

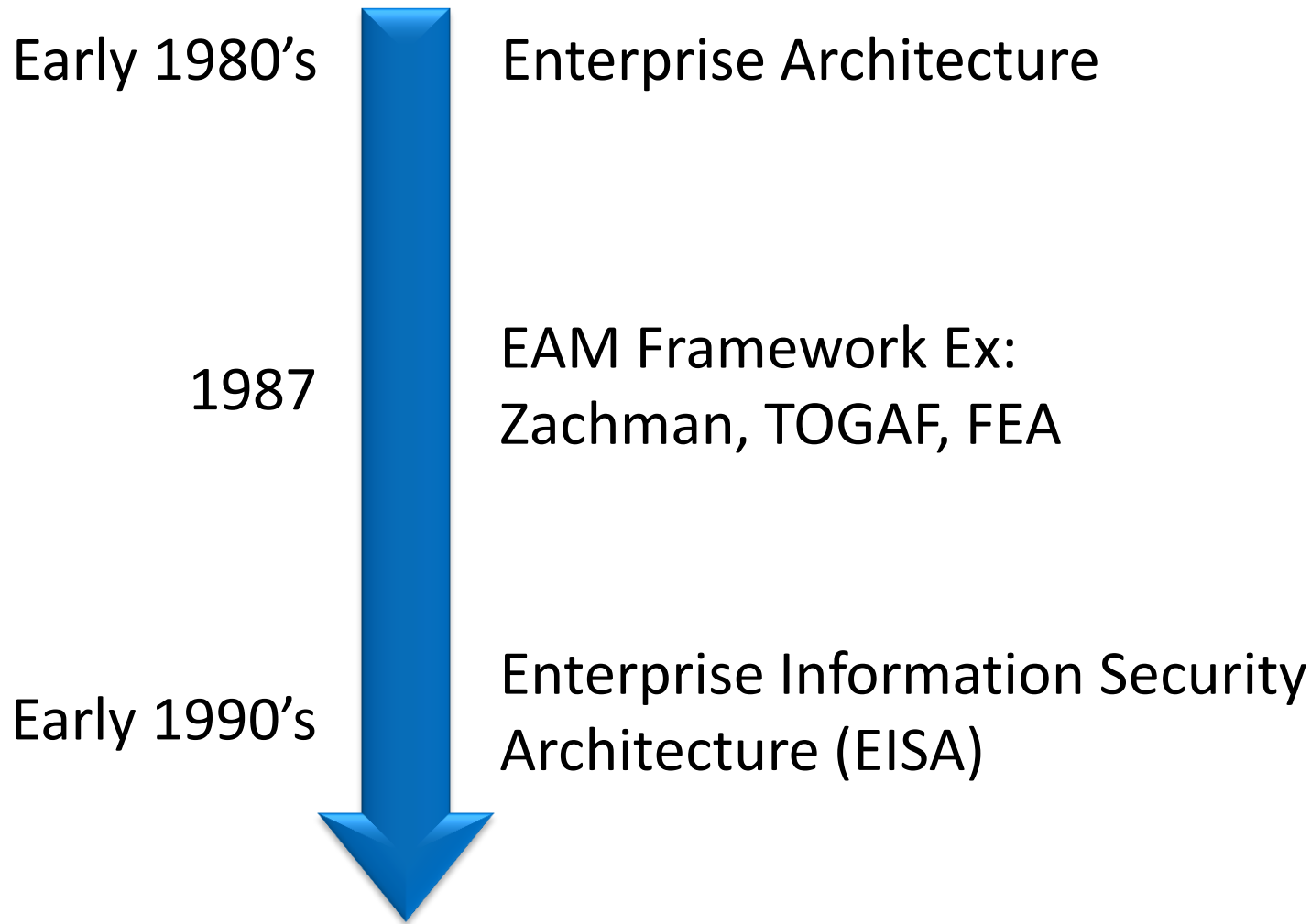
Delin Mathew,  
delin.mathew@rwth-aachen.de

