Successful Enterprise Architecture

with ArchiMate® and TOGAF®

Ready for Use

April 17th 2012

Henry Franken - BiZZdesign

Henry Franken

- 45 years old, M.Sc. & Ph.D. (cum laude)
- Happy in life ☺
- Co-founder & manager of BiZZdesign
- Chair of the ArchiMate Forum at The Open Group
- At BiZZdesign, is responsible for research and innovation. Alignment with and contribution to open standards are key

Who is BiZZdesign

- BiZZdesign offers complete and integrated solutions (tools, methods, consultancy and training) to design and improve organizations.
  - Business Model Innovation, Enterprise Architecture, Business Requirements Management and Business Process Analysis and Management are important ingredients in the solutions.

- Contributed to and edited the ArchiMate 2 specification.
- Involved in the work group working towards the next version of TOGAF® and its alignment with ArchiMate®.
- BiZZdesign offers native tooling, consultancy and certified training courses for TOGAF and ArchiMate.

THE Open GROUP

Making standards work®

- … a global **open** consortium that furthers the achievement of business objectives through **open** business and IT standards

Open Group Trademarks

- Boundaryless Information Flow™ is a trademark of The Open Group
- The following are are registered trademarks of The Open Group
  - UNIX®,
  - **TOGAF®**
  - **ArchiMate®**
  - Making Standards Work®,
  - Motif®
  - OSF/1®
  - The Open Group®
  - Jericho Forum®
  - the ``X'' device

Work is performed by members within:

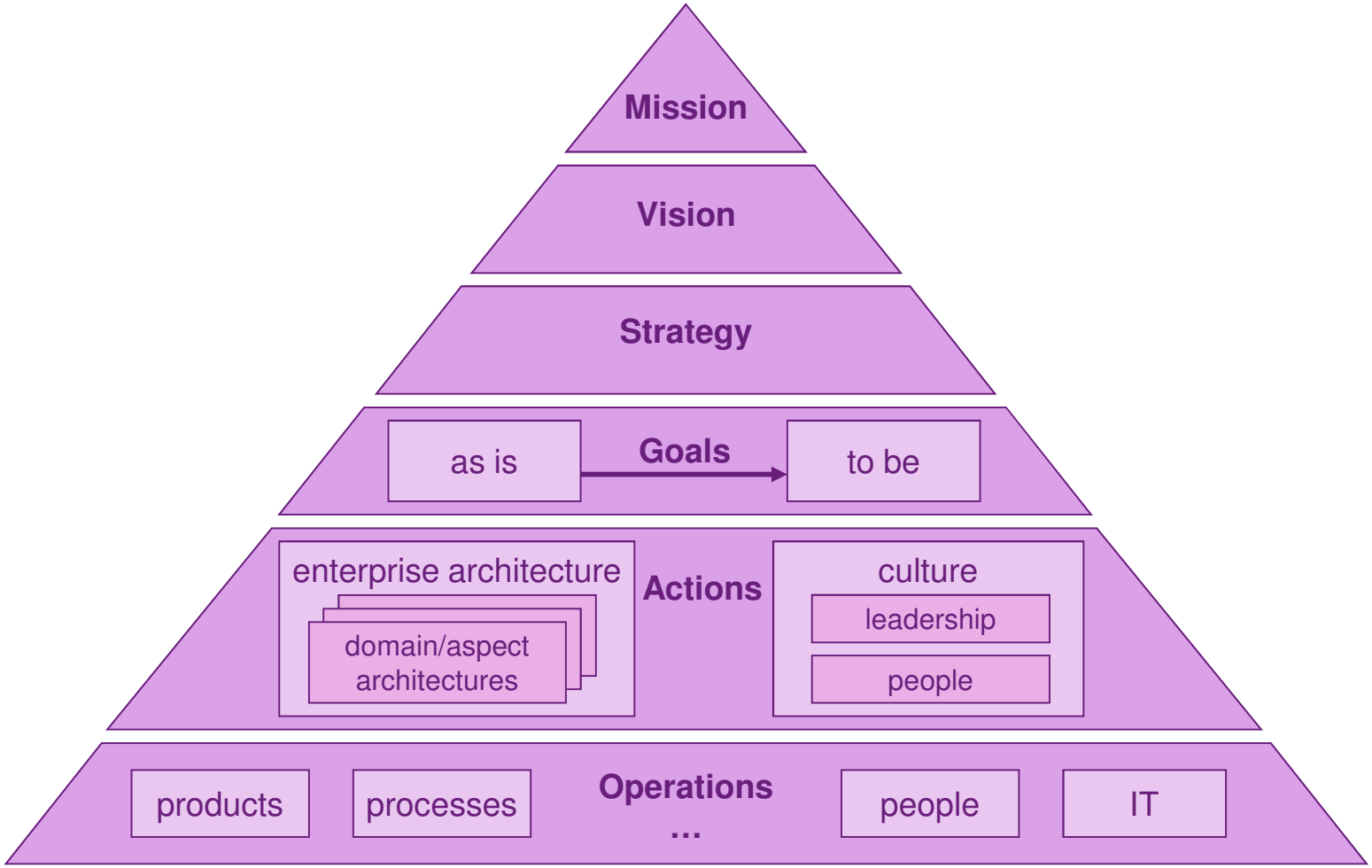
- Forums (like TOGAF, ArchiMate)
- Projects
- Industry Forums
- Quarterly conferences
- Governing boards

Open work => voting =>publication.

How about (Enterprise) Architecture

What does it mean and why do we need it?

How about Enterprise Architecture!



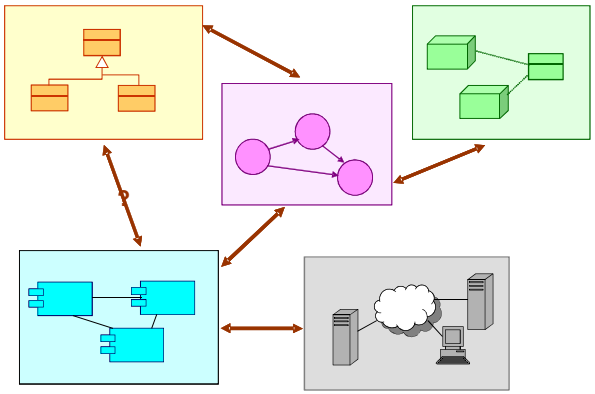
[Lankhorst et al., 2005 - Fig. 1.4. Enterprise architecture as a management instrument]

Why Enterprise Architecture?

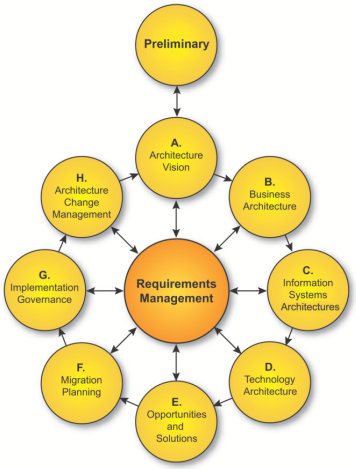
- Managing change and complexity:
  - Aligning business and IT
  - Outsourcing
  - Impact analysis
  - Project support (project start architectures)
  - Portfolio management
  - Communication with stakeholders
  - …
- Obtaining insight in baseline situation (“as is”)
- High-level design of the target situation (“to be”)
- Enterprise architecture as a tool for:
  - Communication
  - Governance
  - Innovation

What is Enterprise Architecture?

- A *discipline*, with the objective of *steering changes*
- A *product*
  - A design that shows the coherence between products, processes, organisation, information supply and infrastructure, based on a vision and certain explicit starting points, principles and preferences

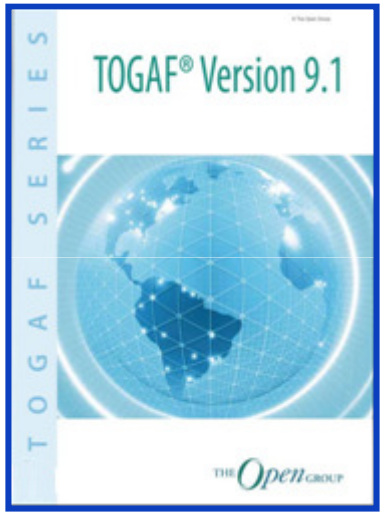


- A *process*
  - Way of working
  - Aimed at the development and use of enterprise architectures within an enterprise
  - With people and resources

