



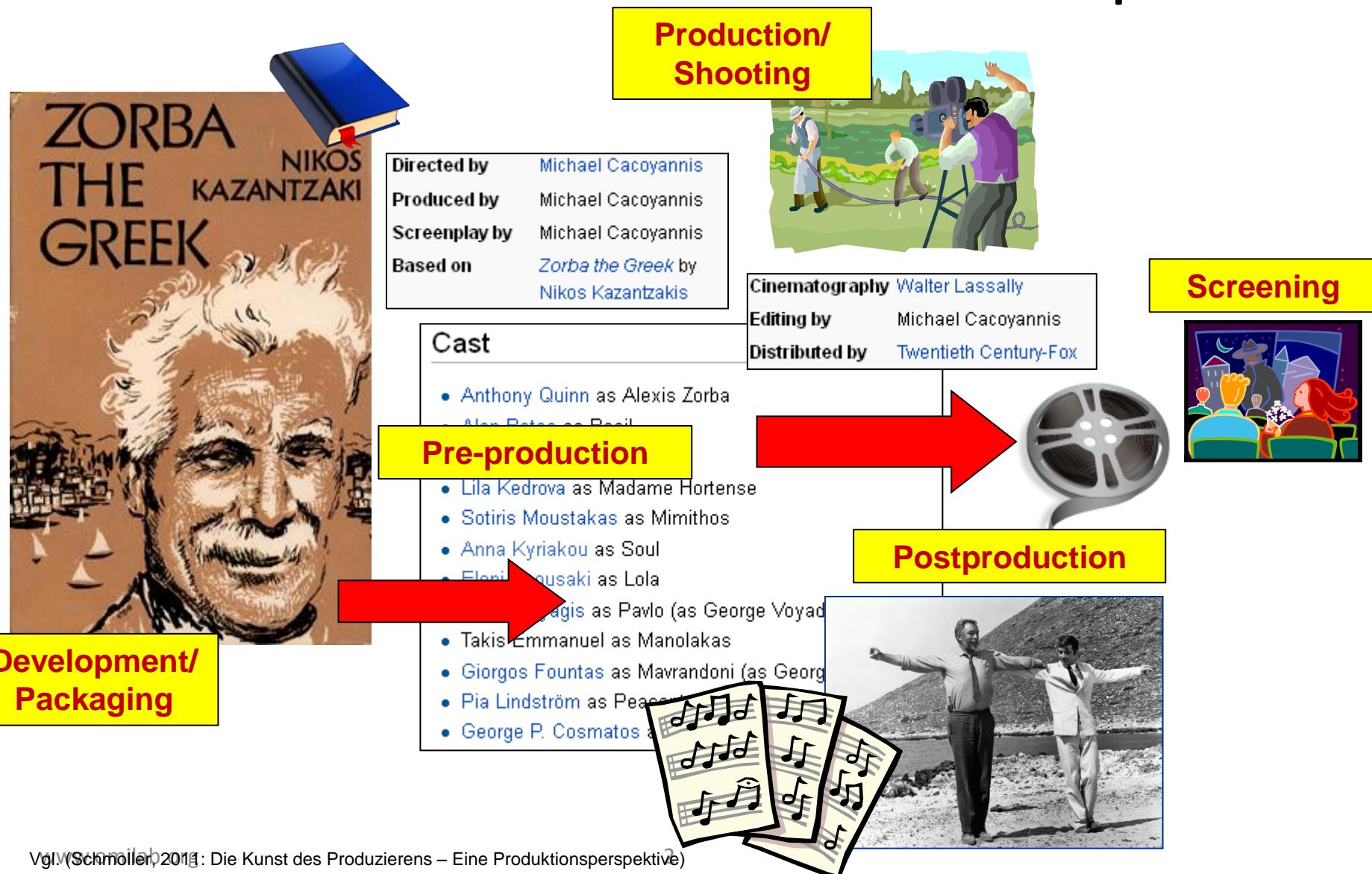
# 32nd International Conference on Conceptual Modeling / ER 2013 - Hong Kong

