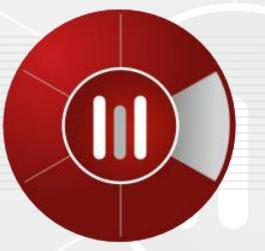
Advantage of Combining The Archimate, UML and BPMN standard



Philippe Desfray – SOFTEAM & Modeliosoft

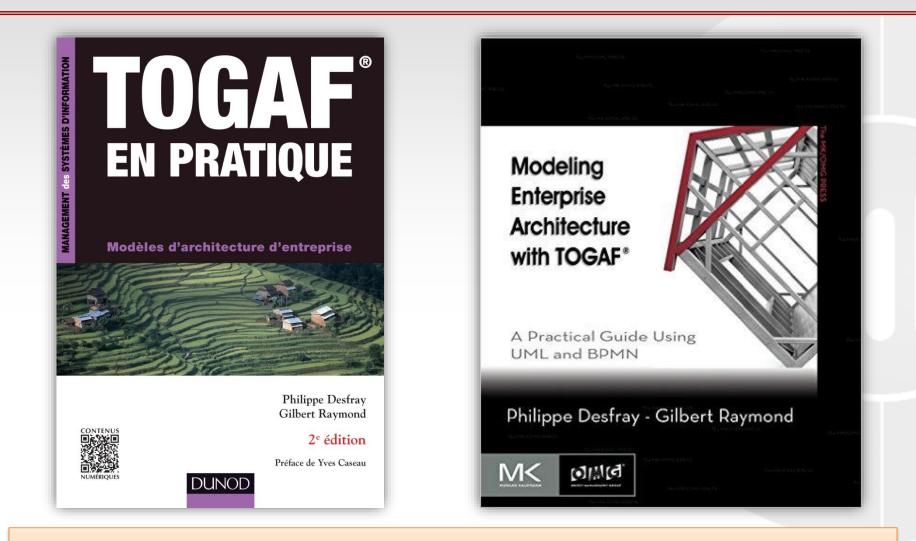


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Who we are

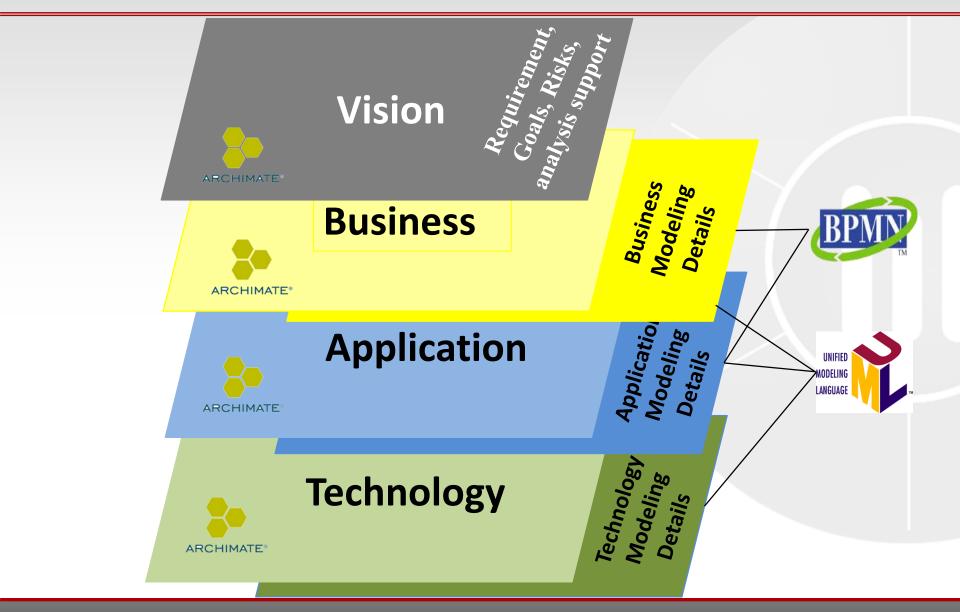
- Philippe Desfray
 - VP for R&D SOFTEAM, Modeliosoft
 - Contributor to the UML standard since the beginning
- SOFTEAM
 - Consulting company, 1000+ consultants
 - Provides TOGAF training & consulting
 - Since 1989
 - Open Group & OMG member
- Modeliosoft
 - Editor of Modelio (prev Objecteering 1990)
 - Limitless modeling (Modeling scope, repository distribution, nb of users, model exploitations)

