About some practical problems concerning UML, BPMN and database integration

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FAKULTÄT FÜR INFORMATIK

Talk at IFIP WG 1.3 meeting, Eindhoven

Project open_eGo

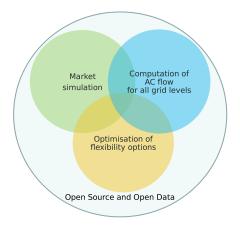












Web platform (Django)



About

We are a grass root initiative of modellers from various universities and research institutes across Open models and open data will advance knowledge and lead to better energy policies. Open upenergy models improves quality, transparency, and oredibitity, leading to better research and policy advice.

Activities

The openmod initiative is a network, an interest group, and a platform. We exchange ideas and source code, libibly for policy support for open projects, and actively share data, code and knowhow. View Projects =

Connect!

- Come to our next workshop: 28-29 April at KTH Stockholm
- Join our mailing list
- Add/find open-data and open models on the wiki
- Write us an e-mail:
 mailfatlopenmod-initiative.org

View manifesto - View Project

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Aim

Energy net simulations (Python)







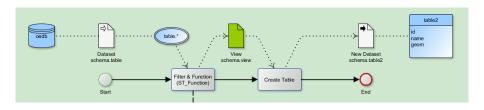








Databases (PostgresQL)



Practical problem: Modelling with UML, BPMN

- UML use cases
- BPMN / UML activities for data integration, database setup
 - derive or annotate PostgresQL implementation
- UML class diagrams + OCL for data models
 - consistency?
 - compatibility with Djano data models
- possibly: UML state machines for workflows
 - derive Python implementation

Are there formal-methods-based and off-the-shelf usable tools for UML and BPMN?

• Hugo-RT, UMLtoCSP, EMFtoCSP, ...

Database schema integration

- Different energy grid modeling tools
- Based on different but overlapping databases

This cries for a database schema morphsim/colimit based approach for integration . . .

Are there formal-methods-based and off-the-shelf usable tools for database schema integration?