## PANEL I: Are we Close to Open Models?

# The Conceptualisation Process of Modelling Methods

Dimitris Karagiannis

# “From Book to Movie” – A Metaphor



# “From Book to Movie” – A Metaphor

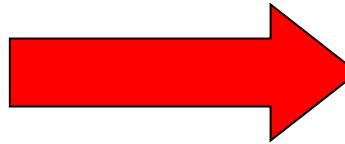
Screening

Production/  
Shooting

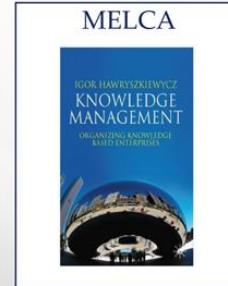
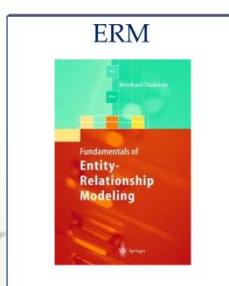
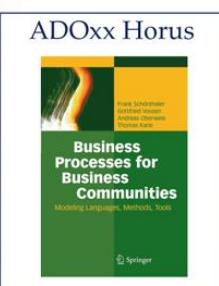
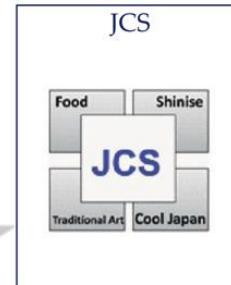
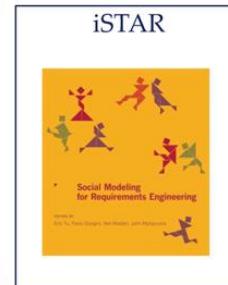
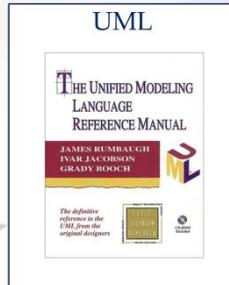
Pre-production

