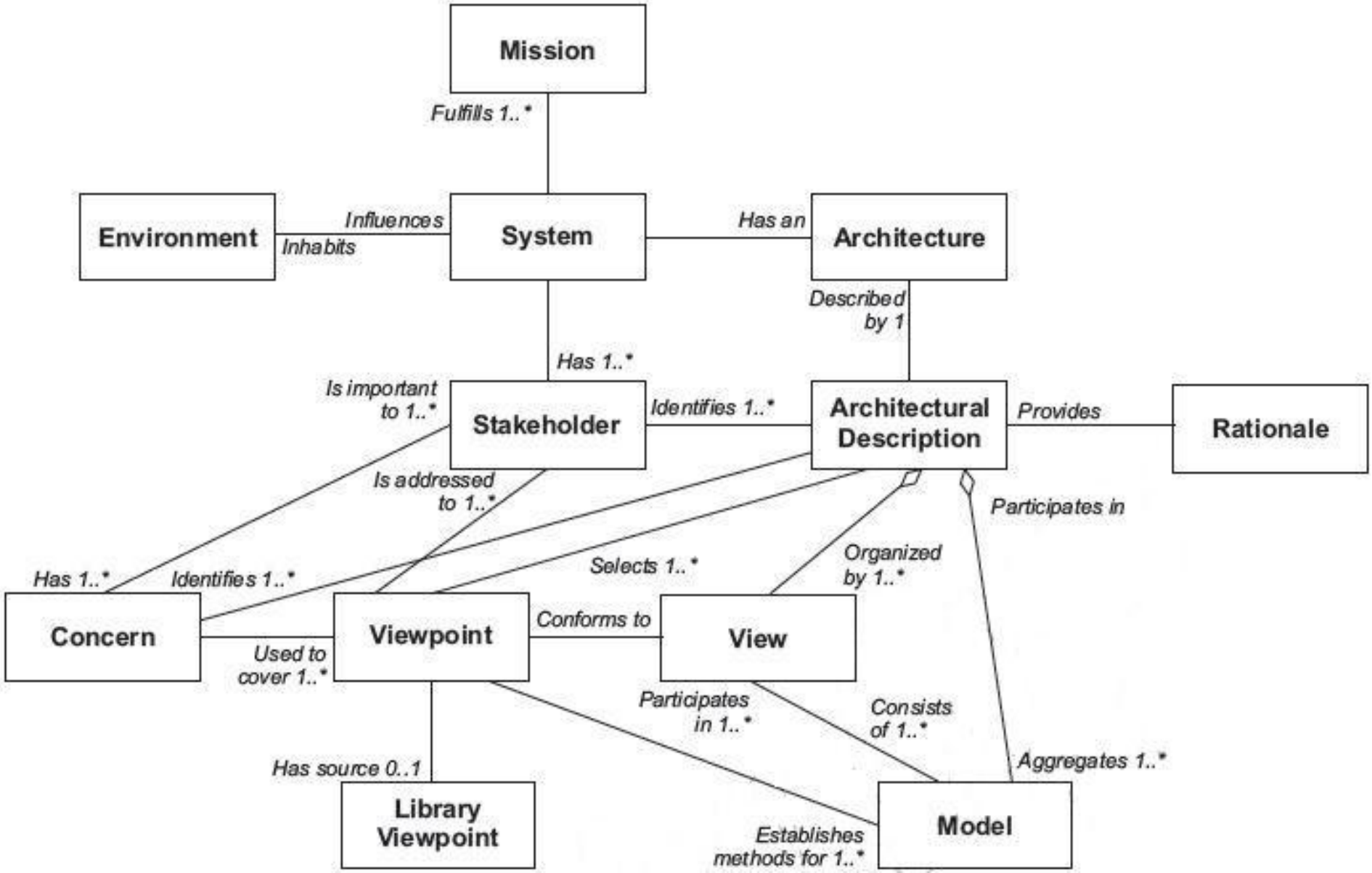
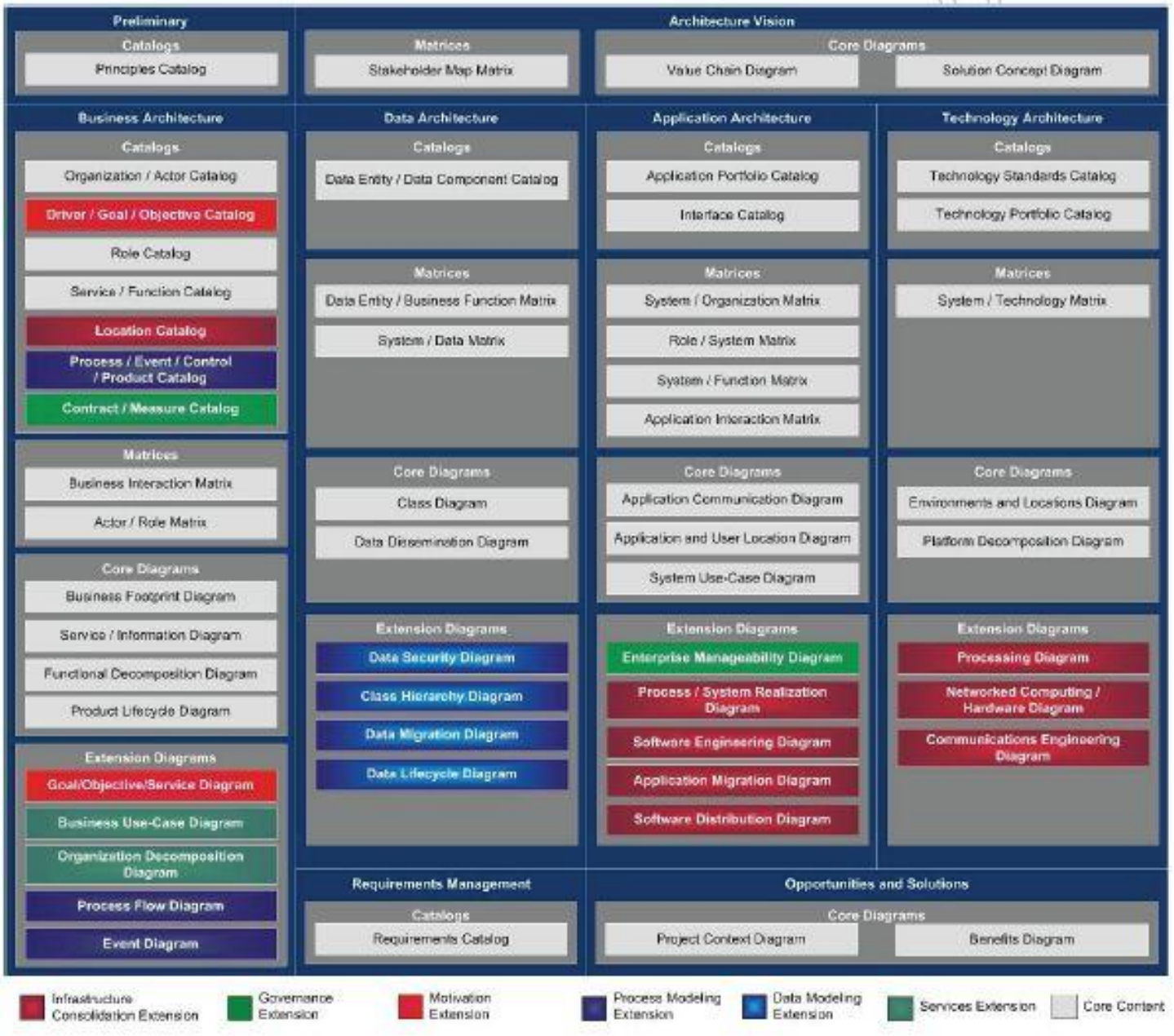
TOGAF 9
Architectural Artifacts

