

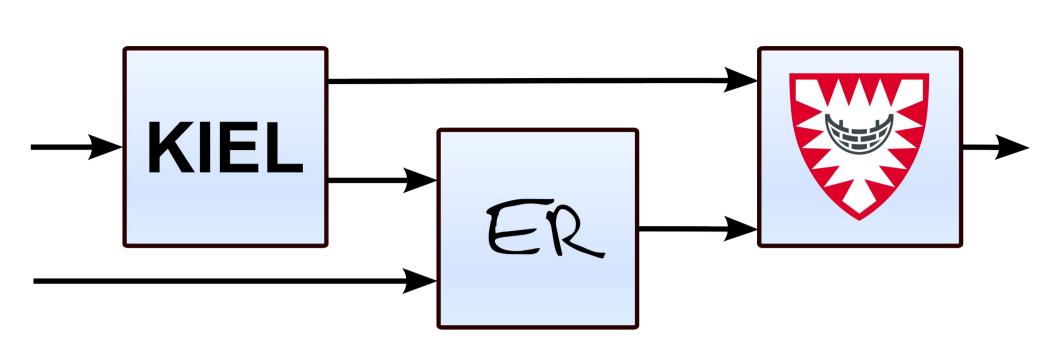
Institut für Informatik

CAU

Christian-Albrechts-Universität zu Kiel

Faculty of Engineering

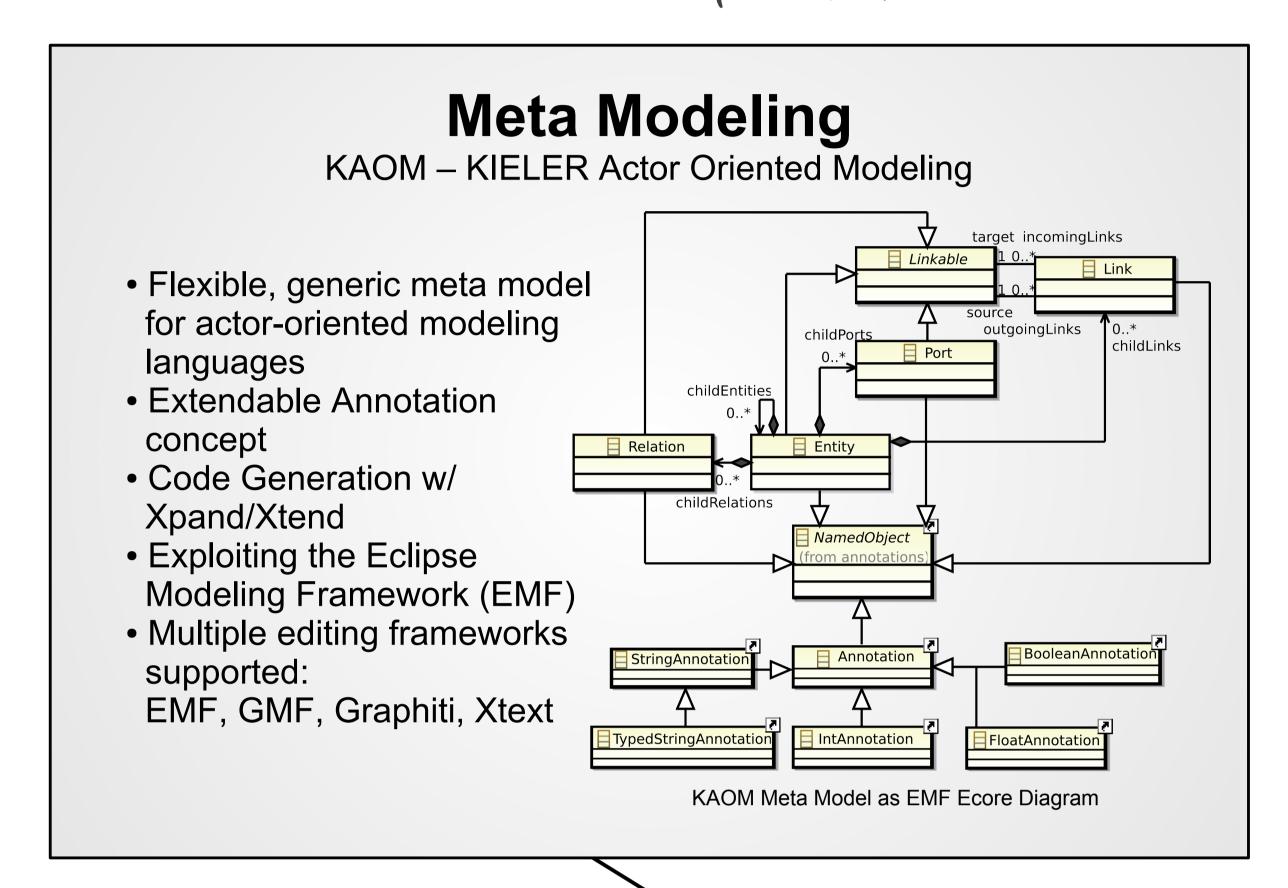
Department of Computer Science

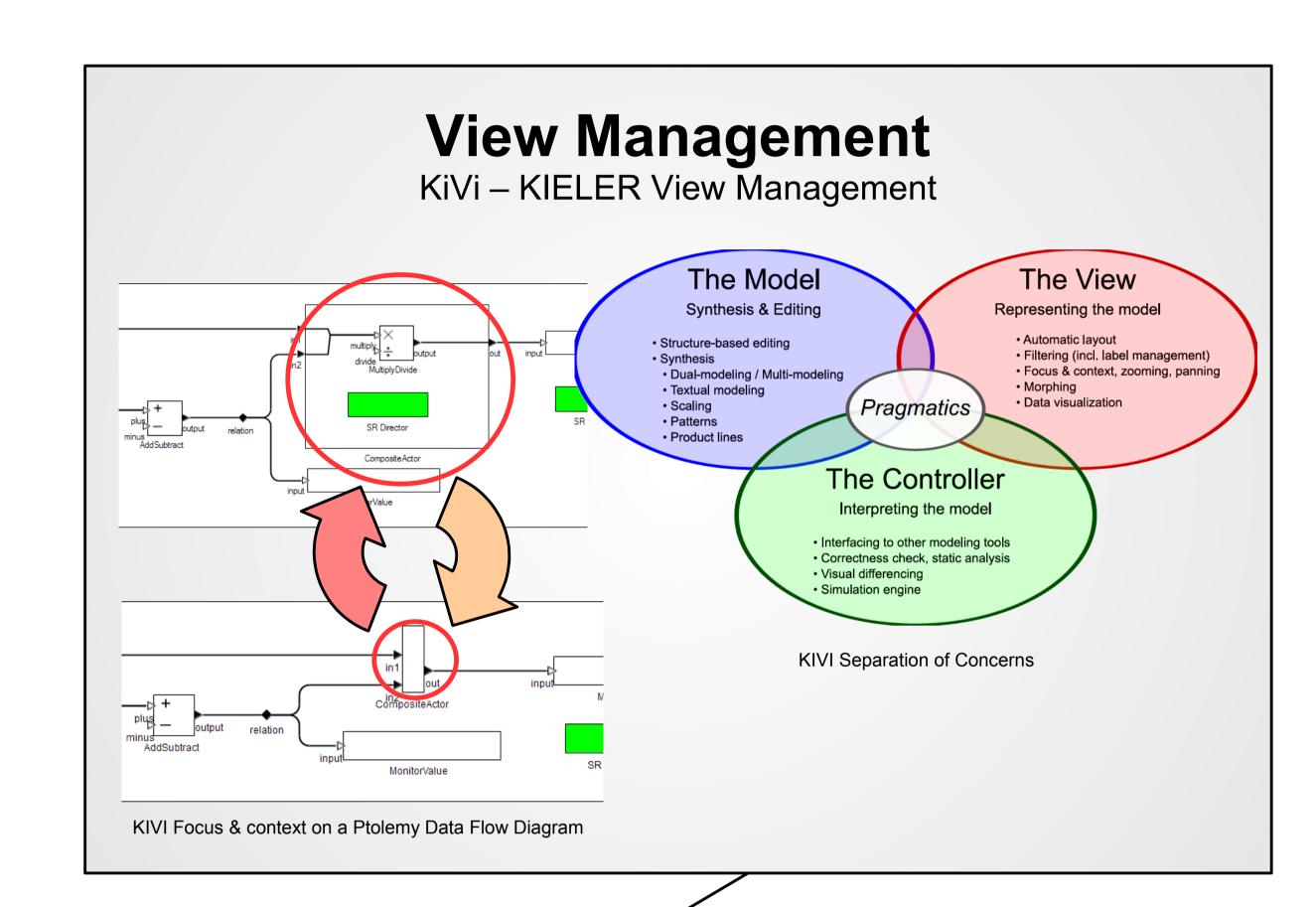


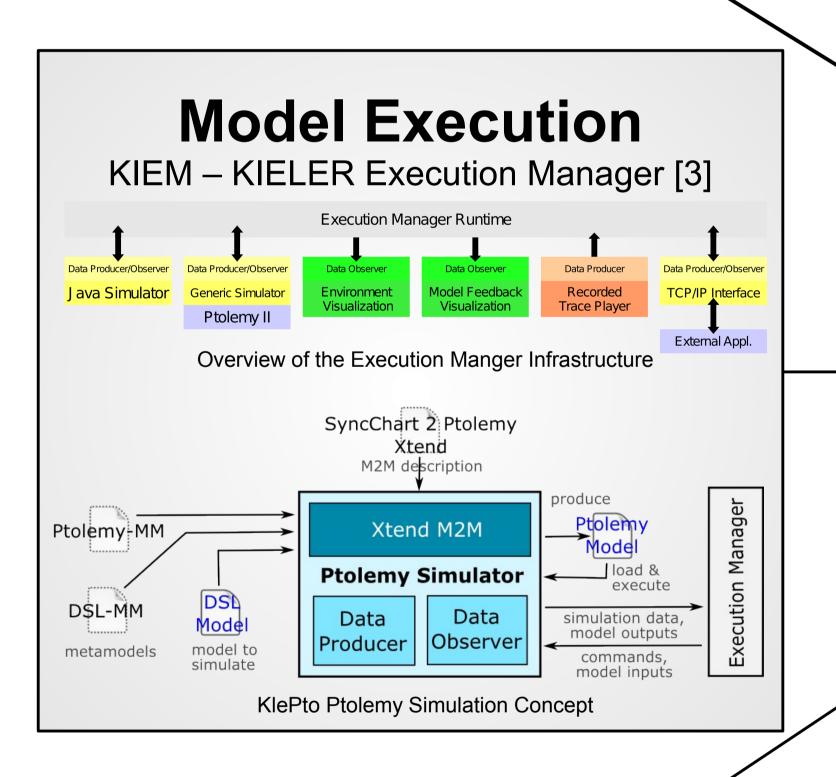
KIELER Actor Oriented Modeling

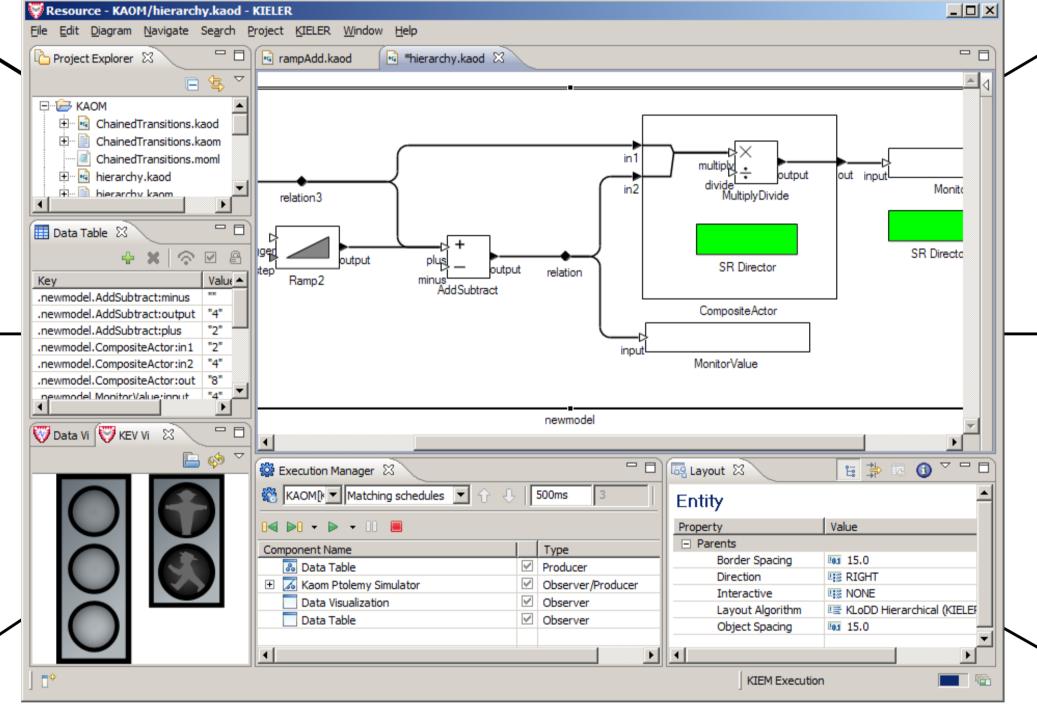
Kiel Integrated Environment for Layout

Edipse Rich Client









Data Visualization

Visualization of a Railway Installation

Traffic Light Environment Visualization

Visualization of a Railway Installation

SR Director

Animated Data Tokens

KAOM with Automatic Layout, Ptolemy rendering and Simulation in KIELER

Automatic Layout [2, 5] KIML – KIELER Infrastructure for Meta Layout [2, 5] **Proof Proof Proo

