
Case experiences using ArchiMate

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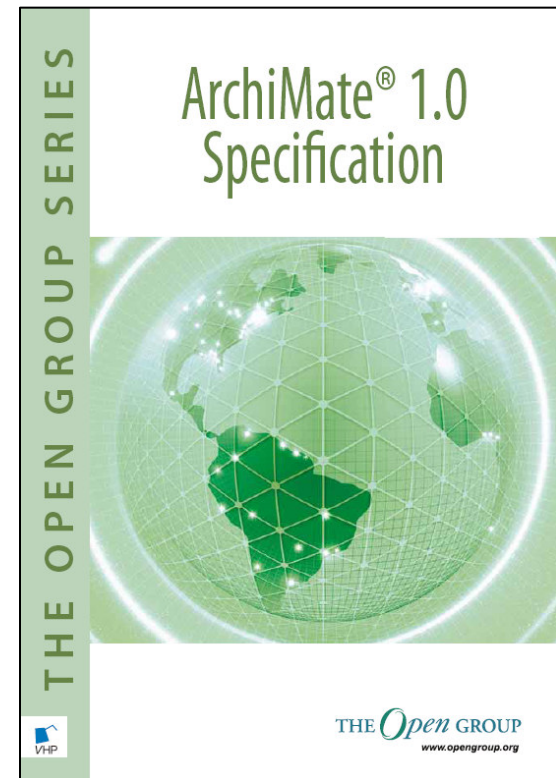


Agenda

- ❑ Why ArchiMate ?
- ❑ ArchiMate in financial services
- ❑ ArchiMate in Higher Education
- ❑ ArchiMate in Public sector

Thinking of enterprises

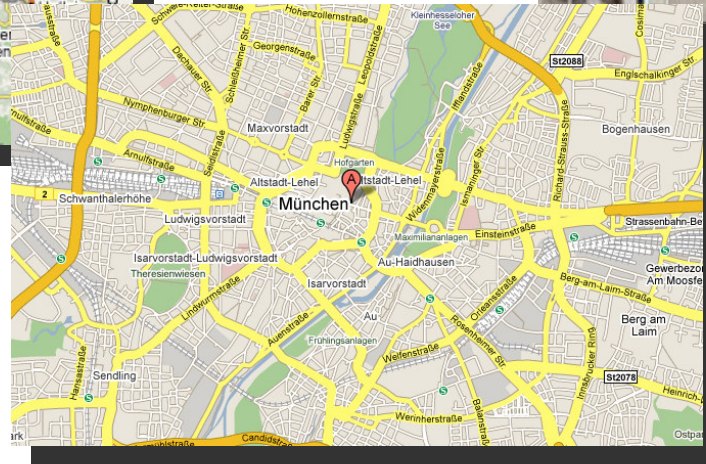
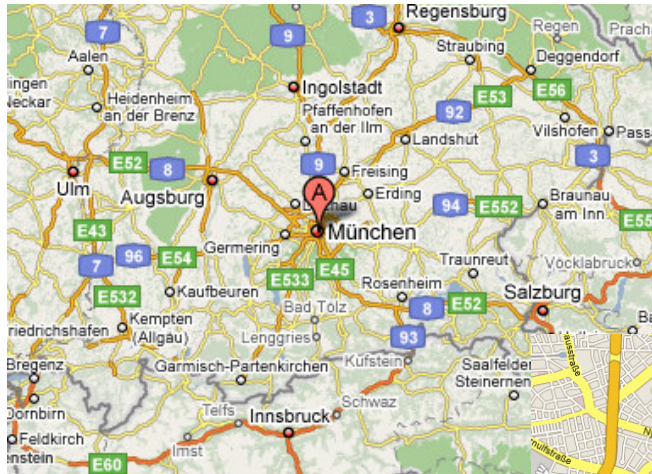
Why ArchiMate ?



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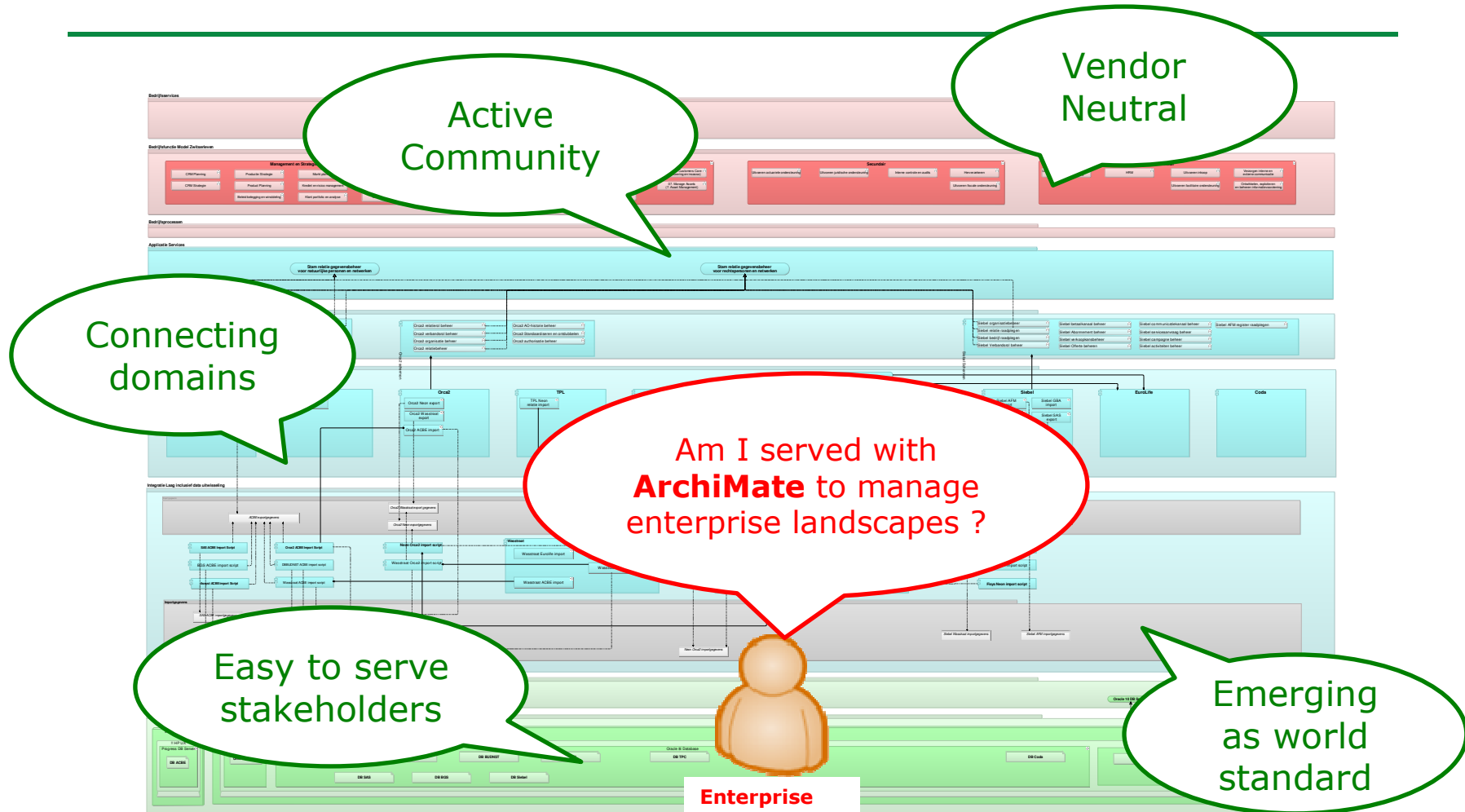
Carthography