Summarised - 2010

Basic Architectural Concepts – ISO/IEC 42010:2007



Viewpoints Associated with the Core Content Metamodel and Extensions

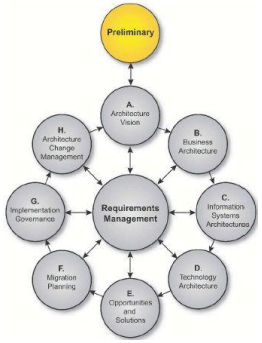


Viewpoints Associated with the Core Content Metamodel and Extensions

- The specific classes of viewpoint are as follows:
  - **Catalogs** are specific foundational viewpoints that represent lists of building blocks.
  - **Matrices** are specific foundational viewpoints that show the relationships between building blocks of specific types.
  - **Diagrams** are graphical viewpoints that present building blocks in a rich and visual way, more suited to stakeholder communication.
- The TOGAF architecture domains are themselves viewpoints that can be used to group the foundational catalogs, matr ices, and diagrams:
  - The **Business Architecture** domain addresses the needs of users, planners, and business management.
  - The **Data Architecture** domain addresses the needs of database designers, database administrators, and system engineers.
  - The **Application Architecture** domain addresses the needs of system and software engineers.
  - The **Technology Architecture** domain addresses the needs of acquirers, operators, administrators, and managers.

