

## FURTHER PROJECTS: BIM/CANADA, EKD/UK, MEMO/GERMANY





Presenter: Wilfrid Utz

#### Agenda



**BIM: THE BUSINESS** INTELLIGENCE MODEL

Daniele Barone, Lei Jiang, Eric Yu, Daniel Amyot and John Mylopoulos



L'Université canadienne Canada's university

University of Ottawa



University of **Toronto** 

**EKD: THE ENTERPRISE KNOWLEDGE** DEVELOPMENT **METHOD** 

Pericles Loucopoulos



Loughborough University

MEMO: **MULTI-PERSPECTIVE ENTERPRISE MODELLING** 

Ulrich Frank

Universität **Duisburg-Essen** 





### The Business Intelligence Model

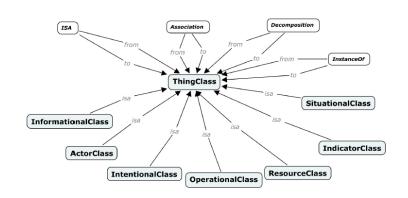


- Business Intelligence consists of a range of technologies intended to assist large organizations in determining the state and quality of their operations.
- Business Intelligence activities are meaningful in the context of an organization and its strategies, tactics and objectives, as well as in the broader (external) context, involving regulations, competitors, customers, markets, which highly influences the organization business.
- The Business Intelligence Model (BIM) provides a set of constructs for modeling and analyzing a business context consisting of goals, situations, processes, actors, influences, key performance indicators, and more. Please refer to the technical report <a href="mailto:ftp://ftp.cs.toronto.edu/csrg-technical-reports/607/BIM-TechReport.pdf">ftp://ftp.cs.toronto.edu/csrg-technical-reports/607/BIM-TechReport.pdf</a> for more information about BIM.

### BIM and the ADOxx Platform: A Prototype

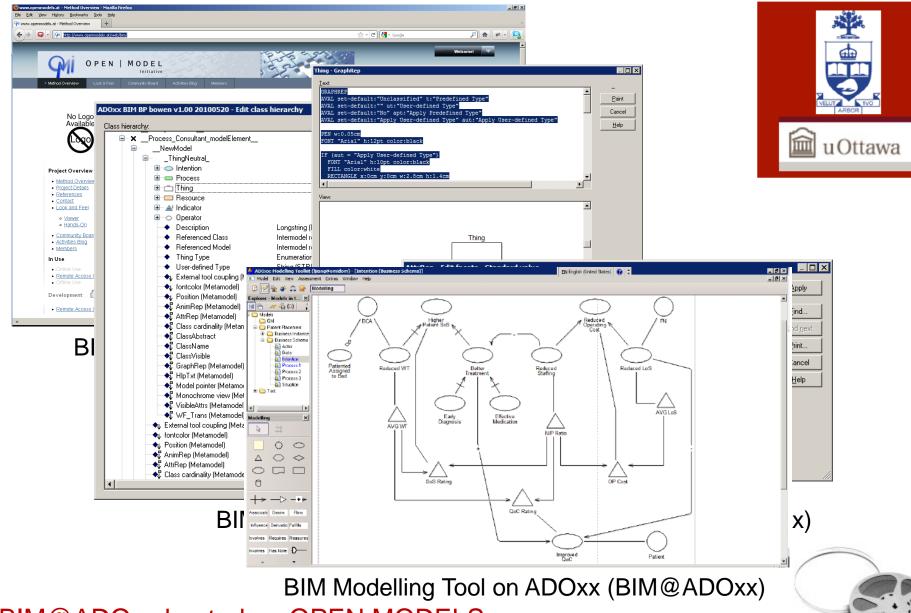


- We have implemented a BIM prototype (BIM@ADOxx) on the ADOxx platform. The prototype is currently hosted at the Open Models Initiative's site: <a href="http://www.openmodels.at/web/bim/">http://www.openmodels.at/web/bim/</a>.
- The current version of the prototype allows users to design business schemas that describe internal and external factors (and relationships among them) involved in the organization business, such as goals, processes, resources, etc.