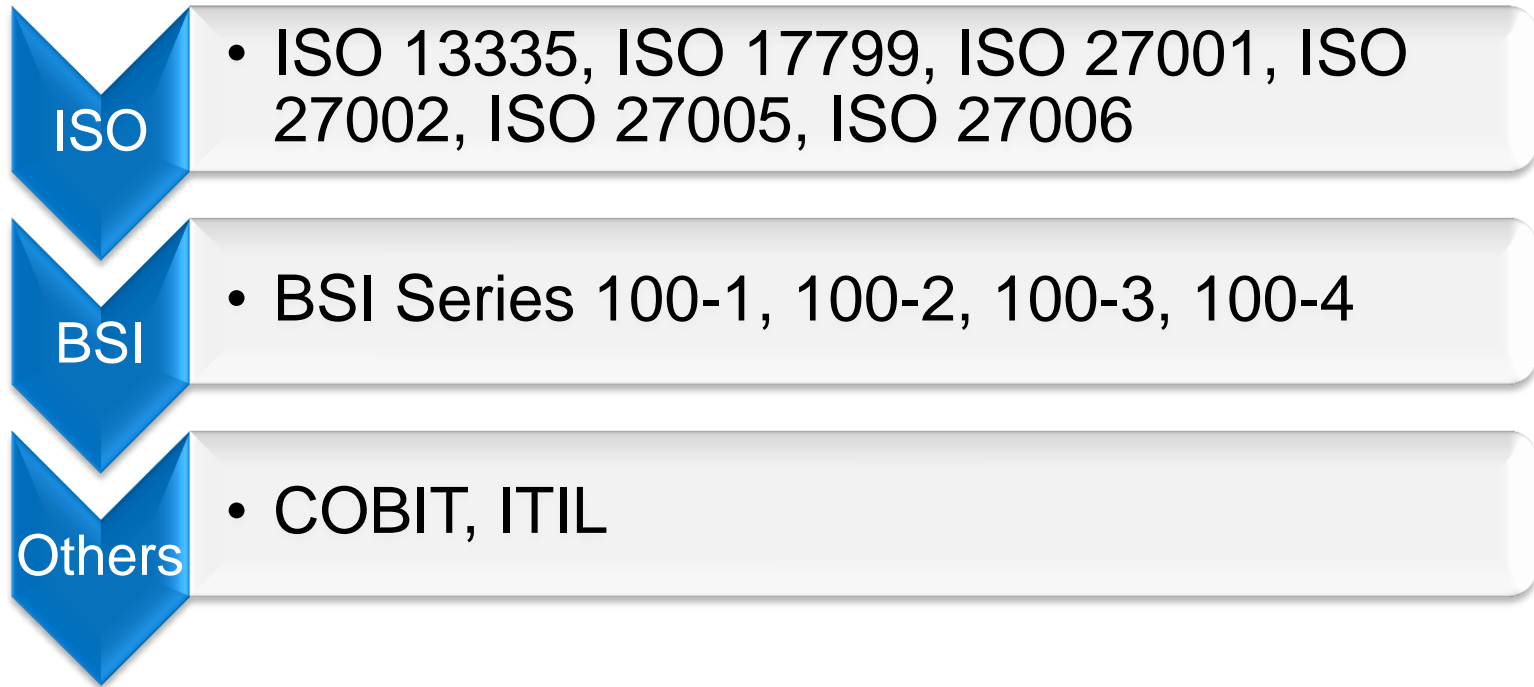
# Mapping EAM Processes to ISM Processes