Viewpoints in the Preliminary Phase

- The following catalogs, matrices, and diagrams may be produced in the Preliminary phase.
  - **Catalogs**:
    - — Principles catalog
  - **Matrices:**
    - — No matrices are defined to be created during the Preliminary phase.
  - **Core diagrams:**
    - — No core diagrams are defined to be created during the Preliminary phase.
  - **Extension diagrams:**
    - — No extension diagrams are defined to be created during the Preliminary phase.

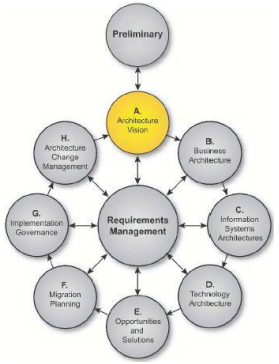


a. **Principles Catalog**
   - The Principles catalog captures principles of the business and architecture principles that describe what a ‘‘good’’ solution or architecture should look like. Principles are used to evaluate and agree an outcome for architecture decision points. Principles are also used as a tool to assist in architectural governance of change initiatives.

b. **The Principles catalog contains the following metamodel entities:**
   - Principle

Viewpoints in Phase A

- The following catalogs, matrices, and diagrams may be produced in Phase A (Architecture Vision).
  - **Catalogs**:
    - No catalogs are defined to be created during Phase A.
  - **Matrices:**
    - Stakeholder Map matrix.
  - **Core diagrams:**
    - Value Chain diagram
    - Solution Concept diagram
  - **Extension diagrams:**
    - No extension diagrams are defined to be created during Phase A.



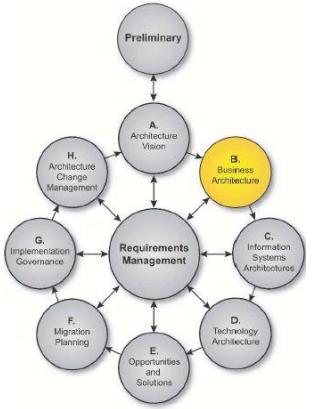
a. **Stakeholder Map Matrix**
   - Identifies the stakeholders for the architecture engagement, their influence over the engagement, and their key questions, issues, or concerns that must be addressed by the architecture framework.

b. **Value Chain Diagram**
   - A Value Chain diagram provides a high-level orientation view of an enter prise and how it interacts with the outside world

c. **Solution Concept Diagram**
   - A Solution Concept diagram provides a high-level orientation of the solution that is envisaged in order to meet the objectives of the architecture engagement..

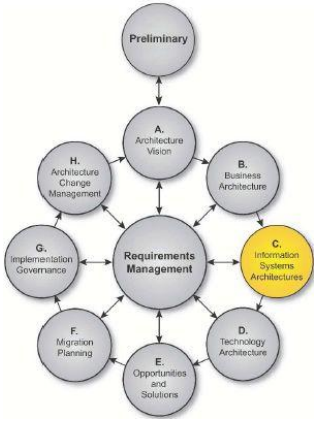
Viewpoints in Phase B

- The following catalogs, matrices, and diagrams may be produced in Phase B (Business Architecture).
  - **Catalogs**:
    - Organization/Actor catalog
    - Driver/Goal/Objective catalog
    - Role catalog
    - Business Service/Function catalog
    - Location catalog
    - Process/Event/Control/Product catalog
    - Contract/Measure catalog
  - **Matrices:**
    - Business Interaction matrix
    - Actor/Role matrix
  - **Core diagrams:**
    - Business Footprint Diagram
    - Business Service/ Information diagram
    - Functional Decomposition diagram
    - Product Lifecycle diagram
  - **Extension diagrams:**
    - No extension diagrams are defined to be created during Phase A.
    - Goal/Objective/Ser vice diagram
    - Use-case diagram
    - Organization Decomposition diagram
    - Process Flow diagram
    - Event diagram



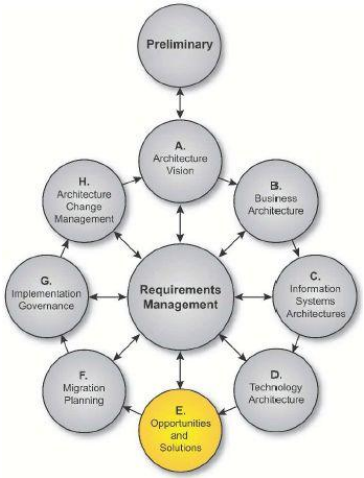
Viewpoints in Phase C – Data Architecture

