ArchiMate: Adding value to TOGAF

Remco Blom, EA-consultant, BiZZdesign

Enterprise Architecture Practitioners Conference
Toronto, 2009

THE Open GROUP
Making standards work®

Mission BiZZdesign

- To help organizations govern and change (themselves) effectively and rapidly using enterprise architecture, business requirements management, business process improvement & management, supported by
  - Methods
  - Tools — all certified by The Open Group
  - Consultancy
  - Training

"BiZZdesign has strategically chosen to support open standards and become an active member within The Open Group."

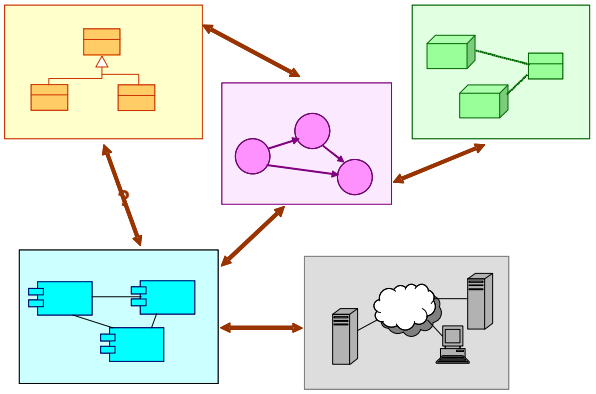
TOGAF Tool Support

ARCHIMATE®

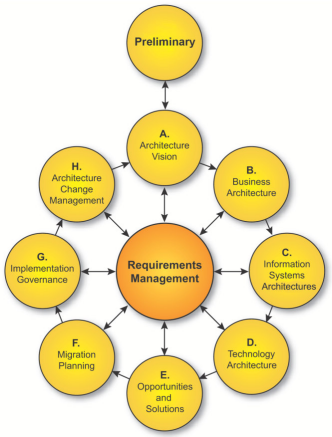
TOGAF Training

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



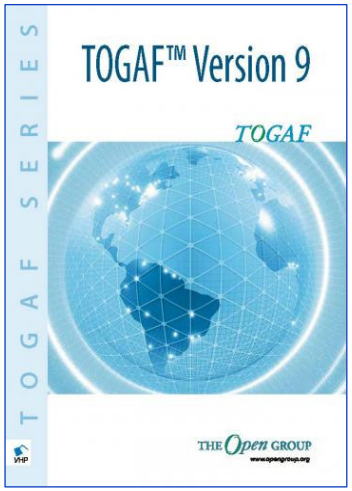
- A *process*
  - Way of working
  - Aimed at the development and use of enterprise architectures within an enterprise
  - With people and resources

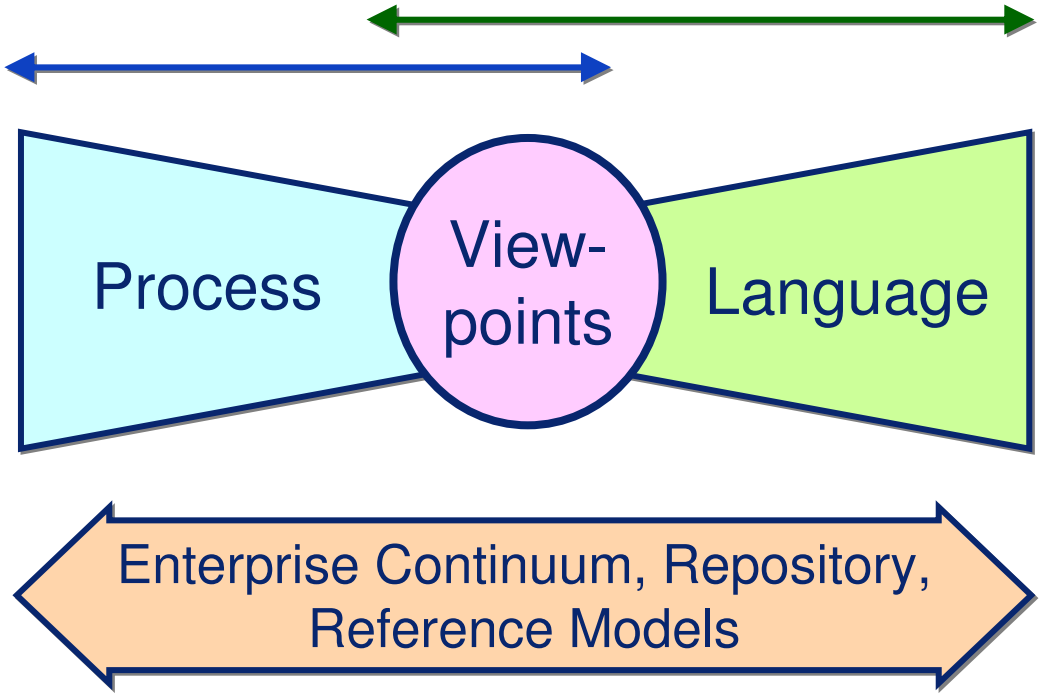


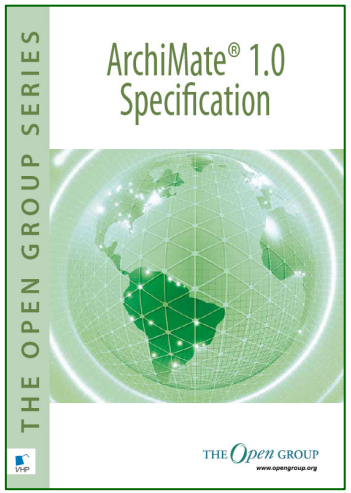
Ingredients of an EA Approach

TOGAF

ArchiMate

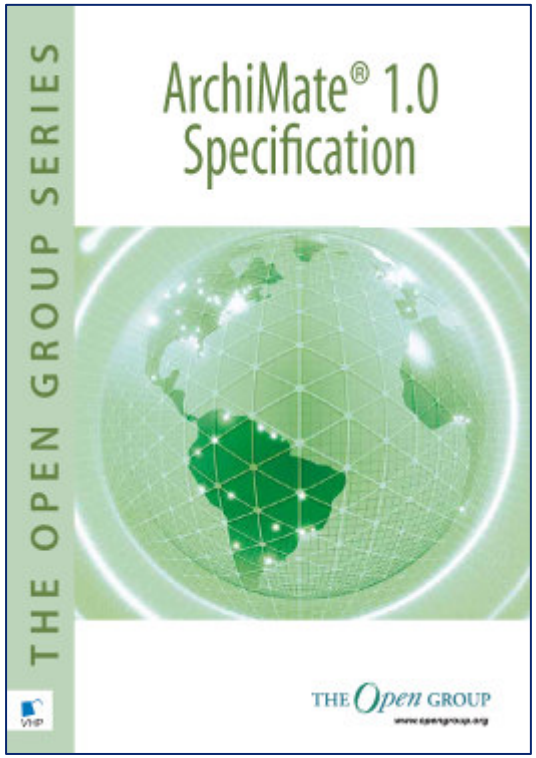




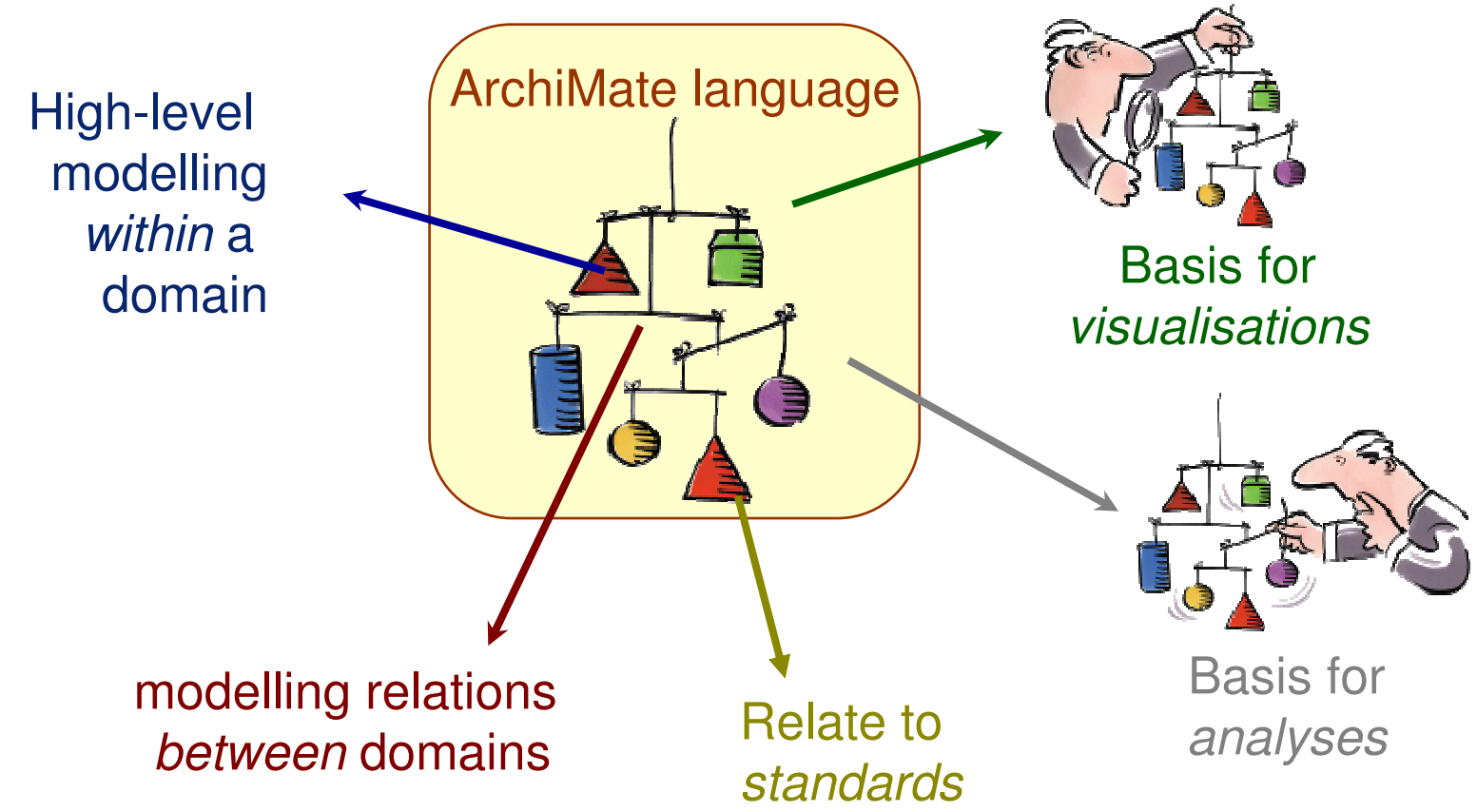


ArchiMate

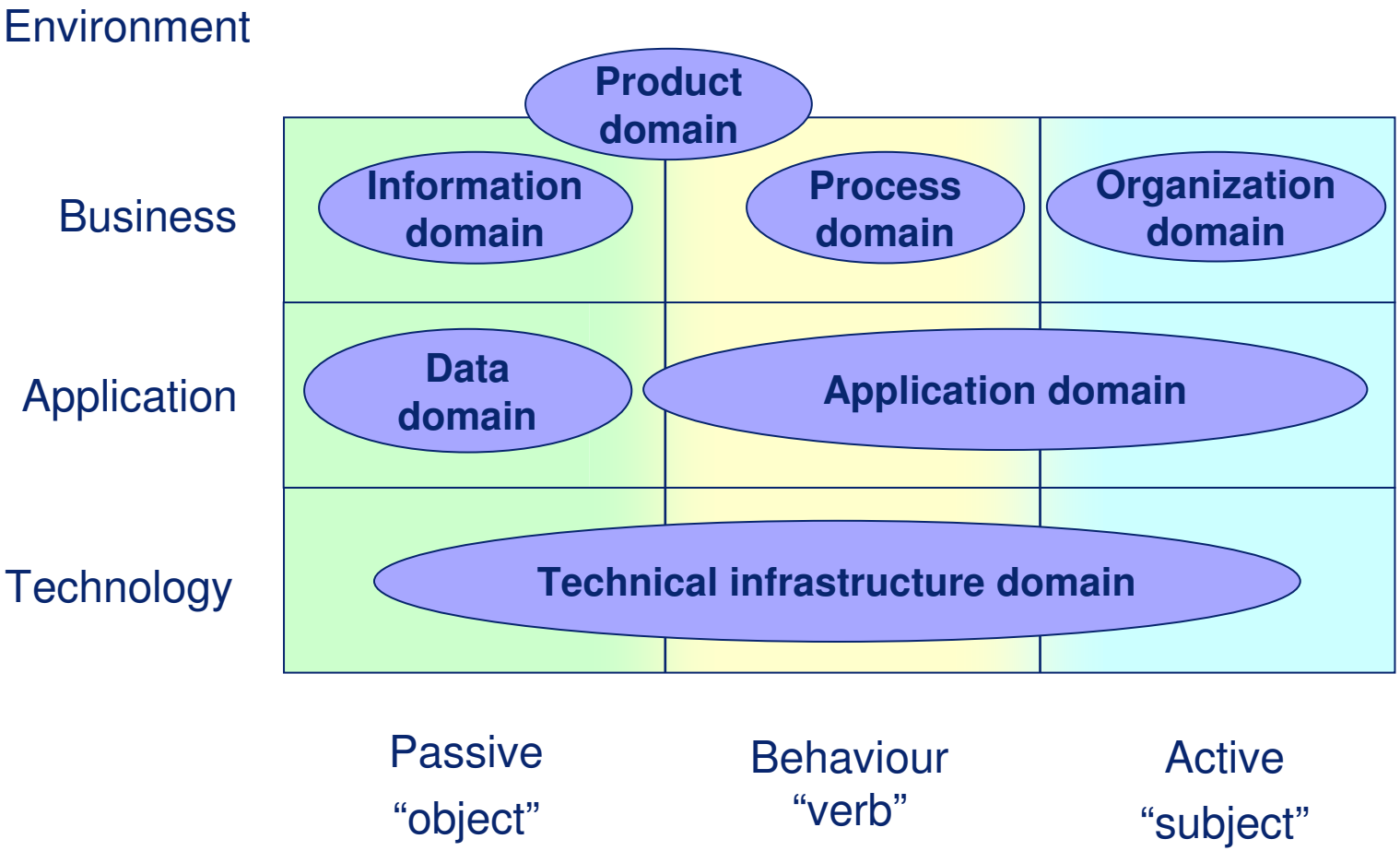
- A *language* for describing architectures
- Covers business, application and technology layers
  - With relations between these layers
- Graphical language with formal semantics, enabling analysis and tool support
- Techniques for *visualization* and *analysis*, aimed at various stakeholders
- Open standard maintained by The Open Group
- See www.opengroup.org/archimate or www.archimate.org