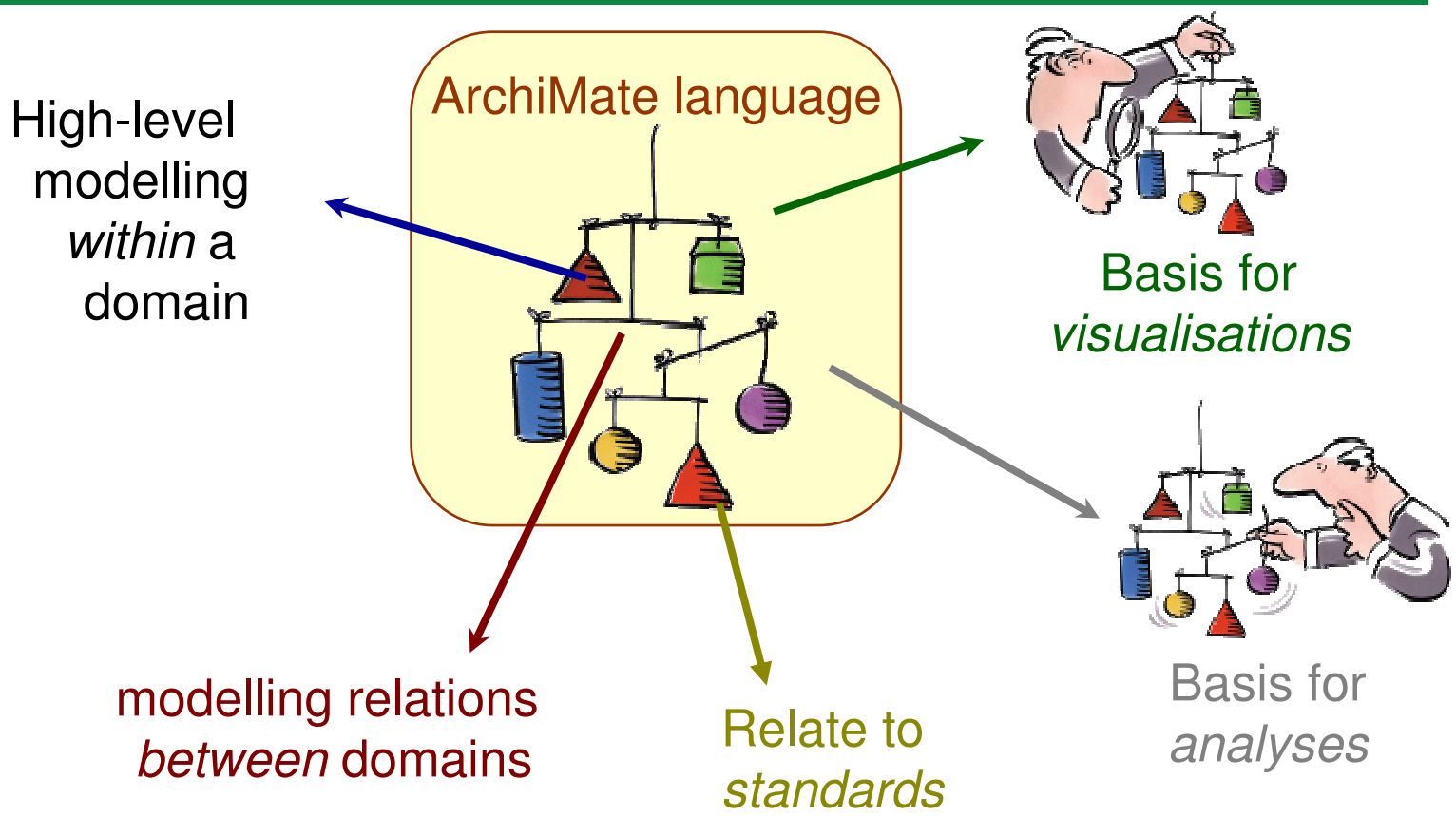
Enterprise Cartography



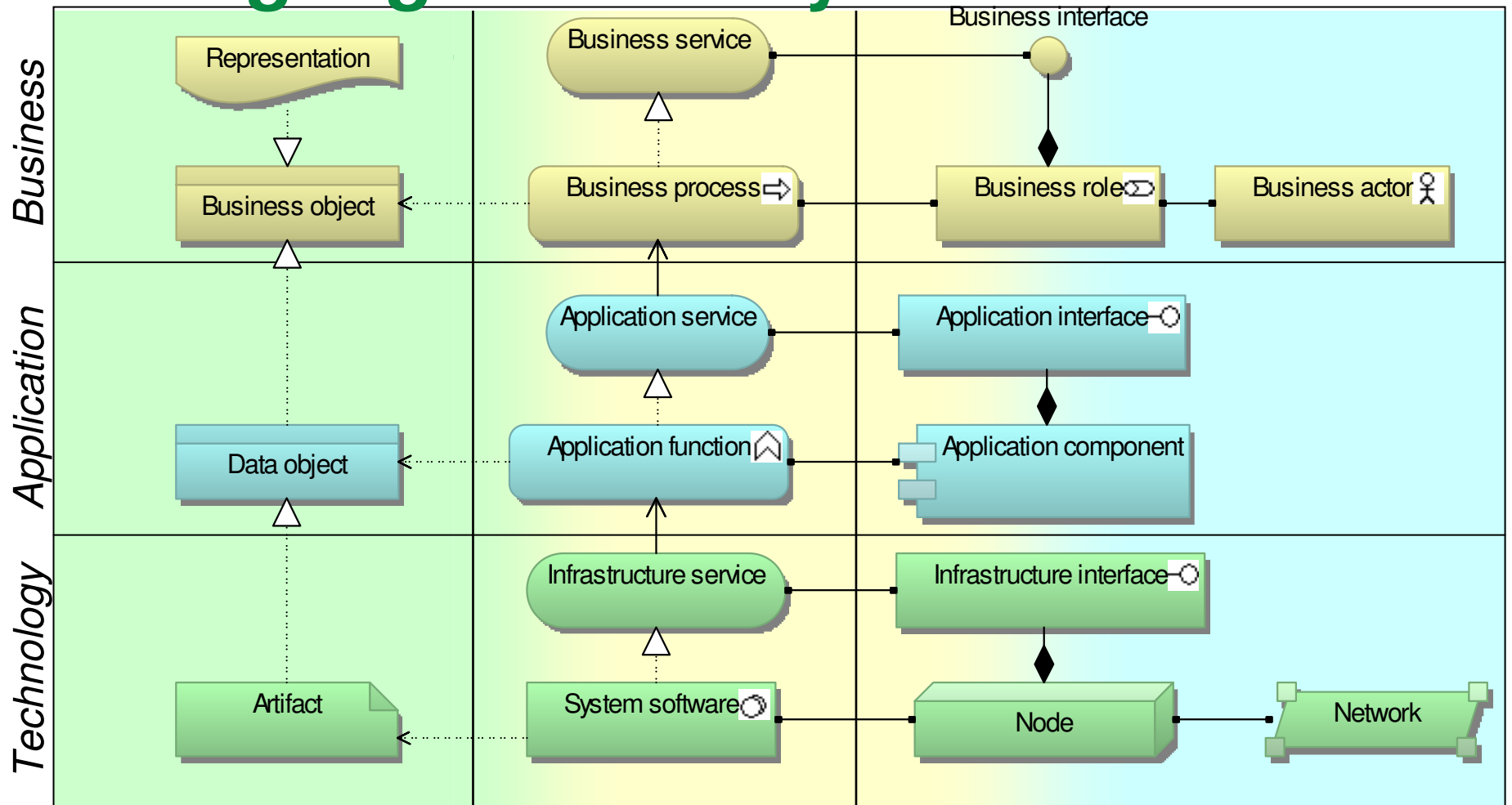
Finally ArchiMate ?