Mapping TOGAF Process to BSI-IT-Grundschutz Process

# Enterprise Architecture

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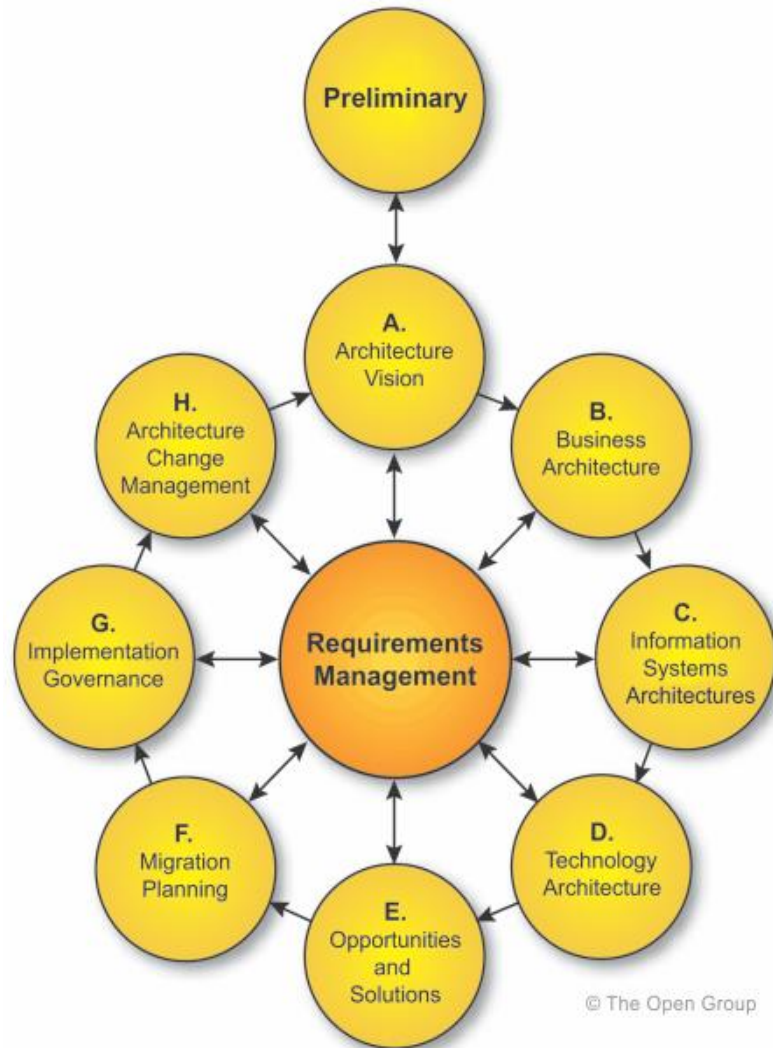




Difficult to audit best practices. Standards are better.