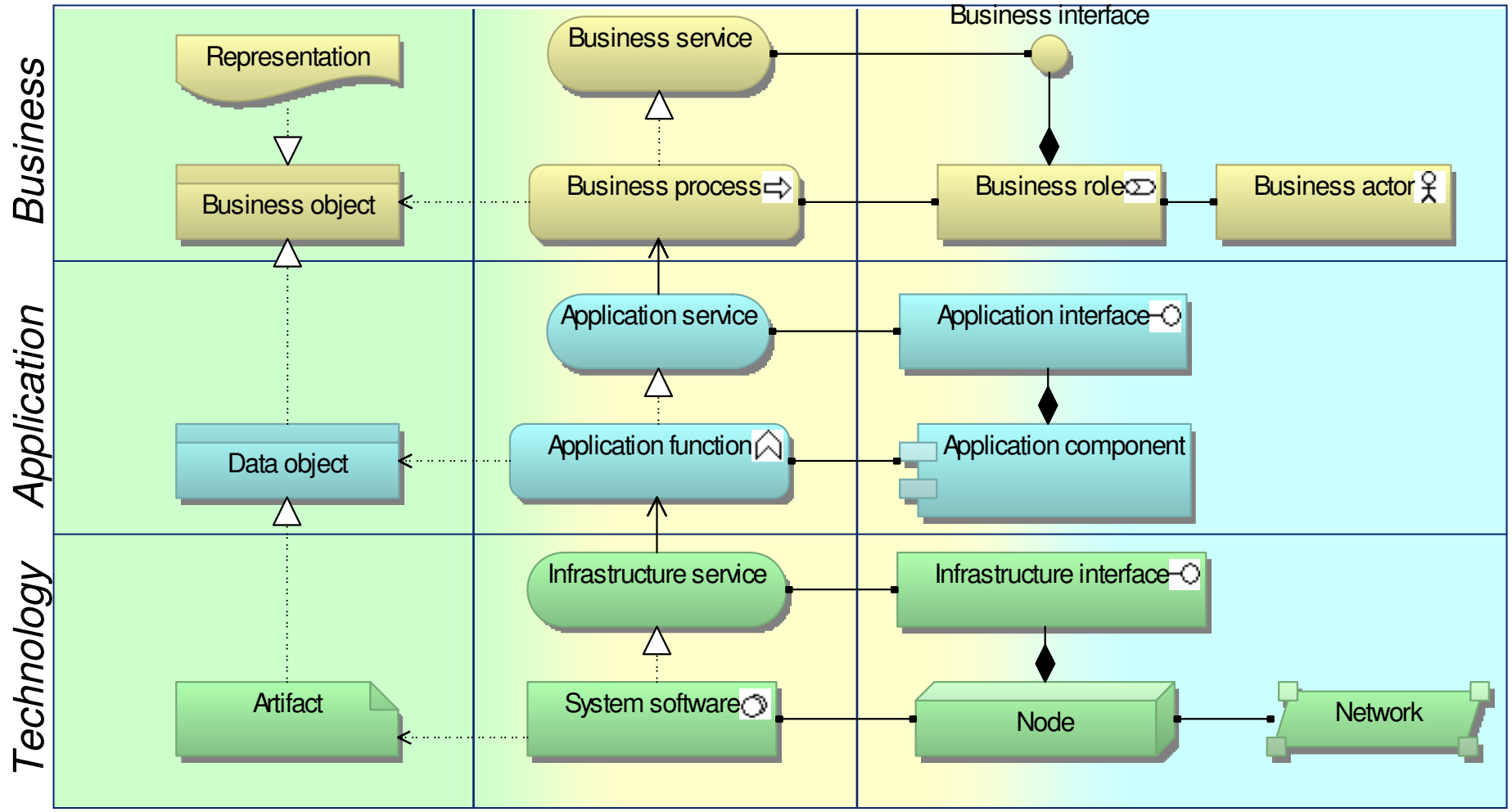
The ArchiMate Language



Layers, Aspects, and Domains



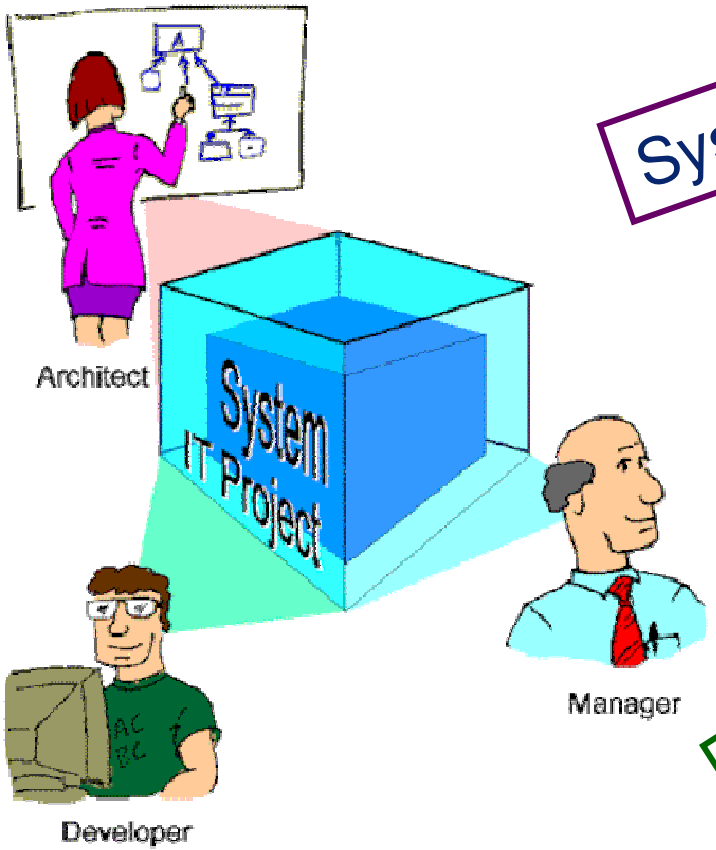
Language summary

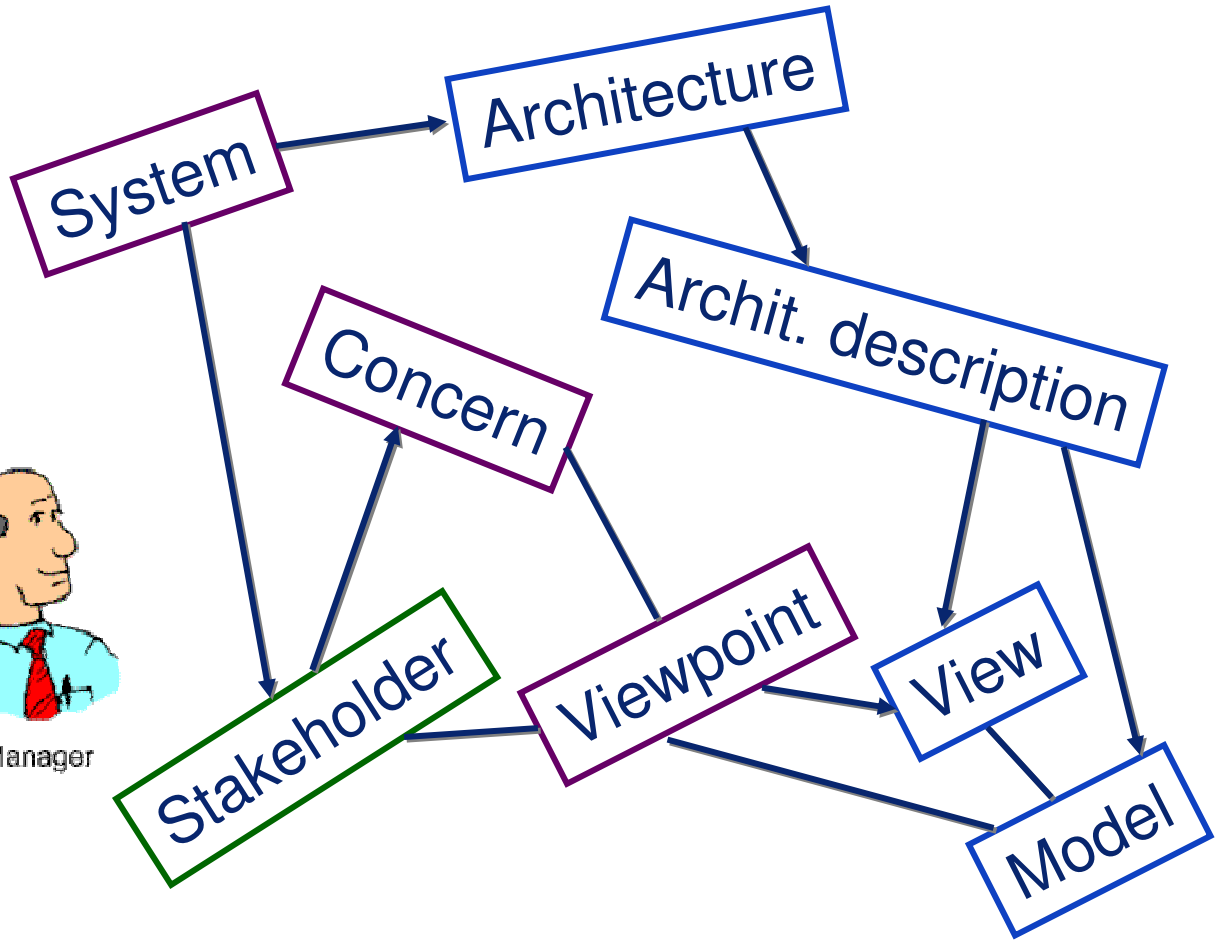


ArchiMate – Benefits

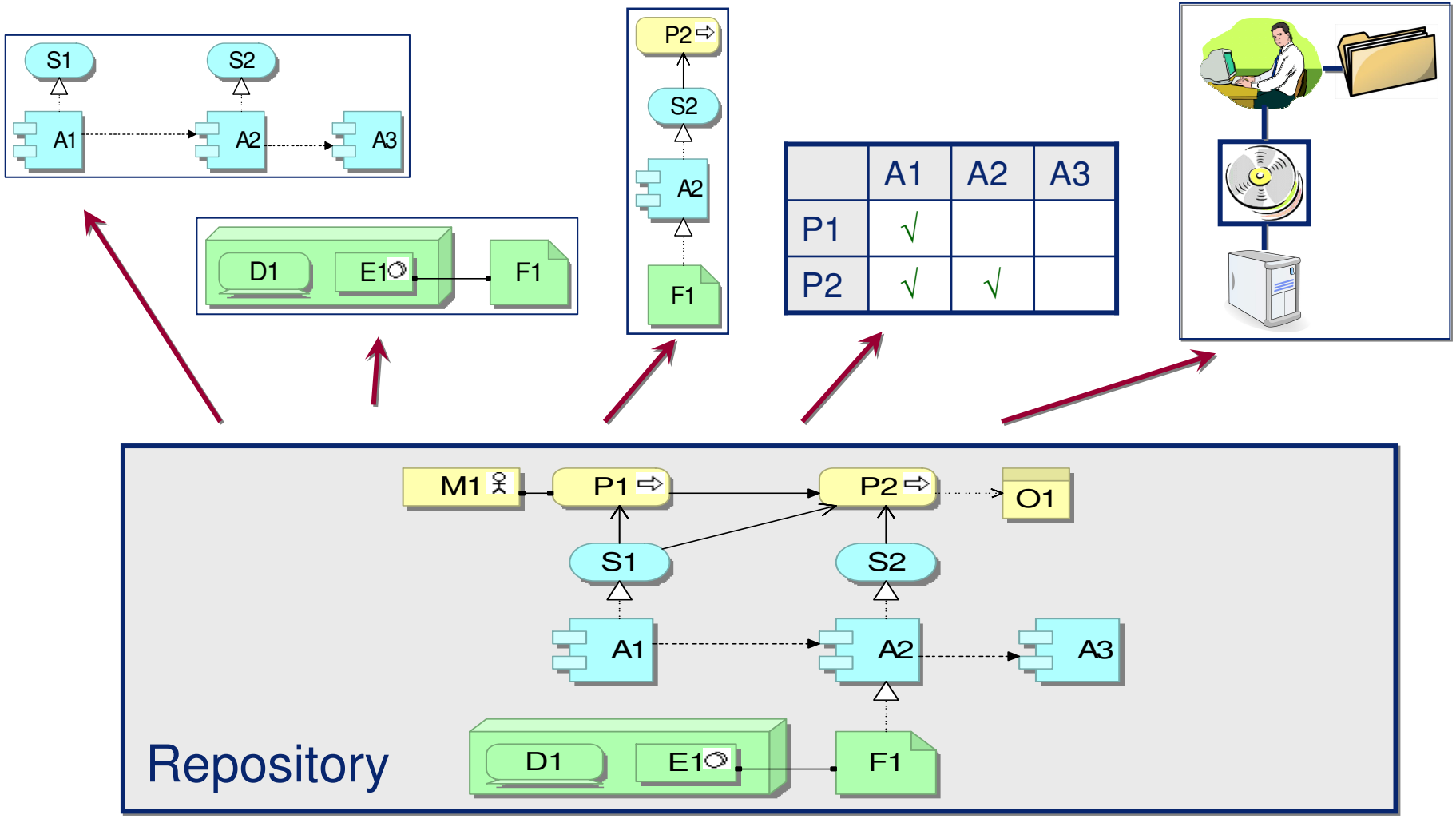
1. Makes EA visible to stakeholders
2. Specifically designed for EA
3. Services as central concepts
4. Widely accepted open standard
5. Communication with various stakeholders
6. Flexible
7. Easy to get started (2 day training to get started)
8. Unambigious, integrated, coherent and consistent modelling
9. Analyses (Impact-of-change, GAP, etc)
10. Supported in tools and by service providers

Viewpoints and views (ISO/IEC 42010)