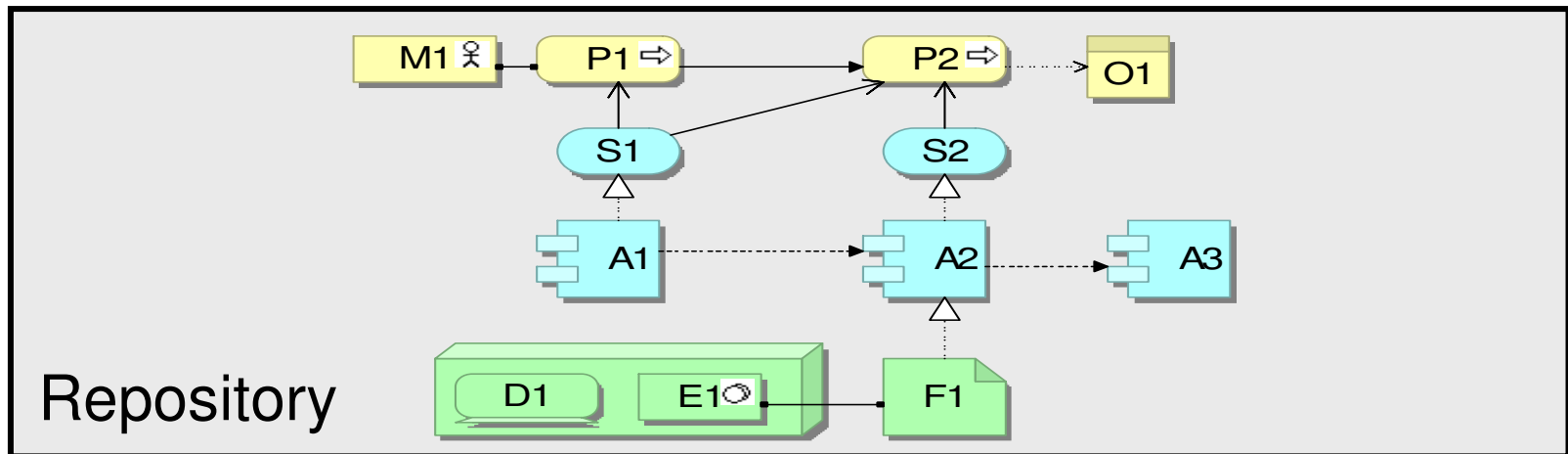
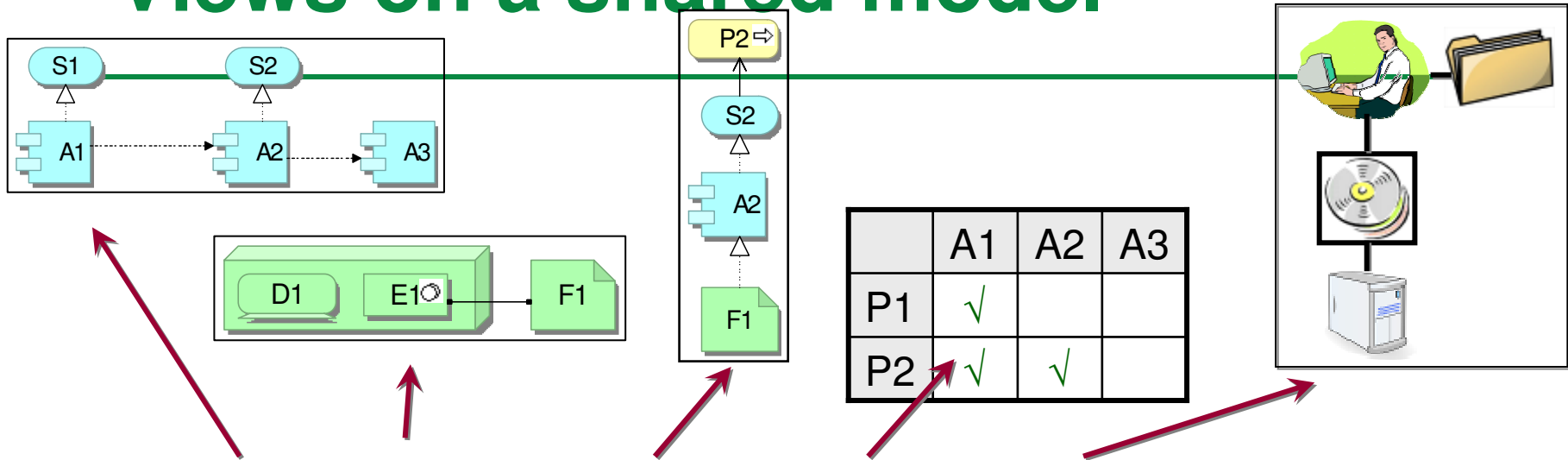
The ArchiMate Language



Language summary



Views on a shared model



Generate views



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"Consistent EA modelling with ArchiMate helps us to get grip on the major challenges we are facing."

ArchiMate in financial services: Achmea



Agenda

- ❑ Business profile
- ❑ Changes in the market and in IT
- ❑ Answer and approach
- ❑ Lessons learned

Business Profile Insurance Company

- ❑ all risk, all care insurance company
- ❑ revenue in 2007 of 15.610 million euro
- ❑ > 25.000 employees

- ❑ Result of many mergers

- ❑ From fleet-strategy towards an integration-strategy

Complex?

