

Enterprise Architect for an Enterprise Architecture

The combination of Sparx EA and ArchiMate 2.0

Introduction Bert Dingemans

- Independent architect and EA consultant
- Specialised in architecture repositories
- Passion for modeling with ArchiMate
- Certified in Big Data, Togaf, SOA and Cloud computing
- Developer of the OSS Web Publication Platform for Sparx EA and extensions and scripts for the EA application.

Projects with EA Sparx

Organisation	Project	Solution
Ministry of agriculture	National Dog Register Cites (endangered Species) CDM	UML, XSD
Province of Gelderland	Enterprise Architecture	ArchiMate
VZVZ	Aorta EA	ArchiMate, UML

Subjects of today

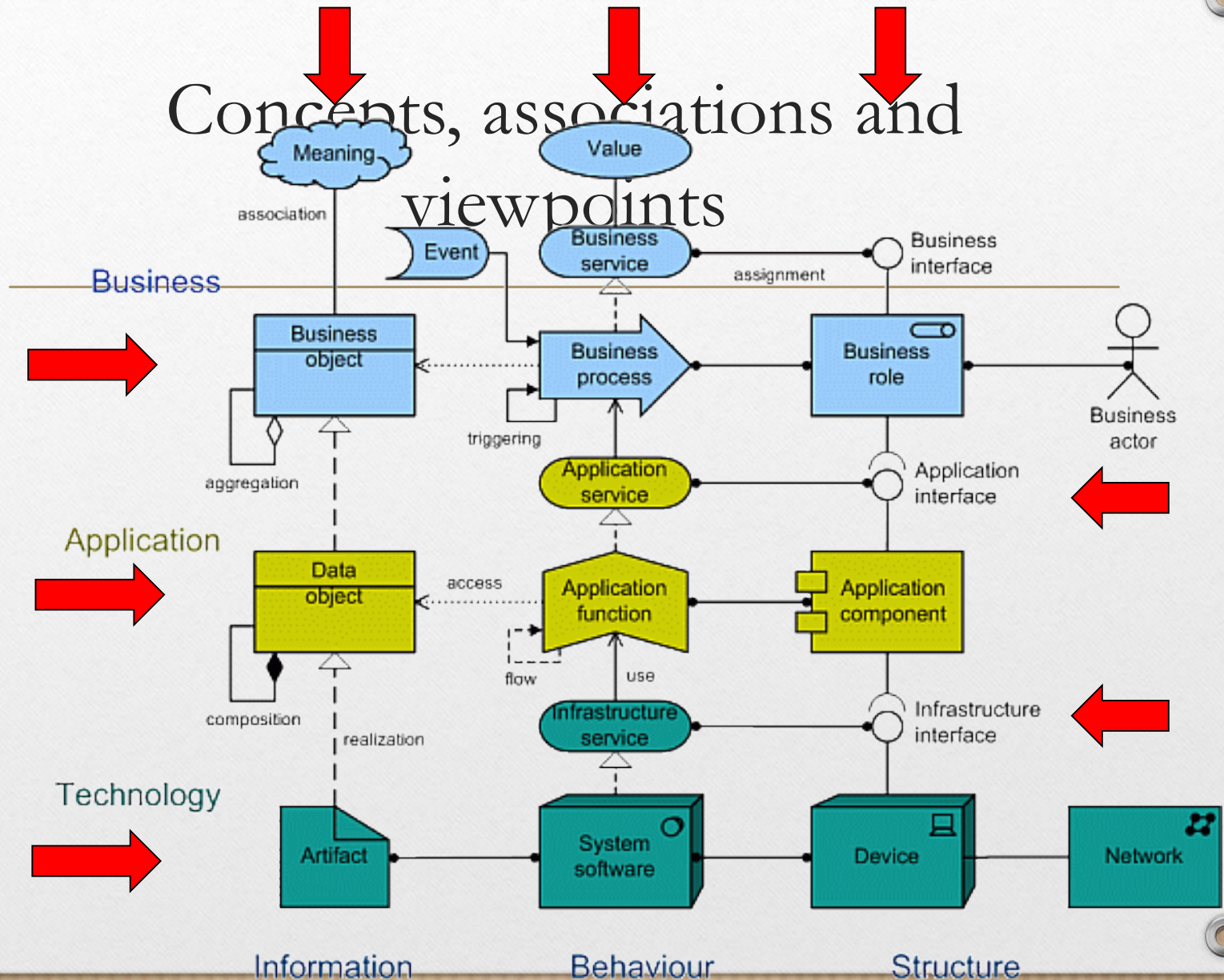
- Short introduction of ArchiMate
- Using Sparx Enterprise Architect
- The EA Web Publication Platform
- Organisational aspects