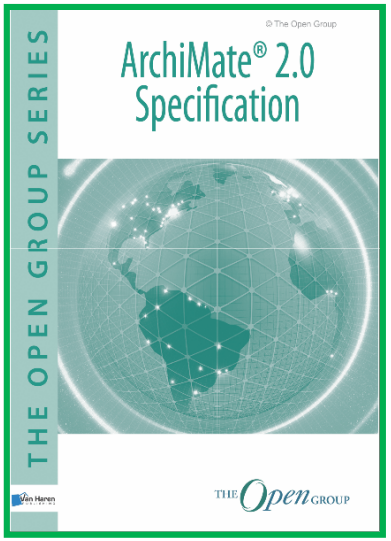


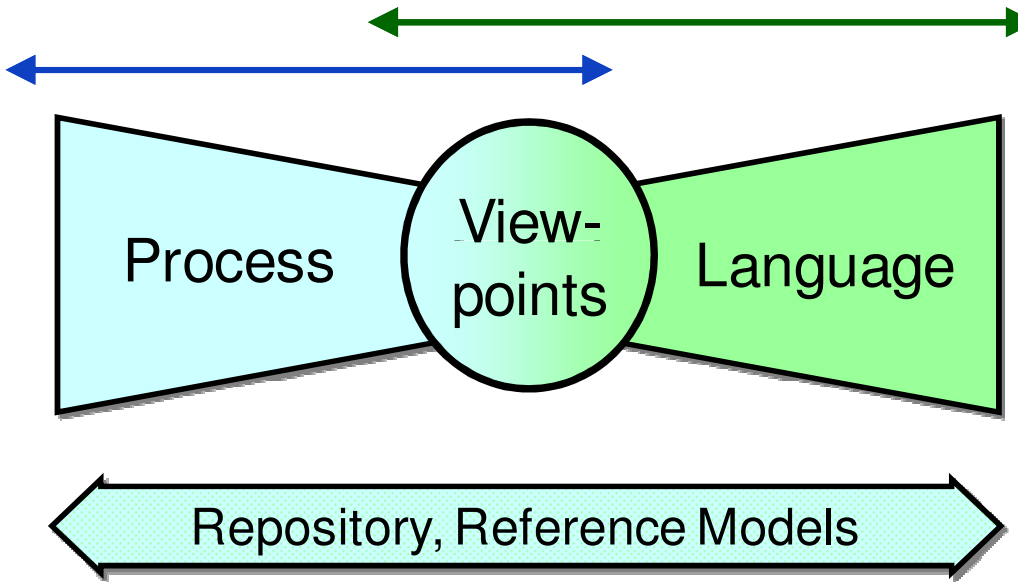
Ingredients of a Successful EA Practice

TOGAF



ArchiMate





A short introduction on TOGAF

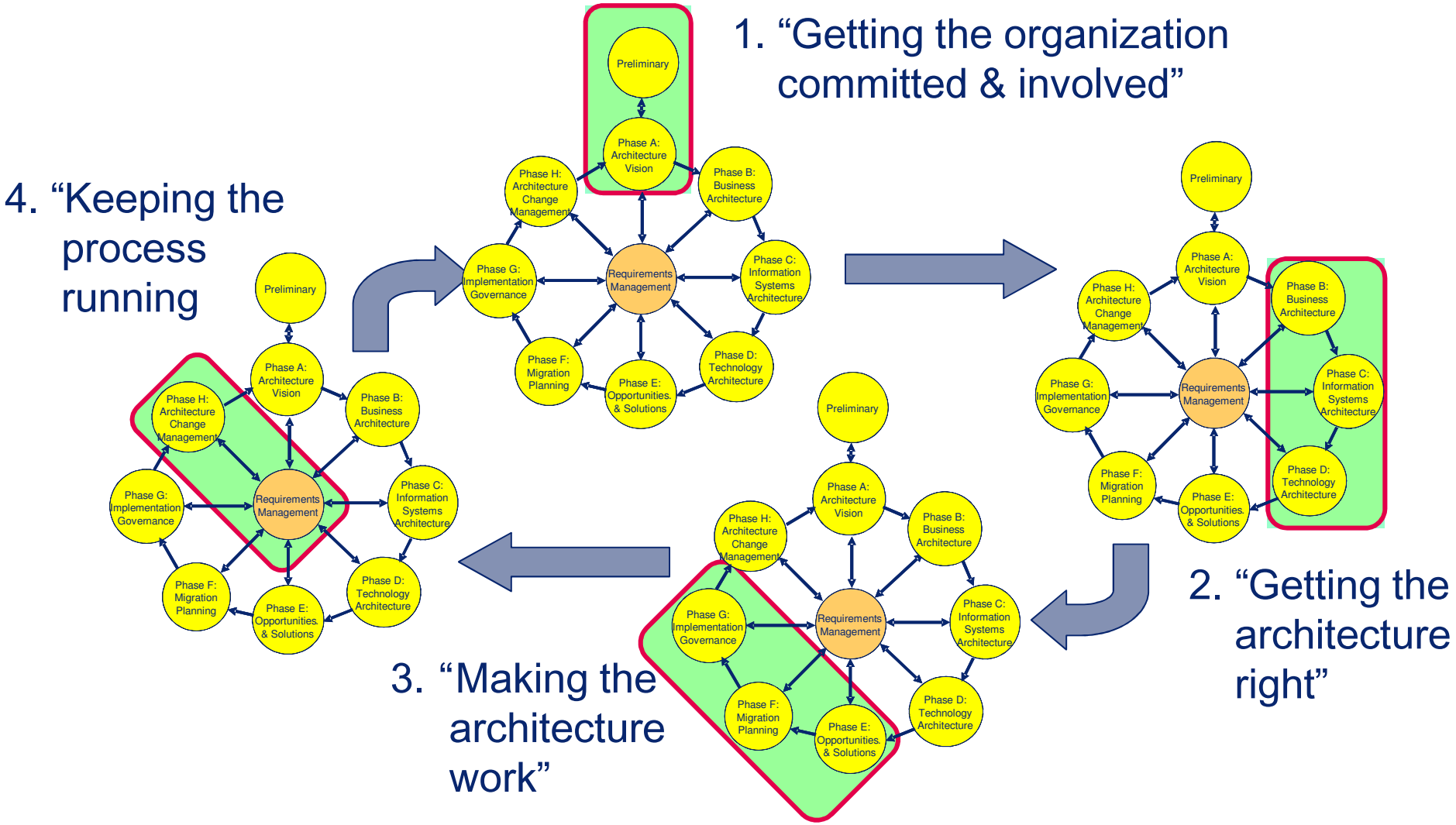
A framework and way of working for Enterprise Architecture

What is TOGAF?

- A framework for enterprise architecture
- Version 9.1 was released January 2012 in San Francisco
- Facilitates and provides:
  - A way of working (method)
  - A reference structure to build models (content framework)
  - A quick start (some high level reference models)
  - Guidelines & techniques and reusable templates

Most known ADM: Architecture Development Method

Architecture Development Method (ADM)



Some more information about ArchiMate

A modelling language for Enterprise Architecture

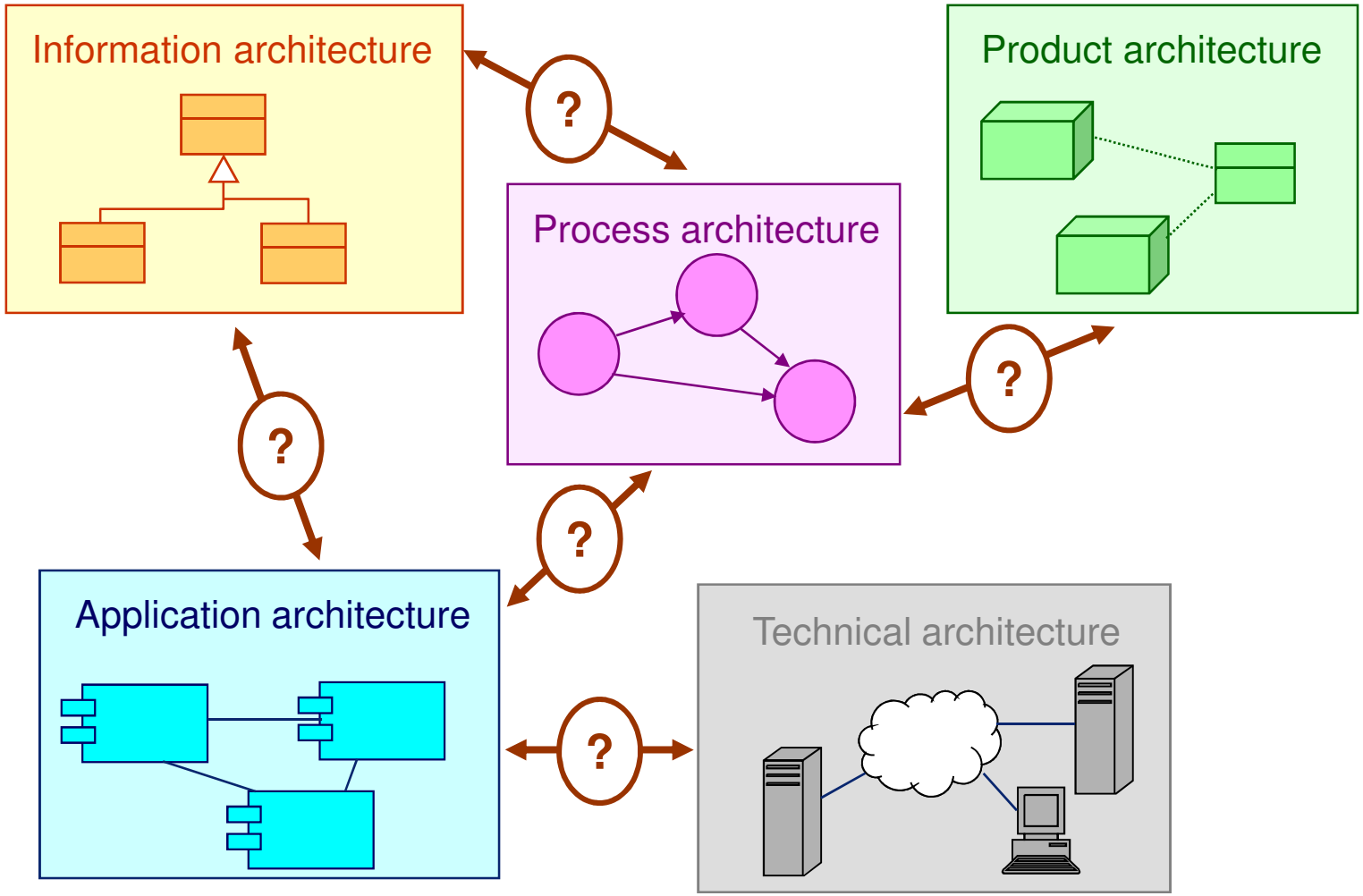
Why one language…

What is ArchiMate?