- ❑ > 15 brands
- ❑ > 150 products and services
- ❑ > 250 business processes
- ❑ > 1750 business applications



Enterprise Architecture is a key strategic instrument to manage change in business and IT

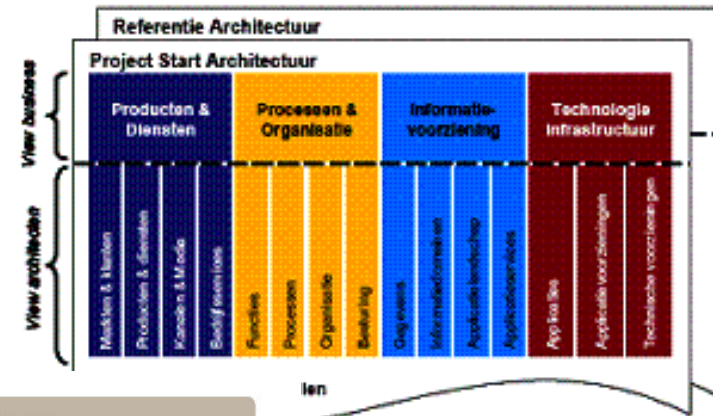
Challenges

- ❑ Application portfolio rationalization and standardization
- ❑ Unbundle distribution and production (in processes and applications)
- ❑ Improve business – IT alignment
- ❑ Improve application – infrastructure alignment

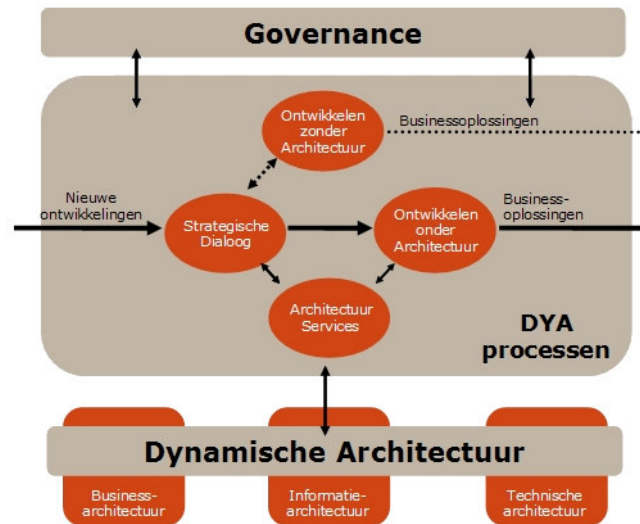
- ❑ Credit crisis puts the pressure on!!

EA Methods

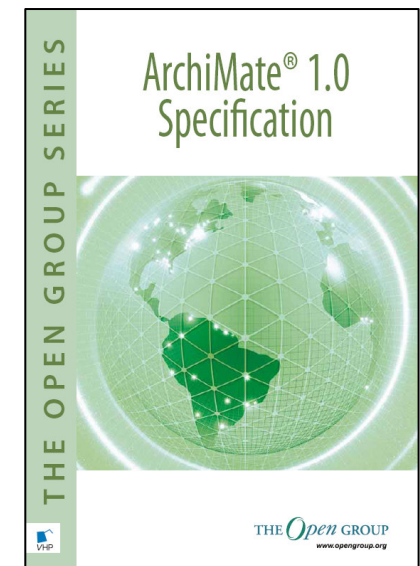
□ Framework Novius



□ Process DYA



□ Language ArchiMate



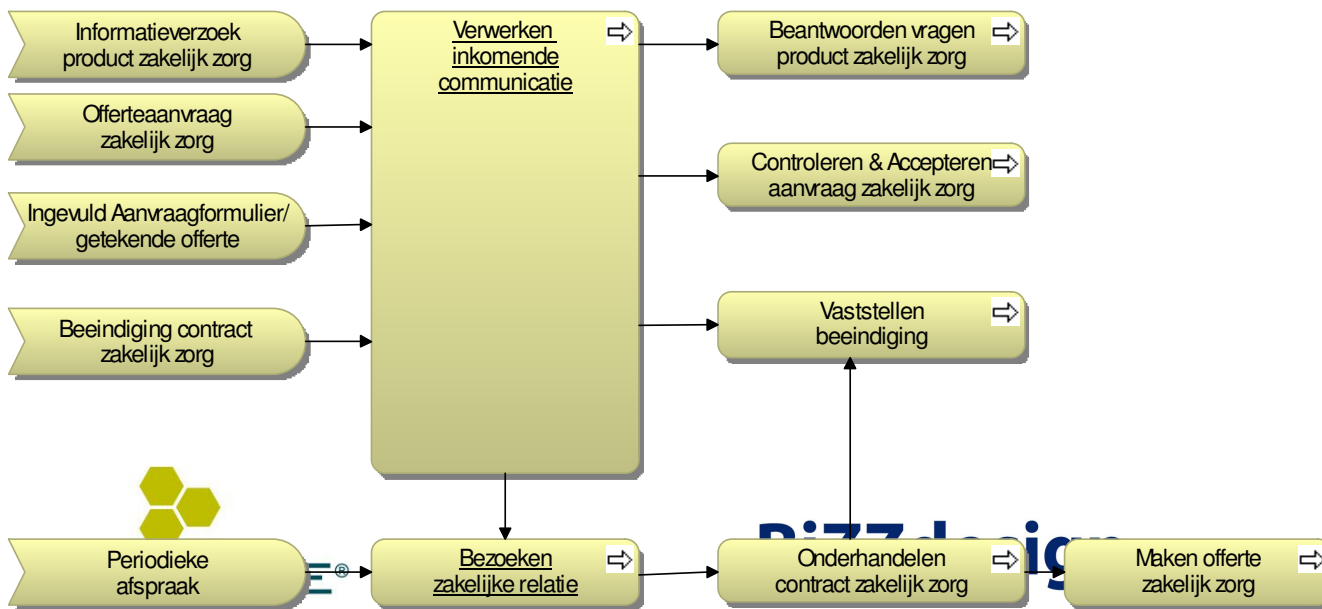
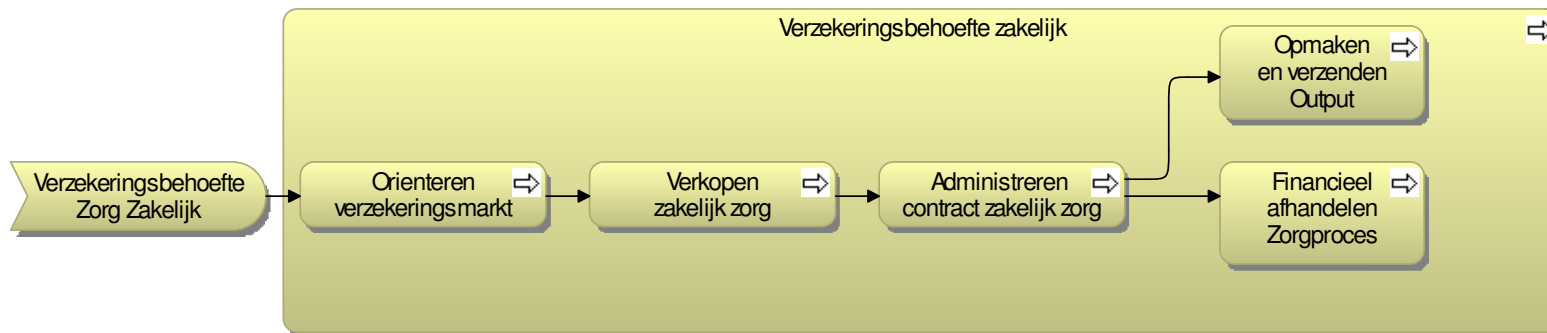
Why ArchiMate?