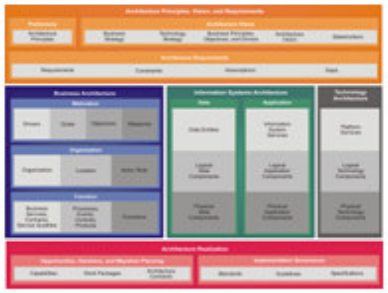
Views on a shared model



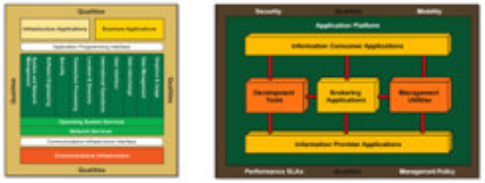
The TOGAF Components

ADM

Architecture Content Framework

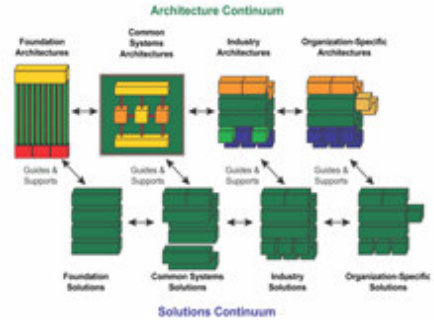


Reference Models

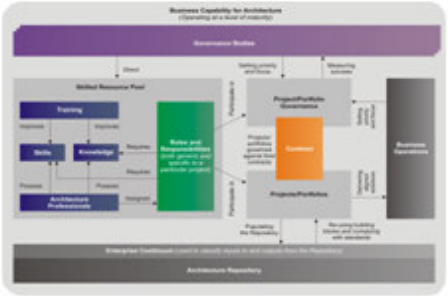


ADM Guidelines & Techniques

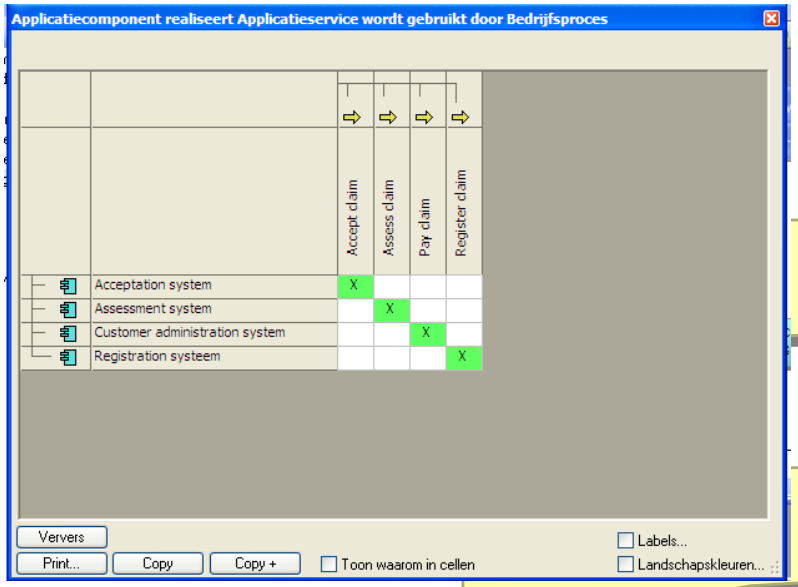
Enterprise Continuum

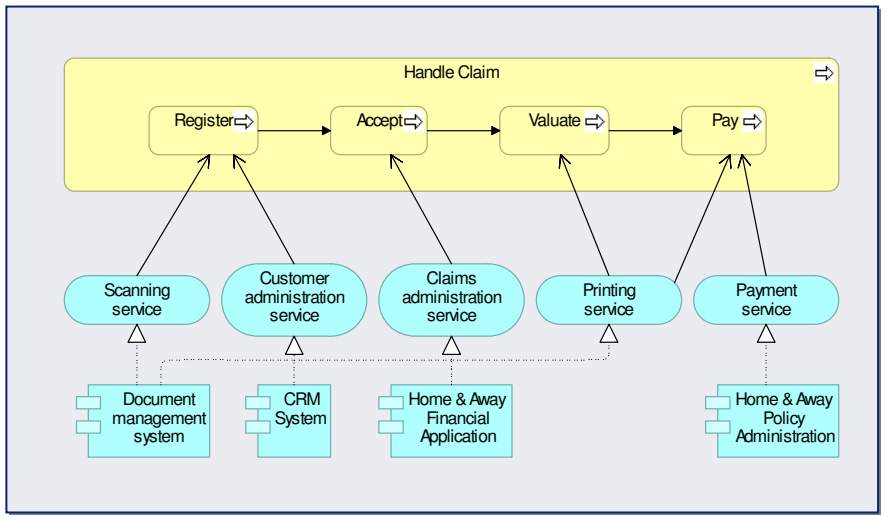


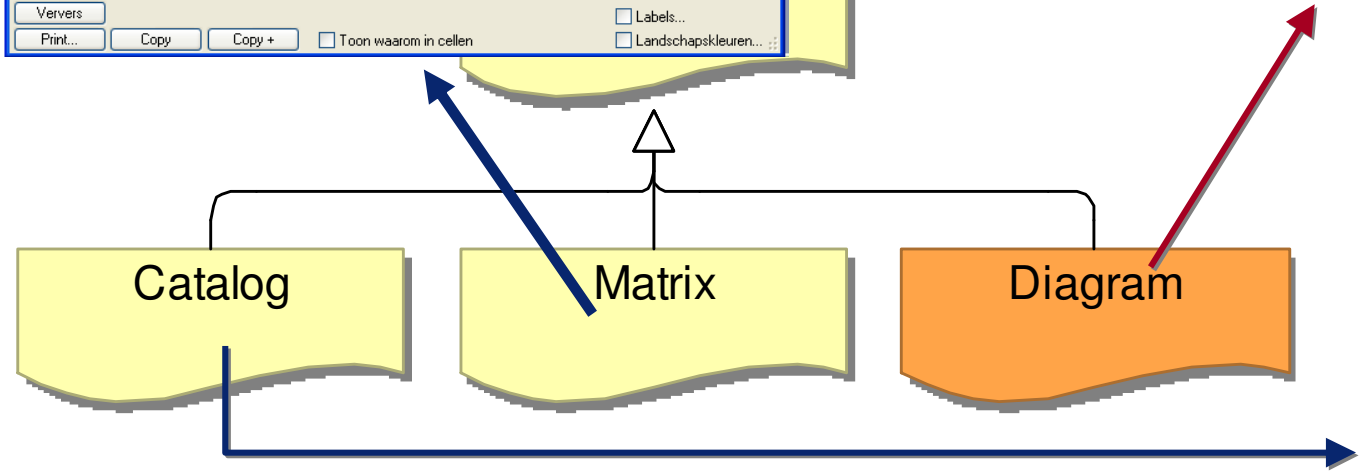
Architecture Capability Framework

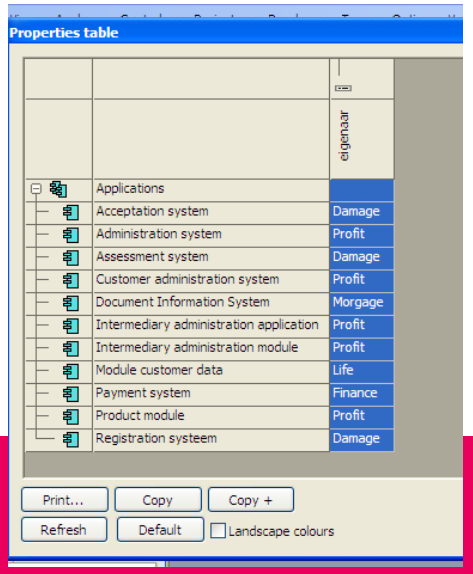


Deliverables and artifacts

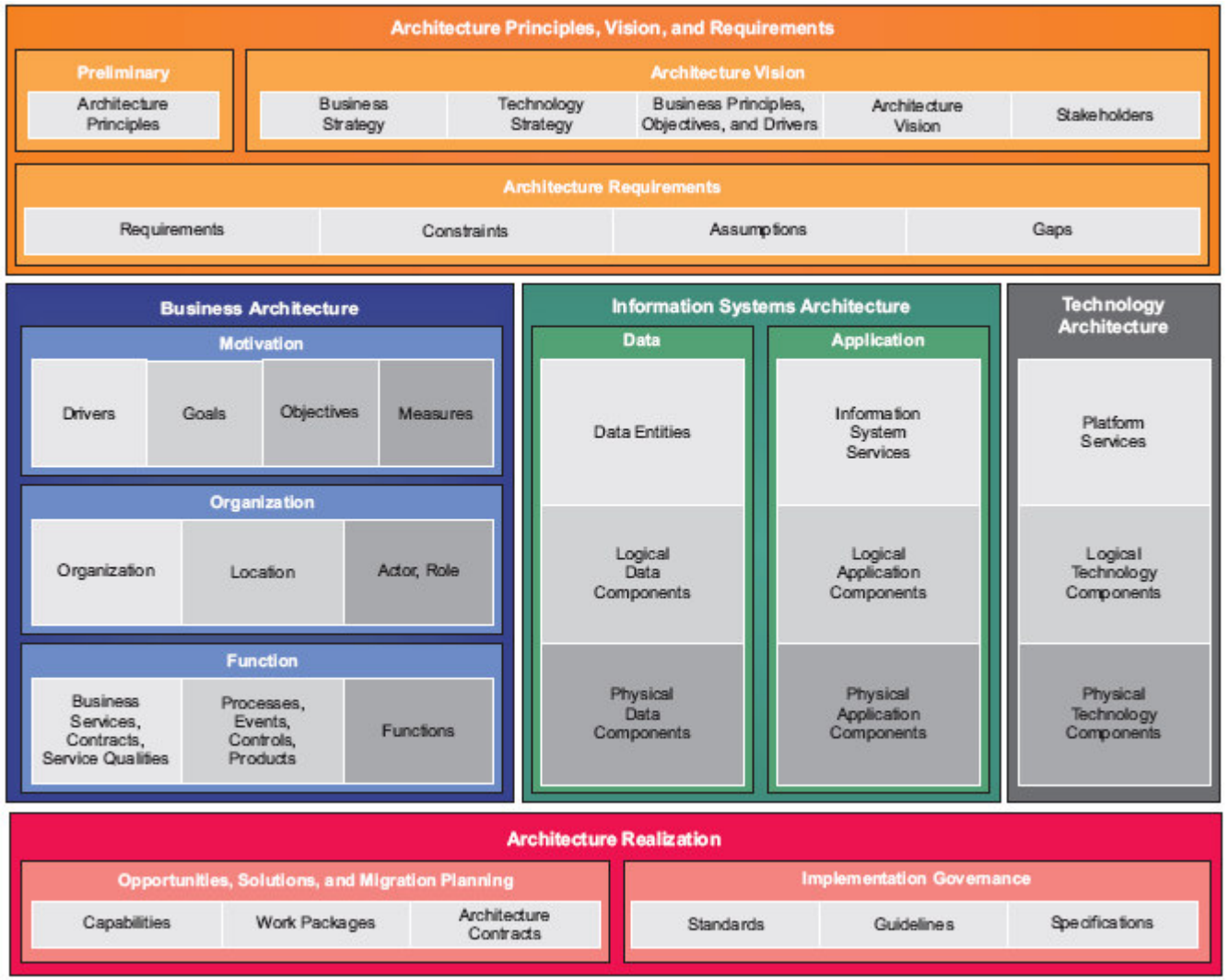




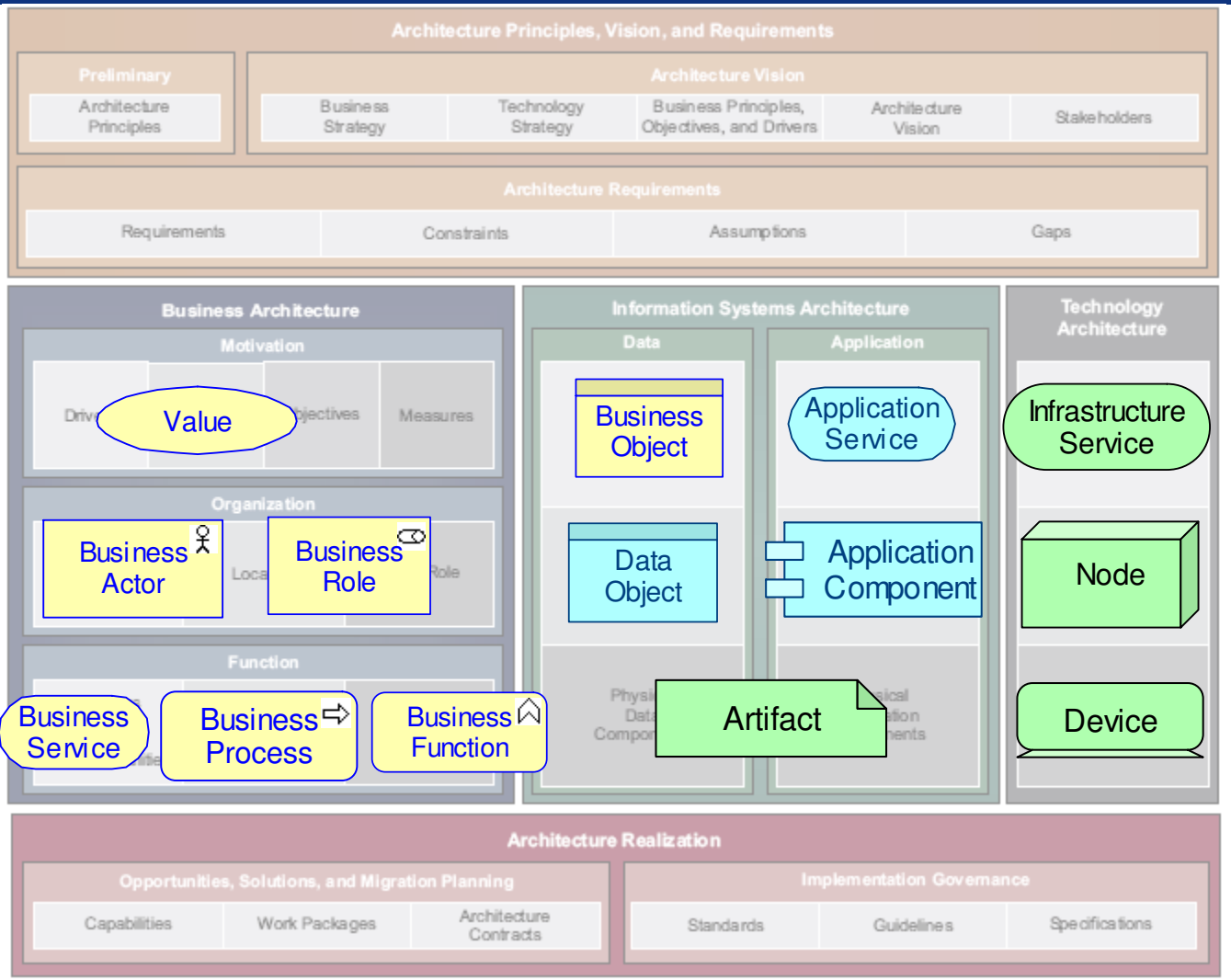




Content Metamodel

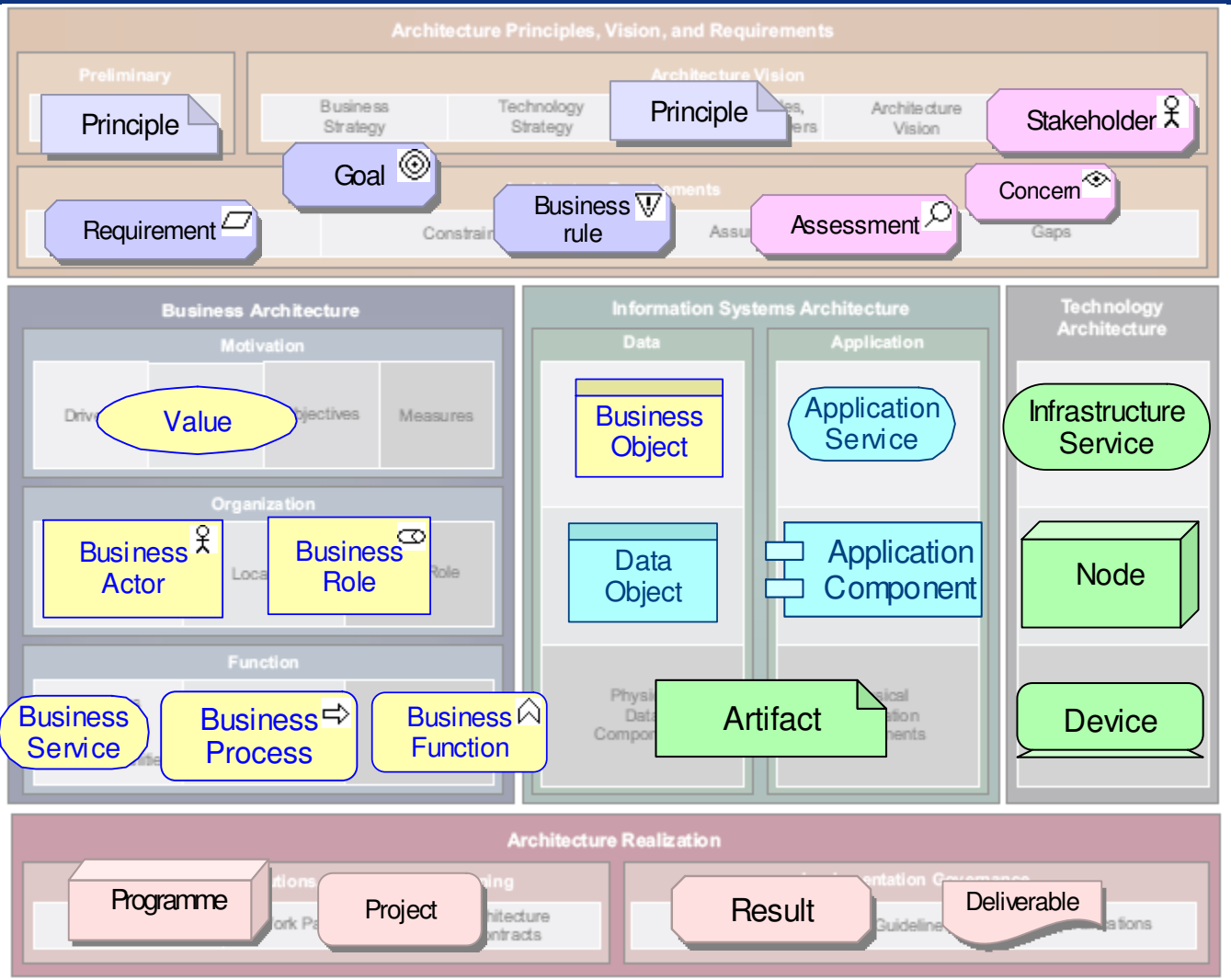


Content Metamodel and ArchiMate



ArchiMate 1.0 and purposed extensions

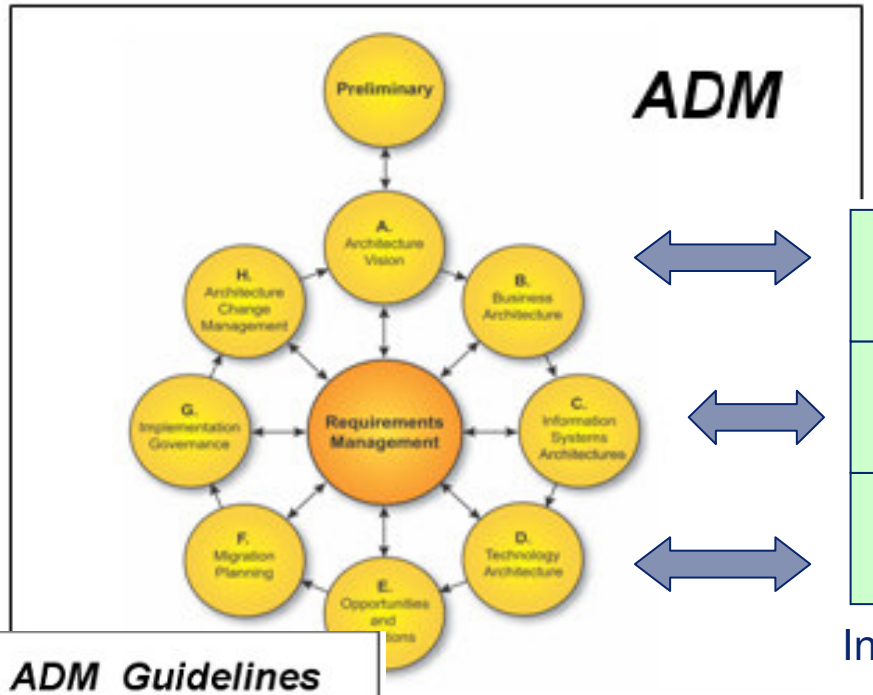
Ext. ARCHIMATE®

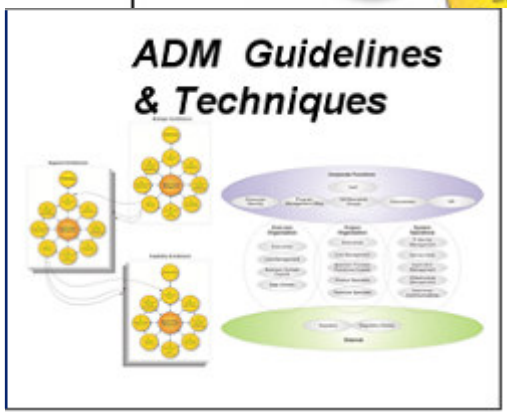


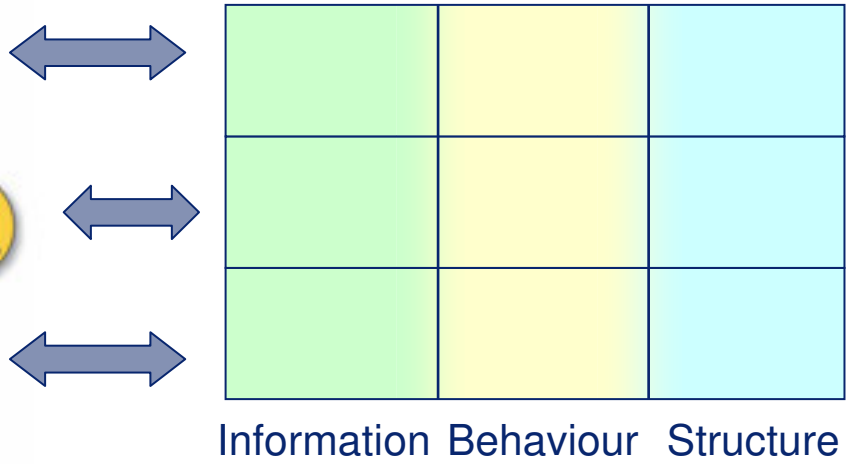
TOGAF ACF and ArchiMate

- ArchiMate provides a well-defined language, including graphical notation, covering the core of the ACF.
- With ArchiMate, relations between different architectural domains can also be modelled
- ArchiMate models form a basis for views, visualizations, and analysis
- Some concepts from the ACF are addressed as future extensions of the language