ArchiMate 2.0

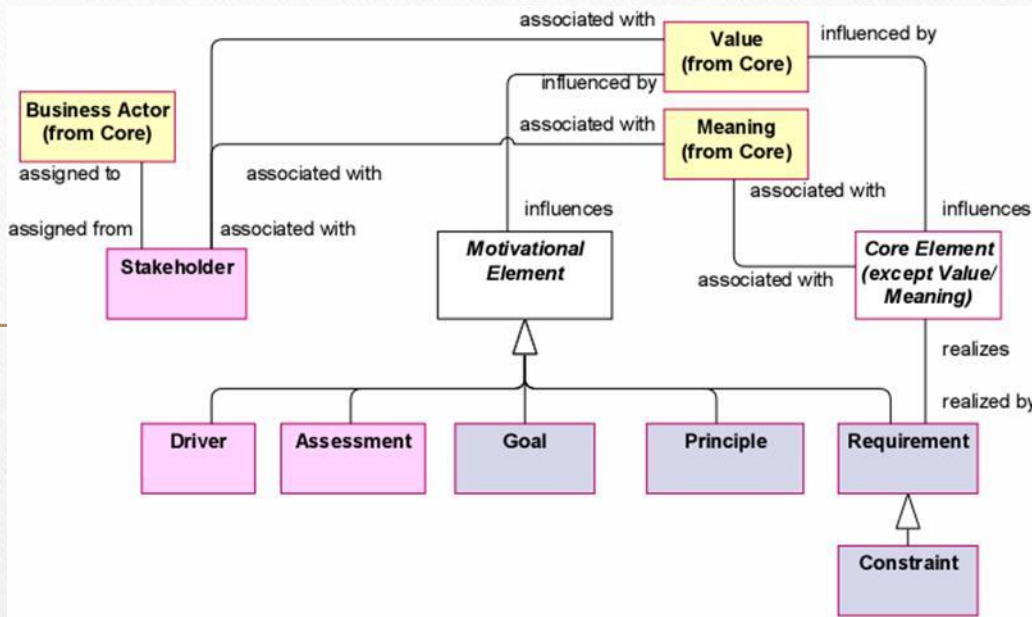
ArchiMate 2.0

- Modelling enterprise architectures
- Concepts and associations
- Based on Viewpoints
- Closely related to Togaf
- Dutch governmental standard
- Possible to create extensions

Concepts, associations and viewpoints



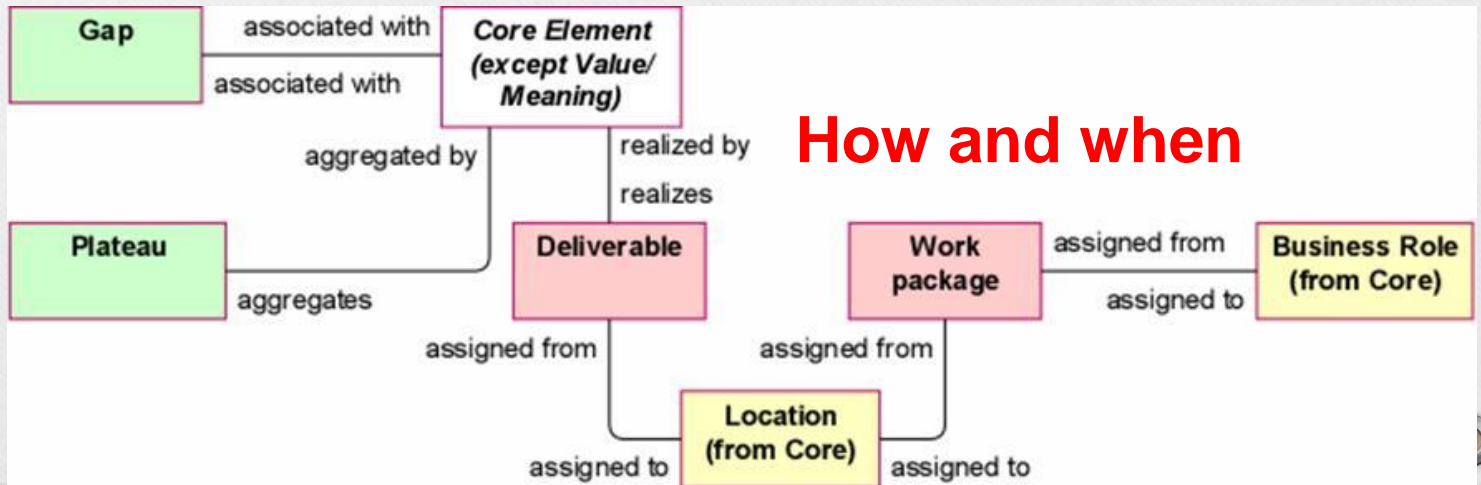
ArchiMate 2.0 extensions



Motivation

Why

Implementation



How and when

Some sample views

- EA demo of:
- Compressed principles
- GIS blueprint
- MDM and data virtualisation