- The following catalogs, matrices, and diagrams may be produced in Phase C (Data Architecture).
  - **Catalogs**:
    - Data Entity/Data Component Catalog
  - **Matrices:**
    - Data Entity/Business Function Matrix
    - System Data Matrix
  - **Core diagrams:**
    - Class Diagram
    - Data Dissemination Diagram
  - **Extension diagrams:**
    - Data Security Diagram
    - Class Hierarchy Diagram
    - Data Migration Diagram
    - Data Lifecycle Diagram



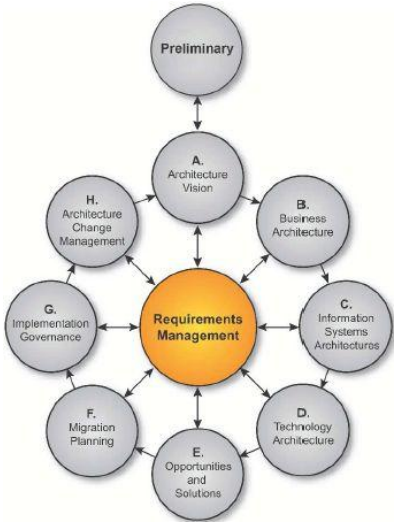
Viewpoints in Phase E – Opportunities and Solutions

- The following catalogs, matrices, and diagrams may be produced in Phase E (Opportunities and Solutions).
  - **Catalogs**:
    - No catalogs are defined to be created during Phase E.
  - **Matrices:**
    - No matrices are defined to be created during Phase E.
  - **Core diagrams:**
    - Project Context Diagram
    - Benefits Diagram
  - **Extension diagrams:**
    - No extension diagrams are defined to be created during Phase E.



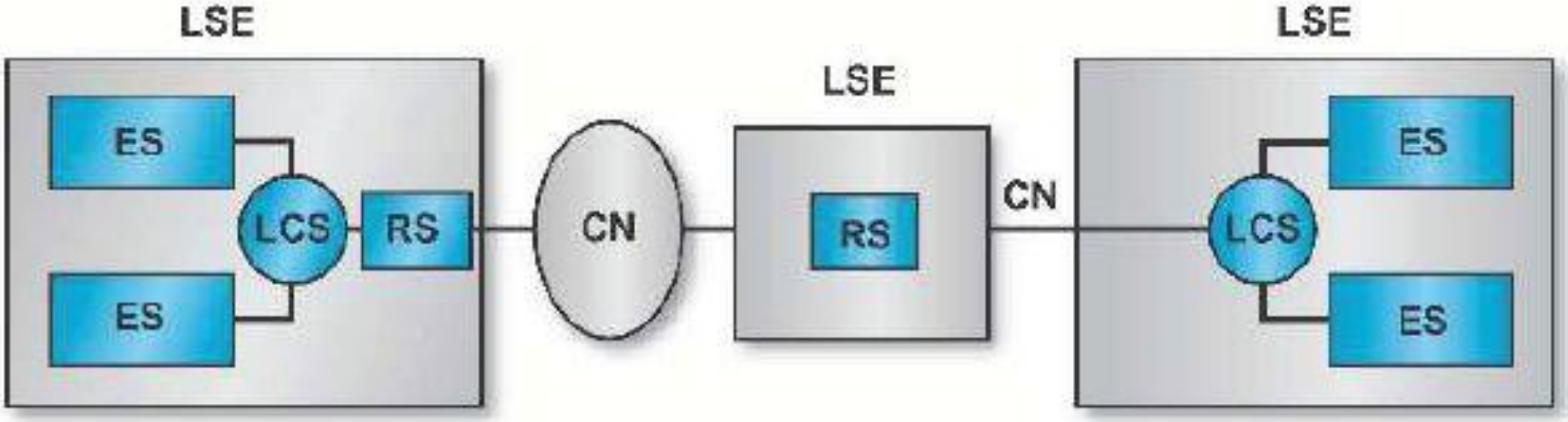
Viewpoints for Requirements Management

- The following catalogs, matrices, and diagrams may be produced in the Requirements Management Phase.
  - **Catalogs**:
    - Requirements Management Catalog.
  - **Matrices:**
    - No matrices are defined to be created during Requirements Management Phase.
  - **Core diagrams:**
    - No core diagrams are defined to be created during the Requirements Management phase.
  - **Extension diagrams:**
    - No extension diagrams are defined to be created during the Requirements Management phase.