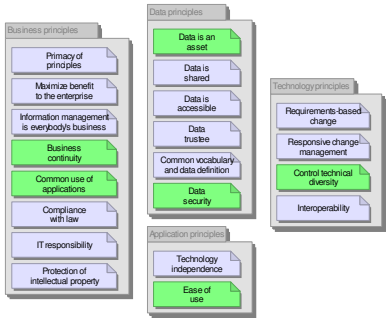
The ADM and ArchiMate

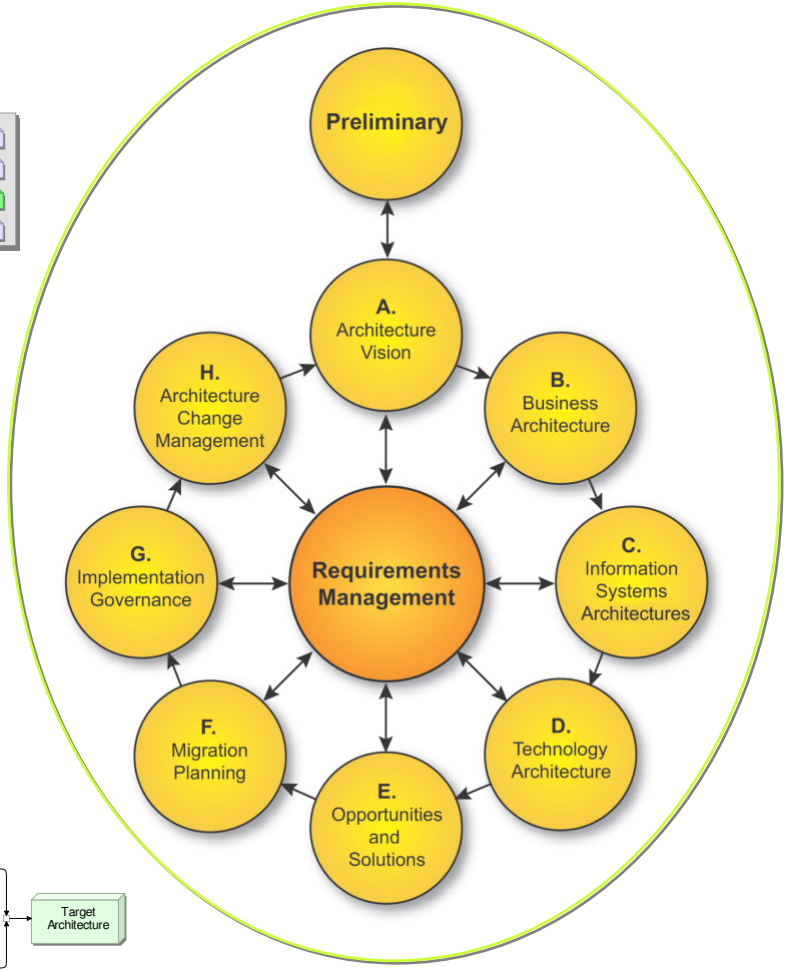


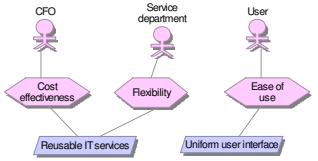


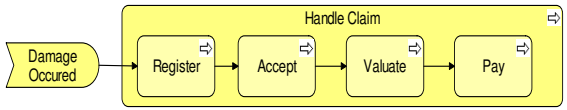


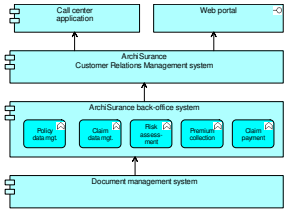
Case study: Models throughout the ADM

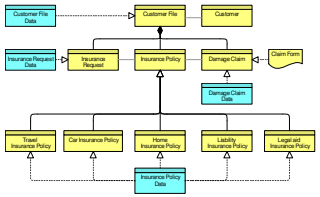


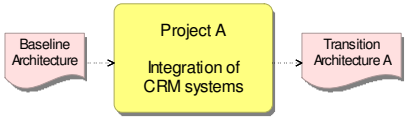


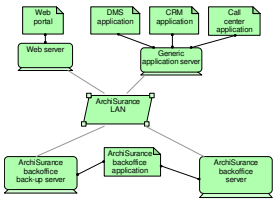


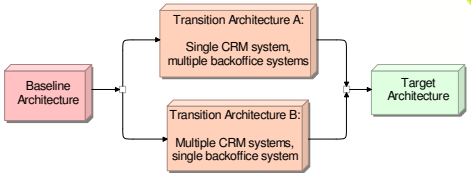












Case study introduction: ArchiSurance

ArchiSurance: a 3-company merger

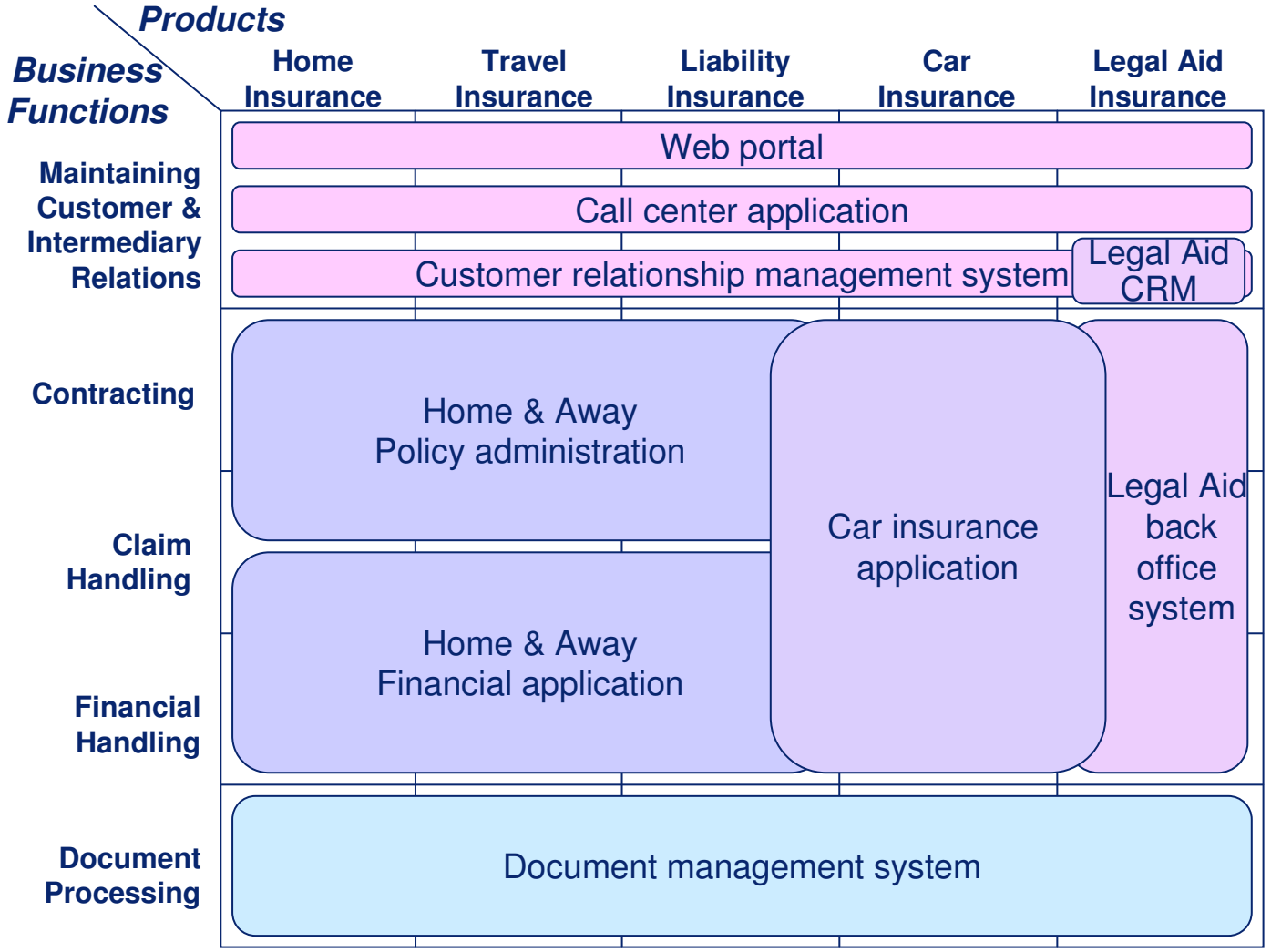
ArchiSurance Home & Travel insurances

PRO-FIT Car insurances

LegallyYours Legal Aid insurances

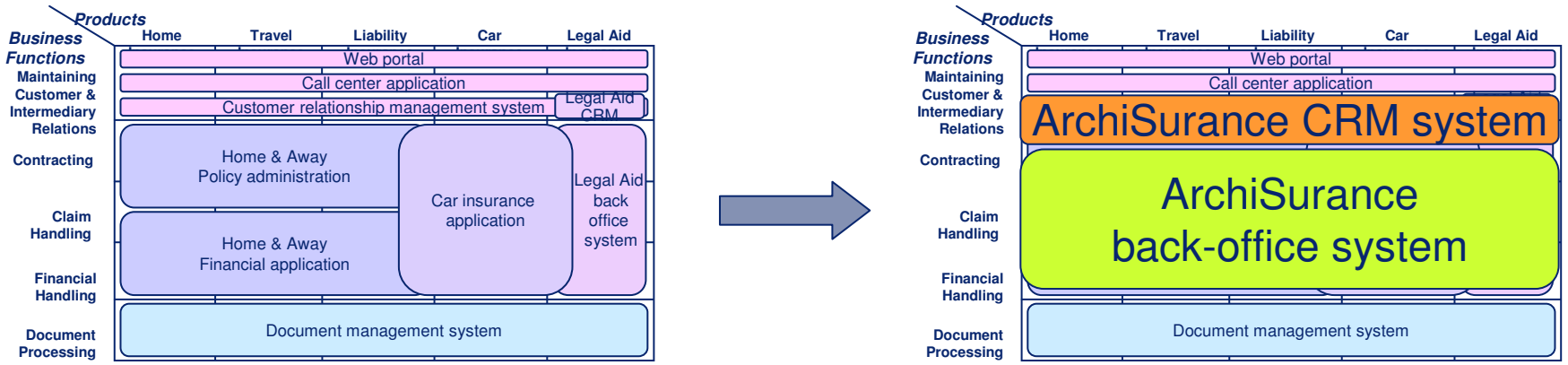
The "new" ArchiSurance

Main IT systems of ArchiSurance



Proposed change

- Develop a single back-office system (for policy administration and financial handling) to be used by the three back-offices.
- This system will eventually replace:
  - The Policy administration system and Financial application of the Home & Away back-office
  - The Car insurance application of the Car back-office
  - The Legal aid back-office system
- The separate CRM system of Legal Aid will also disappear



Architecture principles

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Business principles

- Primacy of principles
- Maximize benefit to the enterprise
- Information management is everybody's business
- Business continuity
- Common use of applications
- Compliance with law
- IT responsibility
- Protection of intellectual property

Data principles

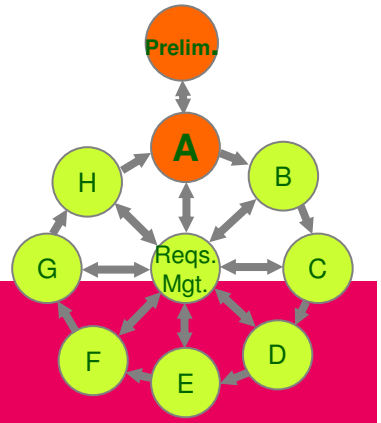
- Data is an asset
- Data is shared
- Data is accessible
- Data trustee
- Common vocabulary and data definition
- Data security

Application principles

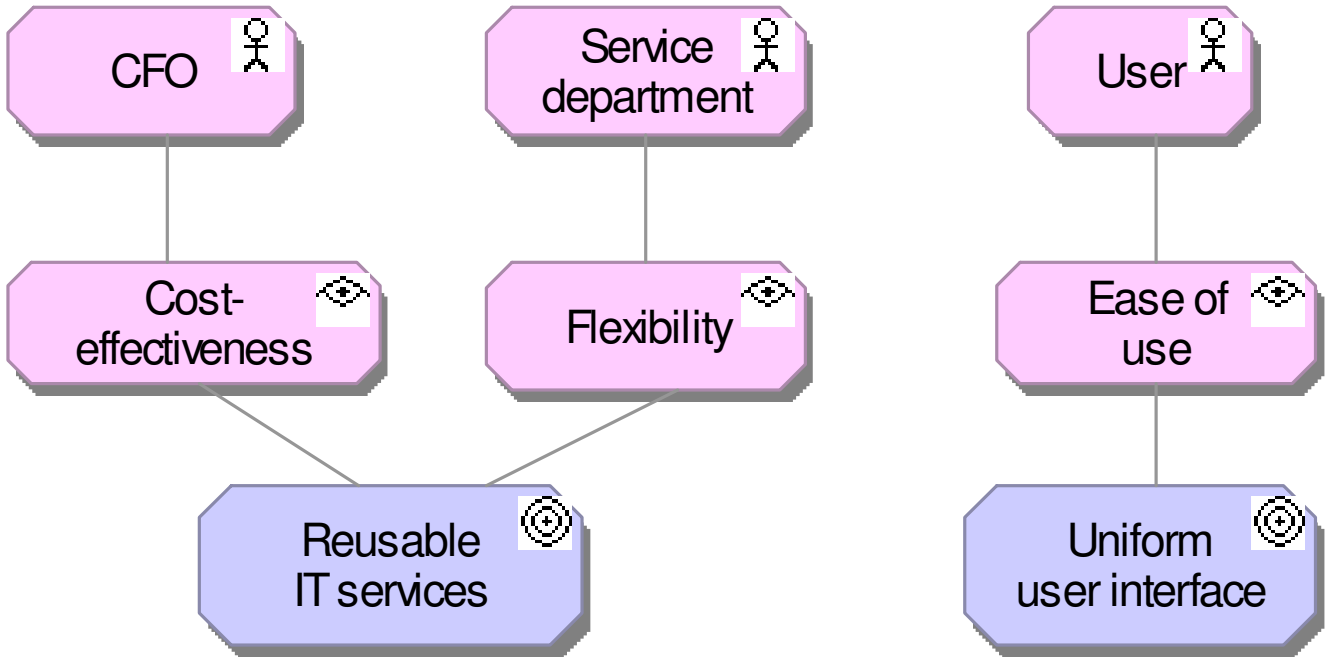
- Technology independence
- Ease of use

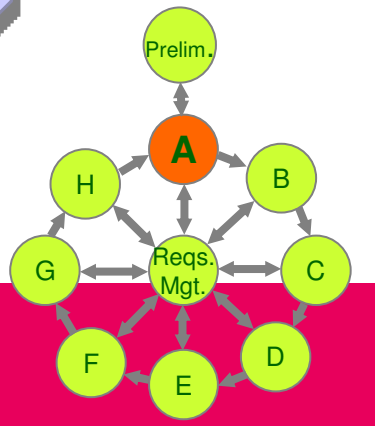
Technology principles

- Requirements-based change
- Responsive change management
- Control technical diversity
- Interoperability