ArchiMate Visualisation Posters



Do's and Don'ts ArchiMate

• Do

- Describe viewpoints before introduction
- Limit concepts and associations
- Describe your modelling decisions
- Organise roadshows and demonstrations

• Don't

- Model everything!
- Start modelling without stakeholder participation
- Continue using other modelling techniques

Sparx Enterprise
Architect

Enterprise Architect for an EA

- EA introduced as Architecture Repository
- Mainly used for modelling with ArchiMate
- Limited use of BPM notation, decision trees and mindmapping
- Integration with CMDB, Art Decor and SharePoint Wiki
- SQL server as relational database
- PDF and HTML Document creation is adapted to own situation
- Introduction of Web Publication Platform
- Development of extensions

Project browser

- Four sections
 - Templates and building blocks
 - Projects
 - Reference Architecture
 - Archive
- PSA template as package
- Extensive use of notes for all elements

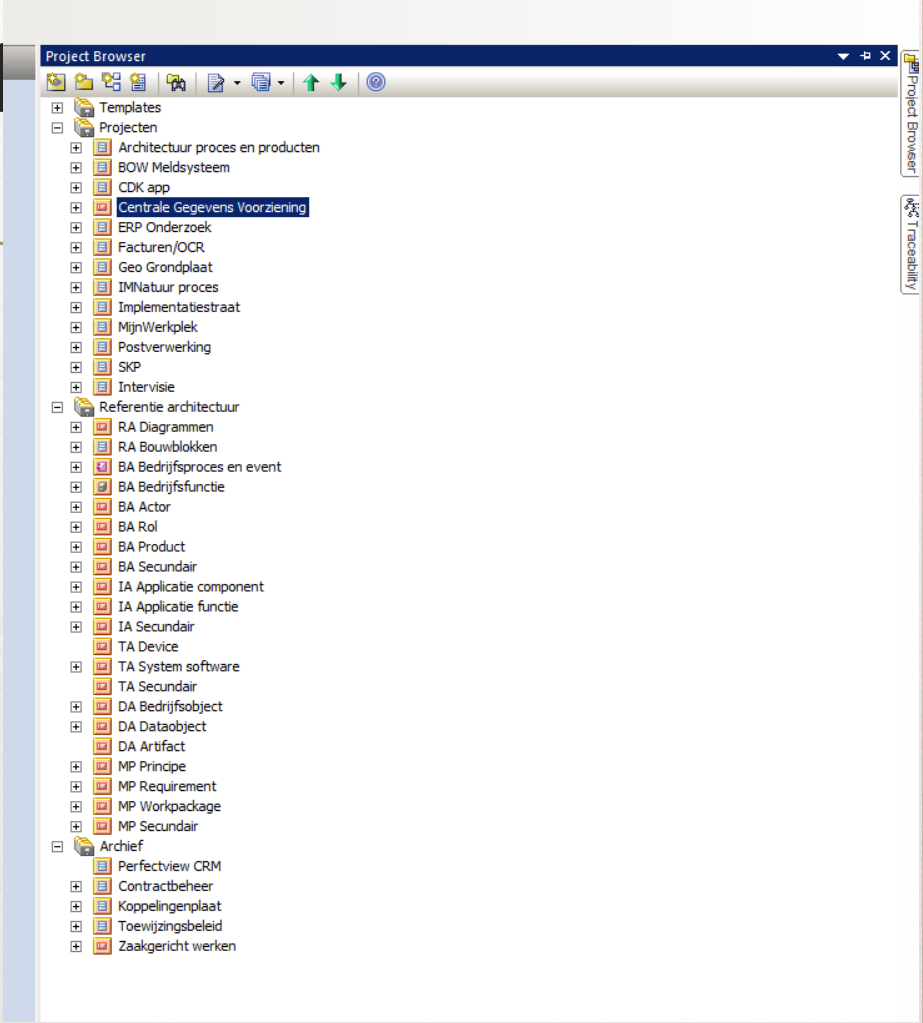
Design Explorer

Templates

Projects

Reference architecture

Archive



Using Extensions

- **Duplicate validation**
- **Merge elements**
- Integration with CMDB (TopDesk)
- Integration with Sharepoint List (Projects)
- Import from Excel files

Do's and Don'ts Enterprise Architect

- Do
 - Use requirements and compare various tools in a matrix
 - Use extensions for integration
 - Make diagram's for and in projects
 - Use notes and links extensively
 - Use a clear project structure from the beginning but don't be afraid to change it
- Don't
 - Mix ArchiMate 1 and 2 notation
 - Make complex blueprint diagram's
 - Too much elements and associations
 - Too much detail
 - High level enterprise diagrams without a project scope

