#### Are we Close to Open Models?

John Mylopoulos University of Trento

Panel discussion, ER 2013, Hong Kong, November 12, 2013



## Models here-and-there and everywhere

The use of conceptual models in Computer Science and Information Management is (finally!) a fact beyond dispute or discussion.

Models are used routinely for software design, data management, enterprise management, system adaptation, ...

As with software, the next big challenges to tackle are: How do we build large models? ... Bring down the cost of building them?? ... Do so while improving their quality???

As with software, the answers are: (a) Models as components,(b) Automated generation of models, (c) Open models.

# Models as components

Basic idea here is that we build models as components that have a well defined interface and can be composed into large models through some form of composition.

- Interfaces allow the management of name spaces.
- Semantic Web folks have been doing similar things with ontologies.

# Automated generation of models

For software, there are generative techniques that generate automatically code from domain models.

The OO Method (Pastor et al) is a good example of a successful generative method.

For models, we need techniques that support the generation of models from existing information sources, such as legal text (Natural Language), log data (structured data)

# **Open models**

We want to duplicate the success of open source software (OSS).

For OSS, large communities of use have been built around a software system of general interest, e.g., linux.

These communities have been sustained by a simple legal framework and a set of operational rules of conduct.

OSS works thanks to a good set of operational rules, rather than new technology/tools.

#### How to get closer to open models

Find a topic of general interest that requires large models, e.g., business process models, enterprise models, ...

Get someone to contribute a substantial initial set of models.

•Others will join the community because it is much cheaper and faster to get off the ground by joining the OM community than by starting from scratch.

Our approach to making open models a reality should be *methodological* (method-based), rather than *technological* (tool-based).