MSDL

Modelling, Simulation and Design Lab

Summer Research Presentations.

Monday 28 September 2006.

McGill

School of Computer Science

Modelling, Simulation and Design Lab

One day earlier ... a few brave MSDL-ers canoeing

Model Everything !

... at most appropriate level of abstraction

... using the most appropriate formalism(s)

... transformations are first-class models

Theory/Techniques/Tool support

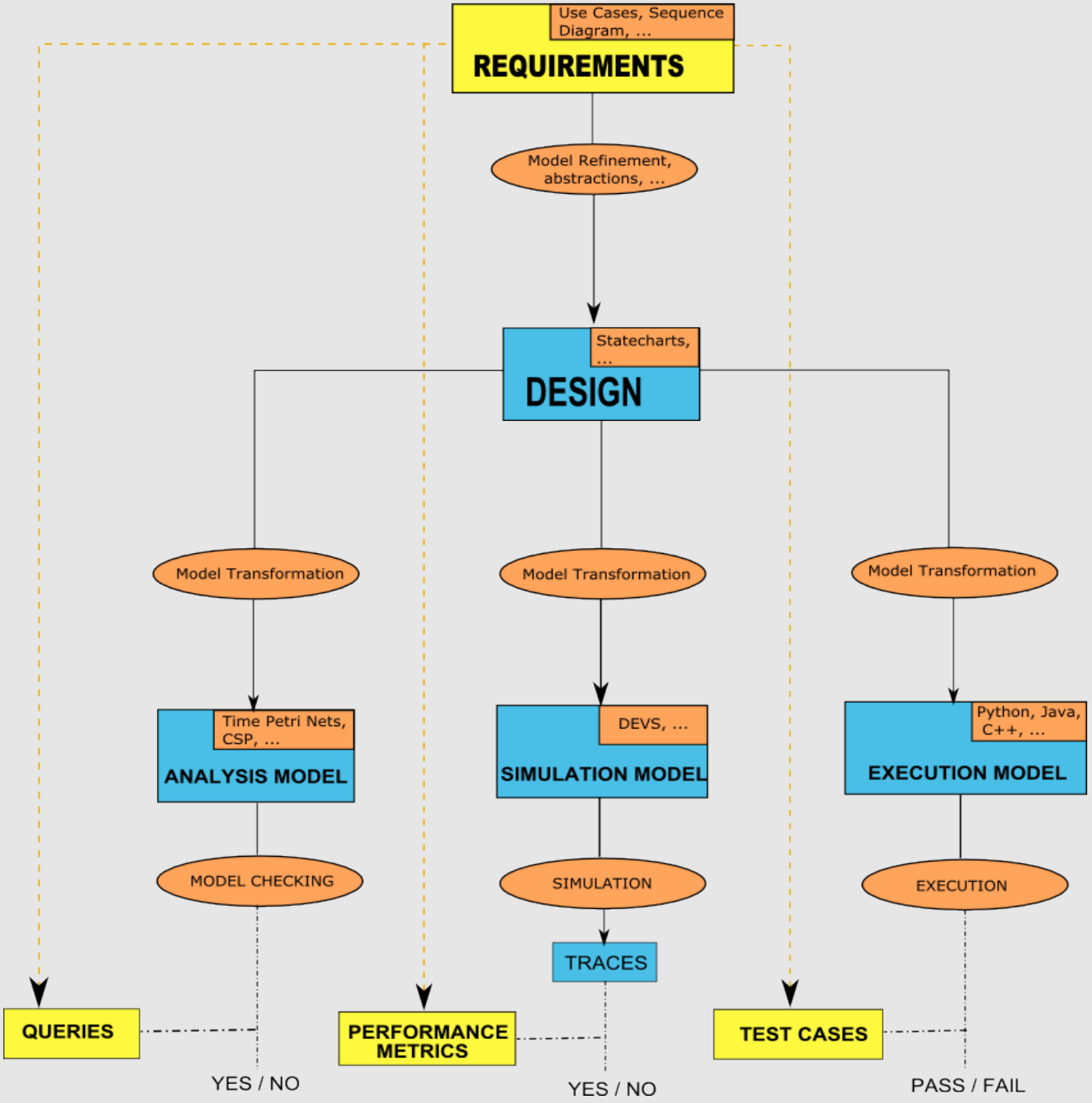
- **applications** of **domain-specific** modelling (and simulation)
  - software design (electronic ID, dependable systems, GUI, ...)
  - physical (mechatronics, Waste Water Treatment, ...)
  - traffic

- domain-specific **visual modelling**
  - specification of reactive behaviour
  - link concrete (textual and visual) and abstract syntax

- **meta-modelling** and **model transformation**
  - AToM^3 modelling and model transformation tool
  - Graph Rewriting for model transformation

- **theory/foundations**:
  - new formalisms, multi-formalism modelling
  - formalism transformation, model evolution

Modelling and Simulation Based Design



Presentation themes

- **applications of meta-modelling and model transformation**
- **new foundations for CAMPaM and its tools**
- **formalisms: Theory and Tools**
- **applications of CAMPaM**

Presentation schedule

msdl.cs.mcgill.ca/presentations/06.08.28.MSDLsummer/schedule.dtml