- ❑ Modelling in Excel, Visio, Powerpoint etc.
 - No reuse
 - Ambiguity
 - Hard to analyze
- ❑ Adhering to open standards, without vendor lock-in
- ❑ Ease of use, low complexity, step-by-step growth in advanced use
- ❑ Consistent modelling and maintenance
- ❑ Possibility to generate views for stakeholders
- ❑ Answering impact of change questions

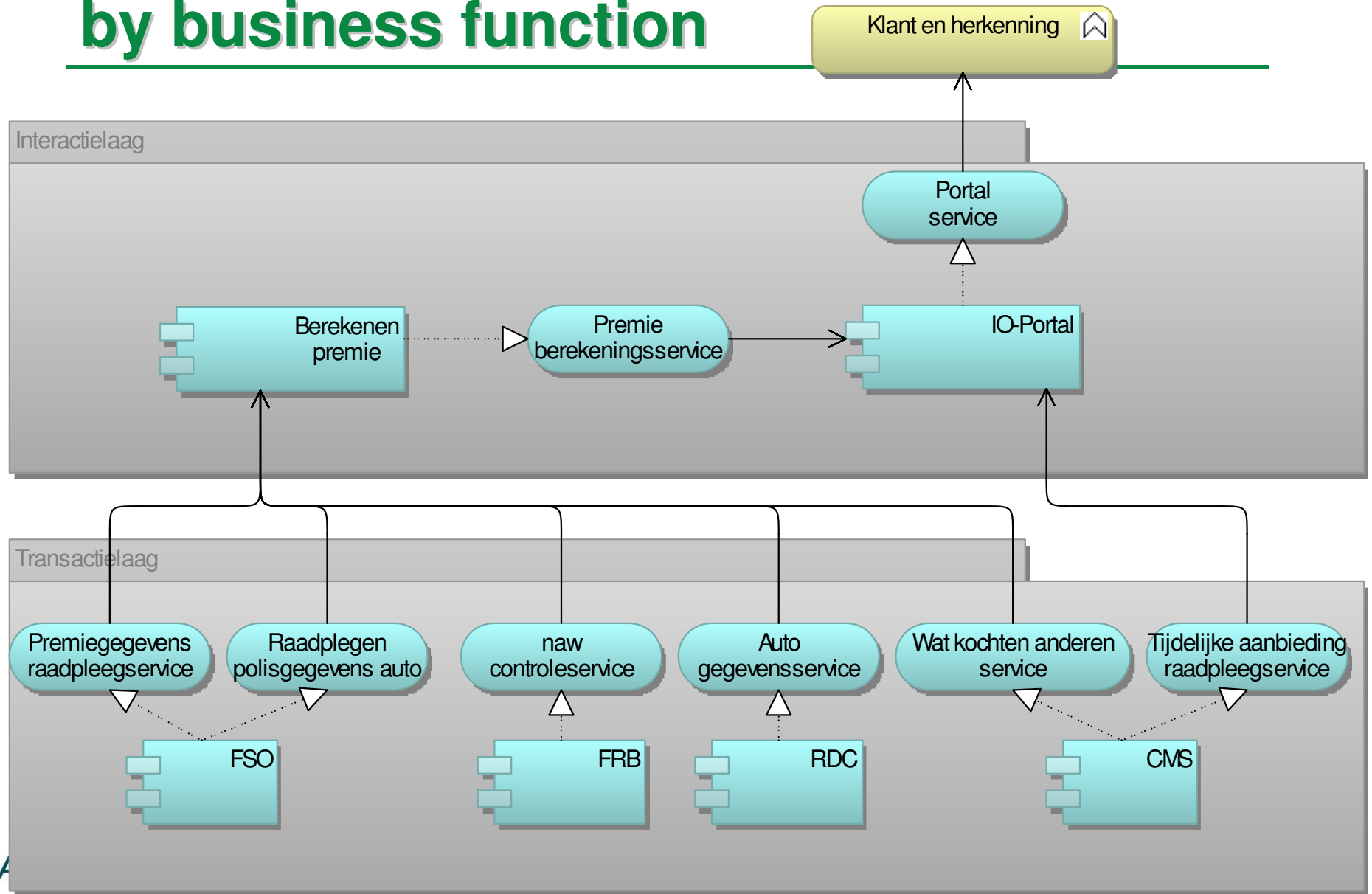
Implementation

- ❑ Education: 2 day training for 50 architects
- ❑ Started modelling technical infrastructure at central IT dept.
- ❑ Application layer (central and in the divisions)
- ❑ Processes (in the divisions)
- ❑ Models in a central repository
 - share knowledge
 - integration of the models
 - generating views
 - creating analyses

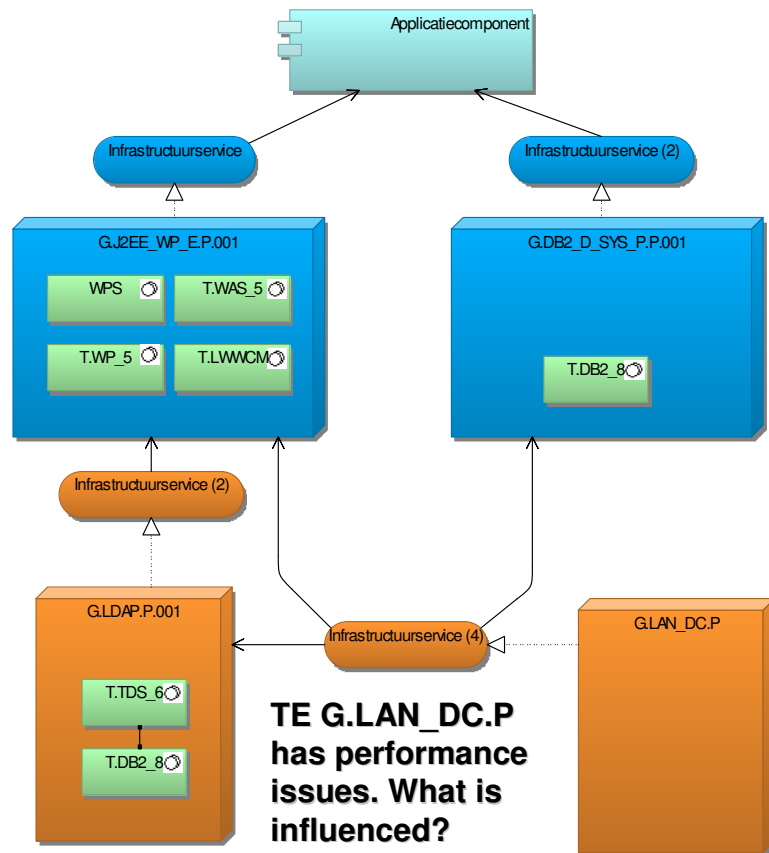
Process models



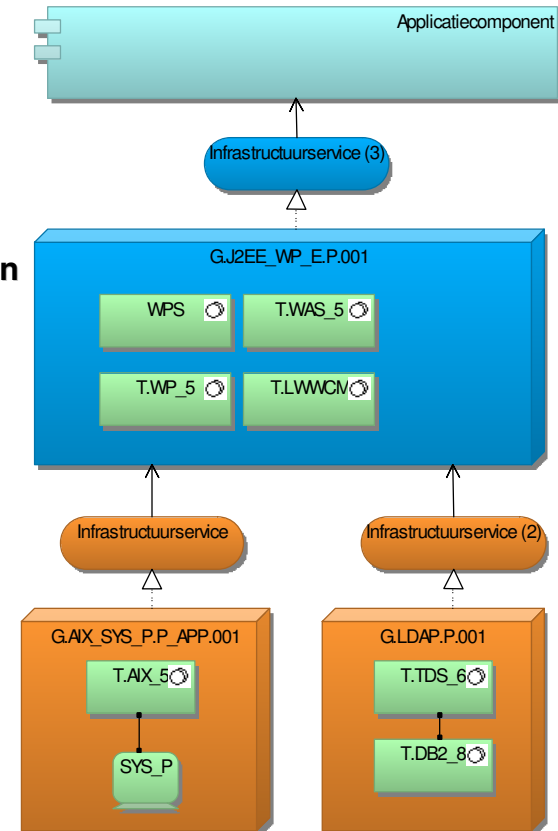
Applications delivering services, used-by business function



Technical infrastructure



Risk analyses: on what infrastructure is my application depending?