- Visual modelling language for enterprise architecture
- Version 2 was released January 2012 in San Francisco
- Facilitates shared understanding across disciplines
  - Management
  - Enterprise, technical and business architects
  - Consultants, engineers, analysts, various business people

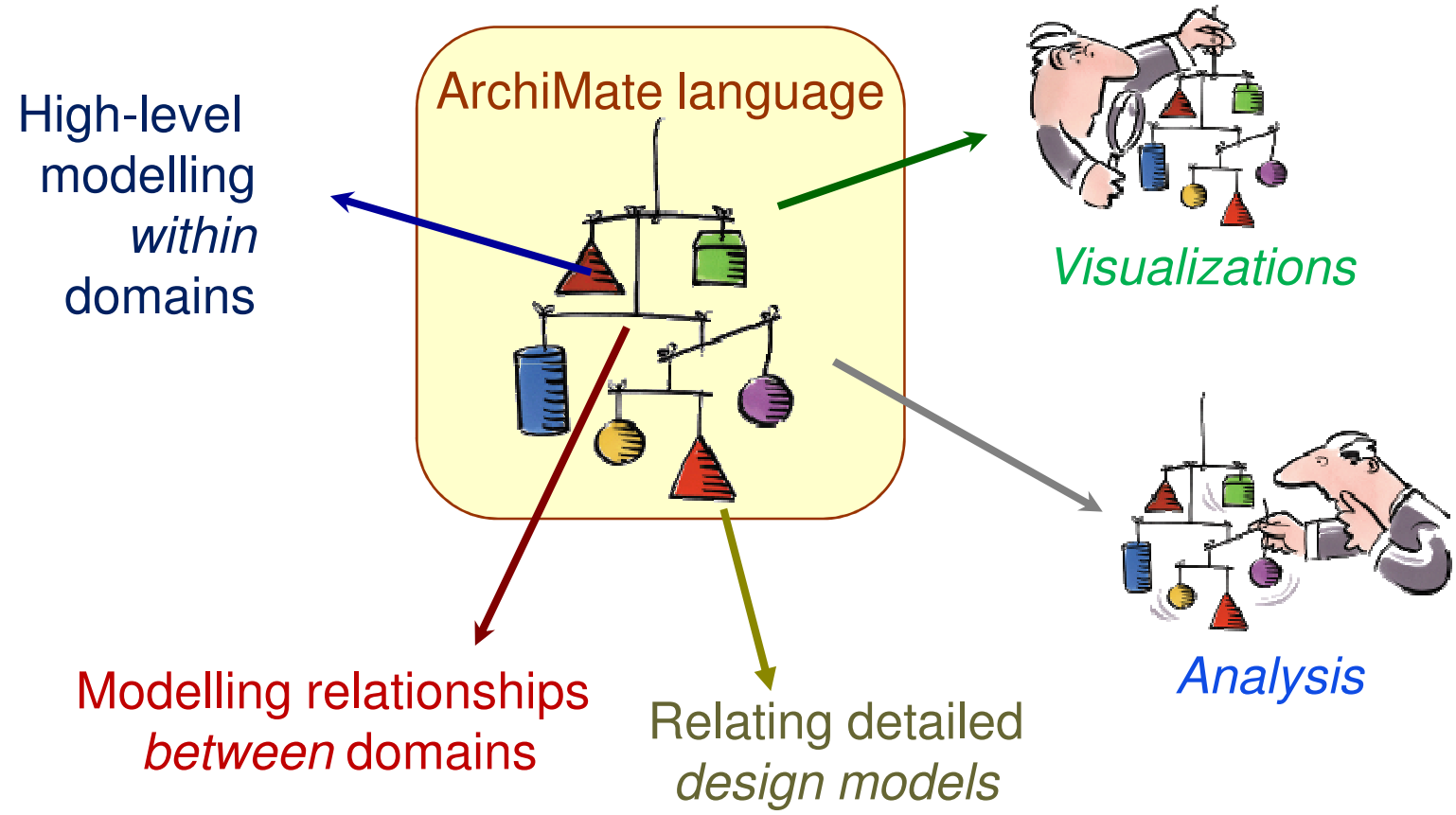
- Complements and interrelates to detailed system design languages such as UML, SysML, BPMN, ERD, SBVR, BMM