Developing Views

Generic Security Architecture View

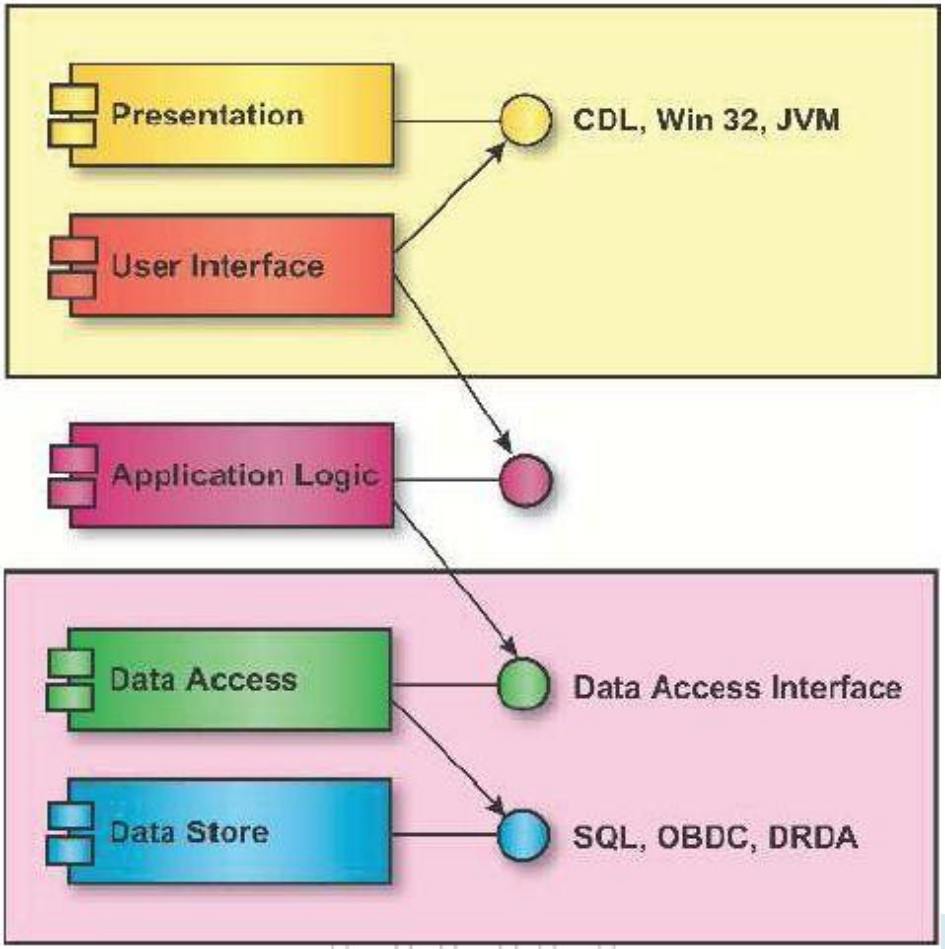


KEY

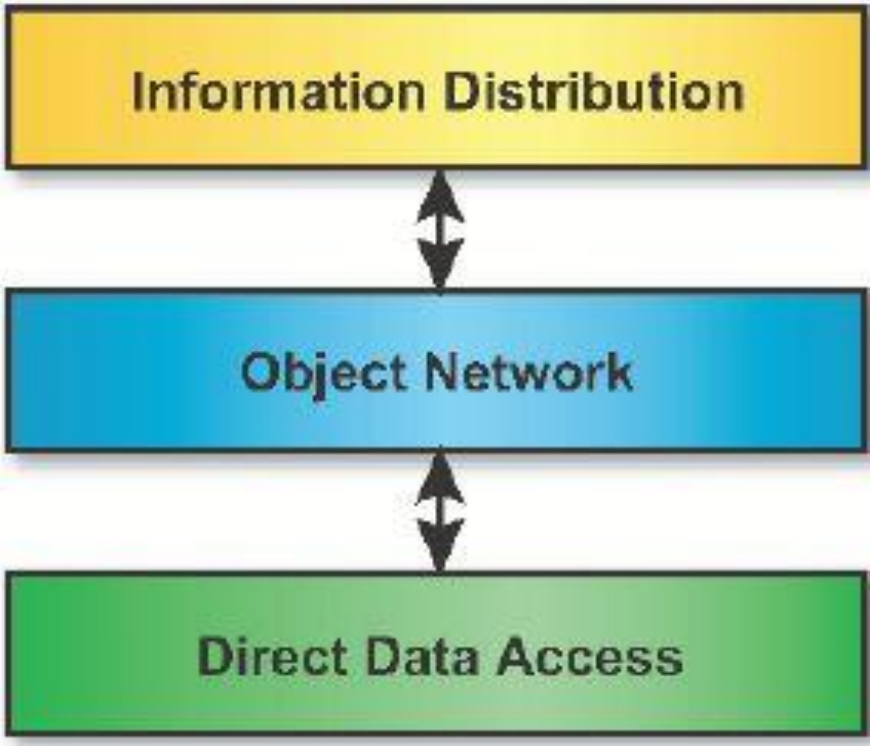
CN	Communications Network
ES	End System
LCS	Local Communications System
LSE	Local Subscriber Environment
RS	Relay System