## Map ITERGO's EAM process model to the ISM process model

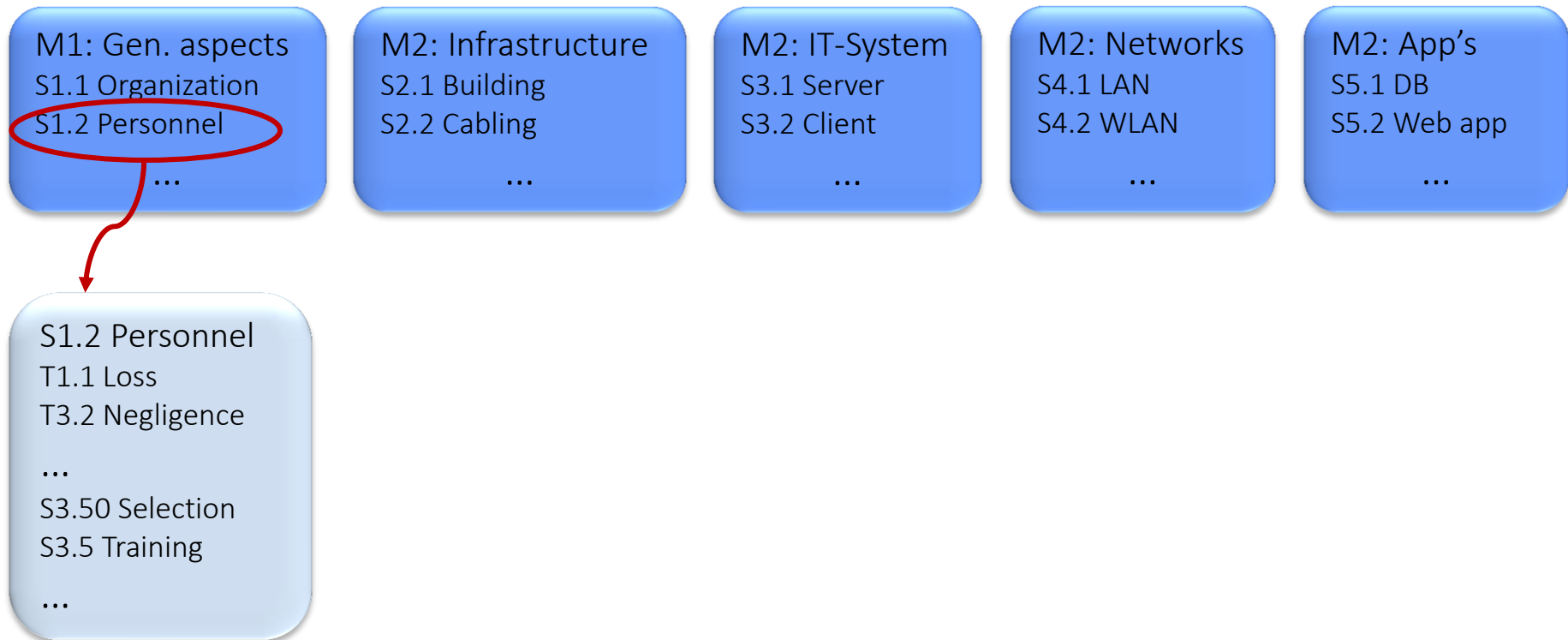
- EAM Process Model
  - TOGAF
  - Tool for design and implementation of EA
- ISM Process Model
  - BSI-IT-Grundschutz