Stakeholders, concerns and business goals





Architecture Vision

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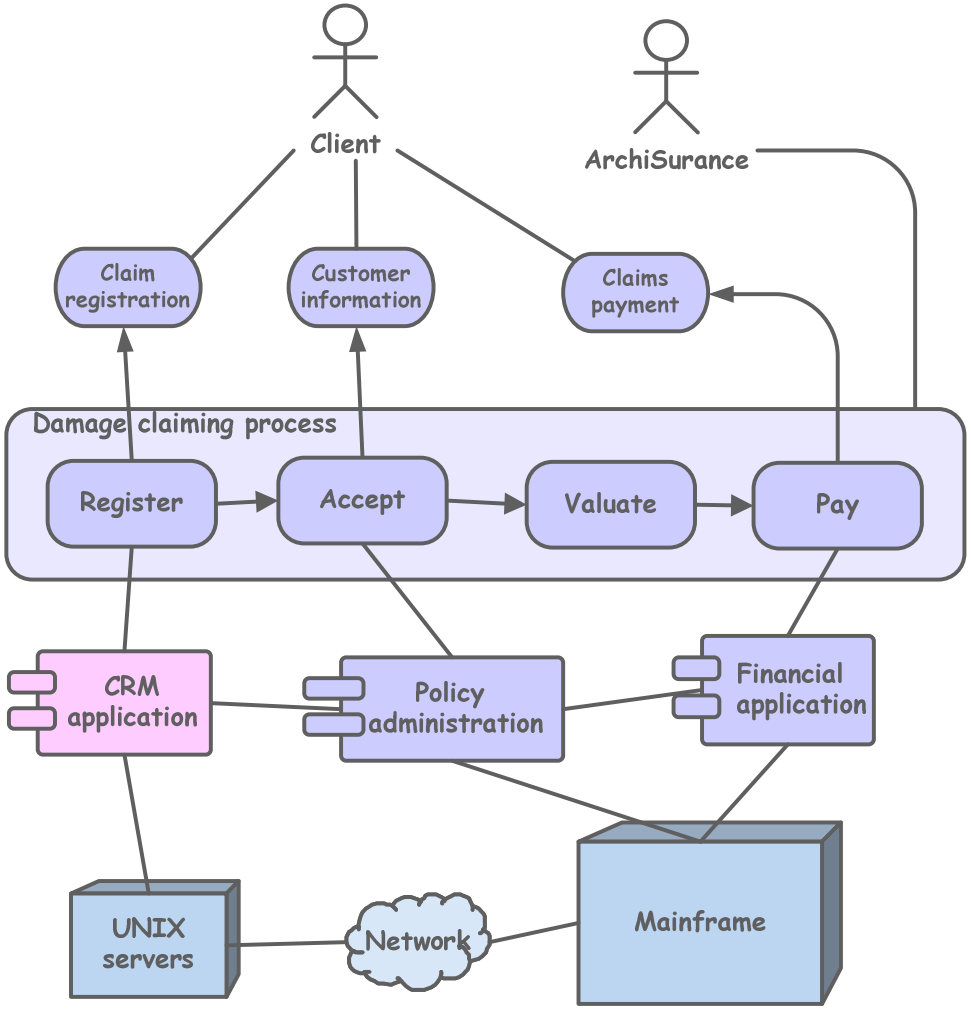
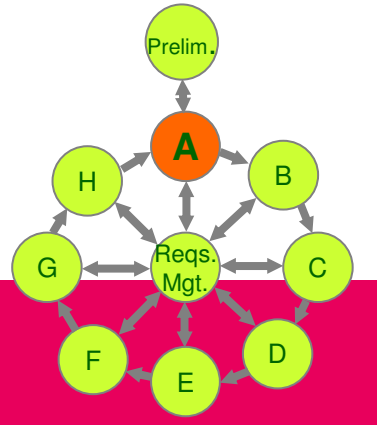
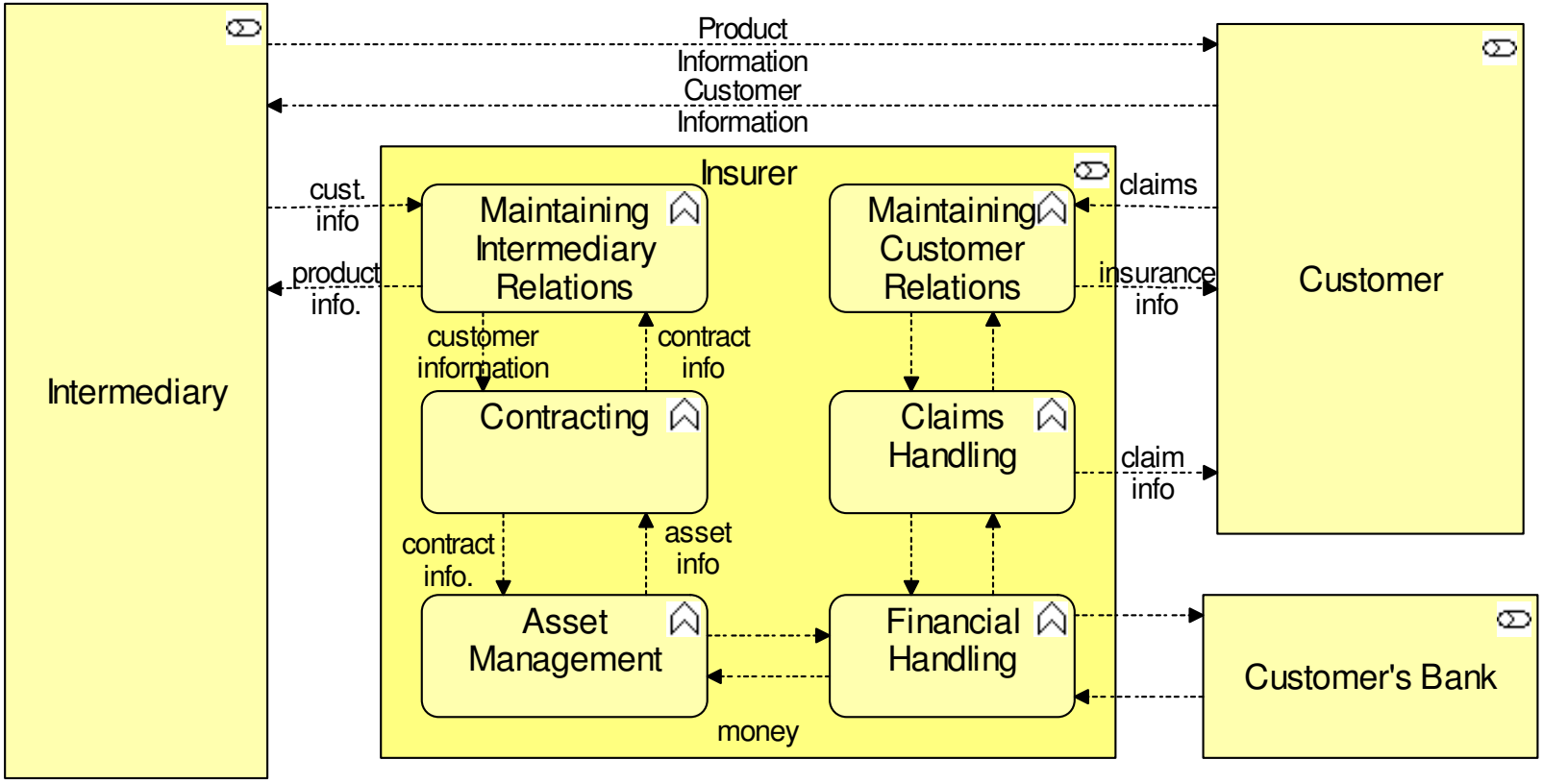
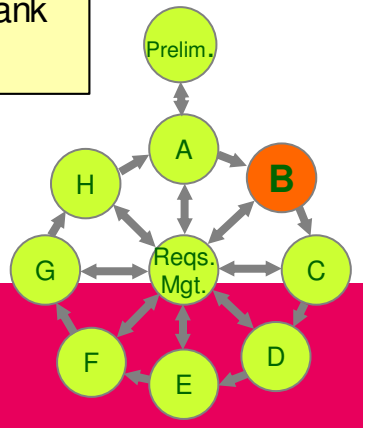




Baseline & target Business Architecture: Business Roles & Functions





Baseline & target Business Architecture: Business Processes

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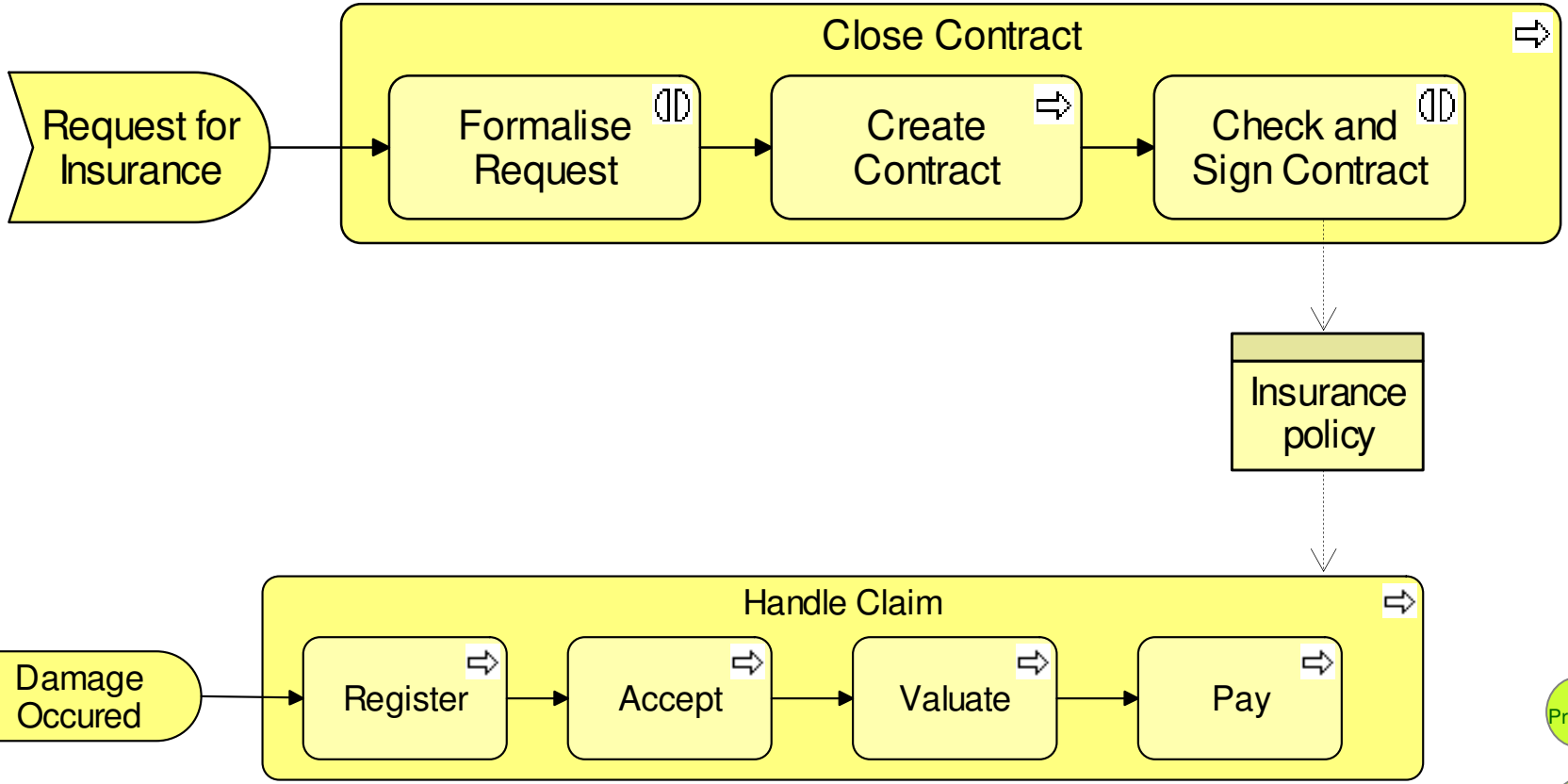
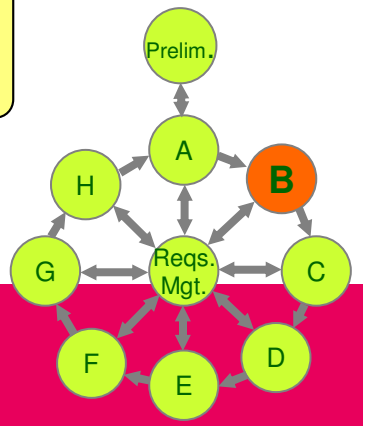
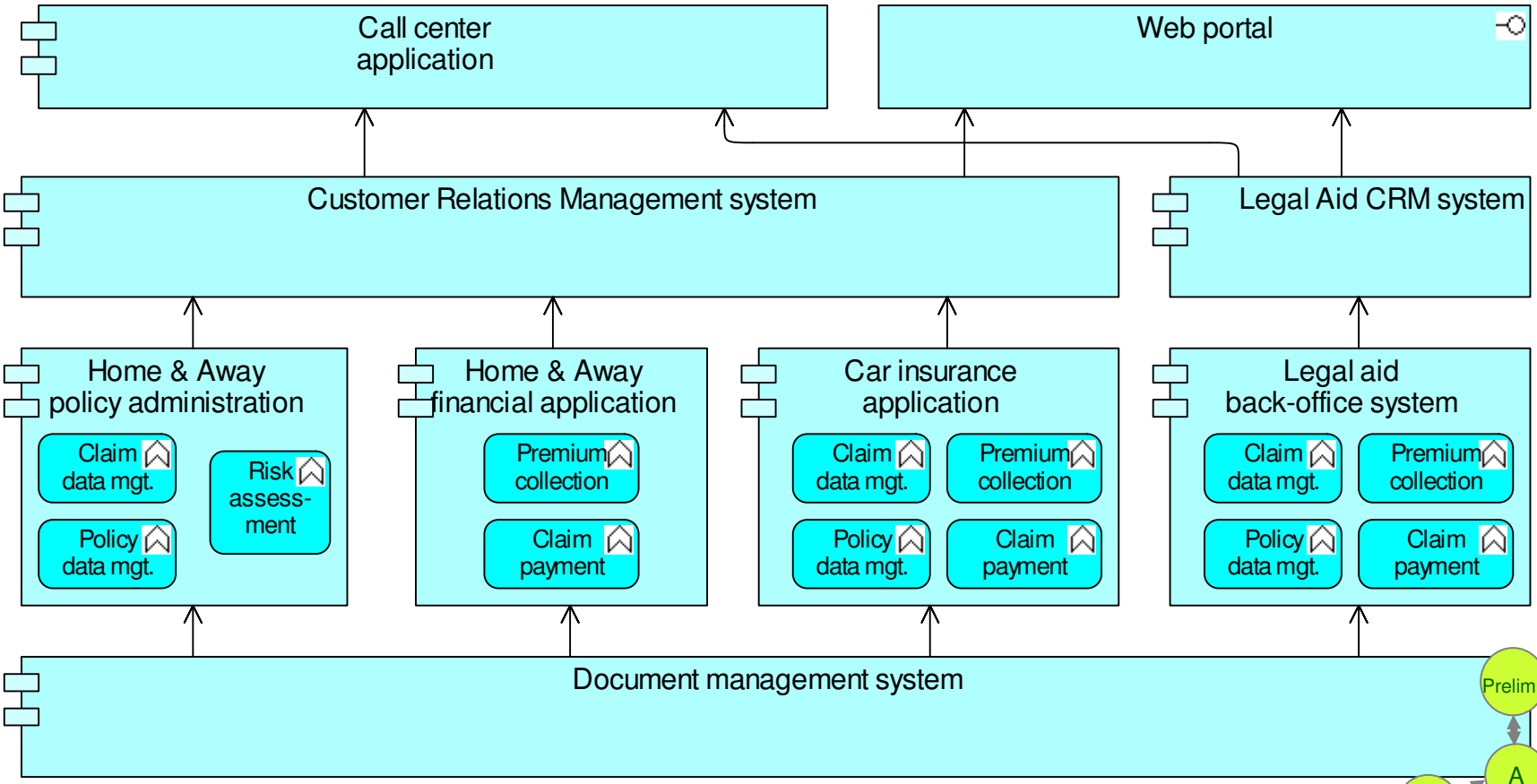
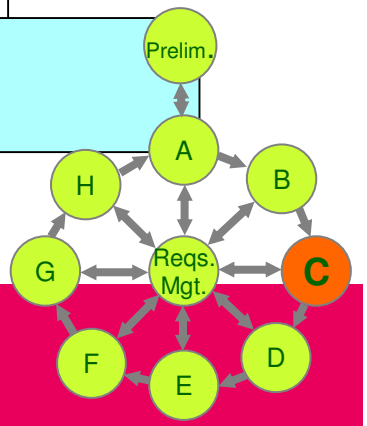