Software Engineering View

The 5 Tier Organisation

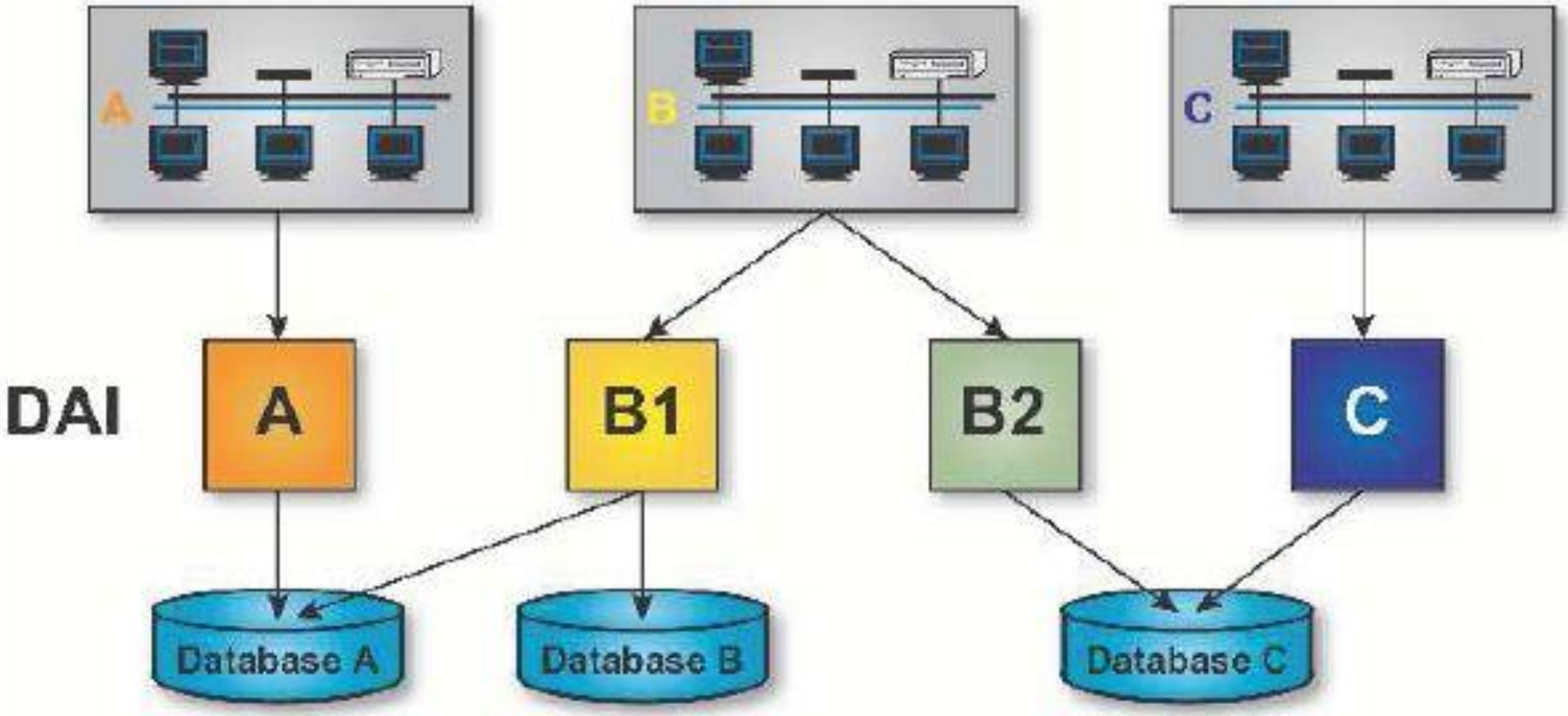


Data Access Interface



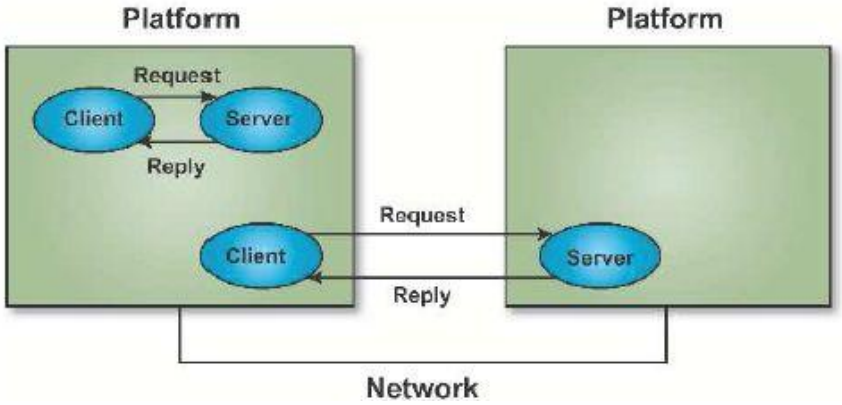
Software Engineering View

Multiple Uses of a Data Access Interface (DAI)