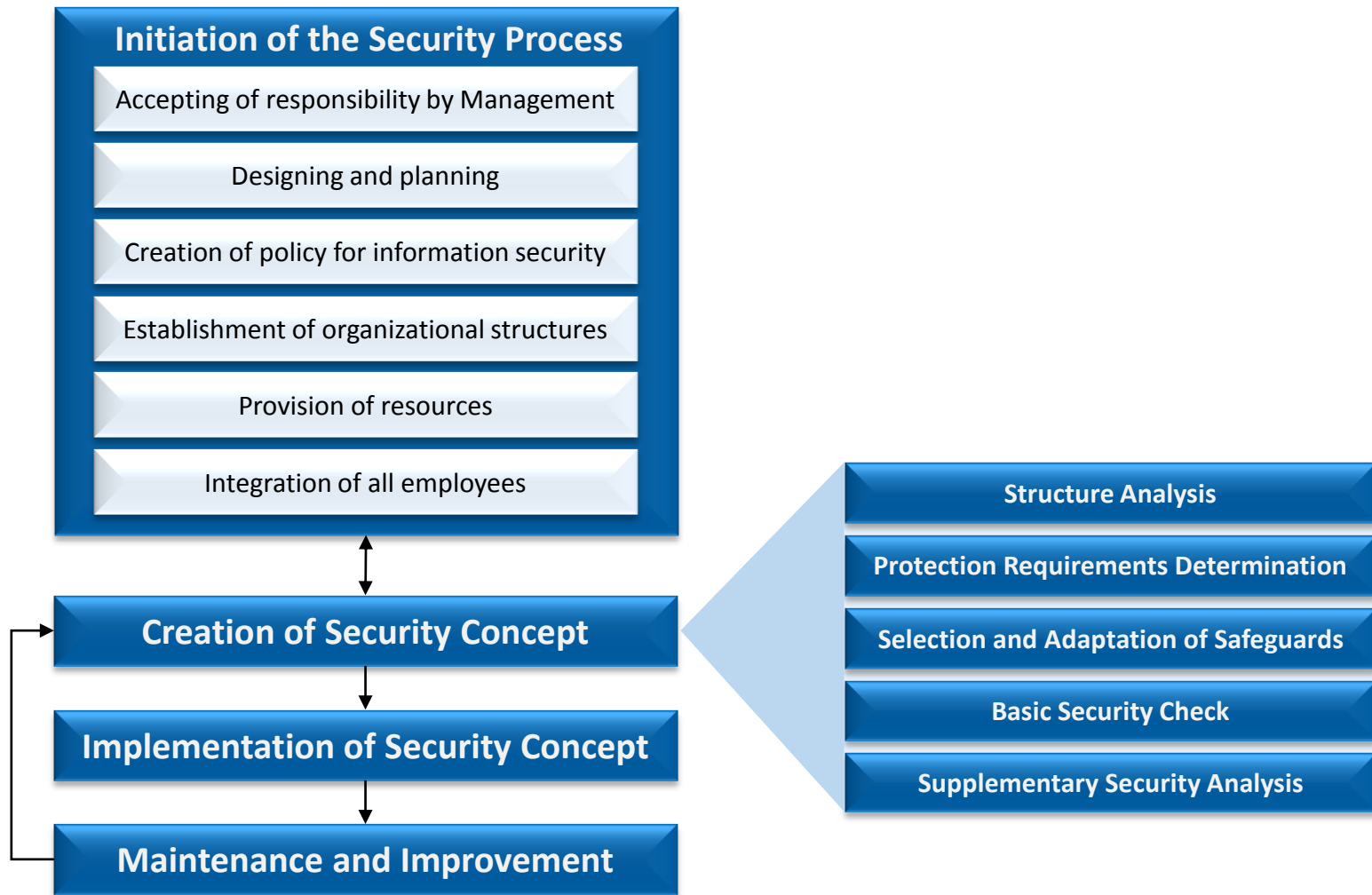
- Effective Industry Standard Framework
- Followed by ITERGO
- Architecture Development Method (ADM)
  - Iterative Method
- Divides EA into 4 categories
  - Business Architecture
  - Application Architecture
  - Data Architecture
  - Technology Architecture