Postproduction

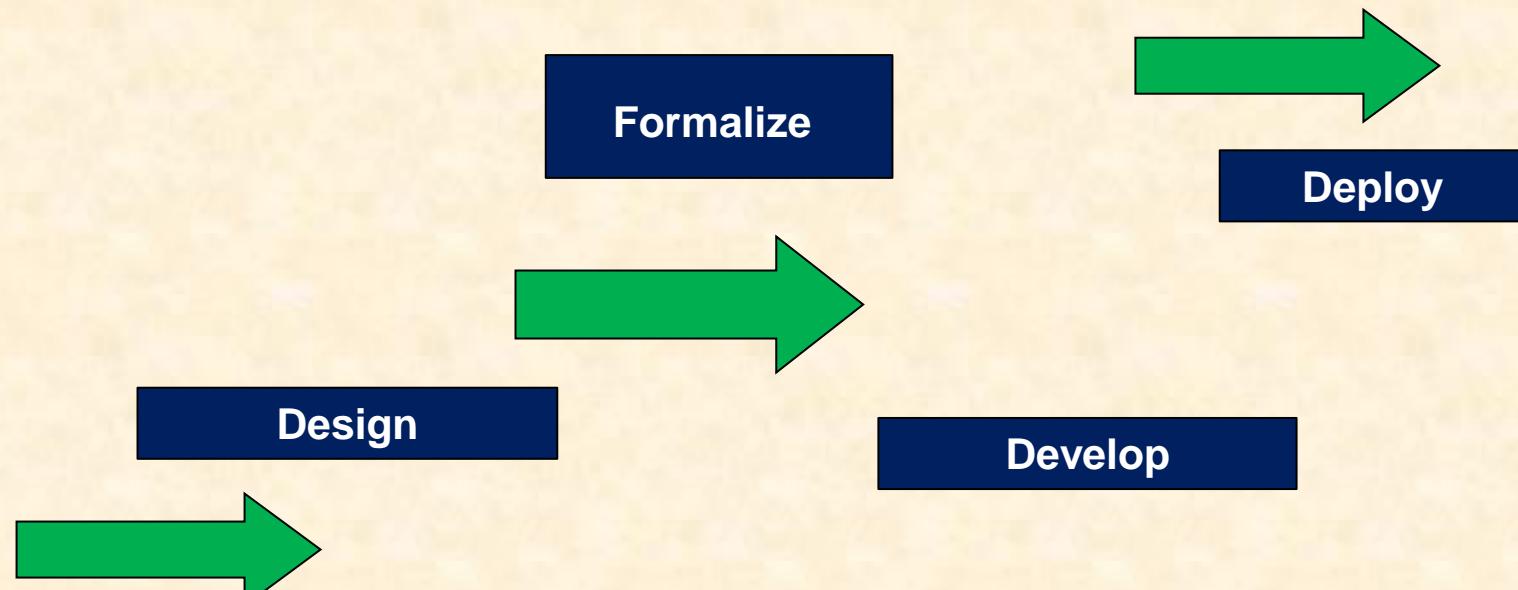
Development/  
Packaging



# What if the book is a .....



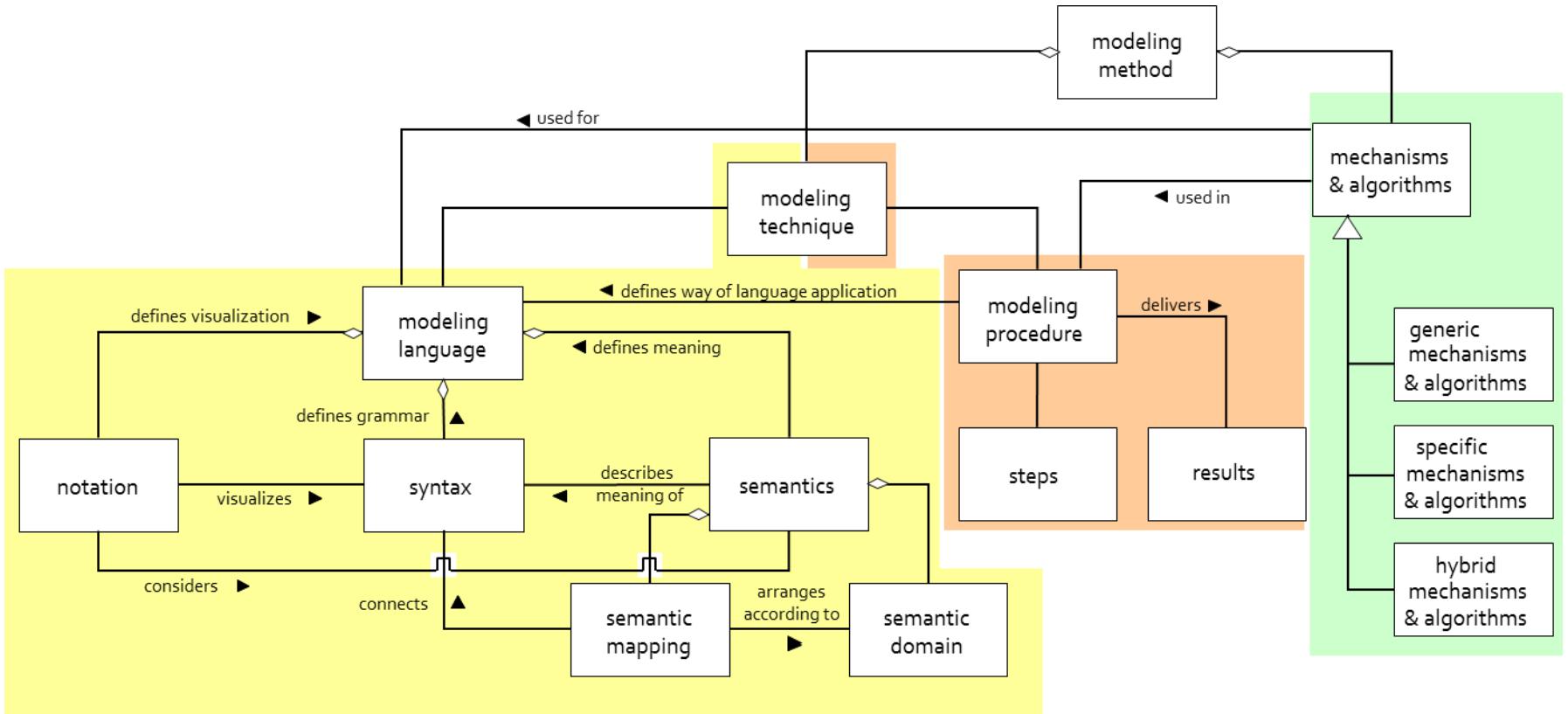
# Conceptualization Process of Modeling Methods