Automatic layout integrated into Ptolemy's graphical editor Vergil

Model Rendering KARMA – KIELER Advanced Rendering for Model Appearance Possible customized model rendering options: E.g., Ptolemy, LabView, Simulink, AddSubtract ASCET, SCADE Ptolemy Actor Rendering GMF editor support, Graphiti (planned) This block generating a decreasing continuous signal with initial state as 5.0 and decreasing slope as -1.0. Rendering Ptolemy annotations Display SR Director simpleRamp Rendering Ptolemy State Machines Rendering Ptolemy Data Flow

Contact Persons:

Miro Spönemann / Christian Motika Department of Computer Science Christian-Albrechts-Universität zu Kiel Olshausenstr. 40, 24098 Kiel, Germany Phone: +49 (0) 431 880-7282 /-7526 Fax: +49 (0) 431 880-7615 msp@ / cmot@informatik.uni-kiel.de http://www.informatik.uni-kiel.de/rtsys Contact Person:
Prof. Dr. Reinhard von Hanxleden
Department of Computer Science
Christian-Albrechts-Universität zu Kiel
Olshausenstr. 40, 24098 Kiel, Germany
Phone: +49 (0) 431 880-7281
Fax: +49 (0) 431 880-7615
rvh@informatik.uni-kiel.de
http://www.informatik.uni-kiel.de/rtsys

Further Information:

- http://www.informatik.uni-kiel.de/rtsys/kieler
- [1] Hauke Fuhrmann and Reinhard von Hanxleden. Taming Graphical Modeling. In Proceedings of the ACM/IEEE 13th International Conference on Model Driven Engineering Languages and Systems (MoDELS'10), LNCS, Oslo, Norway, 2010. Springer.
- [2] Miro Spönemann, Hauke Fuhrmann, Reinhard von Hanxleden, and Petra Mutzel. Port constraints in hierarchical layout of data flow diagrams. In *Proceedings of the 17th International Symposium on Graph Drawing (GD'09)*, LNCS,
- Chicago, September 2009.

 [3] Christian Motika, Hauke Fuhrmann and Reinhard von Hanxleden. Semantics and Execution of Domain Specific Models.
- In 2nd Workshop Methodische Entwicklung von Modellierungswerkzeugen (MEMWe 2010) at conference INFORMATIK 2010, GI-Edition Lecture Notes in Informatics (LNI), Leipzig, Germany, 2010.

[4] Reinhard von Hanxleden. SyncCharts in C—a proposal for light-weight, deterministic concurrency. In *Proceedings*

of the International Conference on Embedded Software (EMSOFT'09), Grenoble, France, October 2009.

[5] Miro Spönemann, Hauke Fuhrmann and Reinhard von Hanxleden. Automatic Layout of Data Flow Diagrams in KIELER and Ptolemy II. Technical Report 0914, Christian-Albrechts-Universität zu Kiel, Department of Computer Science, July 2009.