- BSI – Federal Office for Information Security
- In conjunction with IT-Grundschutz
- IT-Grundschutz
  - Method for protecting information
  - Standard Security safeguards
  - More descriptive
  - Prevents 80% of attacks
  - Maintained and updated by BSI
- ISO certification

## IT Grundschutz Catalogues

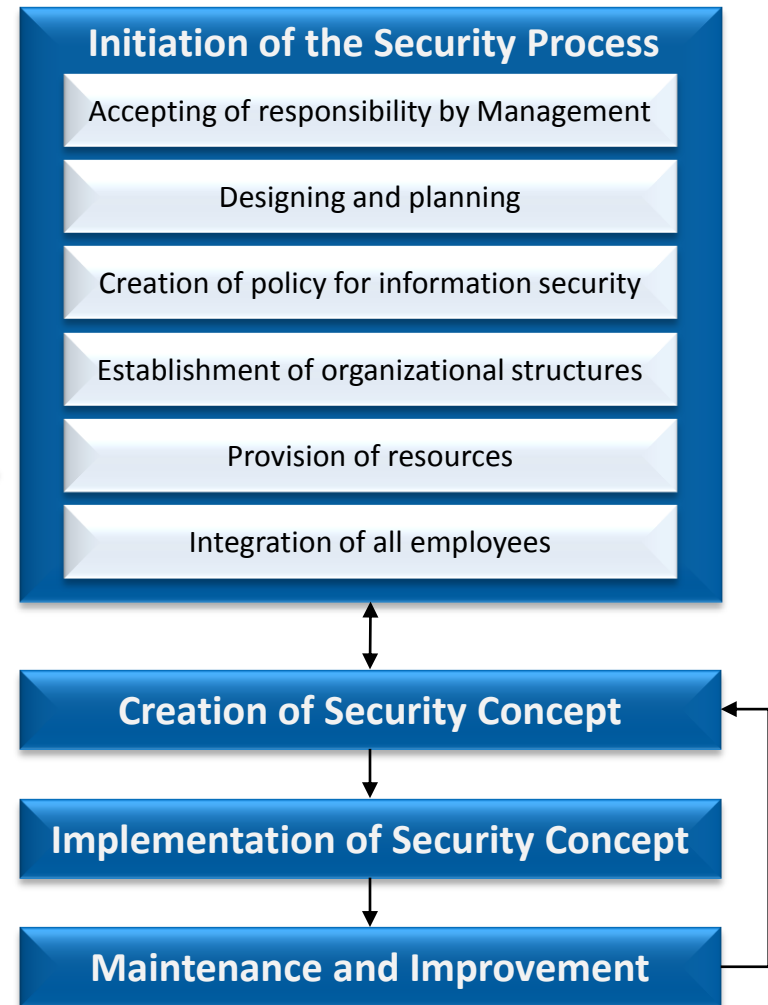
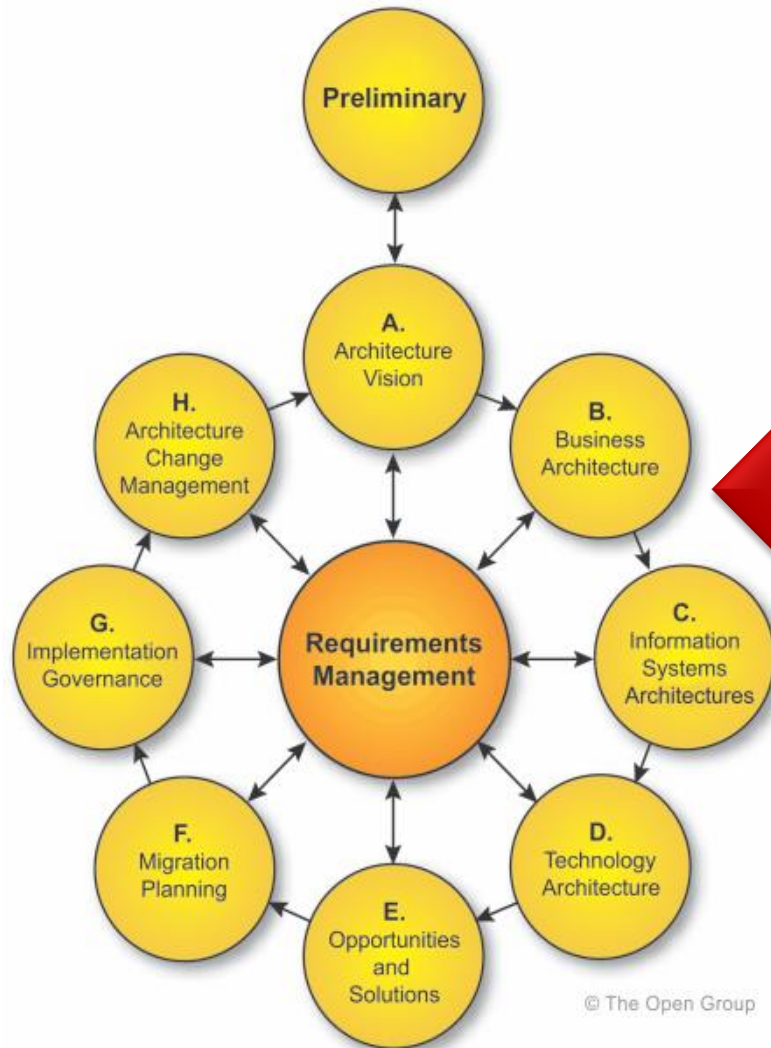