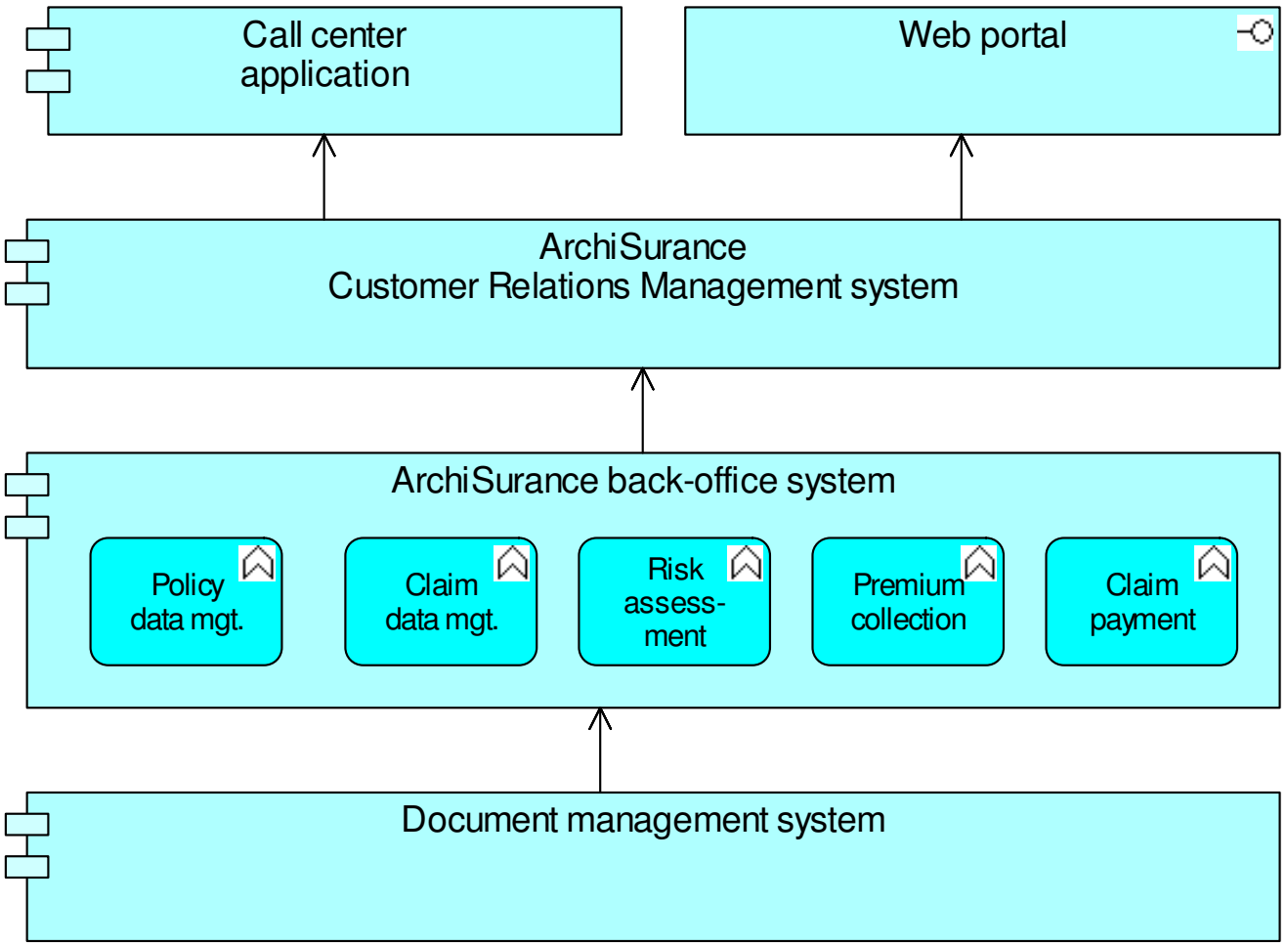


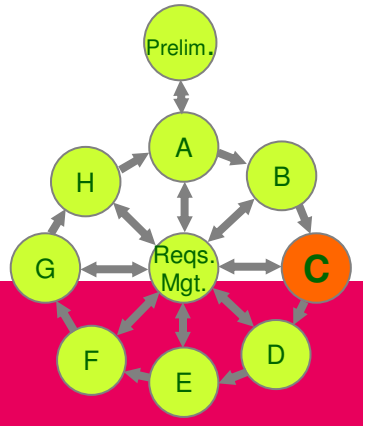
Baseline application architecture



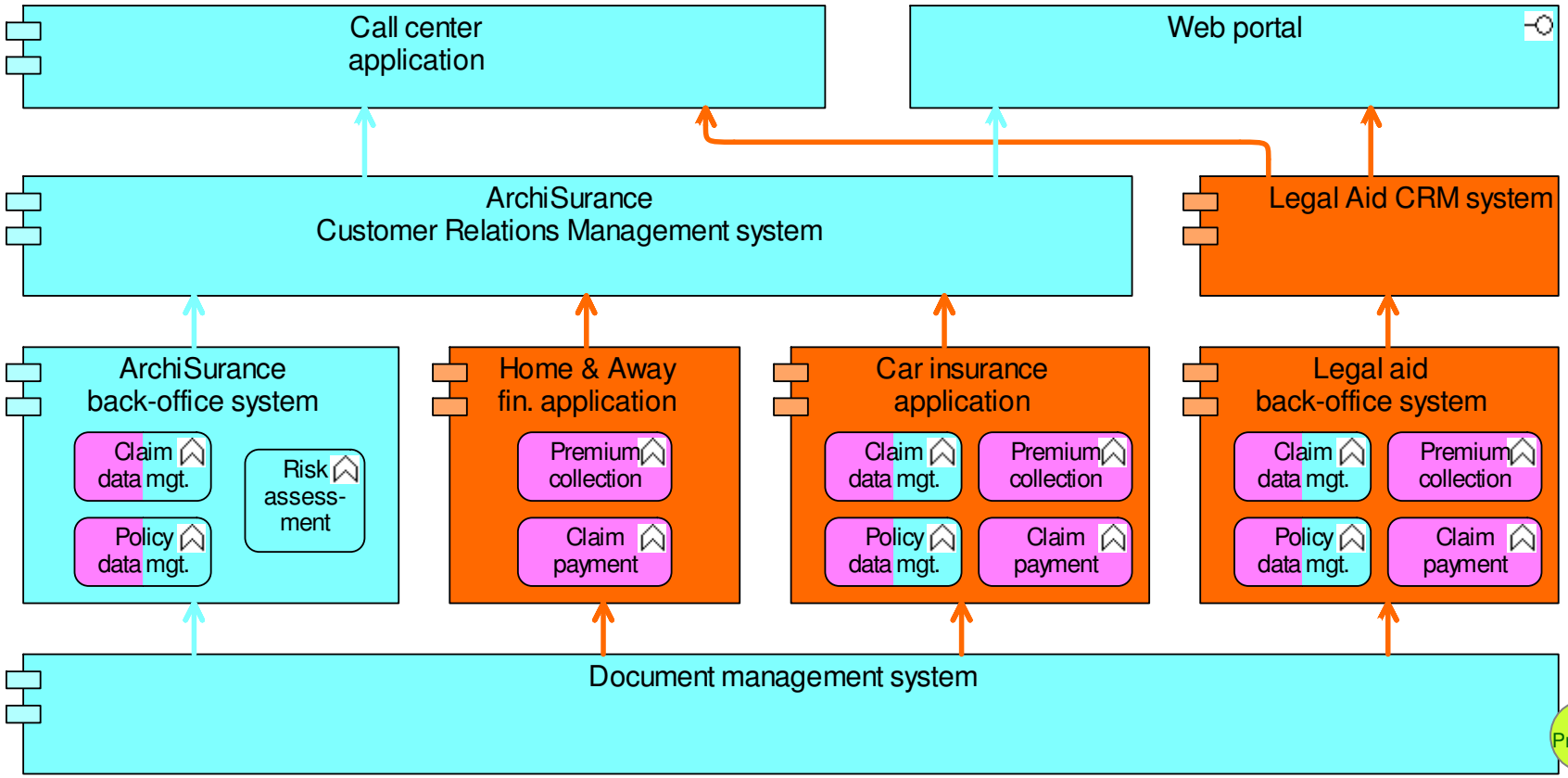


Target application architecture

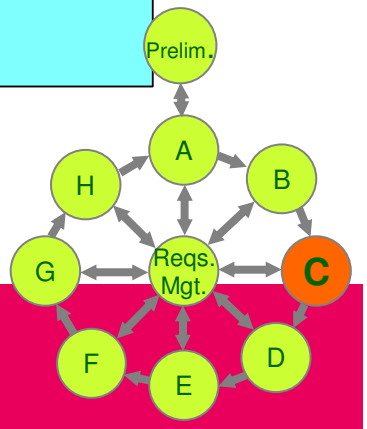




Gap analysis application architecture



both in Baseline and Target application architecture
only in Baseline application architecture
other parent



Business-application alignment

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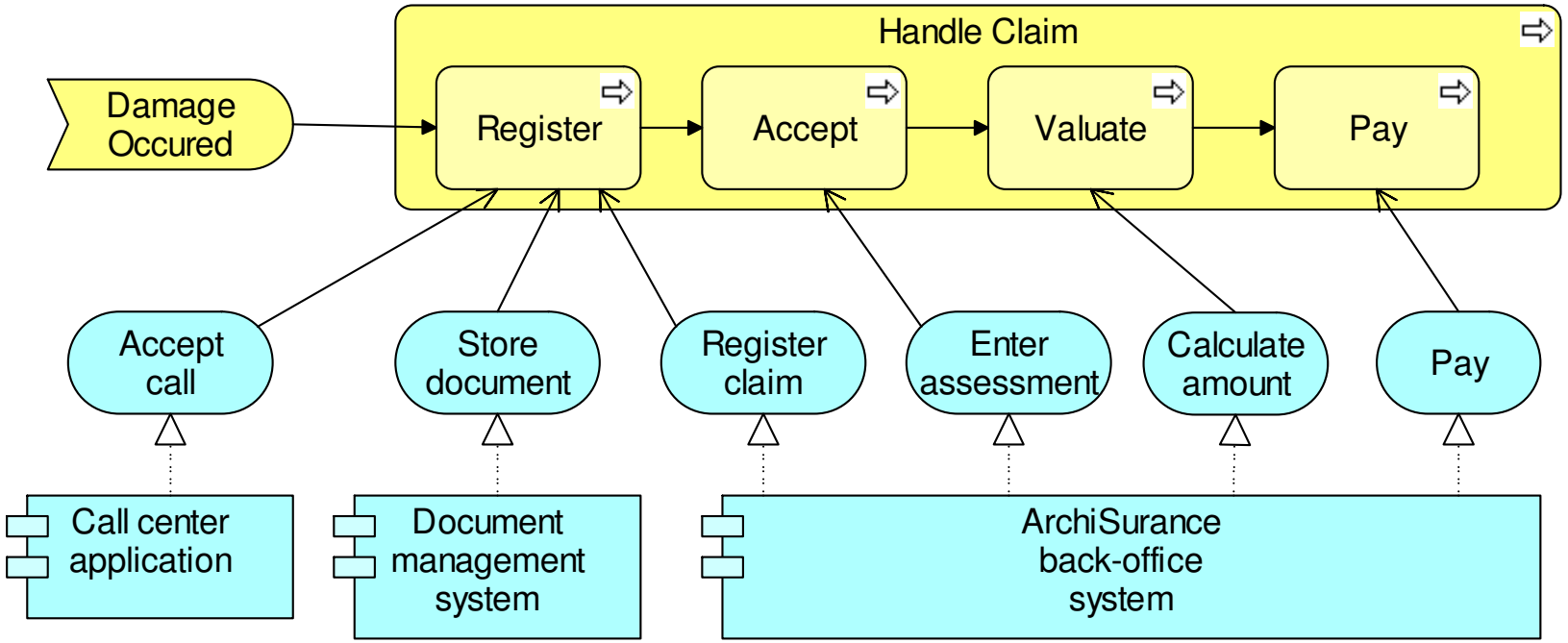
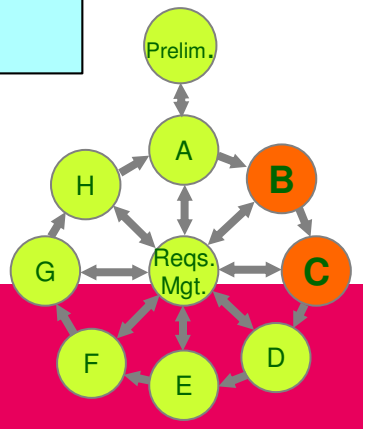
(Fragment, for the target architecture)





Baseline & target data architecture

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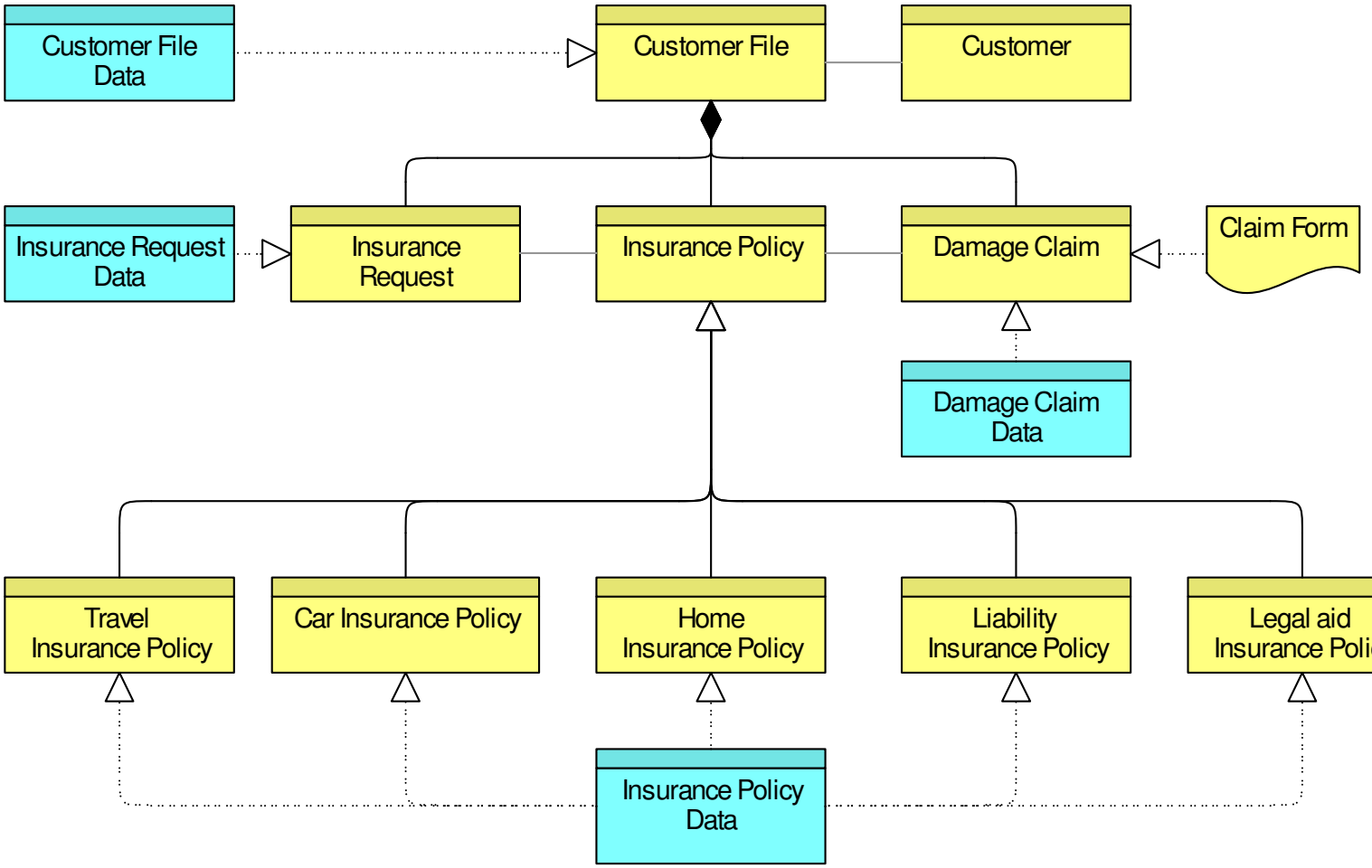
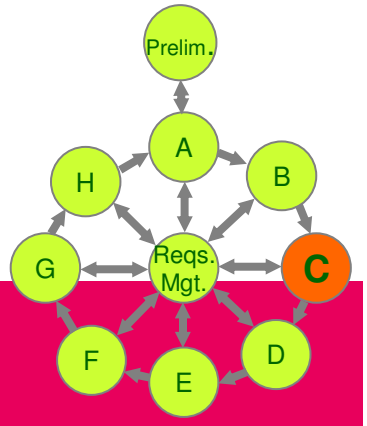
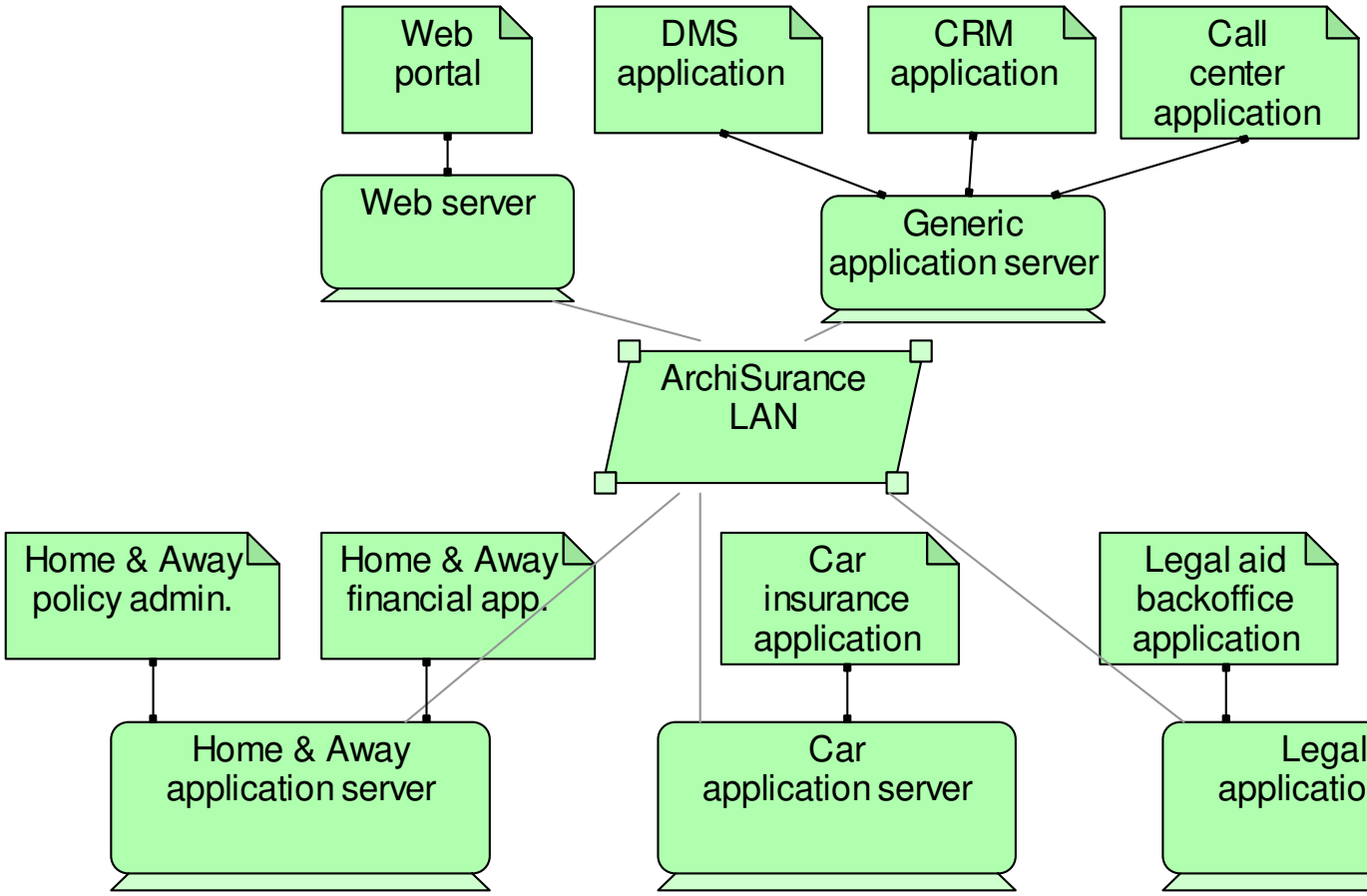
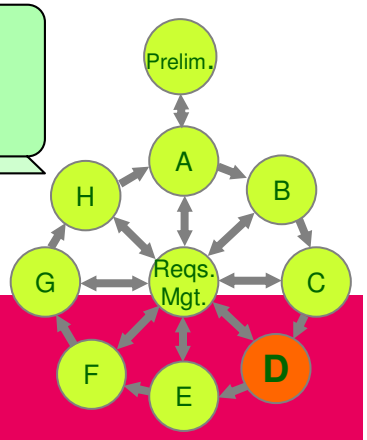