Book on Enterprise Architecture modeling with TOGAF



Developed by the SOFTEAM consulting team

Covering the entire Enterprise Architecture Scope



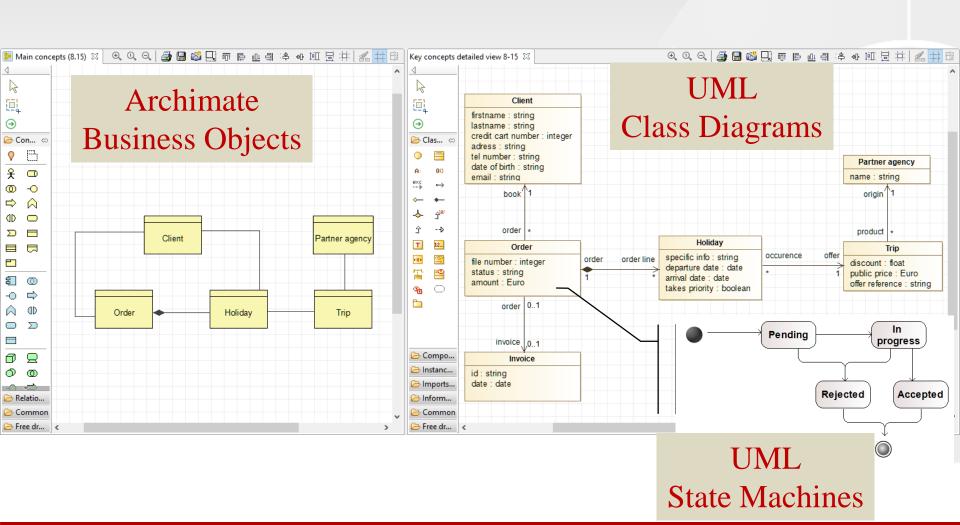
Three widely used modeling standards

- Archimate is dedicated to Enterprise Architecture, Mature, at a coarse level of granularity, and flexible
- UML provides great level of detail, and additional modeling technique
 - Use Cases modeling
 - Detailed data modeling support
 - Detailed architectural modeling, link to software application modeling
- BPMN provides a complete business process modeling support

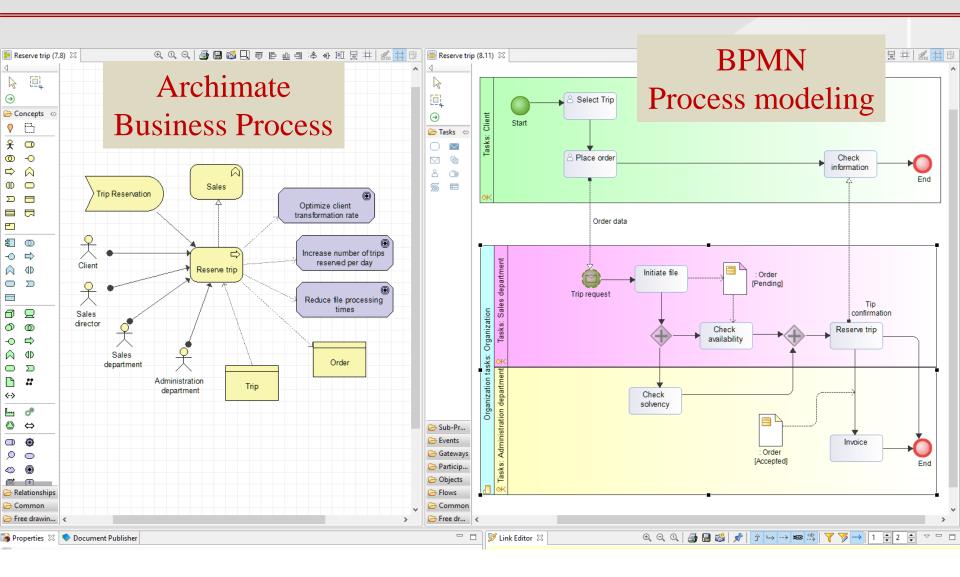
Advantages of a combined usage

- Broad modeling scope, complete coverage of IT + EA
- Complete traceability and impact analysis support
- Comprehensive coherent EA repository : enabling Enterprise Continuum