# BSI-IT-Grundschutz – Security Process



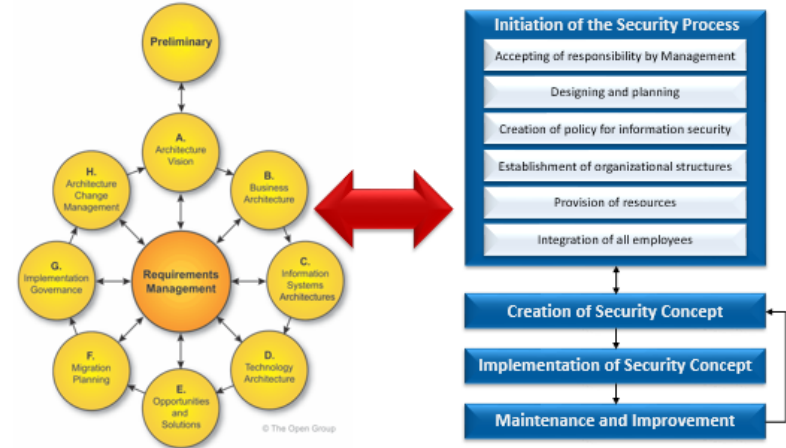


# Mapping



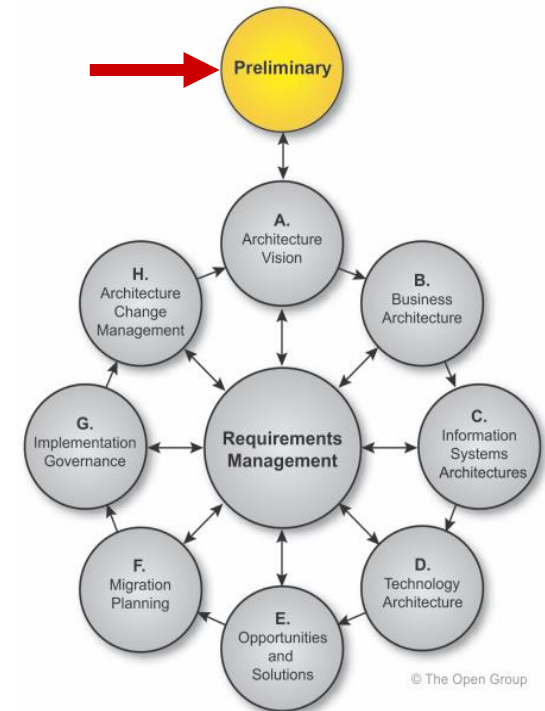
# Approach

- Manual Mapping
- Identify key components of TOGAF
- Finds the equivalent sub-module from the BSI-IT-Grundschutz catalogue
- Threats and safeguards



## Example – Preliminary Phase

- Goals
  - Preparation and initiation
  - Organization-specific architecture
  - Architecture Principles
- Inputs
  - Reference Materials, Architecture Capability, Agreements, Existing Framework
- Outputs
  - Tailored Architecture Framework, Architecture Repository, Architecture Governance Framework, Catalogs



# Example – Mapping to BSI-IT Grunschutz

## TOGAF

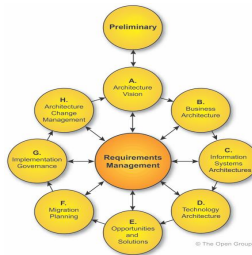
## BSI-IT-Grundsutz

Phase	Component		Module	Sub-Module
Preliminary	Preparation/ Initiation	↔	M1	IS Awareness/Training
	EA Team	↔	M1	Personnel
	Enterprise	↔	M1	Organization
	Repository	↔	M5, M1	DBs, Data Backup Policy
	Catalogs	↔	M2, M1	Data Media Archives, Data Backup Policy, Archiving
	Tools	↔	M1, M5	Standard Software, Applications
	TOGAF Architect	↔	M1	Outsourcing
	Organization-Specific Architecture	↔	M1	Compliance Management

# Summary



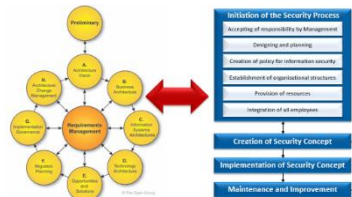
Goal



TOGAF



BSI-IT-Grundschrift



Approach

TOGAF		BSI-IT-Grundschrift	
Phase	Component	Module	Sub-Module
Preliminary	Preparation/Initiation	M1	IS Awareness/Training
	EA Team	M1	Personnel
	Enterprise	M1	Organization
	Repository	M5, M1	DDBs, Data Backup Policy
	Catalogs	M2, M1	Data Media Archives, Data Backup Policy, Archiving
	Tools	M1, M5	Standard Software, Applications
	TOGAF Architect	M1	Outsourcing
	Organization-Specific Architecture	M1	Compliance Management

Example

# Timeline

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