

Eclipse Enterprise Modeling Day

Models as First Class Citizens in the Enterprise



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Table of Contents

SECTION 1	Model Centric	2
SECTION 2	Current Tooling	6
SECTION 3	Vision SDLC Modeling Platform	8
SECTION 4	Eclipse Modeling Platform	10
SECTION 5	Appendix	12

SECTION 1

Model Centric

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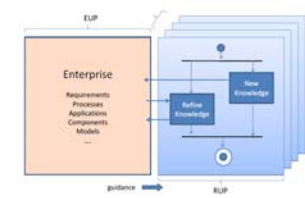
Model Centric

UBS introduced a new process framework that covers the different activities to realize high quality software products.

The aim is the alignment with market standards to be a competitive player on the market. A major goal of the initiative is the description of requirements and their analysis and design as formal models unlike the widely-used informal prose description.

The models must be a first class citizen in our enterprise.

*A **Model** captures a view of something specific. It is an **abstraction**, with a **certain purpose**. Thus the model completely describes those aspects that are relevant to the purpose of the model, at the appropriate level of detail.*



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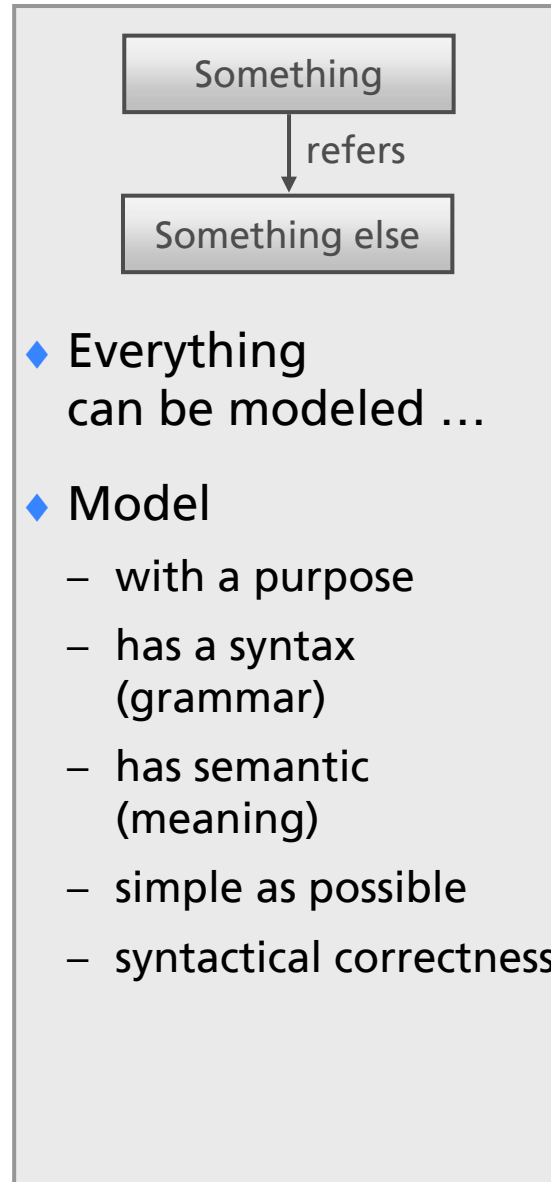
Model Centric