A Fragment of the BIM's Meta Model





BIM@ADOxx hosted on OPEN MODELS:

http://www.openmodels.at/web/bim/

OMI Project Status: UNDER DEVELOPMENT

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BIM: THE
BUSINESS
INTELLIGENCE
MODEL

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University of Ottawa



**Toronto** 

EKD: THE
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UNIVERSITÄT DUISBURG FSSFN

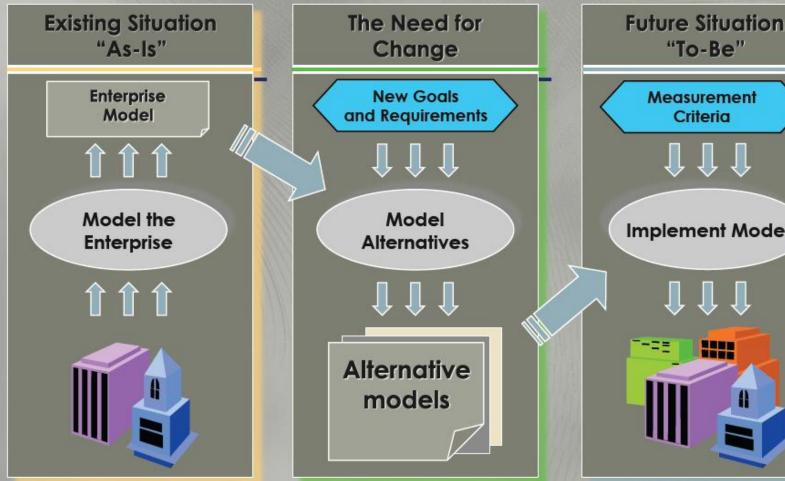
> Universität Duisburg-Essen





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#### **EKD** is a Method for ...



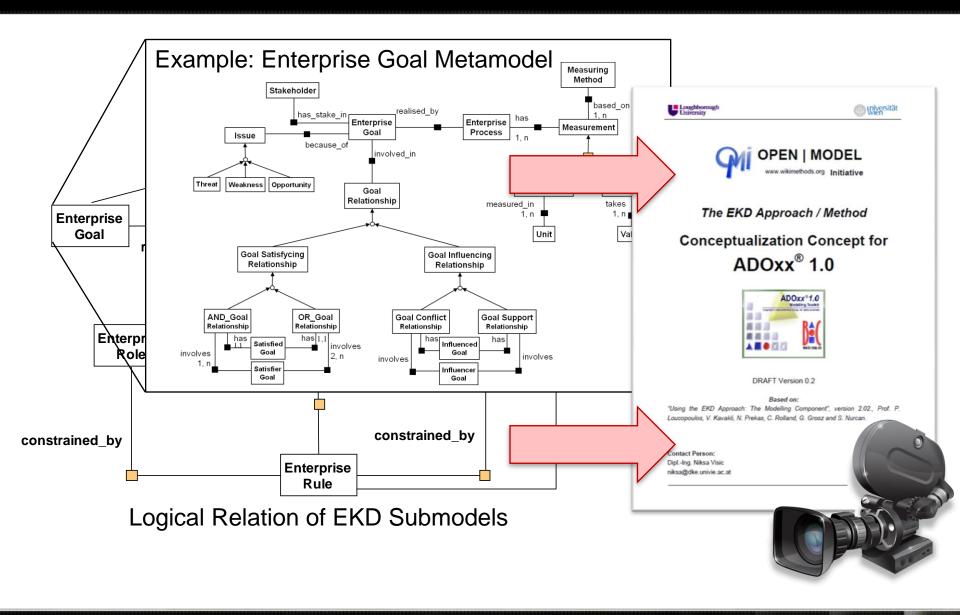
"To-Be" Measurement Criteria Implement Model