Linking Architectural Domains

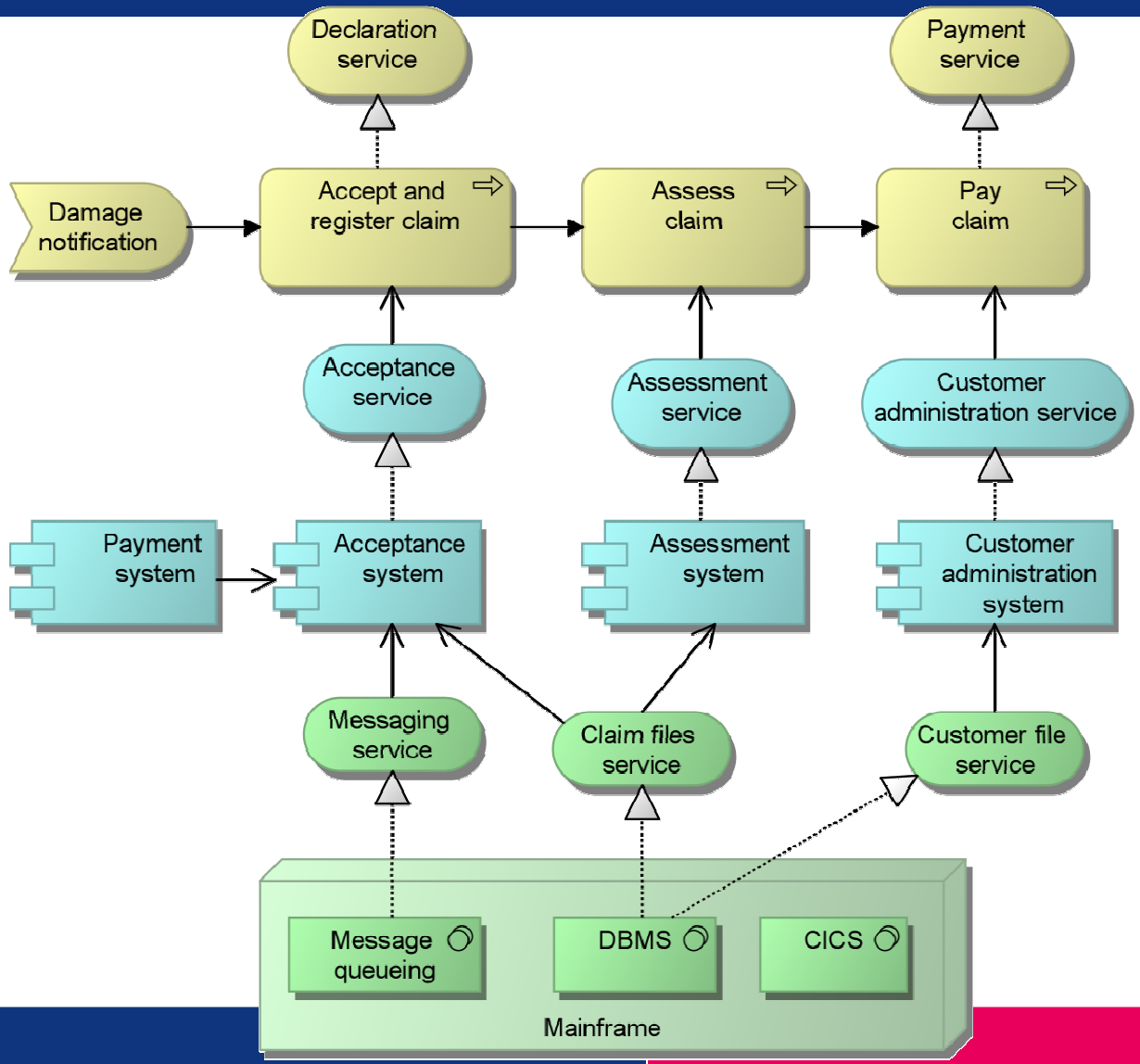


The ArchiMate Language

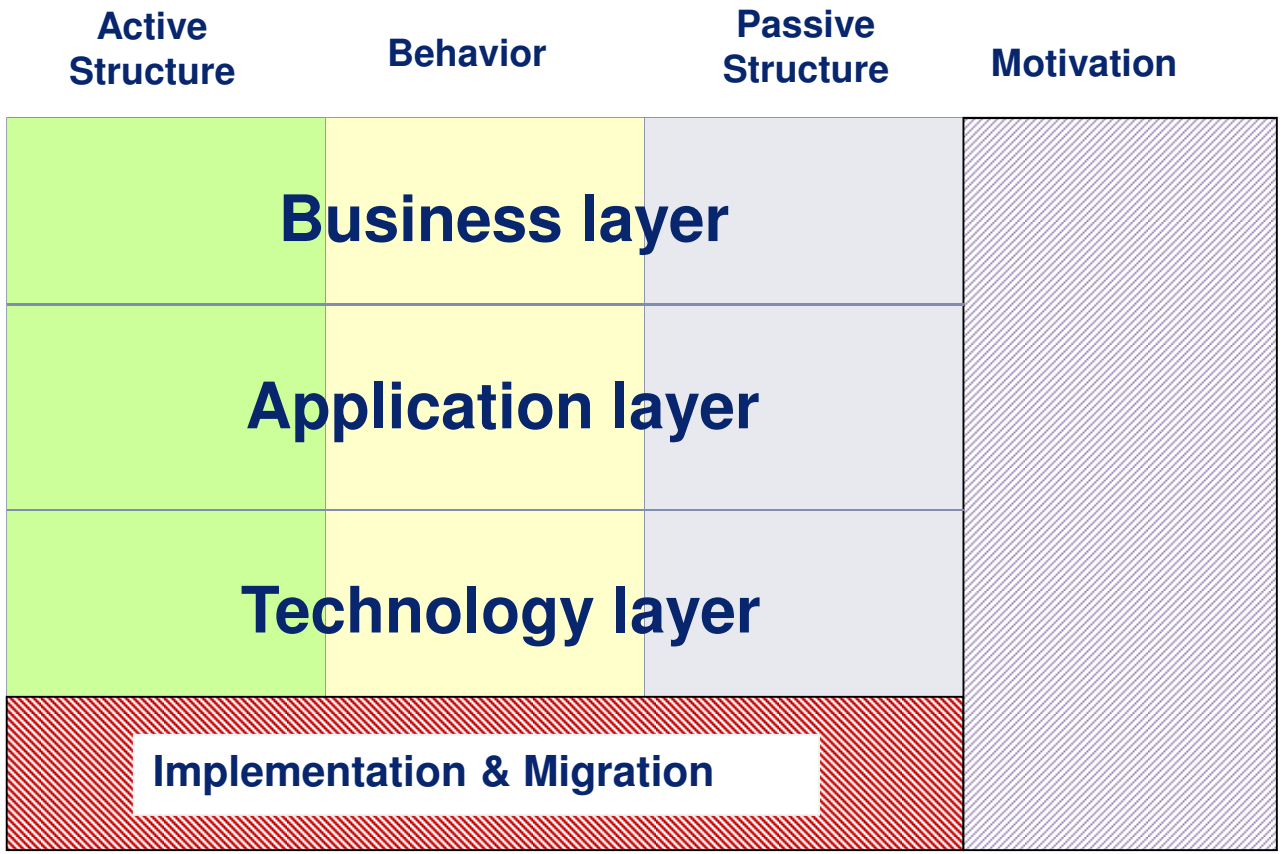
A basis for



Layered View Example

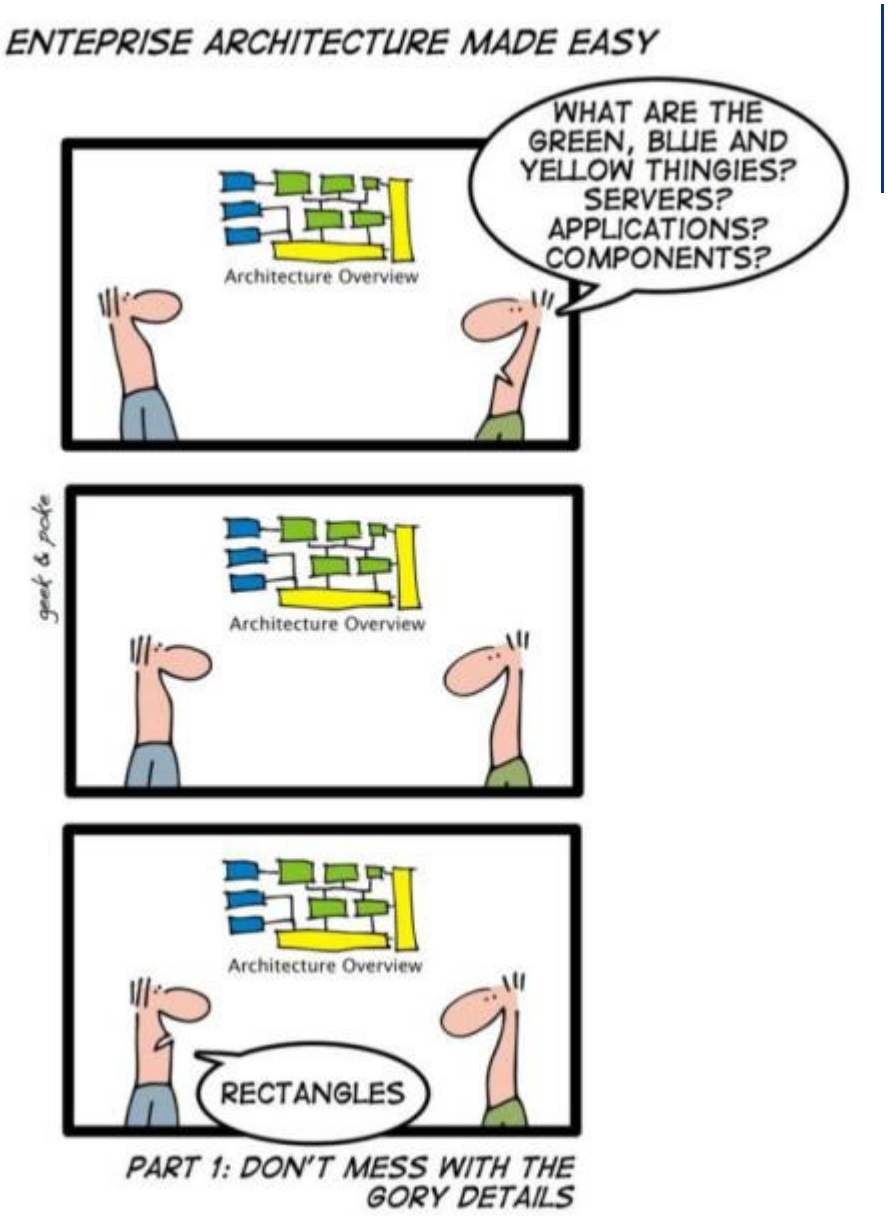


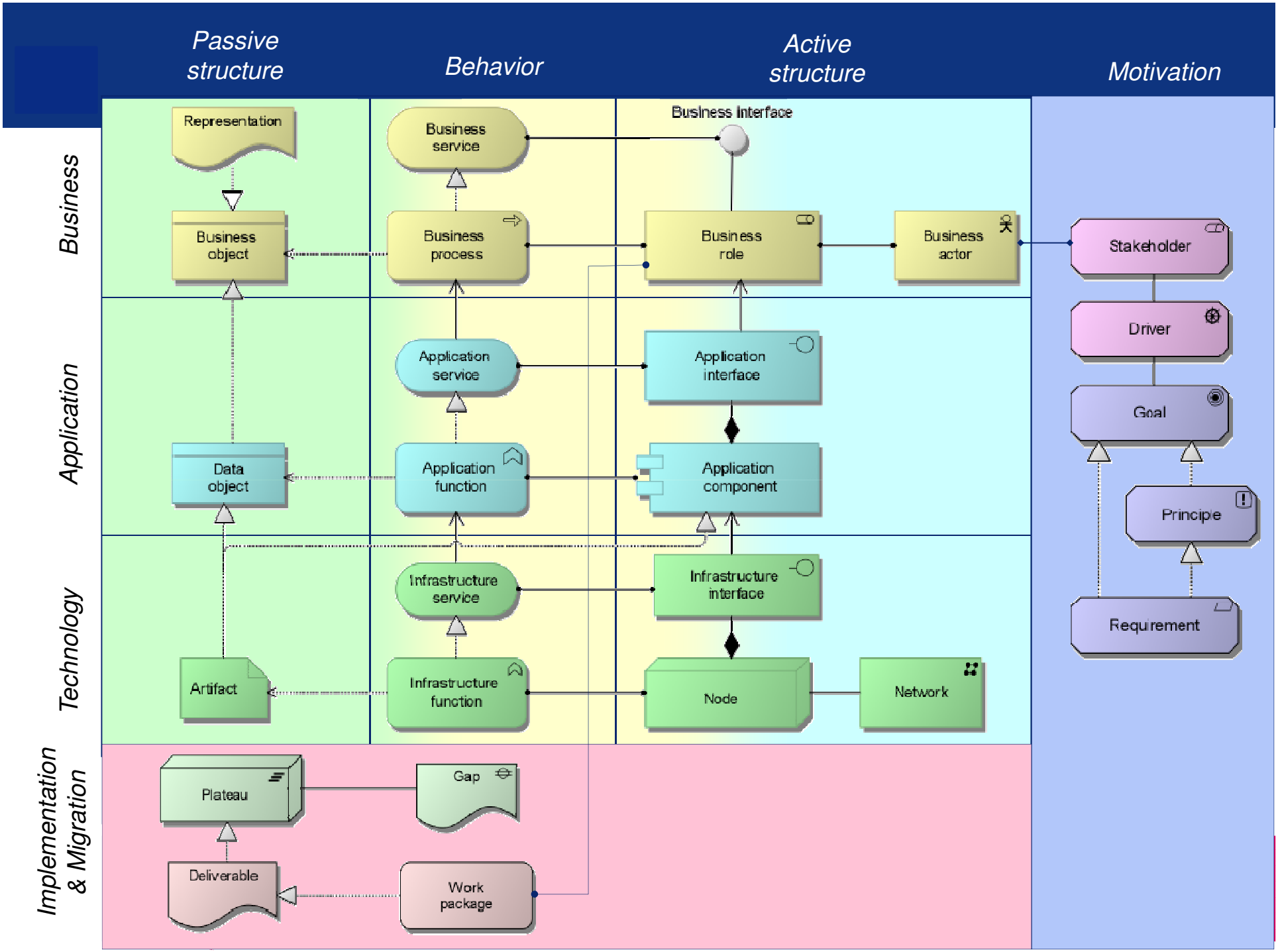
ArchiMate language Framework



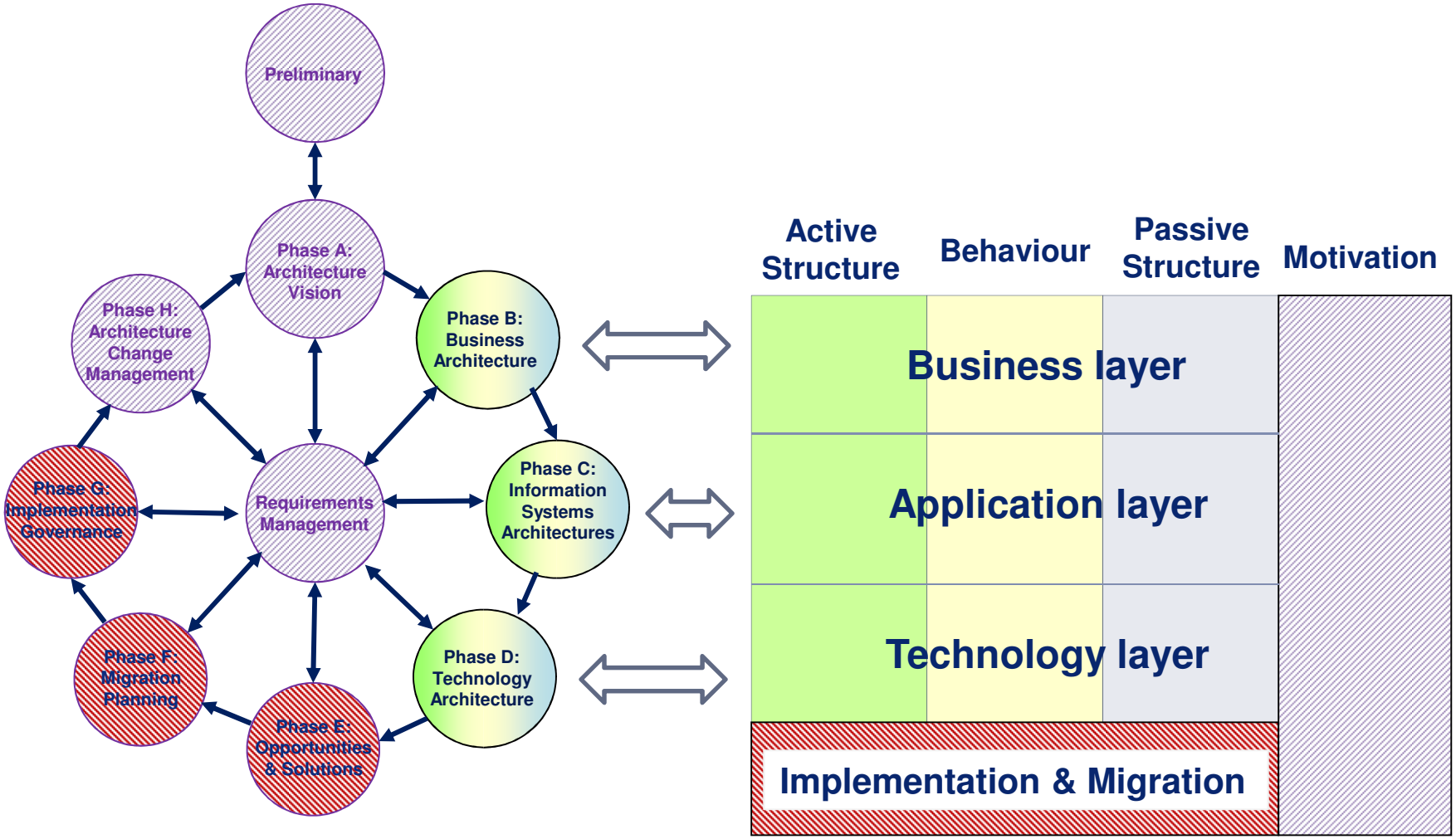
A Real Language

- Boxes become concepts
- Lines become relationships
- A modelling language defines concepts, relationships, semantics, rules and notation




Passive structure
Behavior
Active structure
Motivation
Business
Application
Technology
Implementation & Migration
Representation
Business service
Business interface
Business object
Business process
Business role