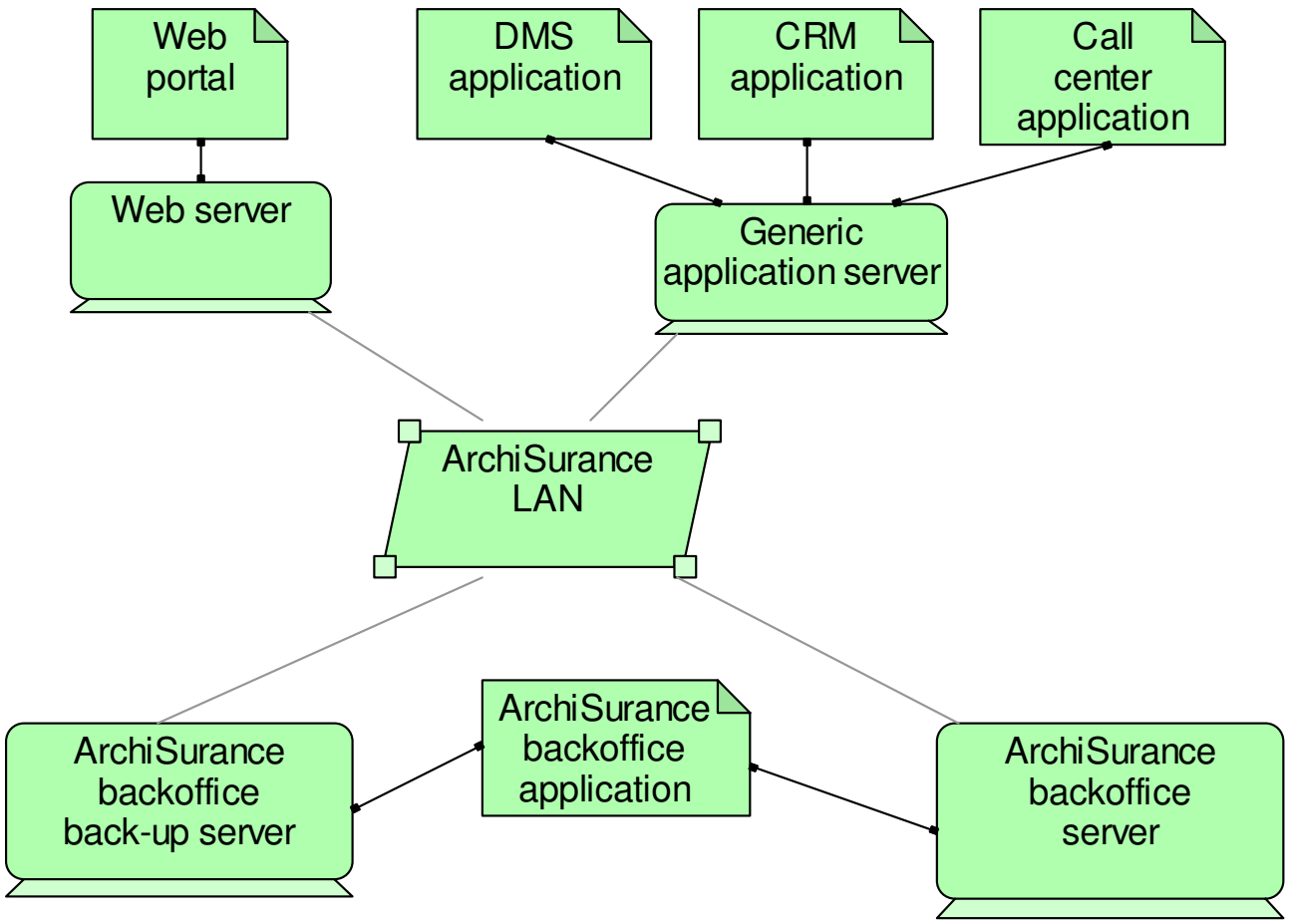


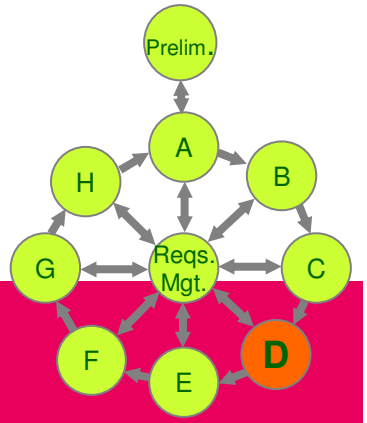
Baseline technology architecture



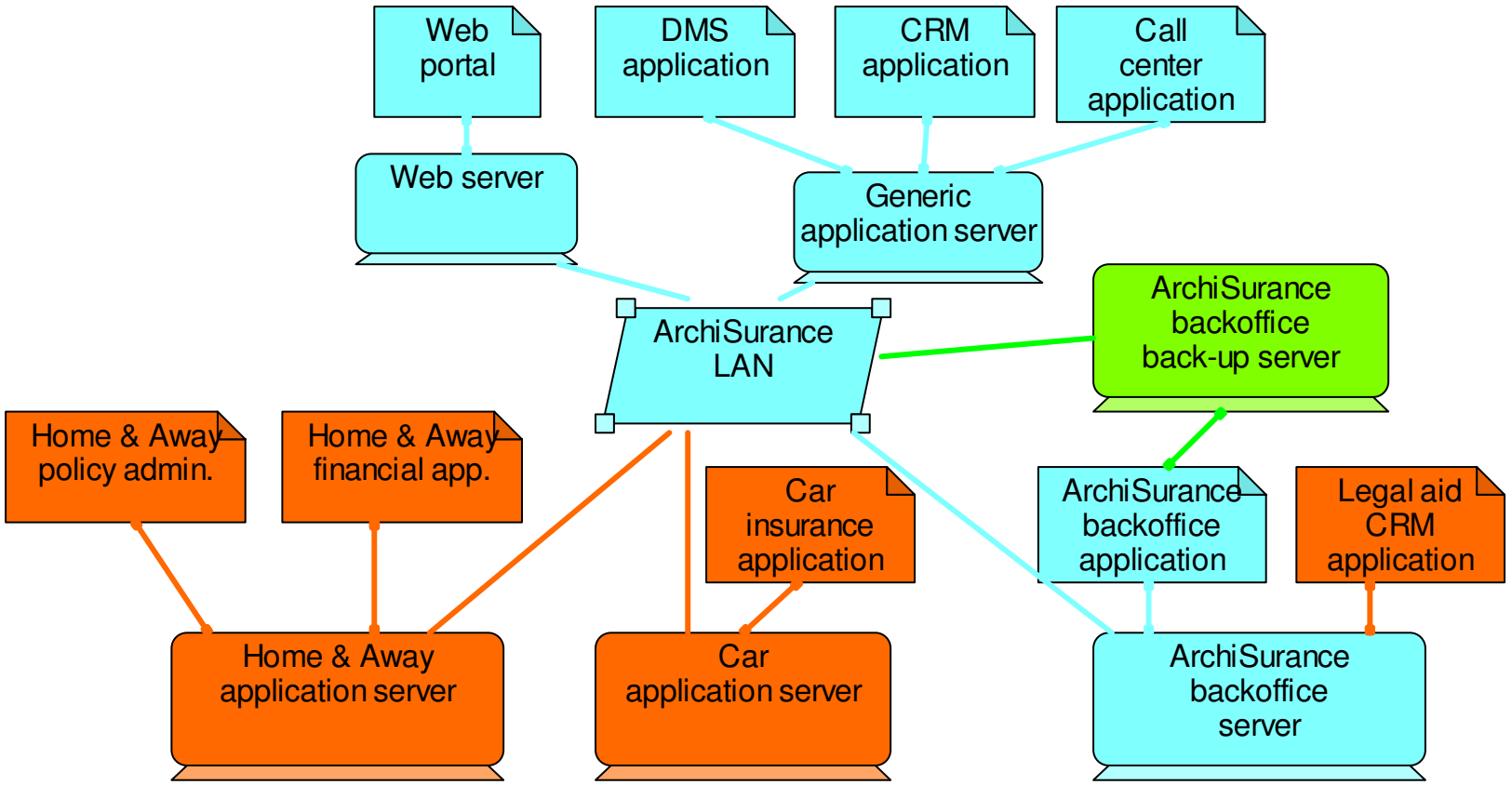


Target technology architecture

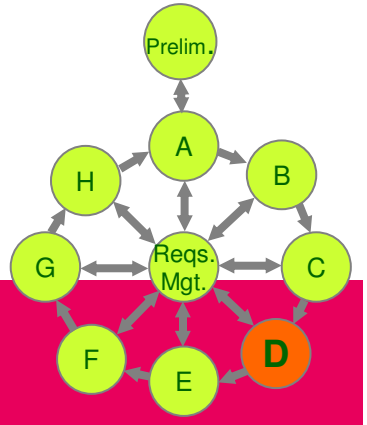




Gap analysis technology architecture

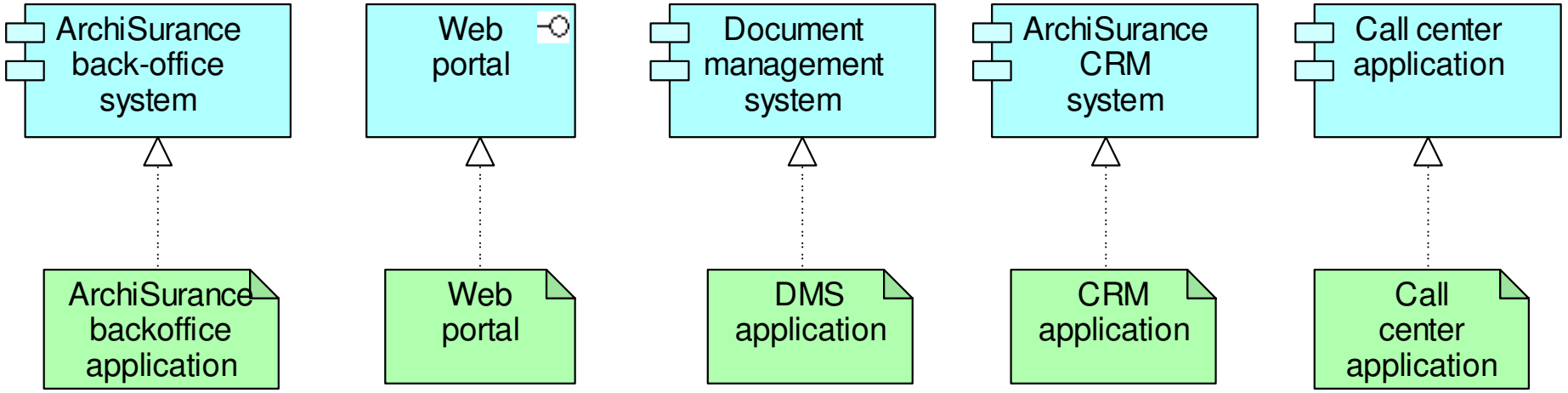


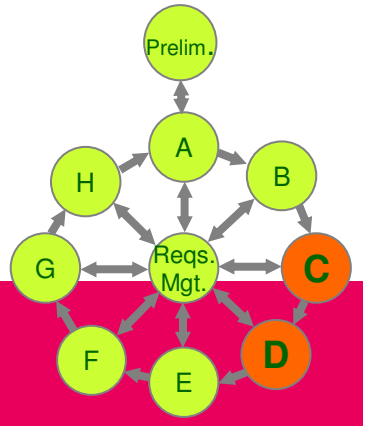
both in Baseline and Target application architecture
only in Baseline application architecture
only in Target application architecture



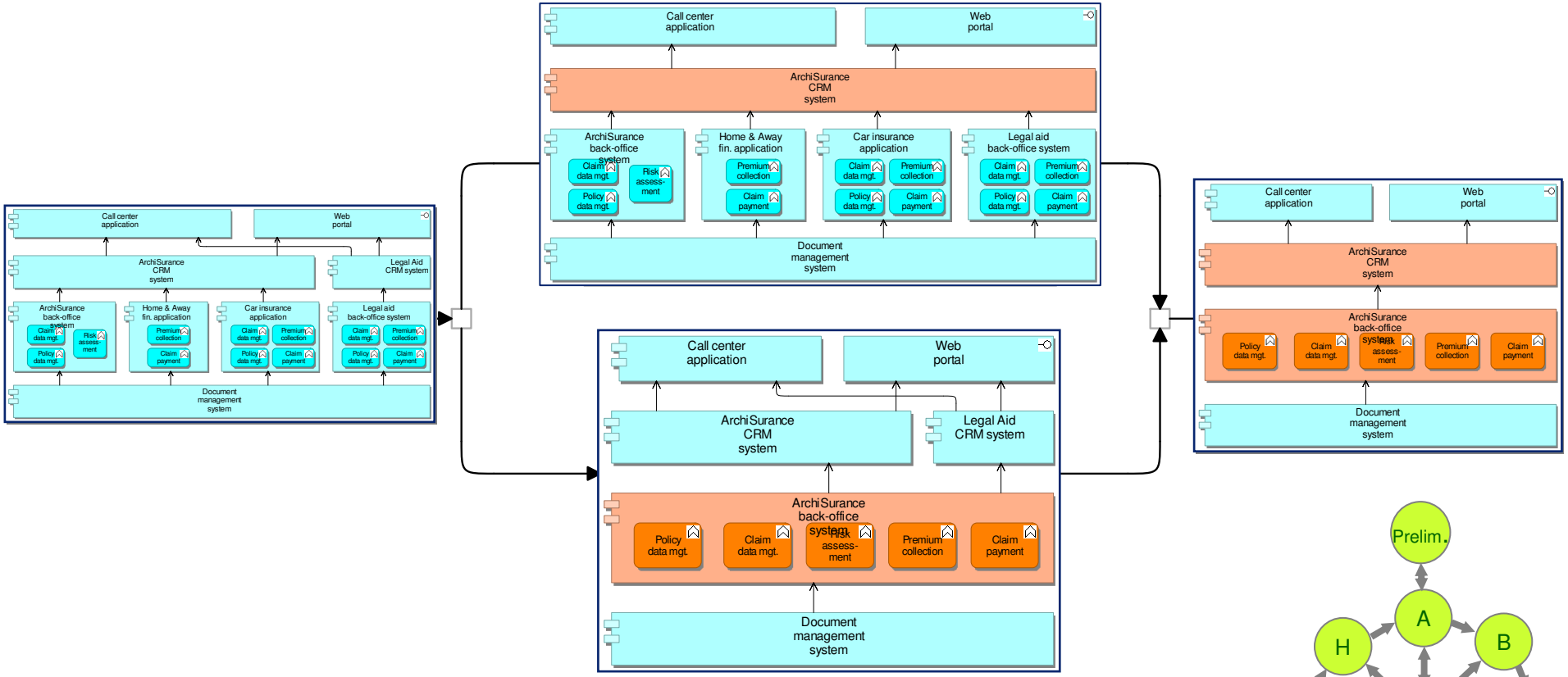
Application-technology alignment

(For the target architecture)