**Discovering Deliberating** 

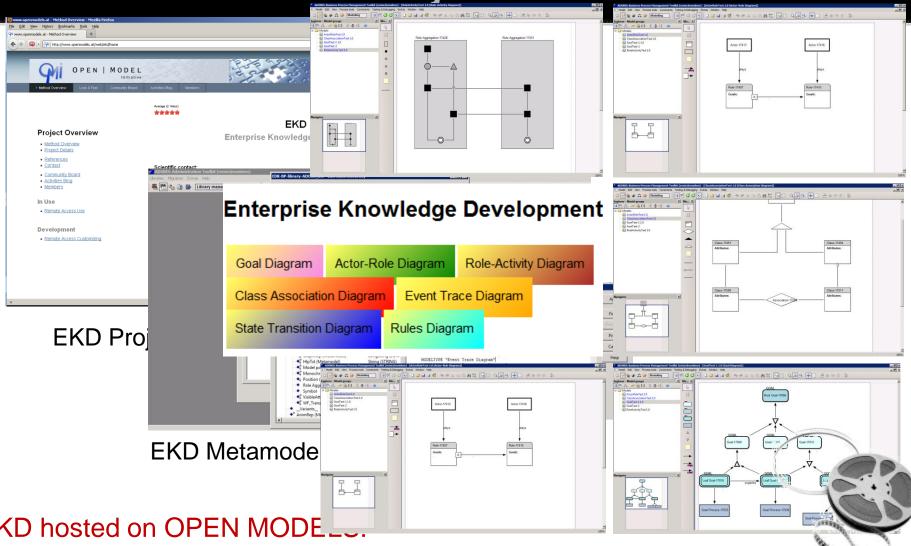
Designi

Invited Talk by Prof. Loucopoulos; December 2010; University of Vienna;

#### **EKD Conceptualisation Results**



**EKD Project on OMI** 



EKD hosted on OPEN MODEL.

http://www.openmodels.at/web/ekd/

OMI Project Status: UNDER DEVELOPMENT

EKD Modelling Tool on AND:

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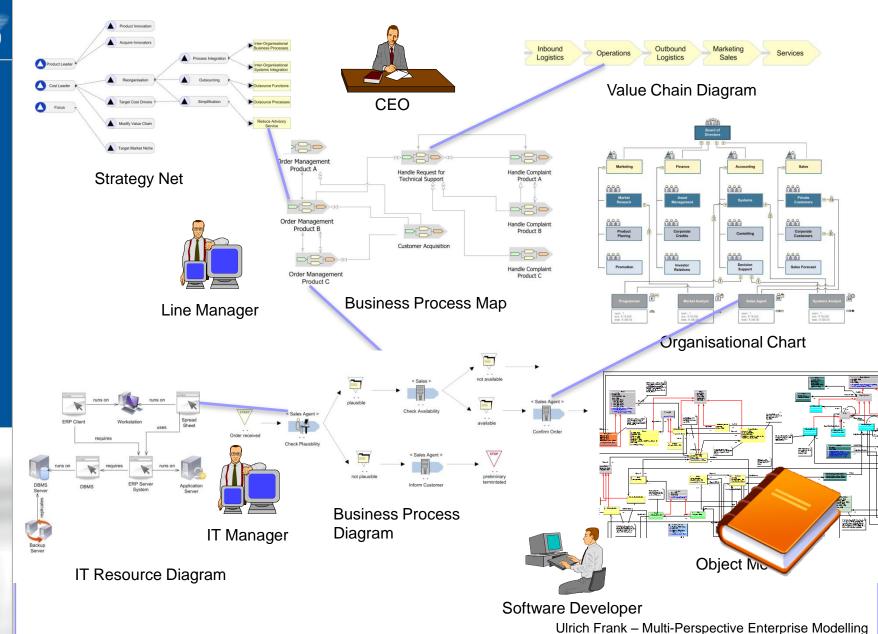
#### **Multi-Perspective** Enterprise Model

An enterprise model integrates at least one conceptual model of the information system (e.g. a data model) with at least one conceptual model of the relevant action system (e.g. a business process model).