Business actor
Stakeholder
Driver
Application service
Application interface
Goal
Data object
Application function
Application component
Principle
Infrastructure service
Infrastructure interface
Requirement
Artifact
Infrastructure function
Node
Network
Plateau
Gap
Deliverable
Work package

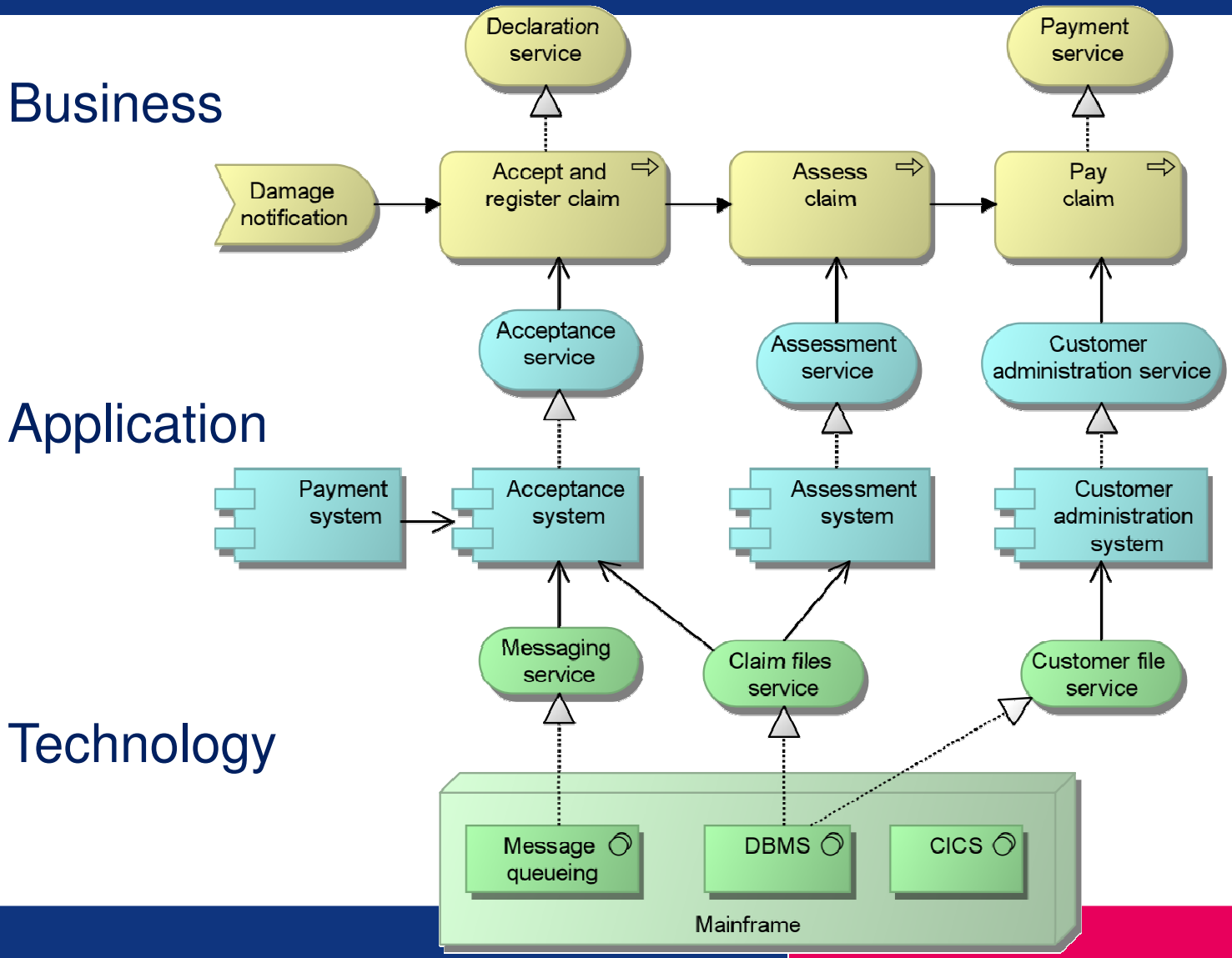
TOGAF ADM and the ArchiMate Framework



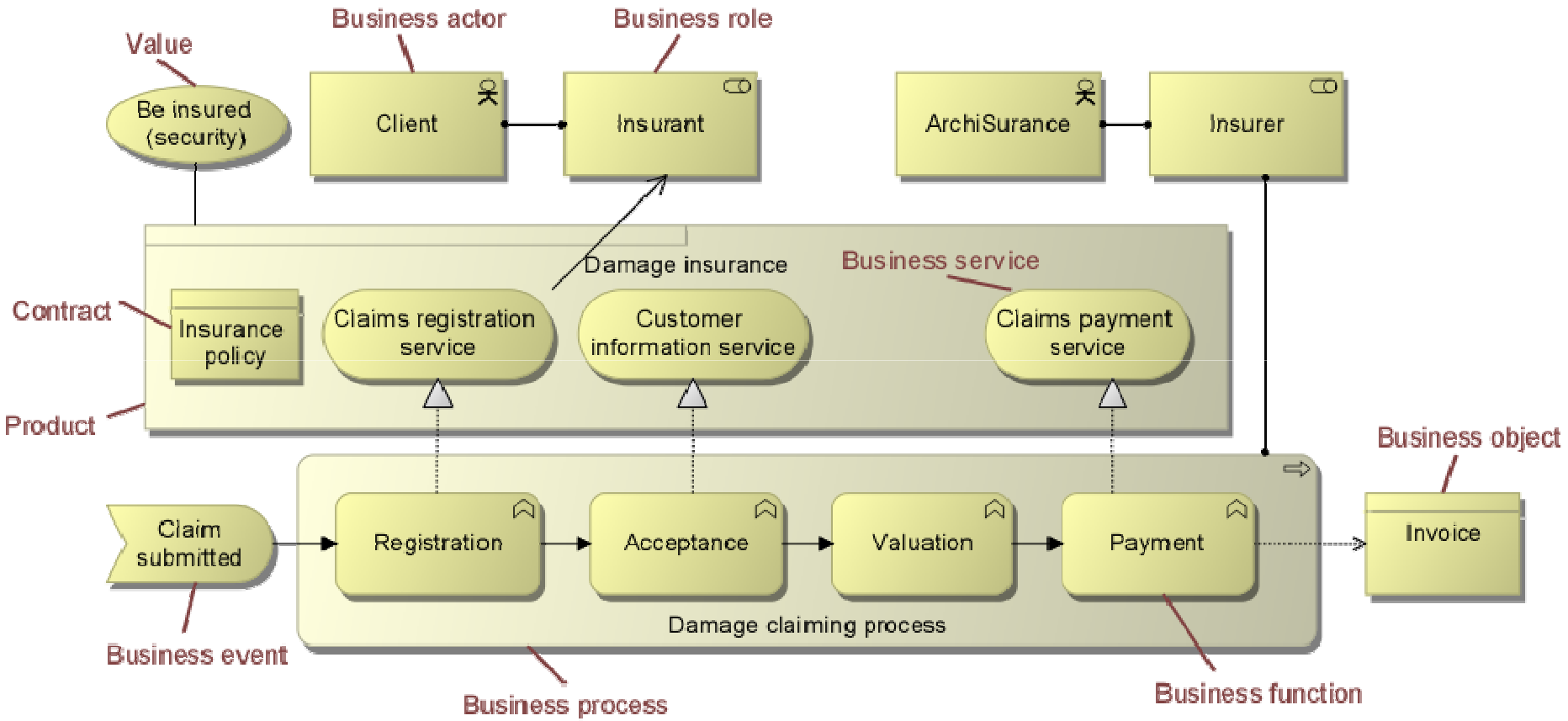
ArchiMate Core

- Models the business, application and technology layers and their interrelations.
- Complete coverage of information, product, process, application, technological architectures
- Thus addresses needs of the TOGAF phases to build the as-is and to-be architecture