Create

“The **OMLAB**<sup>®</sup> Life Cycle”

# Generic Modelling Method Framework



# A Holistic Conceptual Metamodel



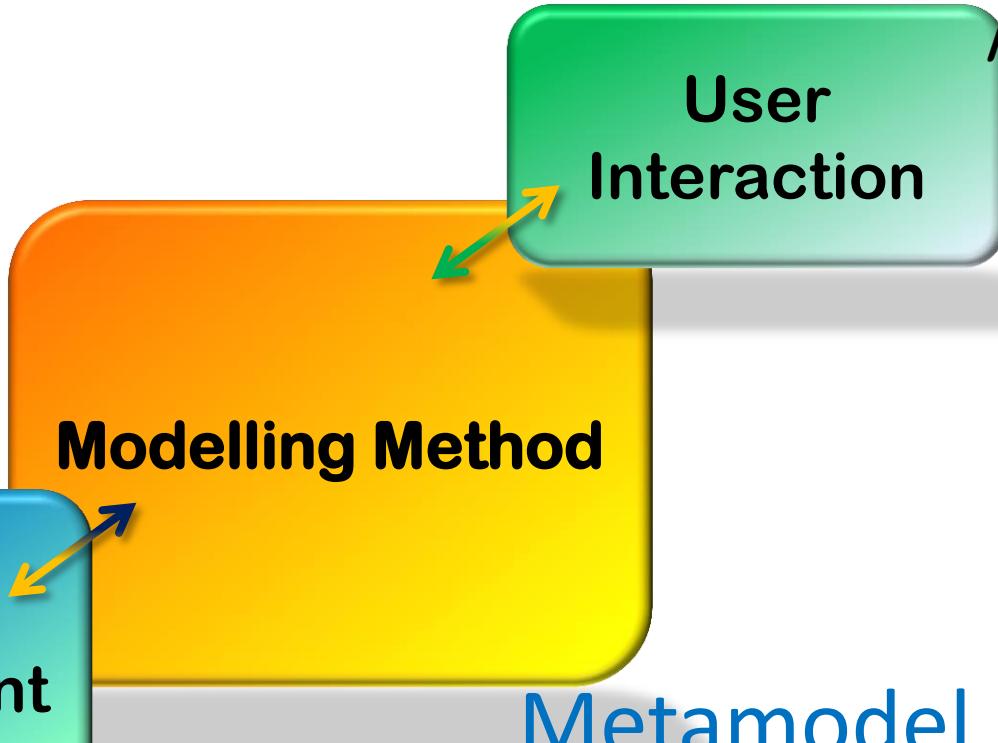
*Modeller*

Holistic

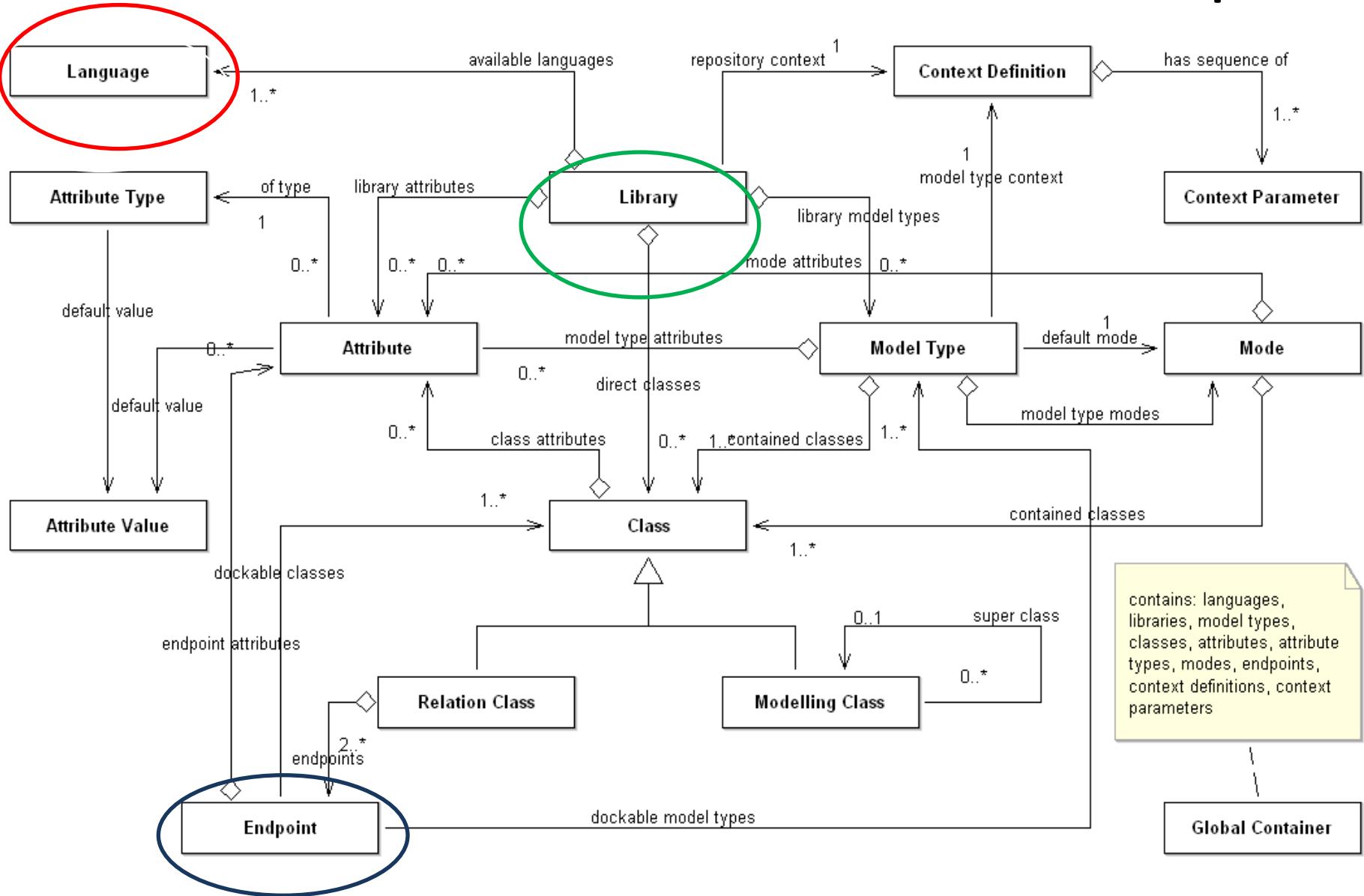
Conceptual



*Modelling Tool -  
Developer*

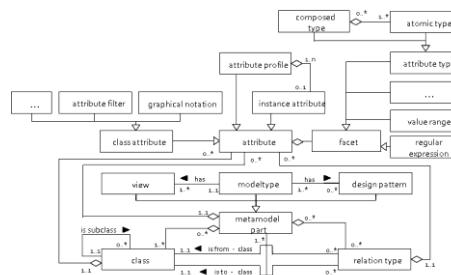


# Build holistic metamodels: An Example

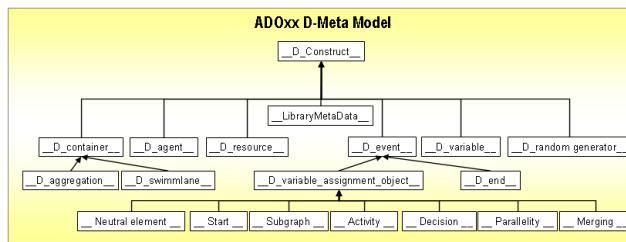


# Using Meta Models for Conceptualization

## Meta<sup>2</sup>Model

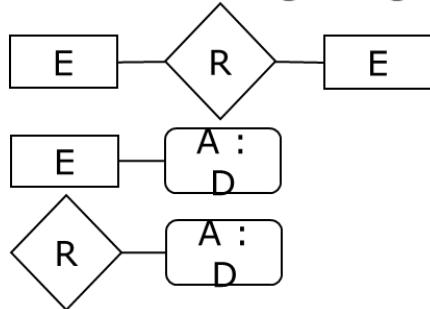


## Operationalisation MetaModel



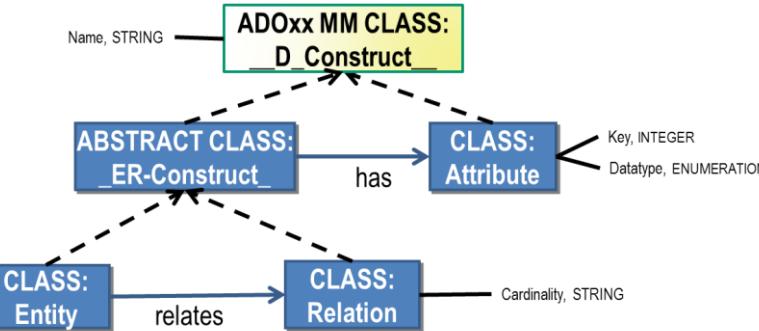
„Meta Model-  
Level“

## ER – Modelling Language Definition



E(A<sub>1</sub>:D<sub>1</sub>, ..., A<sub>m</sub>:D<sub>m</sub>)  
E(A<sub>1</sub>, ..., A<sub>m</sub>)  
R(A<sub>1</sub>:D<sub>1</sub>, ..., A<sub>m</sub>:D<sub>m</sub>)  
R(A<sub>1</sub>, ..., A<sub>m</sub>)

„Modelling Language -  