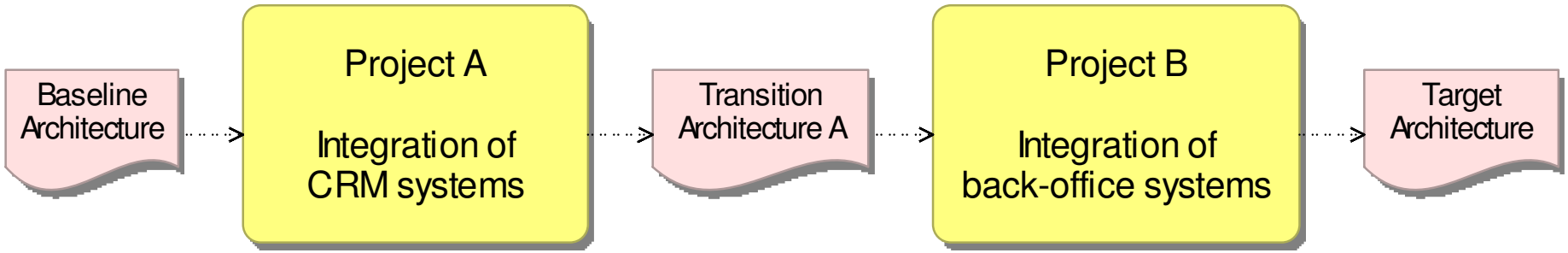


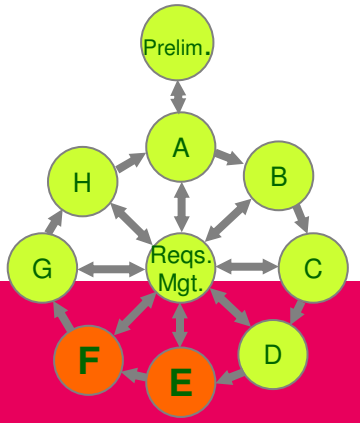


Transition architectures

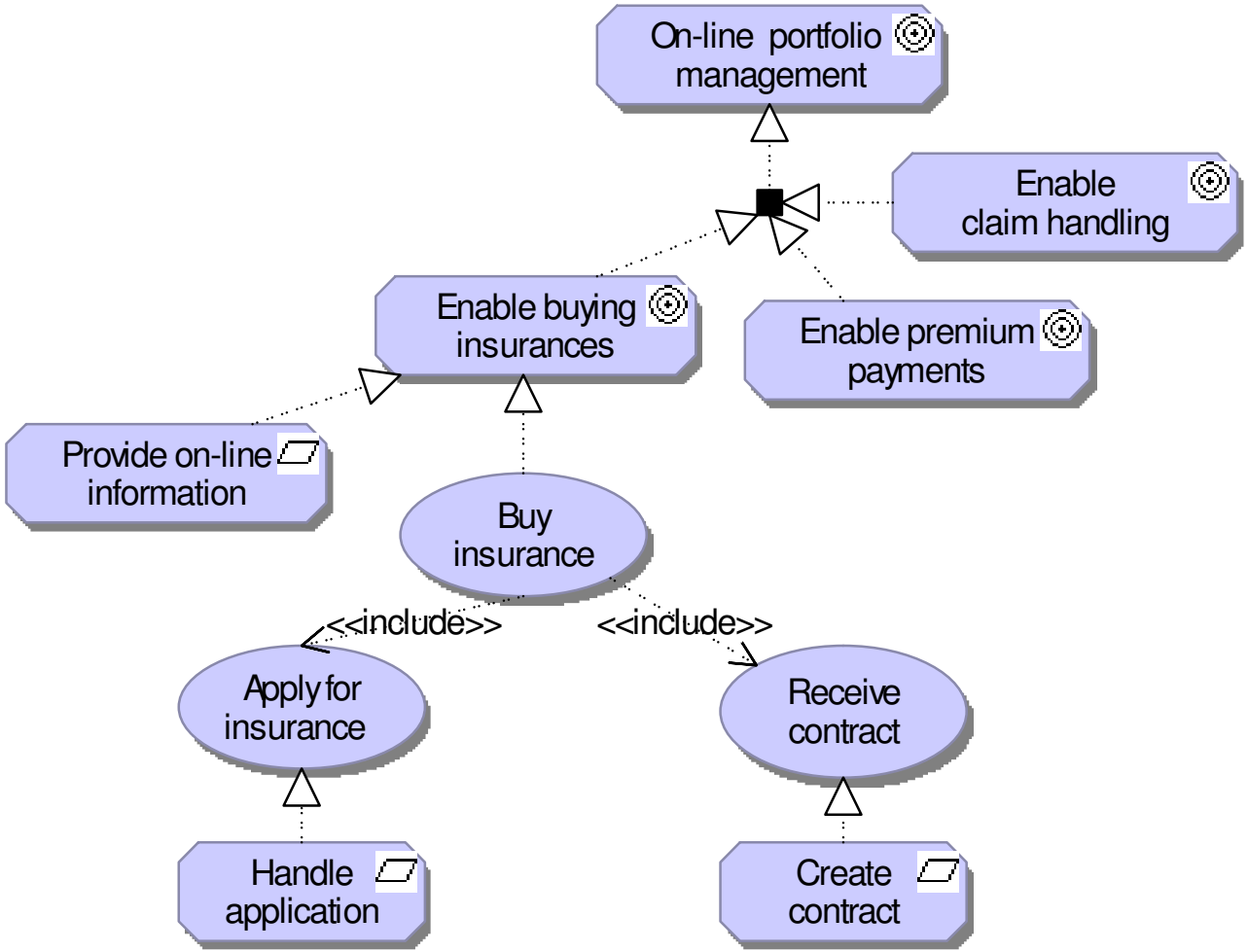


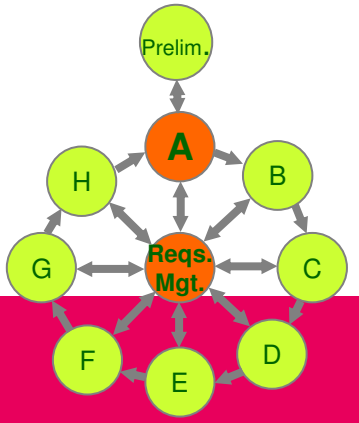
Projects


Baseline Architecture
Project A
Integration of CRM systems
Transition Architecture A
Project B
Integration of back-office systems
Target Architecture


Prelim.
A
B
C
D
E
F
G
H
Reqs. Mgt.

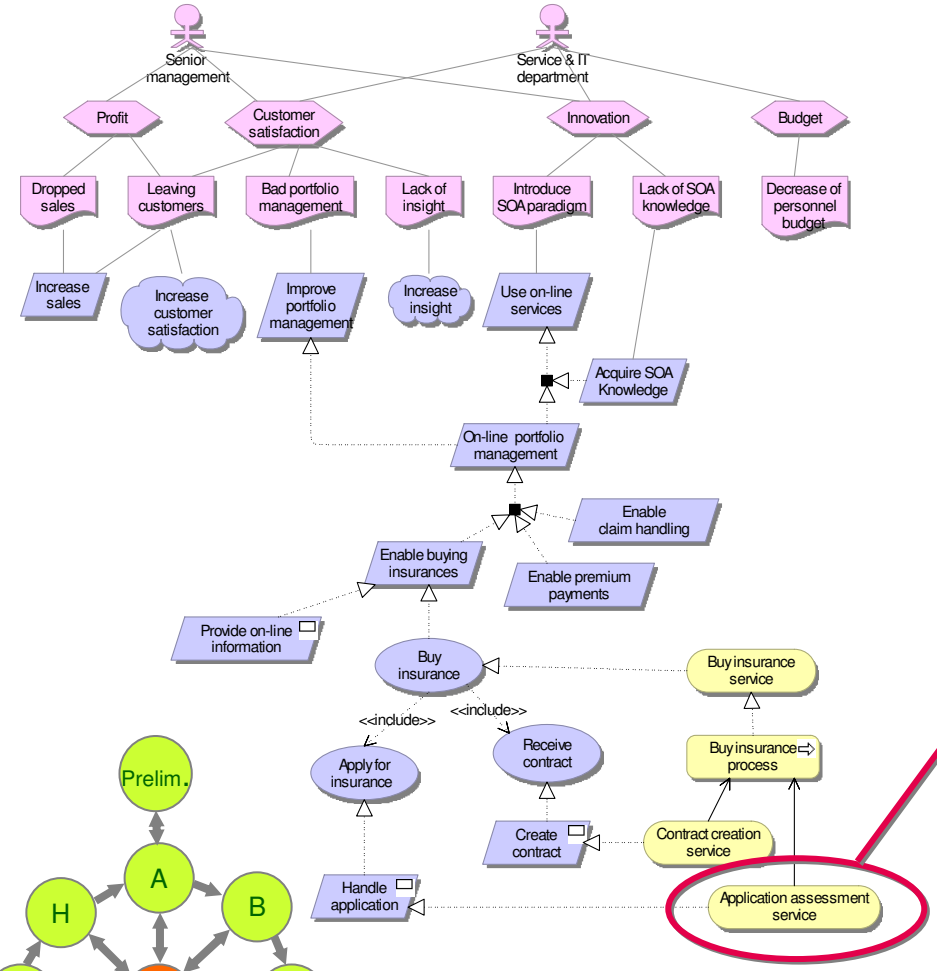
Requirements modelling

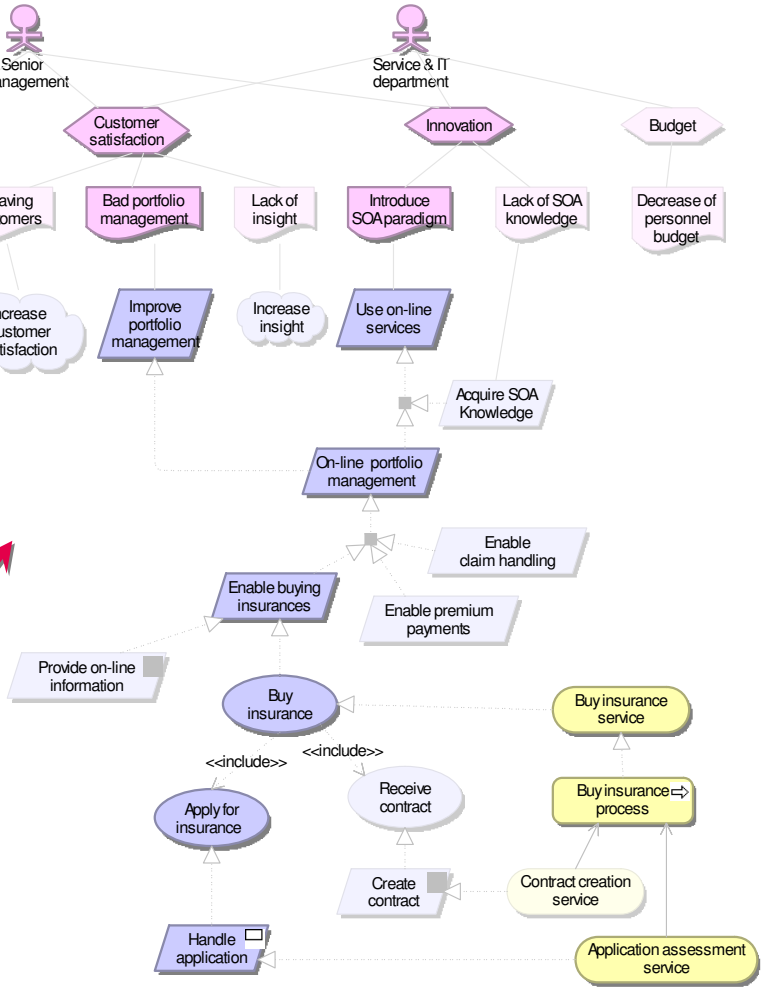




Requirements traceability

Ext. ARCHIMATE®

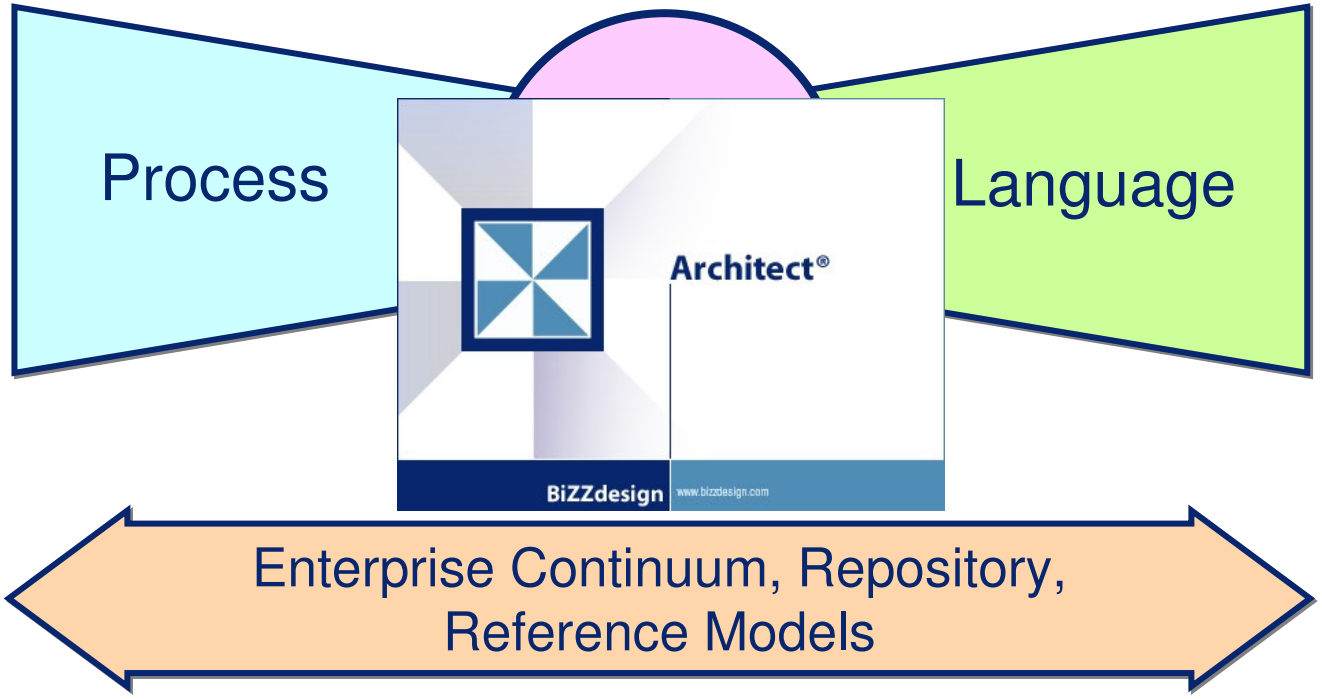




BiZZdesign www.bizzdesign.com

Some models

- Views are the connector between language and process
- How do we make those?



ArchiMate adding value to TOGAF

- Integrated, consistent and coherent modelling in various phases
- Not just the circles, but also the relations between those
- Supports the service paradigm explicit
- Concrete, visible results for various stakeholders can be generated from the repository
- Analyses (e.g. impact-of-change and gap) made easy
- Re-use models, maintain in one place

TOGAF 9 + ArchiMate 1 = Value 10

Gap analysis TOGAF and ArchiMate

- Supported by ArchiMate:
  - Business architecture
  - Application architecture
  - Data architecture
  - Technology architecture
  - Transition architectures
- With proposed extensions:
  - Architecture principles
  - Stakeholders, concerns and business goals
  - Projects and deliverables
  - Requirements

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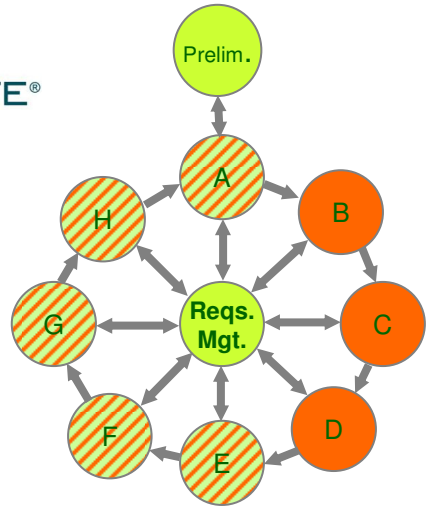
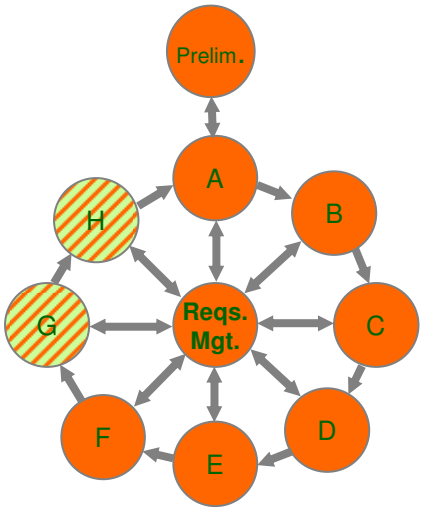


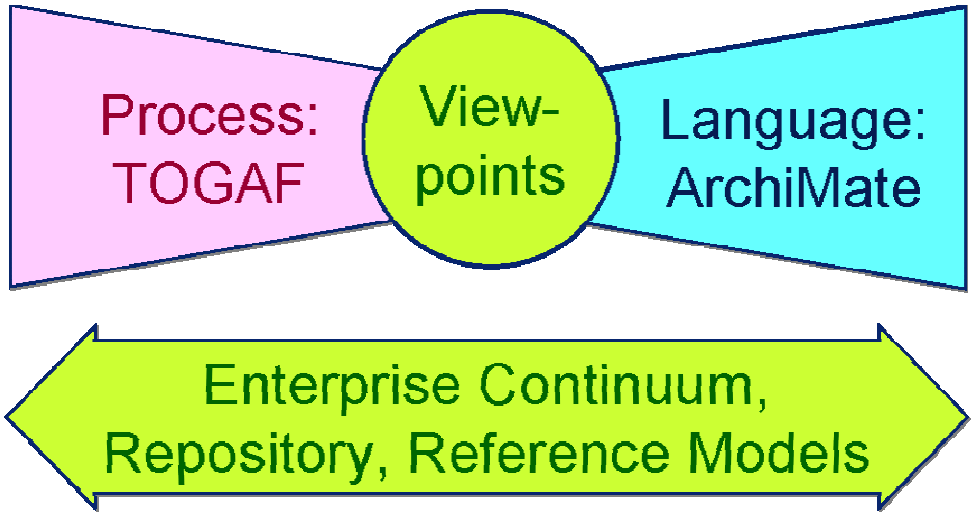
Ext. ARCHIMATE®



ArchiMate adding value to TOGAF

- Share the same definition of (Enterprise) Architecture
- Viewpoints as a central concept
- Both managed by The Open Group
- Good tool support is available
- Use of both is growing rapidly
- Gaps between ArchiMate and TOGAF will be closed
- Complement each other

THE Open GROUP
Making standards work®



Conclusion: TOGAF & ArchiMate

… together
with ArchiMate…

A perfect match!