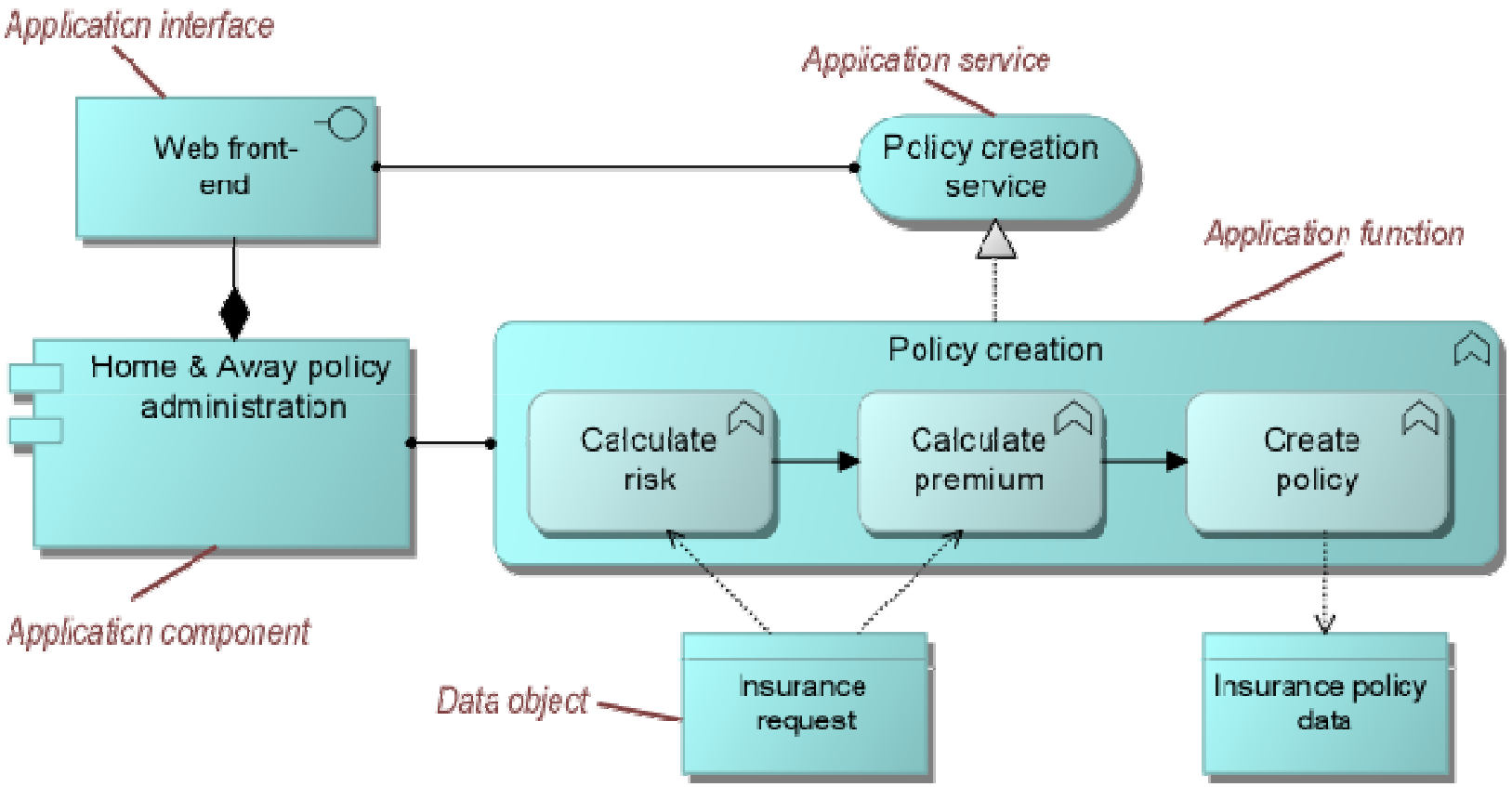
Layered View Example



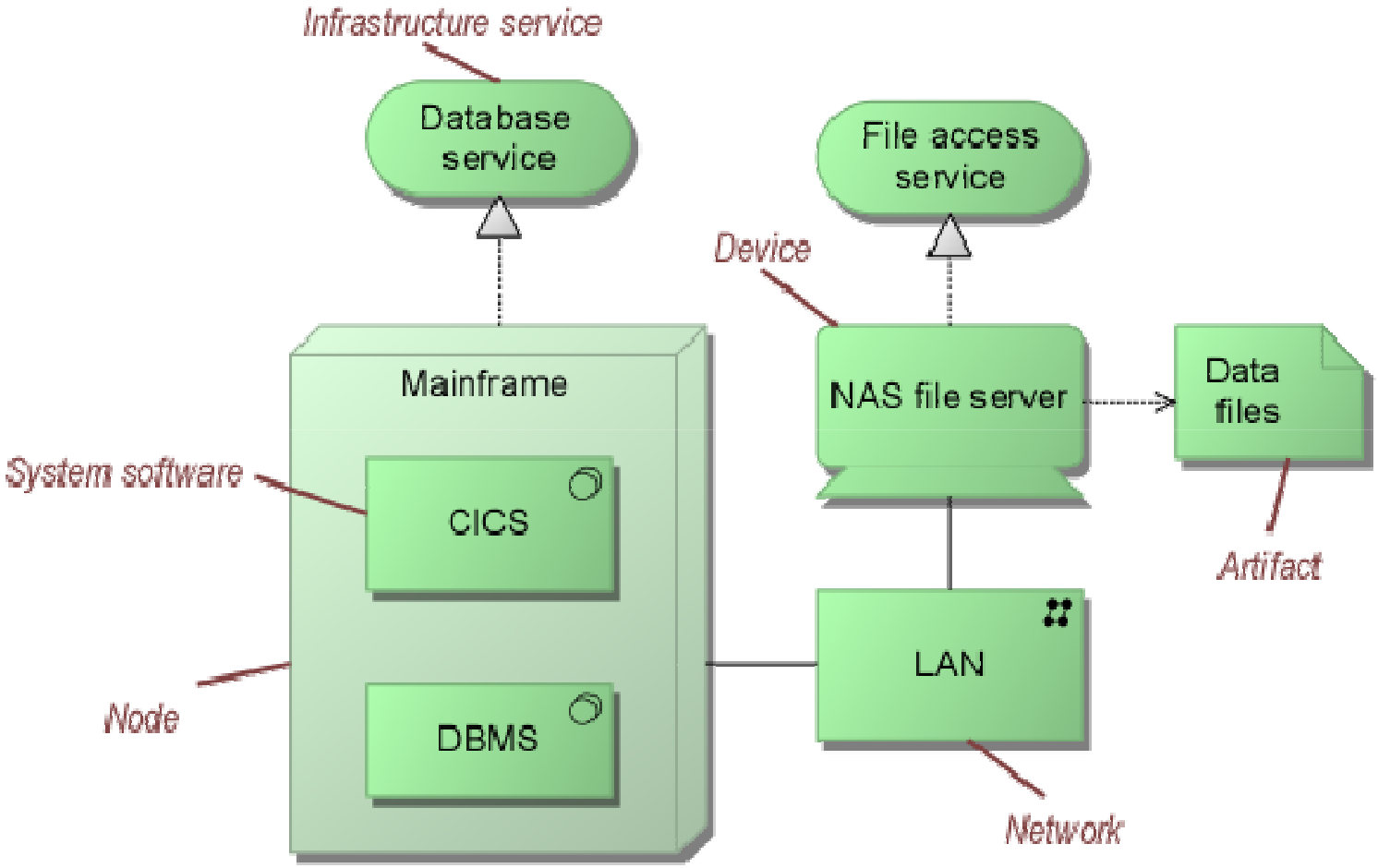
Example Business Layer Model



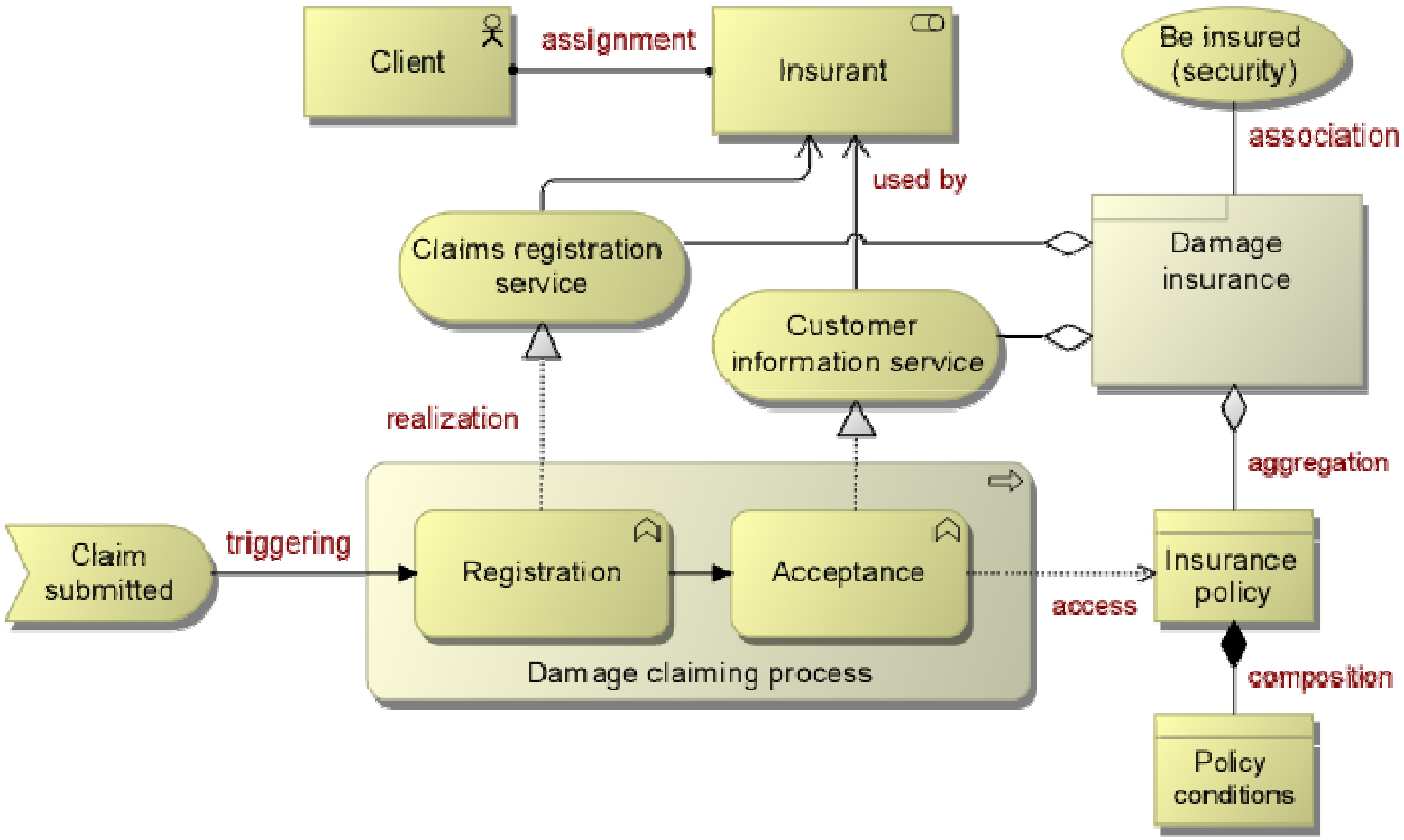
Example Application Layer Model



Example Technology Layer Model



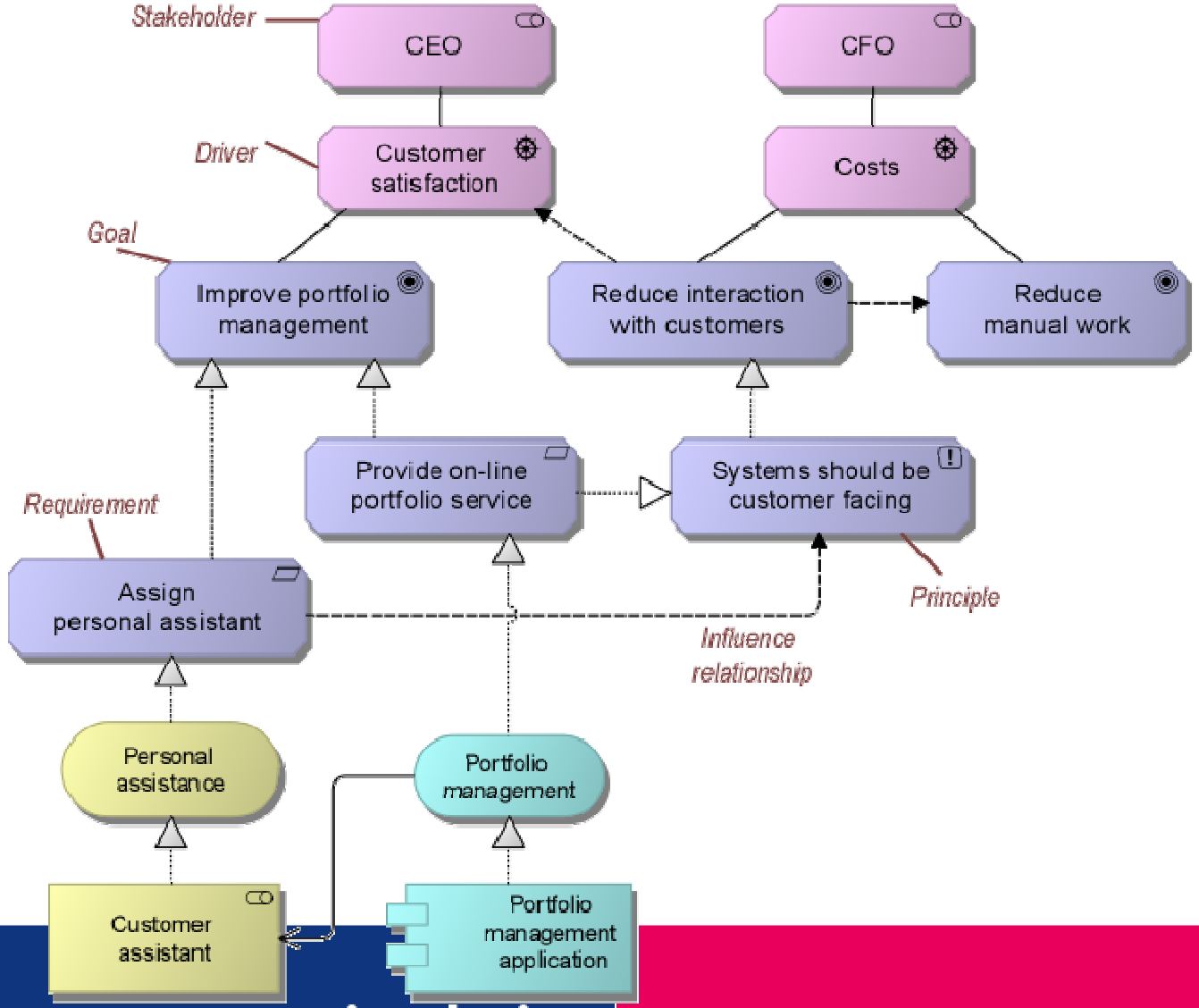
Relationships



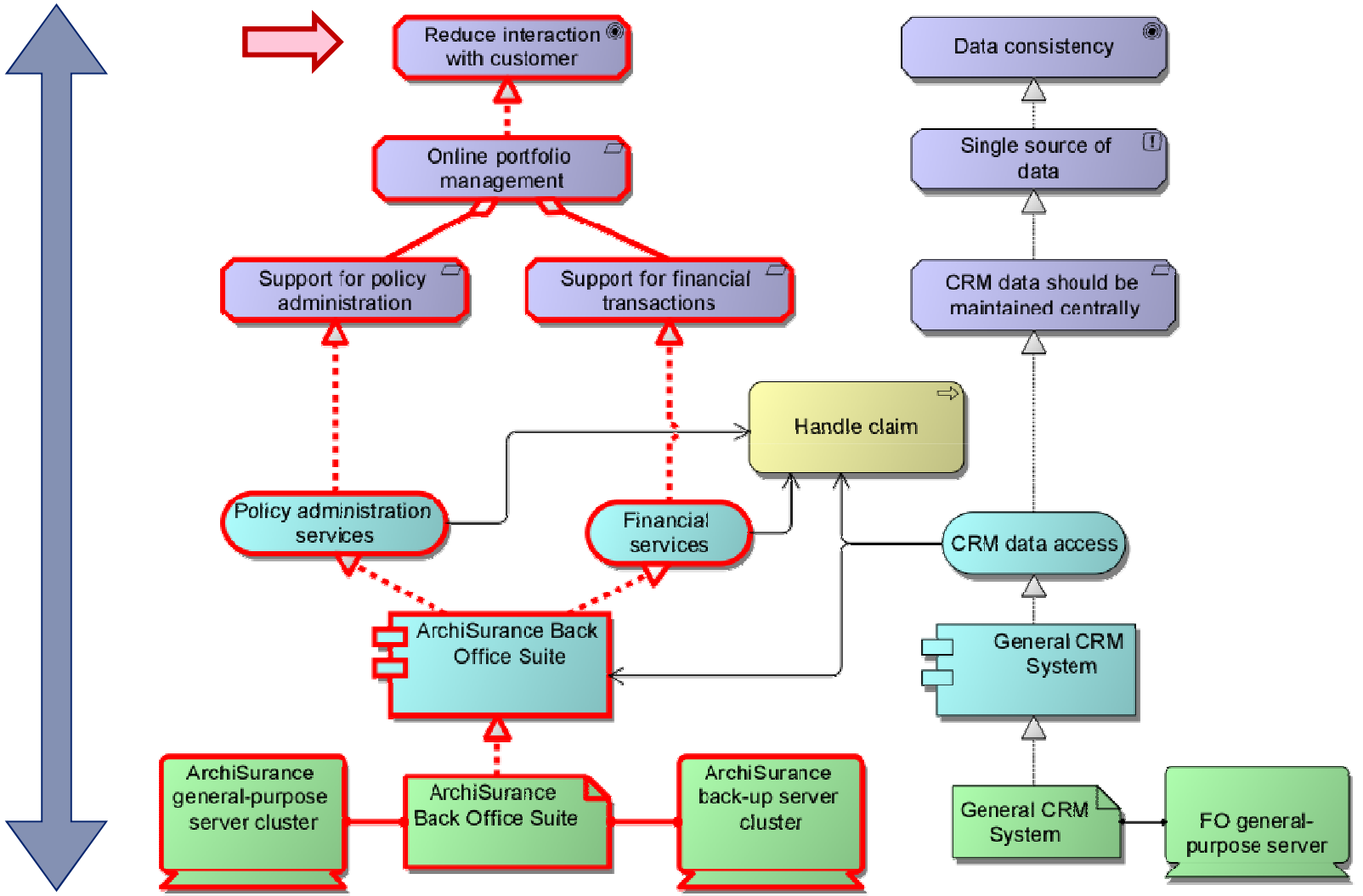
ArchiMate Motivation Extension

- Models stakeholders, drivers for change, business goals, principles and requirements, and their relationships
- Supports traceability between motivations and other architectural components
- Thus addresses needs of the early TOGAF phases and the Requirements Management process
- Inspired by standards and existing techniques such as OMG's Business Motivation Model, KAOS, i*