Lessons learned

- ❑ Overcome the “not invented here” syndrome
- ❑ Focus the architecture teams on delivering value rather than talking about methods and tools.
- ❑ Pilot tools to create real-life experience and work on a succes story
- ❑ Create your own sub-set of the metamodel (just-enough, just-in-time)
- ❑ Train people in language and tool
- ❑ Integrate modelling in project start-up using the Project-Start-Architecture

ArchiMate in Public Sector

Towards integration of EA processes,
products and models



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THE *Open* GROUP
Making standards work®

Agenda

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Business profile

- ❑ Tax and Customs Administration
- ❑ No. employees: + 30.000
- ❑ Incoming Tax: € 134,941,000,000.-
- ❑ No. applications: +- 2500
- ❑ No. projects: +- 300
- ❑ No. Architects: +- 100

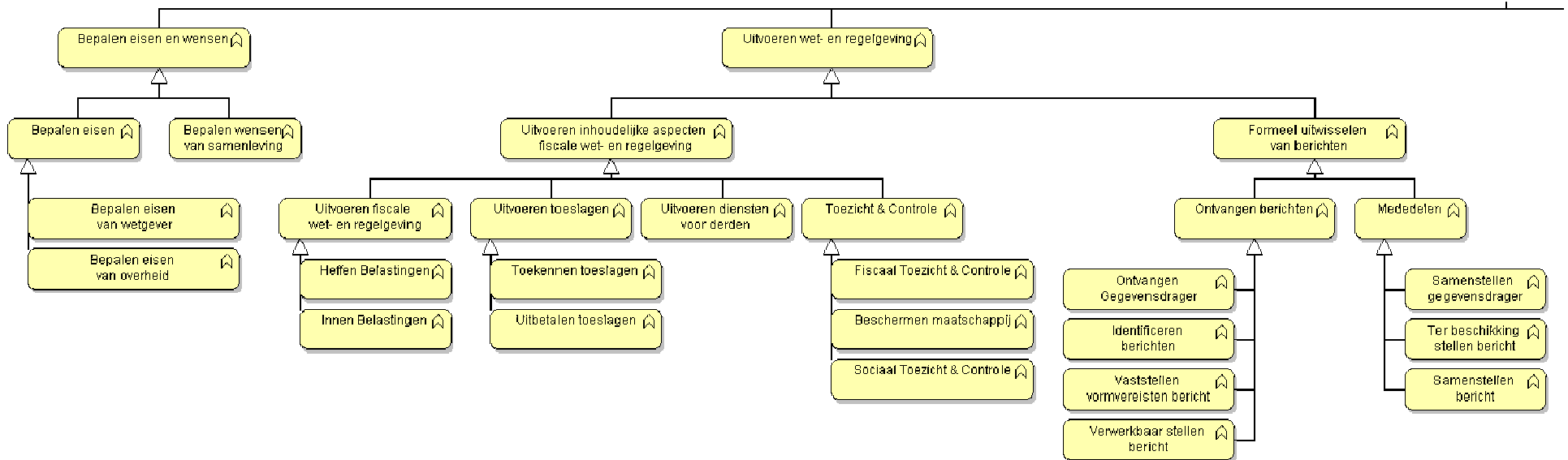
Changes in the organisation, market and IT

- ❑ New legal tasks besides the traditional tax gathering
- ❑ Transformation from “act-oriented” to process- and client-oriented organisation
- ❑ High complexity affects ability to change
- ❑ Long tradition of modelling
 - In about all domains
 - For different goals and stakeholders
 - Not integrated