Archimate + UML Example



ARCHIMATE + BPMN Example



Use Cases for Archimate + UML + BPMN

- Enterprise Architecture and technical Architecture
- Detailed Business Process Modeling
 - Archimate for a process map, BPMN for detailed BPM
- Data modeling (whatever level: Conceptual, Logical, Physical)
- Reverse engineering, and high level E/A modeling
 - Or starting from legacy models and moving to high level models
- Use Case modeling
 - Detailing Business collaborations
 - Modeling use cases for Application components
- State machine modeling
 - Example: specifying the different states of a business object

Mapping through refinement

• Any model Element from Any metamodel (UML, BPMN, Archimate) can **refine** any other model Element

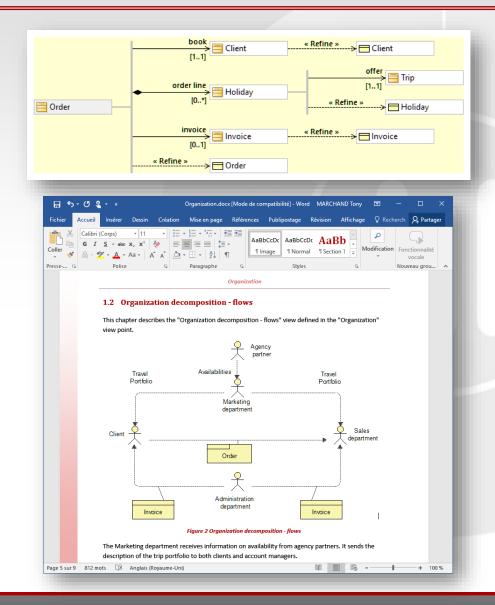


Mapping support

- What can be mapped?
 - Obvious mappings: Ex Actor / Actor ; Business Object / Class
 - User defined mappings: Ex Business Collaboration / Use Cases
 - No mapping: Ex Capacity
- Wizards
 - Automating obvious mappings
 - Helping User defined mappings

Mapping exploitation

- Traceability management
 - Traceability editors
 - Traceability reports
 - Matrixes
- Impact Analysis
- Combined documentation generation



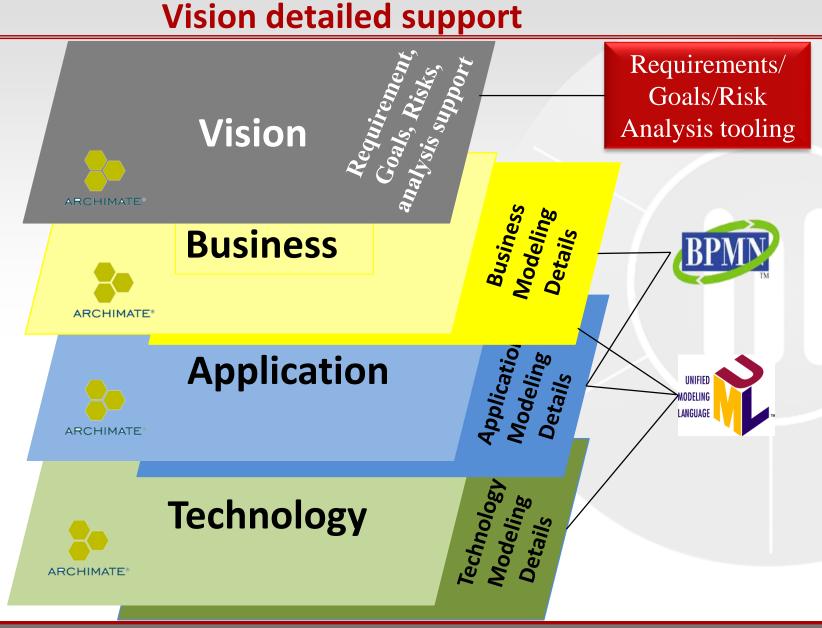
Customizing the modeling approach

- Need for an adapted EA modeling metamodel
 - Classical approach for traditional EA modeling tools (generic support)
 - Adapting the EA approach to the Enterprise's context, expertise and norms
 - A large number of EA projects have their own EA modeling metamodel.
- Take the opportunity of Standard modeling languages
 - Do not reinvent the wheel
 - Build your specificities by reusing off the shelf elements
- **Profile** is a UML/Archimate shared extension mechanism
 - Mechanism for extending standard metaclasses
 - Lighweight, Flexible and Dynamic