Example Motivation Extension Model



Traceability of Motivations

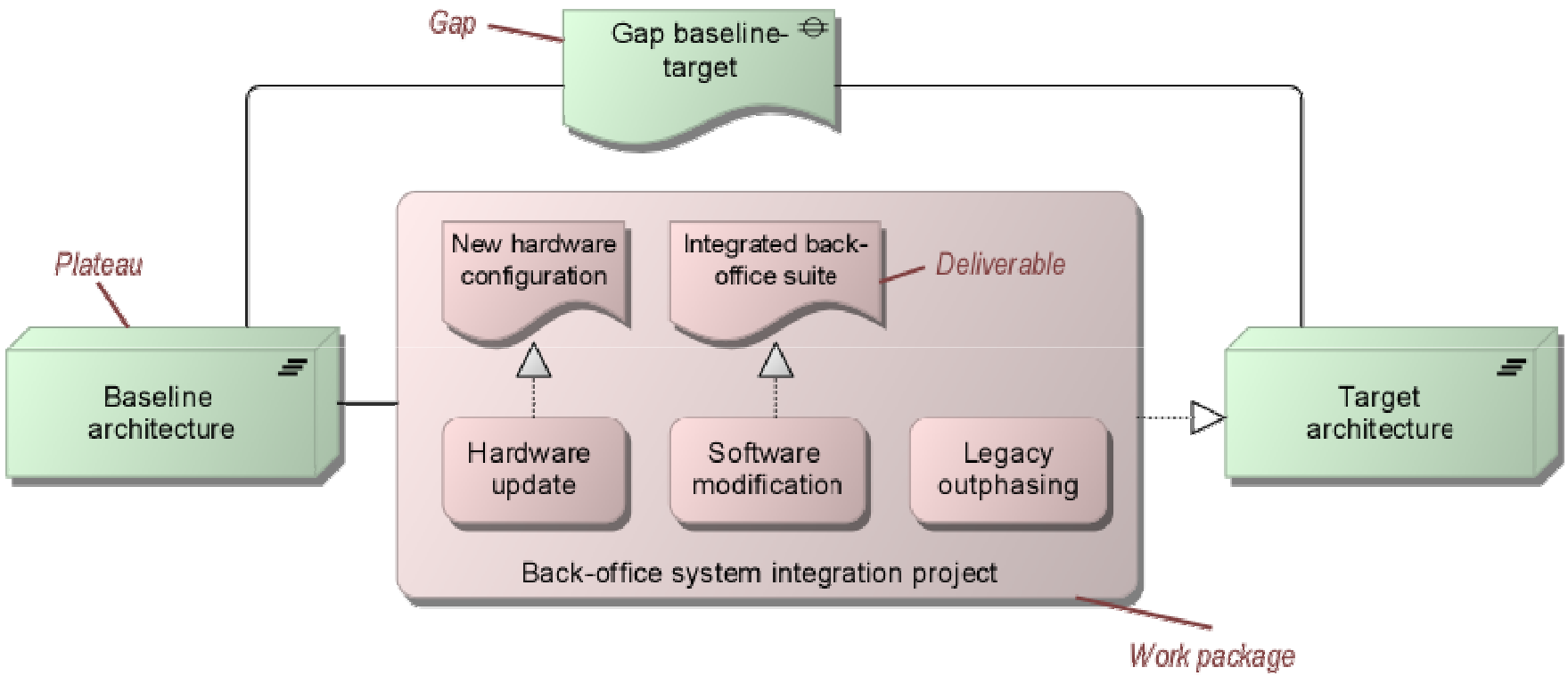


Implementation & Migration Extension

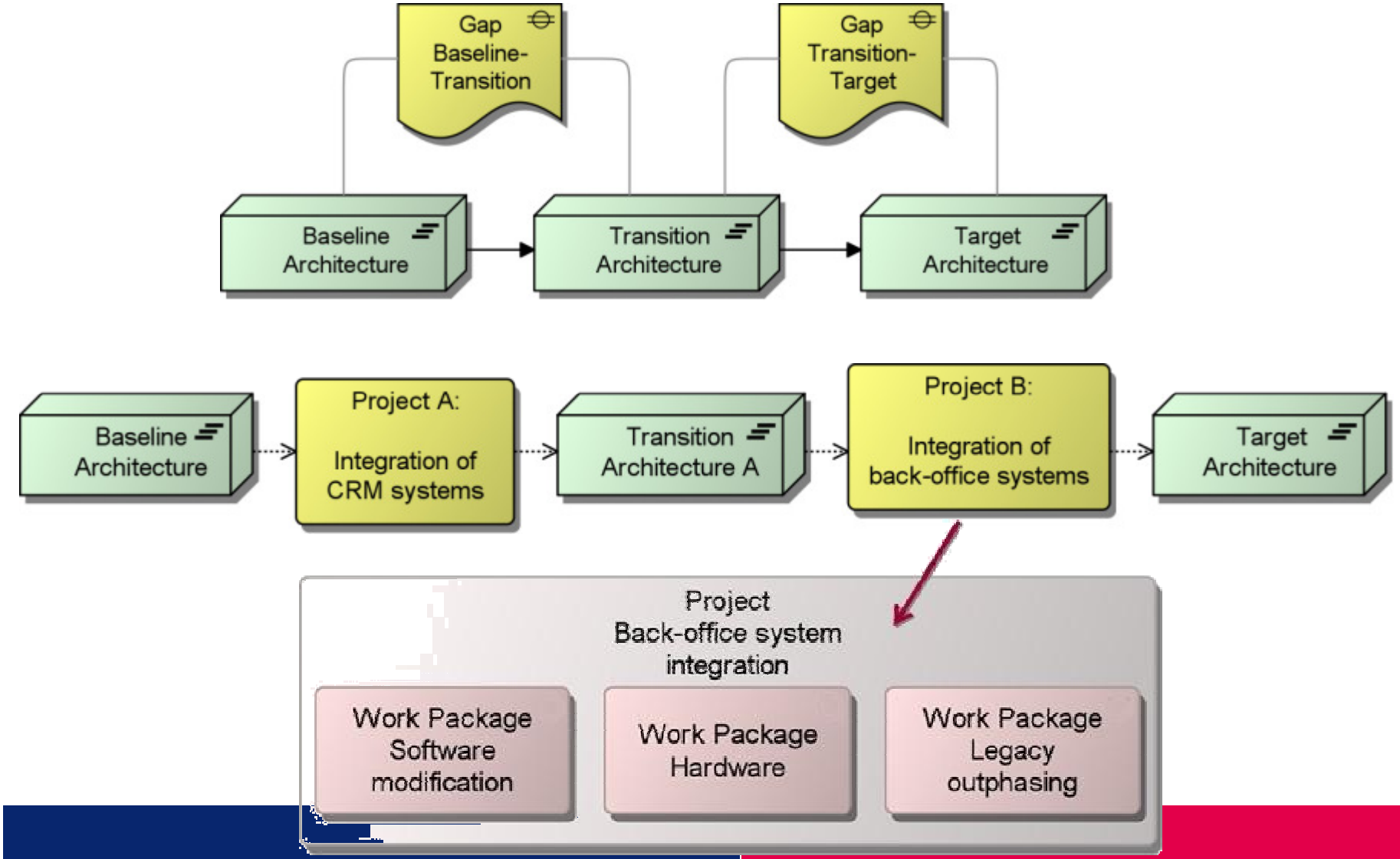
- Models and supports:
  - Management of individual projects and project portfolios
  - Gap analysis
  - Transition and migration planning

- Thus addresses the needs of the later phases of the TOGAF ADM cycle

Implementation & Migration Extension Example



Implementation & Migration Extension Example



Benefits of ArchiMate Experienced in Practice

- ArchiMate closes the gap between ‘free-format’ strategy models and detailed solutions architecture models
- Consistent and integrated modelling:
  - It is a tool for knowledge management
  - It helps to integrate various (types of) models
  - It enables stakeholder-specific view generation
  - It enables analysis (gap, what-if, comparison etc).
- Insight in the various domains, but also their interrelationships
- It is a widely accepted open standard, i.e., no vendor lock-in
- ArchiMate makes it easier to communicate with architects across organisational boundaries, domain boundaries and between architect and designer
- Easy to use, low complexity, step-by-step increase in advanced use

TOGAF & ArchiMate

Form a perfect basis for a tool supported Enterprise Architecture practice!

- Specifically designed for enterprise architecture
- integrated, consistent and coherent modelling in various phases
- Supports generation of compelling views for various stakeholders from a central repository
- Eases impact, gap and other types of analysis
- Eases sharing and reuse of models

Do you want to know more?

- 15.30h at Evropa A: **complete case presentation** about Insurance firm using TOGAF & ArchiMate to achieve a successful merger of three separate businesses through application rationalization.

In your bag brochure:

Or contact me at:

H.Franken@BiZZdesign.com

BiZZdesign – Making Enterprise Architecture Work!

ArchiMate® 2.0 and TOGAF® 9.1 Certification
Enterprise Architecture has become increasingly important to organizations around the world. Not only does Enterprise Architecture enable organizations to respond more quickly to changing customer needs and company goals, but it also allows organizations to plan, analyze, communicate and manage changes in products, processes, applications and infrastructure more effectively.

The needs of the customer are always well-integrated in the training courses. The trainers are highly qualified and approachable. They know what they are talking about and provide us with great practical tips.
Astrid de Heer- de Rooij, Training Coordinator at the Internal Revenue Service

Many organizations use TOGAF®, The Open Group Architecture Framework, as the guiding architecture framework, and ArchiMate® as the supporting modeling language; both are open standards managed by The Open Group. With the launch of ArchiMate 2.0 and TOGAF 9.1, Enterprise Architecture has made a significant leap forward.

What can BiZZdesign do for your organization?
With the new ArchiMate extensions and further alignment consultancy, BiZZdesign makes Enterprise Architecture work in your organization!

BiZZdesign Academy offers certification courses for ArchiMate 2.0 and TOGAF 9.1
To ensure that ArchiMate 2.0 and TOGAF 9.1 are fully understood and consistently applied within your organization, training is of great importance. The success rate of any Enterprise Architecture effort increases dramatically when the use of these instruments is correctly and effectively addressed within your organization. To ensure this success, BiZZdesign Academy offers certification courses for ArchiMate and TOGAF, accredited by The Open Group.

ArchiMate® 2.0 certification courses
- **Foundation training ArchiMate 2.0 Core**
  A one day introduction training course on the ArchiMate core language;
- **Foundation training BiZZdesign Architect®**
  A one day introduction training course for Architect (ArchiMate tool); this training must be combined with the Foundation ArchiMate Core;
- **Foundation training ArchiMate 2.0 including certification**
  A two day ArchiMate 2.0 training (core language with extensions) including The Open Group exam;
- **Foundation training ArchiMate 2.0 with Architect,**

Thank you for your attention!

April 17th 2012

Henry Franken - BiZZdesign