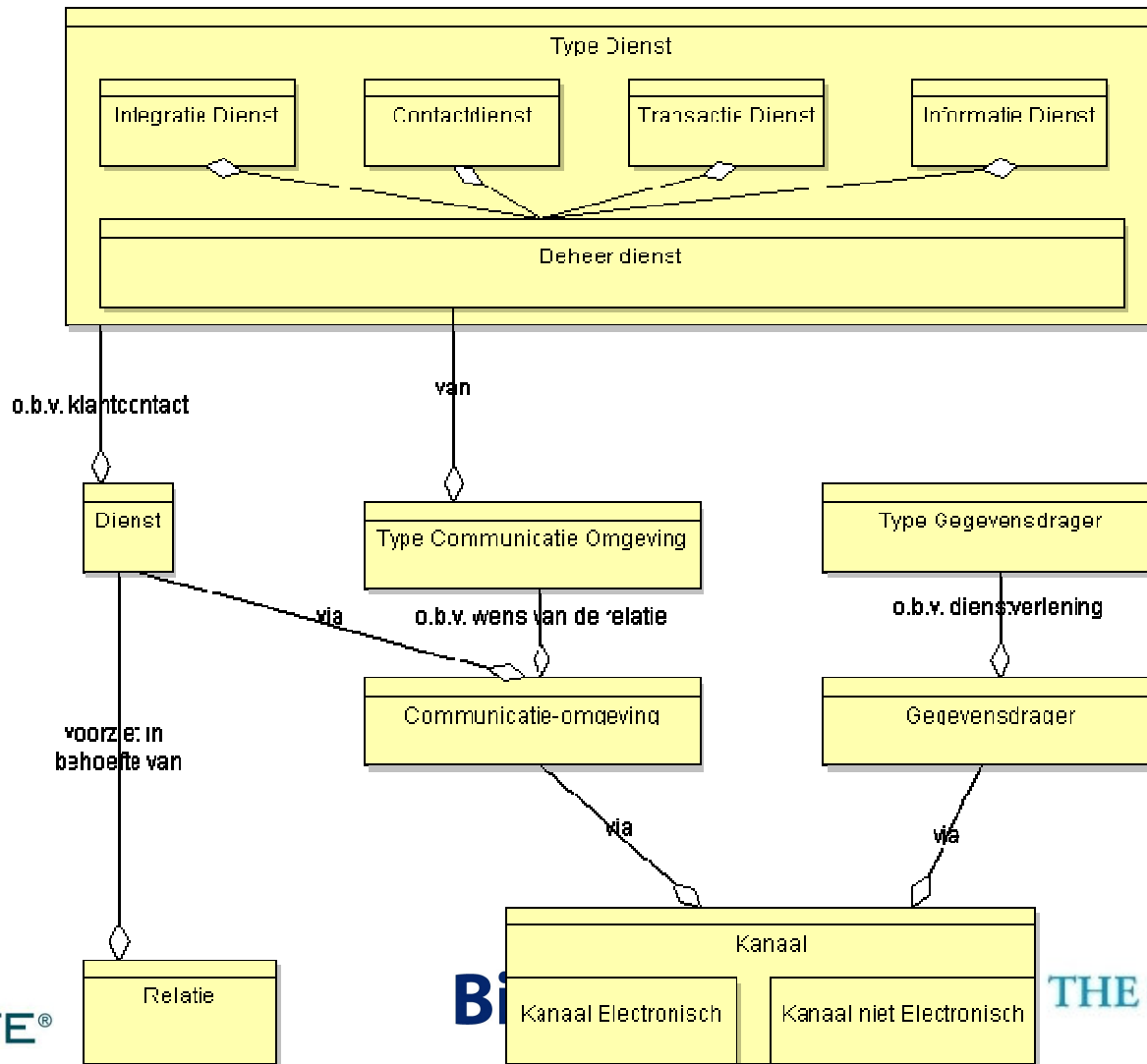
Answers and approach

- ❑ Need for well integrated models on high level
- ❑ To provide insight and overview
- ❑ Make models analyzable
- ❑ Learned about ArchiMate project
- ❑ Started using visio-stencils, powerpoint etc. and trial versions of dedicated tools
- ❑ In 2008 selected a tool and enterprise wide roll-out

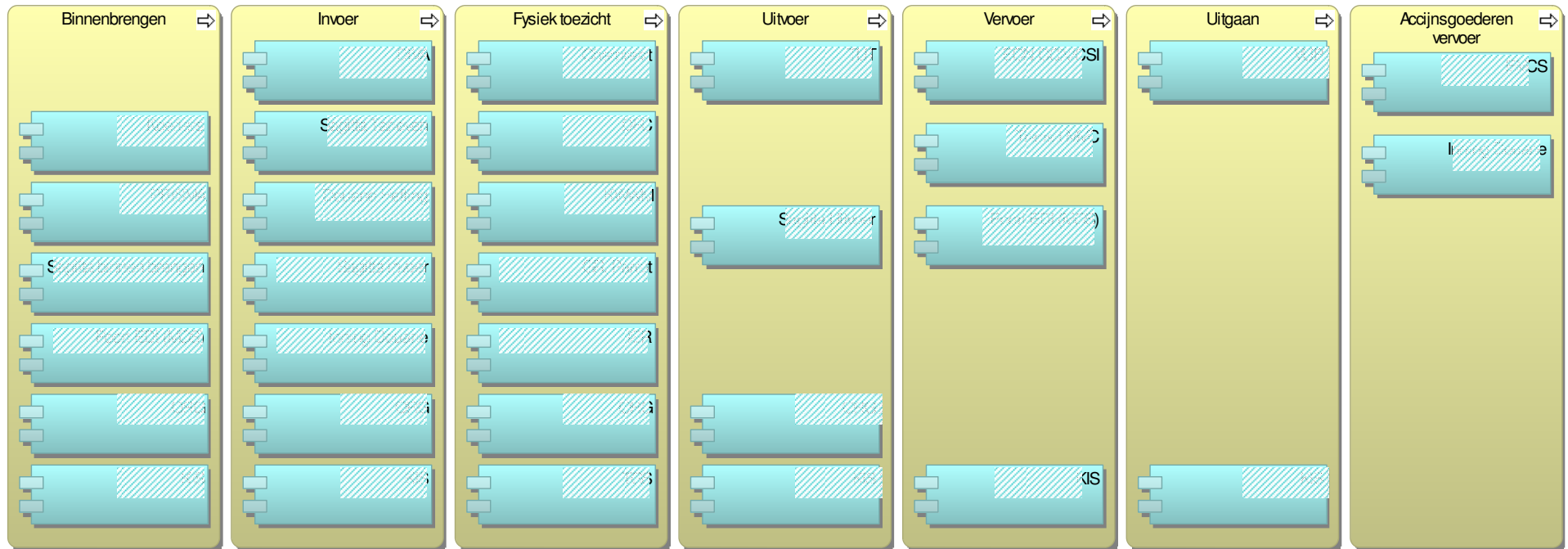
Hierarchic View of Business functions



Information model: Business objects



Processes and used applications as graphical composition



Lessons learned (and still learning)

- ❑ ArchiMate makes it easier to communicate with architects over domain boundaries and from architect to designer
- ❑ Discussion on where EA ends and detailed design starts?
 - Was always there, but comes on the surface now
- ❑ Integration with the EA-process and standardization of (some) EA products is key
 - If you don't know the views, you don't know what to model!
- ❑ Standardizing the language for EA can be an major chance for the individual architect
 - Less/More formal
 - Less/More detailed
 - Focus changes from modelling one-time views to information gathering, model in a shared environment and generate views

ArchiMate in Higher Education

"SURF stimulates and supports the use of ArchiMate in higher education in the Netherlands."



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About SURF

- ❑ Collaborative organisation for HE institutions and research institutes aimed at breakthrough innovations in ICT. SURF provides the foundation for the excellence of higher education and research in the Netherlands.
- ❑ Founded in 1987
- ❑ Currently over 60 institutions

Changes

- ❑ Growing demand for collaboration in the HE sector.
- ❑ Expanding mandate from the technical infrastructure into the information infrastructure of the higher educational institutes.
- ❑ Central in this strategy is the adoption of a services approach and the promotion of EA best practices among its members.
- ❑ Expected benefits:
 - more transparent information services
 - flexibility in creating a 'personalized learning and working environment'
 - reducing the number of duplicate functionalities and dedicated system interfaces;
 - cooperation between educational institutes and with other sectors

Why ArchiMate

- ❑ Holistic approach (not just technical)
- ❑ Open standard
- ❑ Services as central concept
- ❑ Well supported

"SURF stimulates and supports the use of ArchiMate in higher education in the Netherlands to improve the exchange and re-use of information and the cooperation between institutes."

Approach

- ❑ Architects and information managers (considered to be ‘mediators’)
- ❑ Other target groups:
 - senior management ,functional system owners, ICT professionals
- ❑ Activities for architects and IM’s
 - Training sessions in EA, ArchiMate® and EA-tooling
 - Facilitate the exchange of best practices through meetings and an on-line community.
 - Supports sharing of existing architecture studies and models between institutions through a Community of Practise.
 - Negotiating low-cost software licenses for EA tools.

SURF participates in innovative EA projects together with HE institutes

- ❑ E-Framework for Education and Research (<http://www.e-framework.org>)
 - Provides information to institutions on investing in and using information technology infrastructure.
 - service-oriented approaches to facilitate technical interoperability of core infrastructure as well as effective use of available funding.
 - With partners in Australia, New Zealand and the UK.
- ❑ SANS: (<http://www.sans-info.nl>)
 - 5 HE's selected and implement one student information system
- ❑ 3TU federation (<http://www.3tu.nl>)
 - 3 Dutch technical universities are integrating their existing application landscapes based on SOA principles, to provide a federative learning and working environment