◆ Enterprise Disciplines

- Enterprise Business Modeling



- Enterprise Architecture



◆ Project Disciplines

- Business Modeling



- Requirements

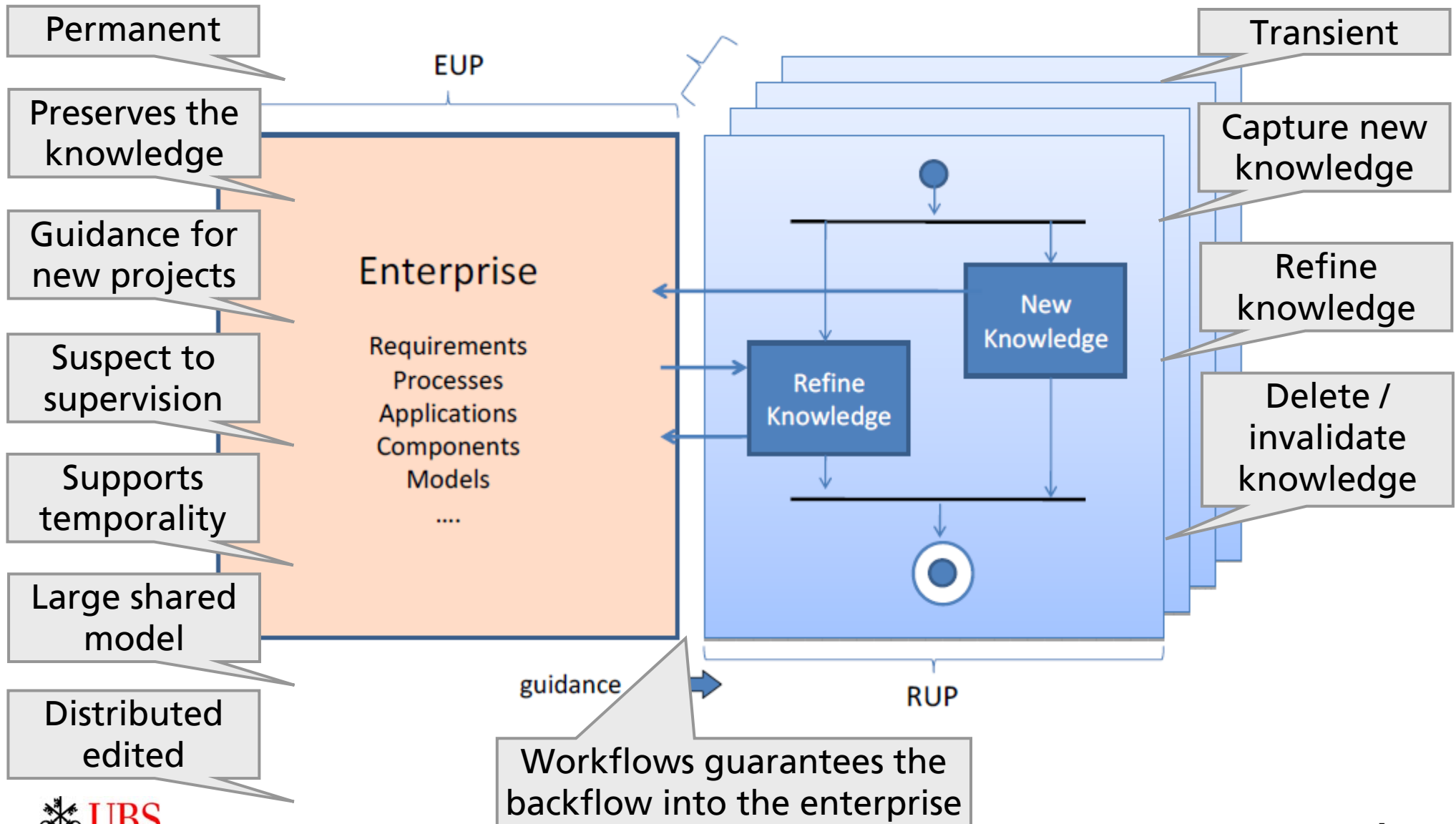


- Analysis and Design



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Model Centric - Enterprise vs. Project