Alternative Approaches to the combined standards support

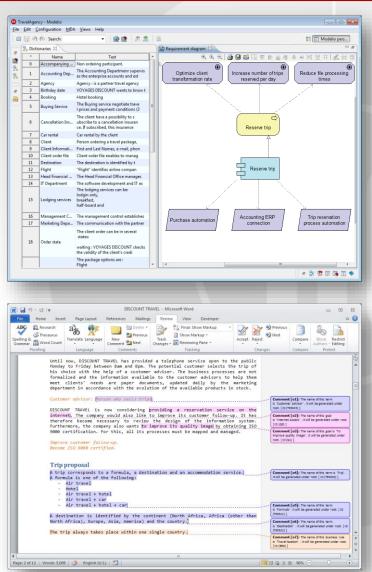
- UML profile for Archimate (OMG standard)
 - Enable Archimate support by UML tools
 - Do not provide a good graphical support of Archimate
 - Do not provide a complete support (ex « grouping »)
 - Do not provide a semantic accurate support
 - Need a dedicated support of wizards & traceability
- UML profile for TOGAF + BPMN
 - As in the book « Modeling EA with TOGAF »
 - Provides an integrated consistent support equivalent to Archimate + UML
 + BPMN
 - Complete & Accurate TOGAF support, No mapping needed
 - But it is not Archimate

Complete coverage - What is missing : Vision detailed support

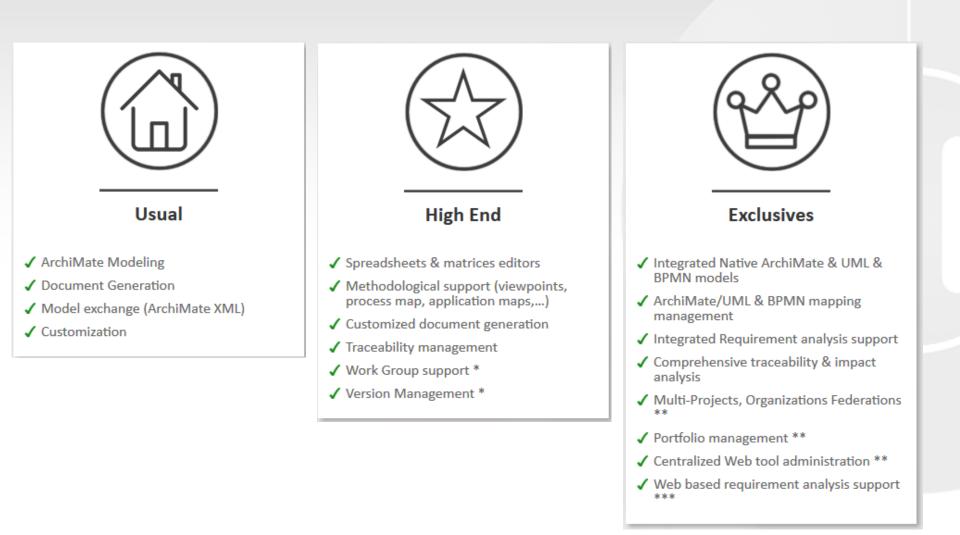


Requirement, Risk and Goal Analysis... ...integrated into models

- Support of vision and requirements definition integrated into the tool
 - Goals, Requirements, Terms, Business rules, Risks
- Graphical, spreadsheet editors and forms
- Integration into models: UML, BPMN, ARCHIMATE.
- Traceability and impact analysis
- Extraction from Word or OpenOffice documents
- Coupling with Excel and external tools
- Documentation generation
- Property settings



Modelio Archimate Architect : Extraordinary Capacities



The only open source modeling tool supporting ARCHIMATE + UML + BPMN

www.modelio.org

Modeliosoft Solution : Modelio BA - Archimate

- Enterprise solution for Enterprise Modeling with standards
 - Workgroup support,
 - Vision support : Requirement analysis, Goals, Risks, ...
 - Documentation generation
 - Matrixes editors
 - Process map, application map, flow maps support
 - Archimate/UML/BPMN mapping management
 - Multi projects, roles, distributed repositories, portfolio management
 - Modelio Studio to define Modeling extensions & customizations

Thank you for your attention

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