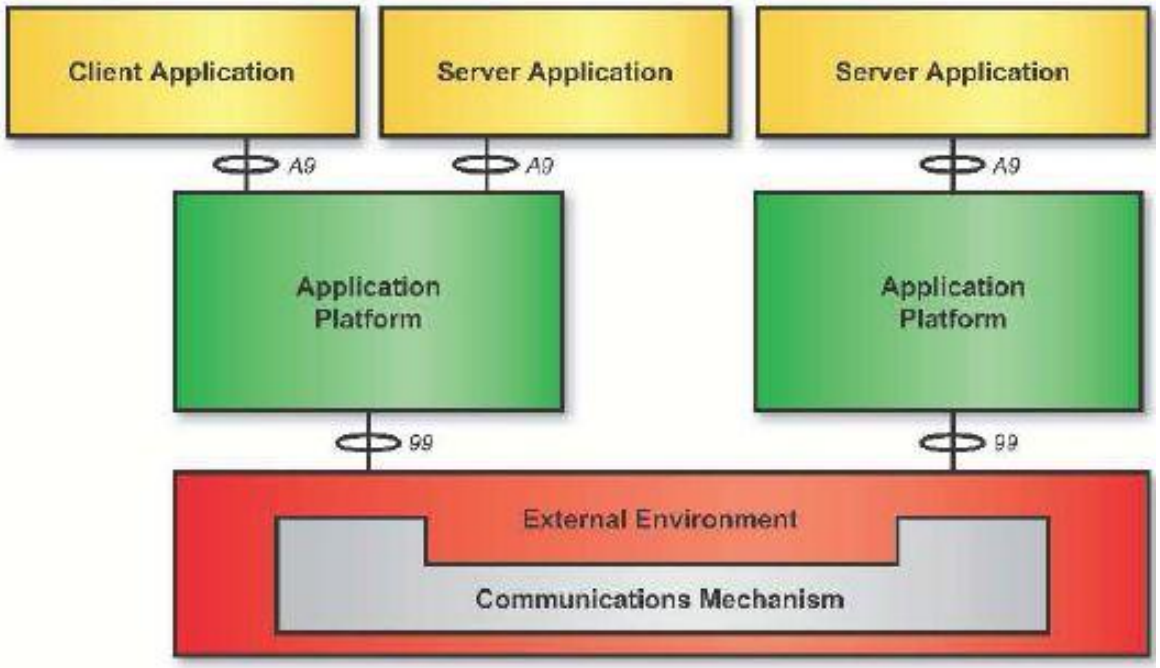


System Engineering View

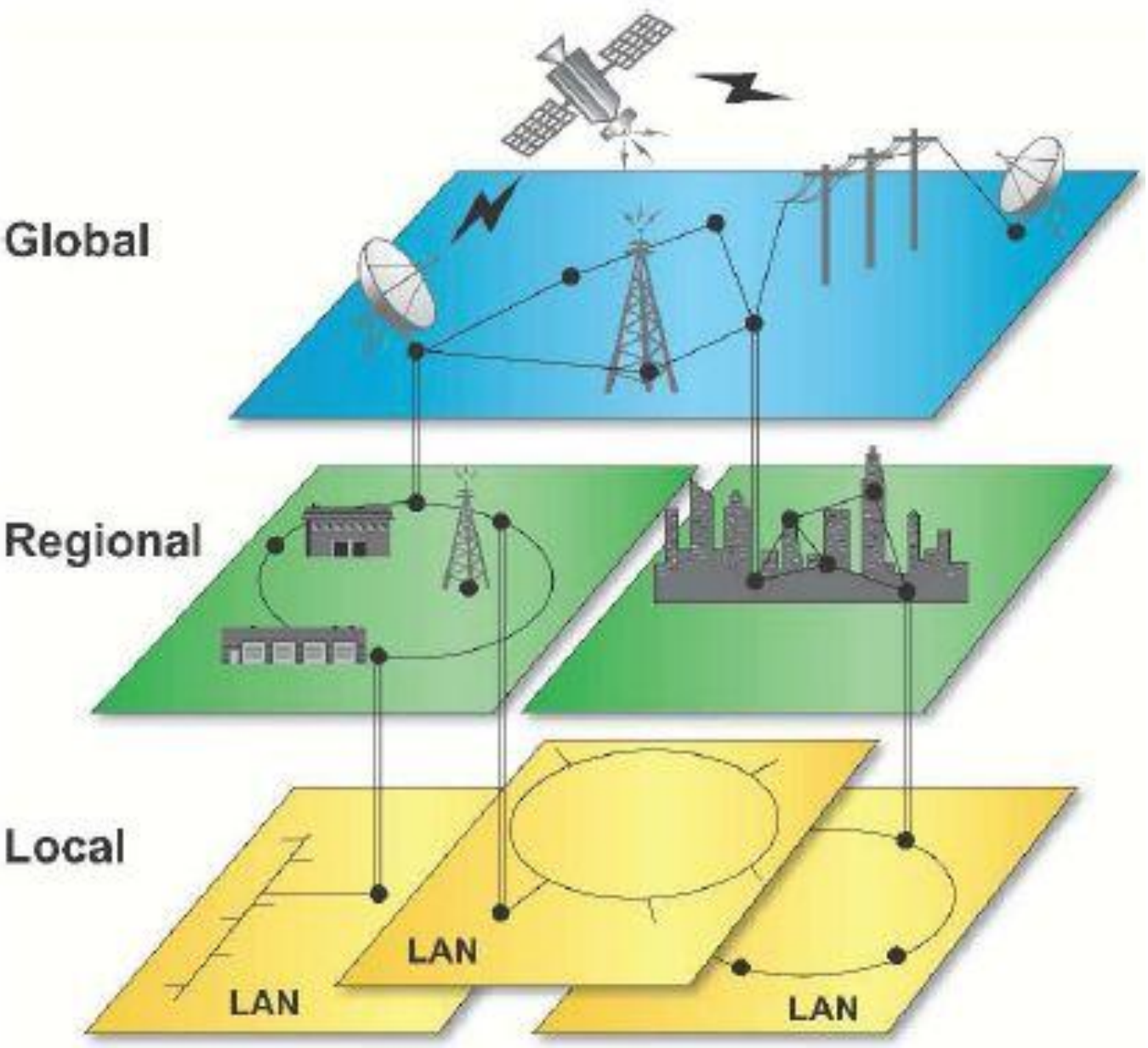
Basic Client/Server Model



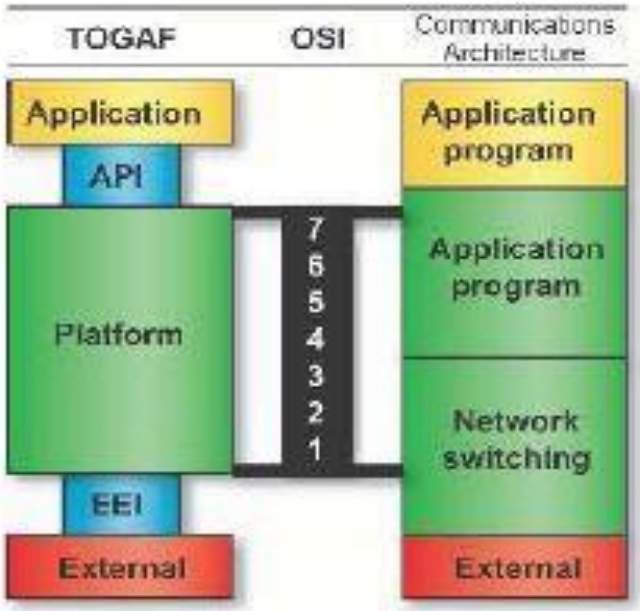
Reference Model Representation of Client/Server Model



Communications Engineering View



Communications Framework



Reference

- TOGAF Version 9, The Open Group Architecture Framework (TOGAF), 2009

If you have one last breath use it to say...