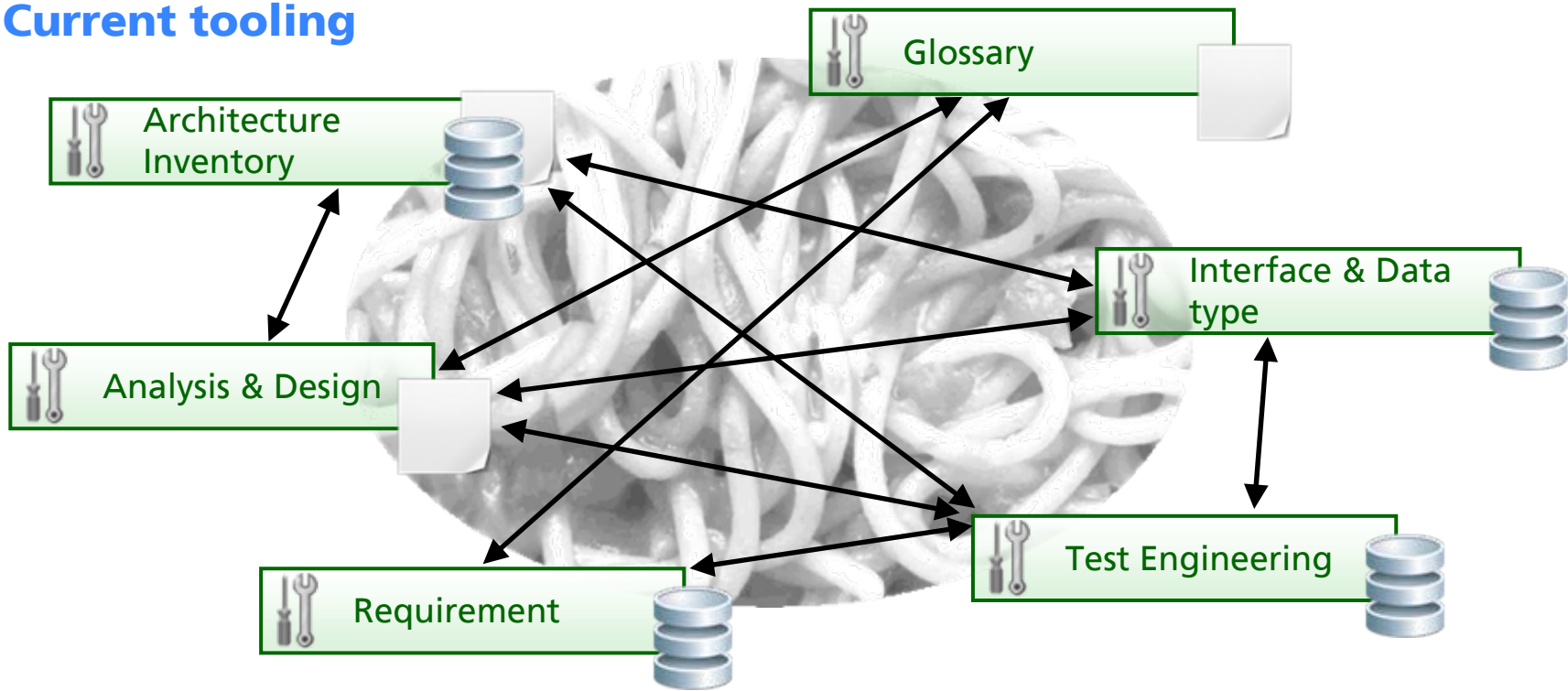


SECTION 2

Current Tooling

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Current tooling



- Point to point integration
- Data redundancy and inconsistency
- Outdated data
- No online accessibility (private storages like shared drives, local drives)
- Lots of unstructured content (Word, Visio, PowerPoint)
- Lack of semantic
- Traceability hard to achieve

SECTION 3

Vision SDLC Modeling Platform

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Vision SDLC Modeling Platform

- ◆ Platform supporting Modeling & Engineering disciplines of our Software Development Process
 - Model Centric
 - Scalable & Collaborative
 - Forward Engineering (for new project)
 - Reverse Engineering (understand the current implementation, enable transparency)
 - Integration through repositories
 - Role specific tooling support
 - **Consistence knowledge base**
 - Enable Software Factory approach for specific areas
- Demo – Proof of concept SDLC Modeling Platform
 - CDO
 - EMF
 - Zest
 - Eclipse Forms
- Proof of concept motivation
 - Evaluate possible technology candidate for the EMP
 - Prioritize EMP requirements



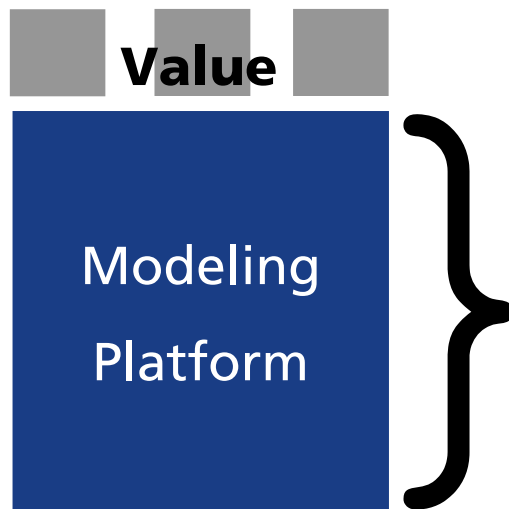
SECTION 4

Eclipse Modeling Platform

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Eclipse Modeling Platform

- ◆ Share and sound vision with other companies
- ◆ Alignment of eclipse technology for enterprise usage
- ◆ Additional Capabilities needed (findings from POC)
 - Meta Model Evolution (Migration of Model Instances)
 - Generic Traceability Support
 - Generic Workflow (Processes) Support
 - General Purpose Modeling Language Support
 - Graphical Editing (Graphiti)



SECTION 5

Appendix

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Tooling principles (1/2)

- ◆ Developer workplace is centered around the Eclipse IDE
 - For modeling and implementation
 - Fast navigation in model and code and roundtrip between model and code
- ◆ Use technologies and tools based on open standards
 - Avoid vendor lock-ins
 - Prefer 'use' over 'buy' over 'build'
 - Support different sourcing strategies
- ◆ Follow 'separation of concerns' ('low integration')
 - Separate editor, model and generator
 - Model and technology aspects
 - Abstraction levels
 - Integration through repositories

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Tooling principles (2/2)

- ◆ Modeling Principles
 - Early validation / testing
 - Guidance, wizards and content assistance
 - Keep it as simple as possible, prefer ease of use
 - Model with a purpose
 - Prefer content over representation
 - Prefer convention over configuration
 - Enable collaborative work
 - Embrace change
- ◆ Sounding / Expertise
 - Sounding against internal and external experts

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Eclipse Modeling Platform – UBS Top 5 Requirements

- ◆ Prio 1 - A1 - Managing versions on various model granularity, meta-model and instances
 - 1.1 a)+E-Config-1 - Versioning of metamodels and instances
 - 1.2 a) -Support of multi-user and distributed development teams
- ◆ Prio 2 - A6 – Migration
 - 6 a) - Support for automatic application of metamodel changes to model instances
- ◆ Prio 3 - A5 – Traceability
 - 5.1 a) - Creation of relationships between model elements that are independent of their metamodel(s)
 - 5.1 b) - Visualization of these relationships and traceability between model elements
- ◆ Prio 4 - A3 – CompareMerge
 - 3.1 a) + E-Comp-1 - Parallel work on different parts of a model and merge of resulting changes into a common model
- ◆ Prio 5 - A2 - ChangeTracking

Contact Information



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