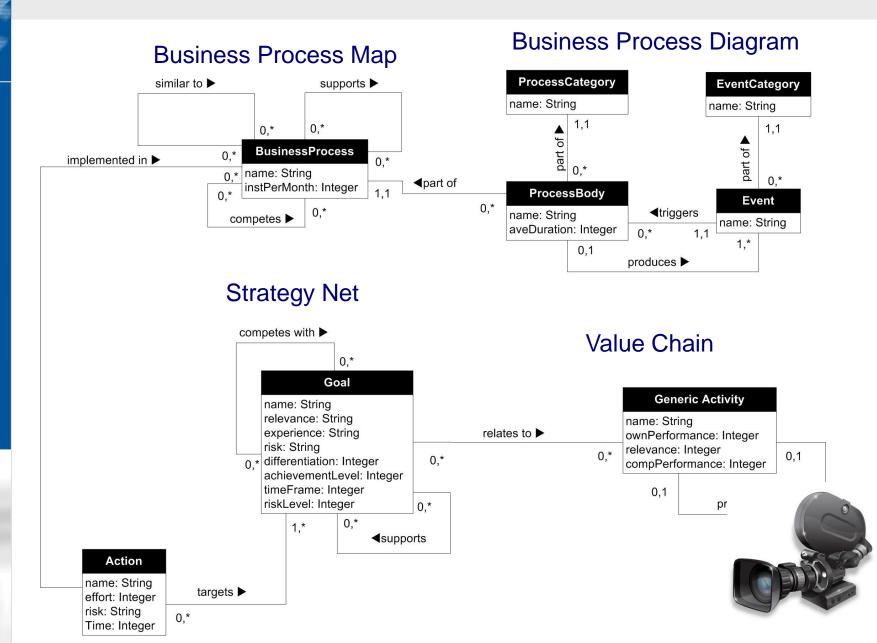
A multi-perspective enterprise model differentiates between various explicit perspectives, which will usually correspond to professional views. These perspectives are represented in models constructed with domain-specific modelling languages (DSML).



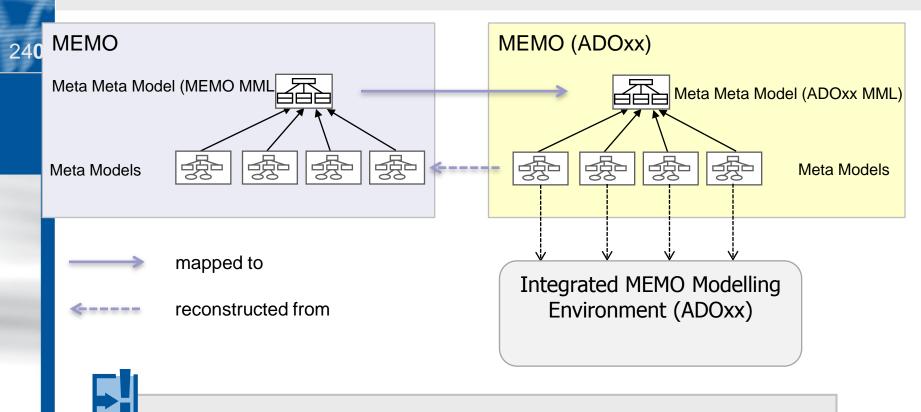
#### **Enterprise Model: Integration of Perspectives**



#### Integration of Meta Models (simplified)



#### Reconstructing MEMO with ADOxx



Advantages: Reduce time from language specification to tool implementation by using ADOxx meta modelling features and by reusing ADOxx features.



# THANK YOU FOR YOUR ATTENTION!





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