Level“



„Usage Level“

# The OMILAB Structure

- A research and experimental laboratory for the conceptualization, development and deployment of modeling methods and the models designed with them.
- Project space for Engineering of **modelling methods and modeling tools**
- A space for a community of researchers and practitioners sharing a common understanding about model value

**Organization:** University of Vienna,  
Faculty of Computer Science

**Research Group:** Knowledge Engineering



OMiLAB@Faculty of Computer Science  
Währinger Str. 29, 1090 Vienna, Austria

# Some Current Projects

- ADOxx Horus Method
- BEN
- BIM
- CIDOC
- Co-creation in Design Teams
- ComVantage
- COPROM
- DIBA
- eGPM
- EKD
- IMP2.0
- Information Security
- iStar
- iStarSuperSet
- JCS
- MeLCa
- MoSeS4eGov
- OKM
- OMiStarT
- PetriNets
- pmSOA
- PROMOTE
- Secure Tropos
- SemFIS
- SOM
- VLML



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Lifelong  
Learning  
Programme

# SUMMER SCHOOL

## Next Generation Enterprise Modelling Methods | Frameworks | Tools

- ❖ Foundations & Technologies
- ❖ Conceptualization & Development
- ❖ Application Domains & Best Practices
- ❖ Cross-Cutting Issues

Klagenfurt JULY 2014, 6-19

[www.omilab.org/camp2014](http://www.omilab.org/camp2014)



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# The Conceptualisation Process: A Challenge

To structure

the MM conceptualisation process from a creative task to a **systematic approach**

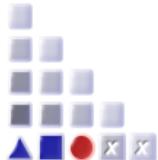
for **handling** "conceptual models" and make them more **applicable**

supported also by the conceptual modelling community in a "**models for everyone**" spirit.

# THANK YOU FOR YOUR ATTENTION!



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