Towards a Federated Learning Environment for Three Dutch Universities

Standardize communication about EA in HE sector

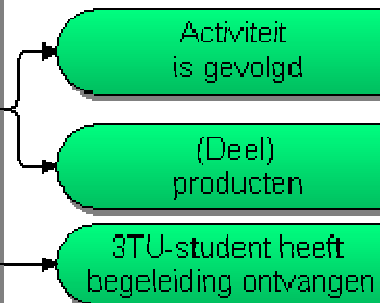
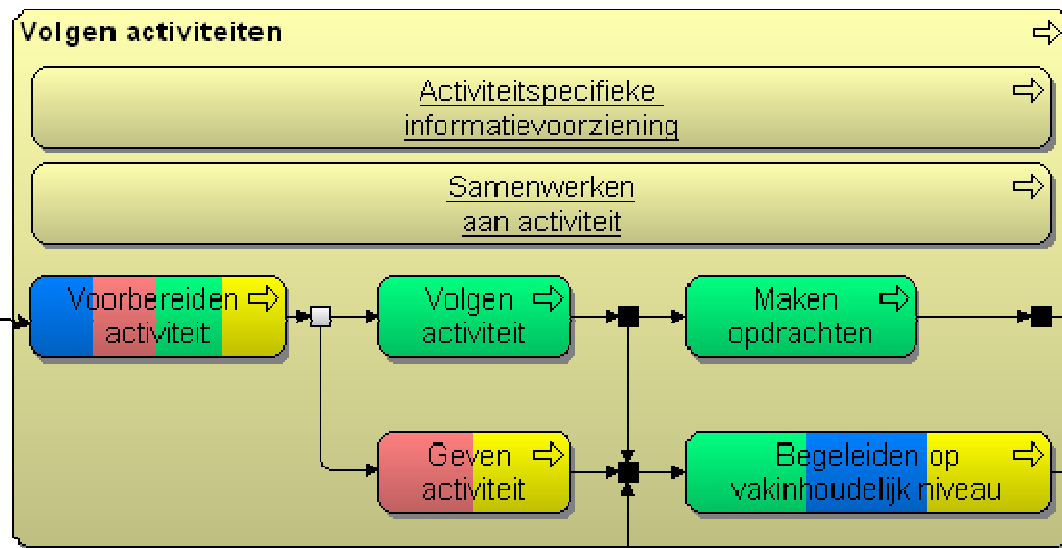
From vision to models, from models to realization!
Stream: EA in Government and the Public Sector

11.45 Bert van Zomeren, University Information
Officier, Delft University of Technology, Netherlands

Processes and color for related actor



3TU-student is aangemeld voor één of meerdere activiteit(en)



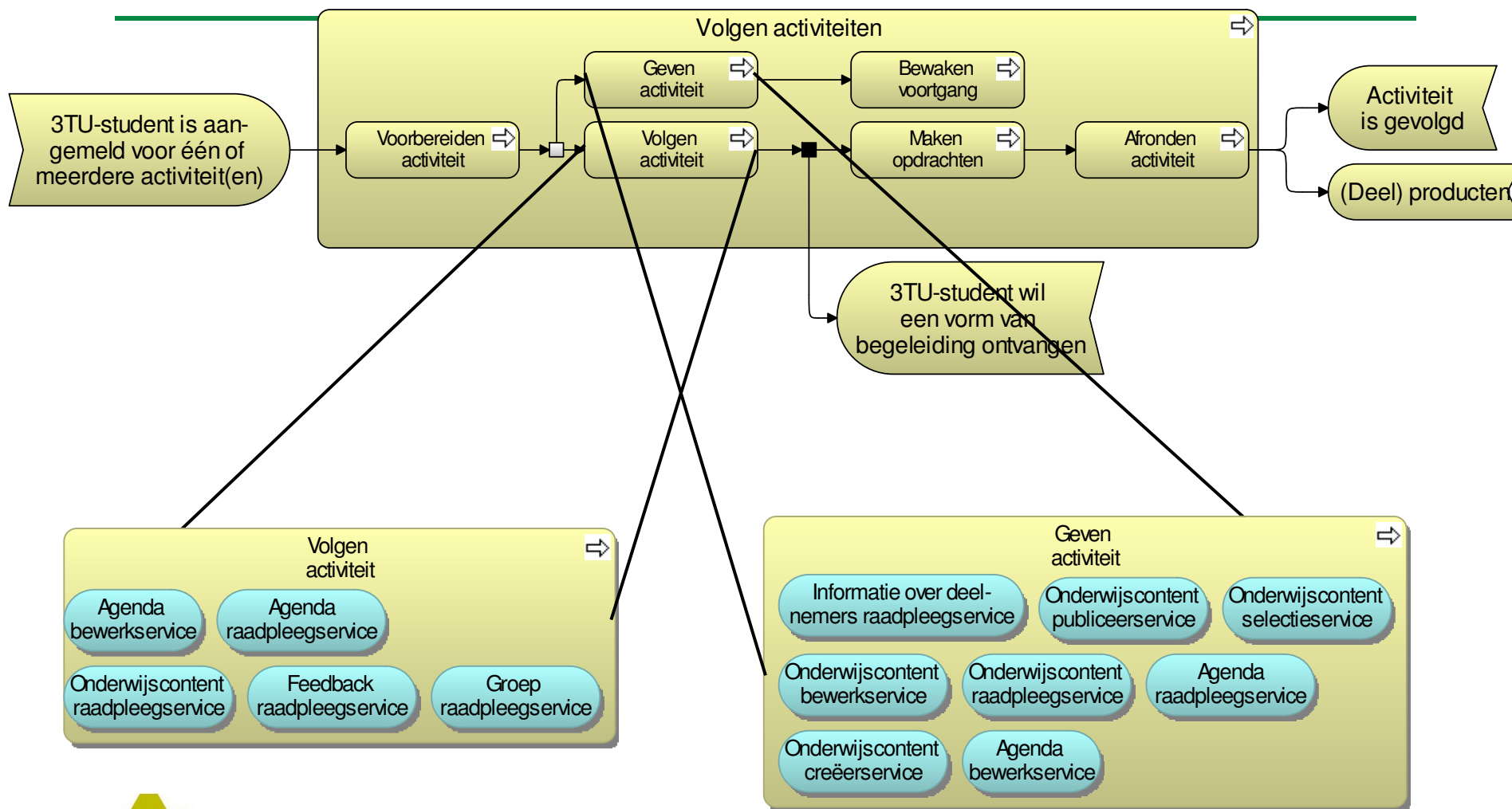
Docent plant begeleidingsmoment

3TU-student wil een vorm van begeleiding ontvangen

Oplevering (deel)product

Tijdstrigger

Results: Application Services



Some lessons learned

- ❑ Processes and services can be understood and modeled using ArchiMate
- ❑ Training in ArchiMate and tooling is required to fully benefit
- ❑ Model is used to build a working Learning Environment based on SOA

Conclusions



ArchiMate is useful

- ❑ Closes the gap between “free-format” strategy models and detailed solutions architecture models
- ❑ Enhances communication
- ❑ Makes models analyzable
- ❑ Can be the basis for more detailed modelling
- ❑ Well supported by tools and service-providers

ArchiMate is a start- not an endpoint

- ❑ Think big, start small
 - There are many possible concepts and relations;
 - Select and learn;
- ❑ Training is required to fully benefit
- ❑ Implementing ArchiMate means a change in how architects work.
 - Takes time
 - Communication

Modelling efforts should be integrated

- ❑ With the EA process
 - TOGAF ADM or any other
- ❑ With EA governance
 - Validate the models
- ❑ With other modelling efforts
 - Process modelling
 - Software modelling
 - ...
- ❑ Define products and roles