WPP for EA

Why a WPP

- Architecture documentation also accessed by external stakeholders
- Possibility to review and discuss elements of the architecture
- Introduction of a Single Point of Maintenance for architectural elements
- Reduction of architectural documents

What is the WPP

- OSS webapplication for an EA repository (EAP file)
- Easy navigation functionality like
 - Search and advanced search
 - Explorer
 - Lists, detail pages and hyperlinks
- Discussion platform
- Combination with an online form factory (CMS/FMS)
- Extensible autorisation module
- Three sample layouts and layout based on CSS and master pages

Web Publication Platform for EA

Organisational aspects

Organisational aspects

- Introduce a custodian role for the repository
- Collaboration in the architects team
- Communicate the new architectural approach
- Involve stakeholders

Custodian

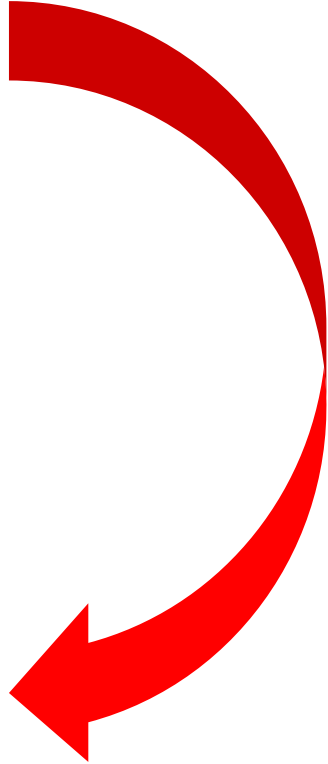
- Custodian role is important for:
 - Repository consistency
 - Training of other architects
 - Communication of the new approach
- Fulfilled by one of the architects
- Project explorer structure is maintained by custodian

Custom

ility

Project Browser

- Templates
- Projecten
 - Architectuur proces en producten
 - BOW Meldsysteem
 - CDK app
 - Centrale Gegevens Voorziening**
 - ERP Onderzoek
 - Facturen/OCR
 - Geo Grondplaat
 - IMNatuur proces
 - Implementatiestraat
 - MijnWerkplek
 - Postverwerking
 - SKP
 - Intervisie
- Referentie architectuur
 - RA Diagrammen
 - RA Bouwblokken
 - BA Bedrijfsproces en event
 - BA Bedrijfsfunctie
 - BA Actor
 - BA Rol
 - BA Product
 - BA Secundair
 - IA Applicatie component
 - IA Applicatie functie
 - IA Secundair
 - TA Device
 - TA System software
 - TA Secundair
 - DA Bedrijfsobject
 - DA Dataobject
 - DA Artifact
 - MP Principe
 - MP Requirement
 - MP Workpackage
 - MP Secundair
- Archief
 - Perfectview CRM
 - Contractbeheer
 - Koppelingenplaat
 - Toewijzingsbeleid
 - Zaakgericht werken



Peer sessions

- Interactive sessions between architects to discuss difficulties and strategies
- Organised ones a month
- Every architect has input
- Open discussion
- Based on the outcome of the discussion the architecture approach can be changed

Interactive architectural workshops

- Session with various stakeholders to create a diagram or model in a workshop
- Creates involvement of the stakeholders
- Supports an agile approach
- Results are published in a document or wiki immediately after the session
- Linked to a project or actual problem in the organisation
- Discussion between the stakeholders are more important than the resulting diagram

Do's and Don'ts in organisations

Do

- Stimulate stakeholder involvement
- Implement the custodian role from the start
- Stimulate diagram and element reuse
- Organize peer reviews
- Communicate the results with road shows etc.

Don't

- Create an ivory tower around the repository
- Accept other (own) diagramming approaches in the architecture team
- Accept multiple views of the target architecture

The results with EA

- Architecture document creation is improved in speed and stakeholder involvement
- Architecture documentation is reduced and more consistent (SPoM is introduced)
- More agreement in the team about the target architecture (but it still needs attention)
- EA supports the approach very good!
- Possibility to create extensions helped us a lot

Points of consideration

- Communication about ArchiMate
- Standardisation and reuse
- Optimisation of the document creation process
- Reduce the usage of word documents and excel sheets

More information

- ArchiMate:
 - <http://pubs.opengroup.org/architecture/archimate2-doc/>
 - http://www.archimate.nl/en/start_using_archimate/good_practices.html
- Architecture
 - www.architectuurassistent.nl (dutch)
- Web Publication Platform
 - <http://wpp.interactory.nl>

Discussion/Questions
