

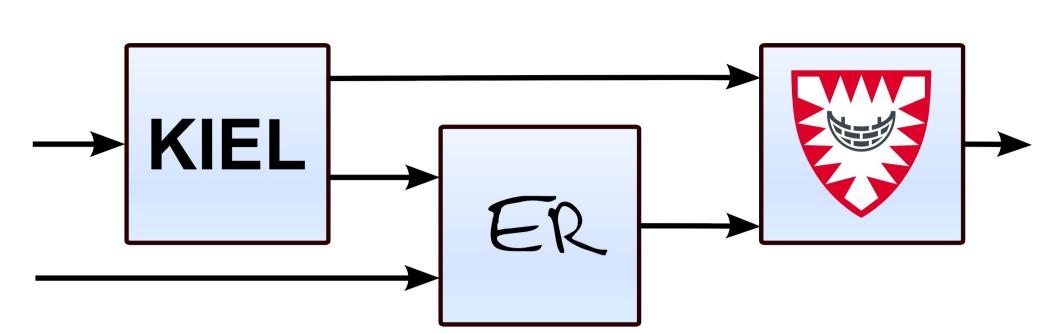
Institut für Informatik

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Faculty of Engineering

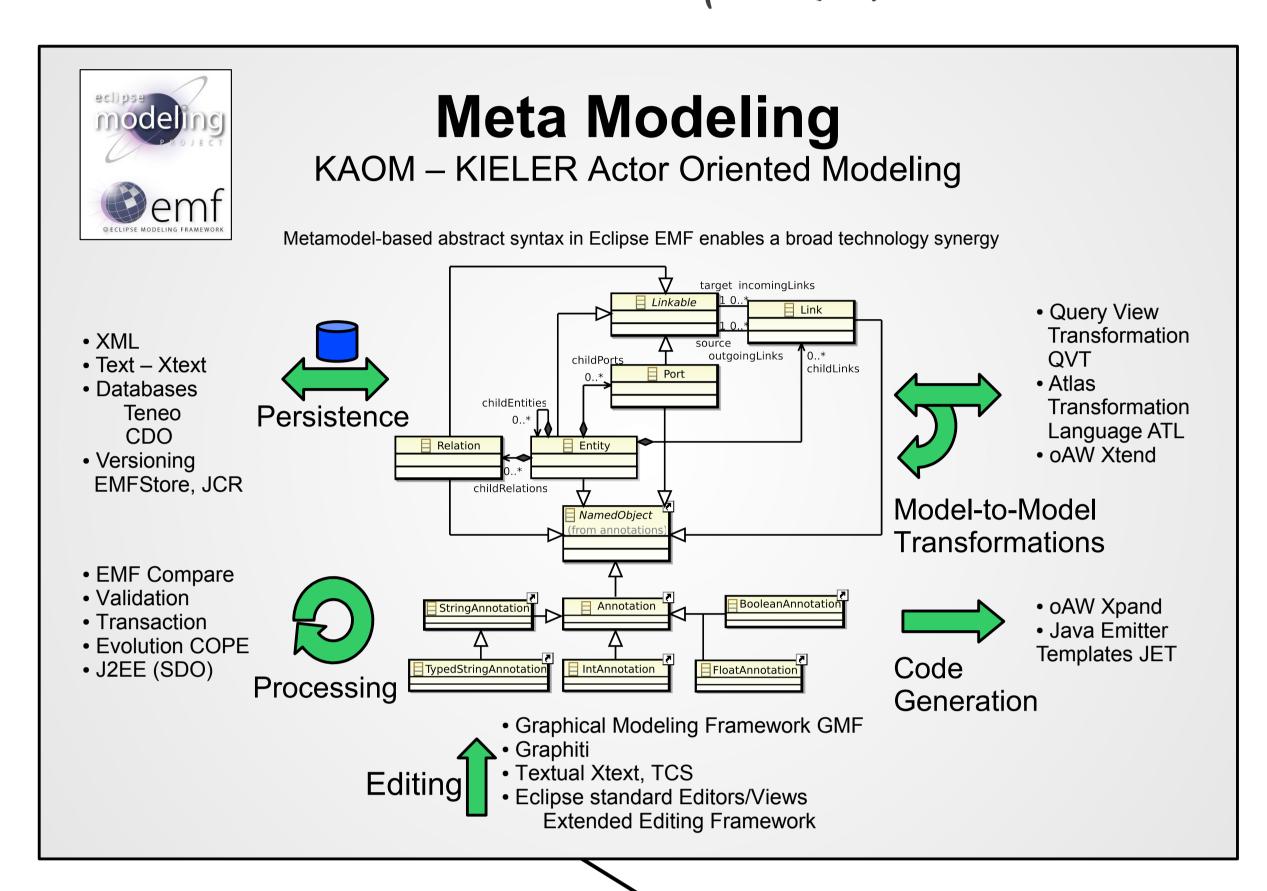
Department of Computer Science

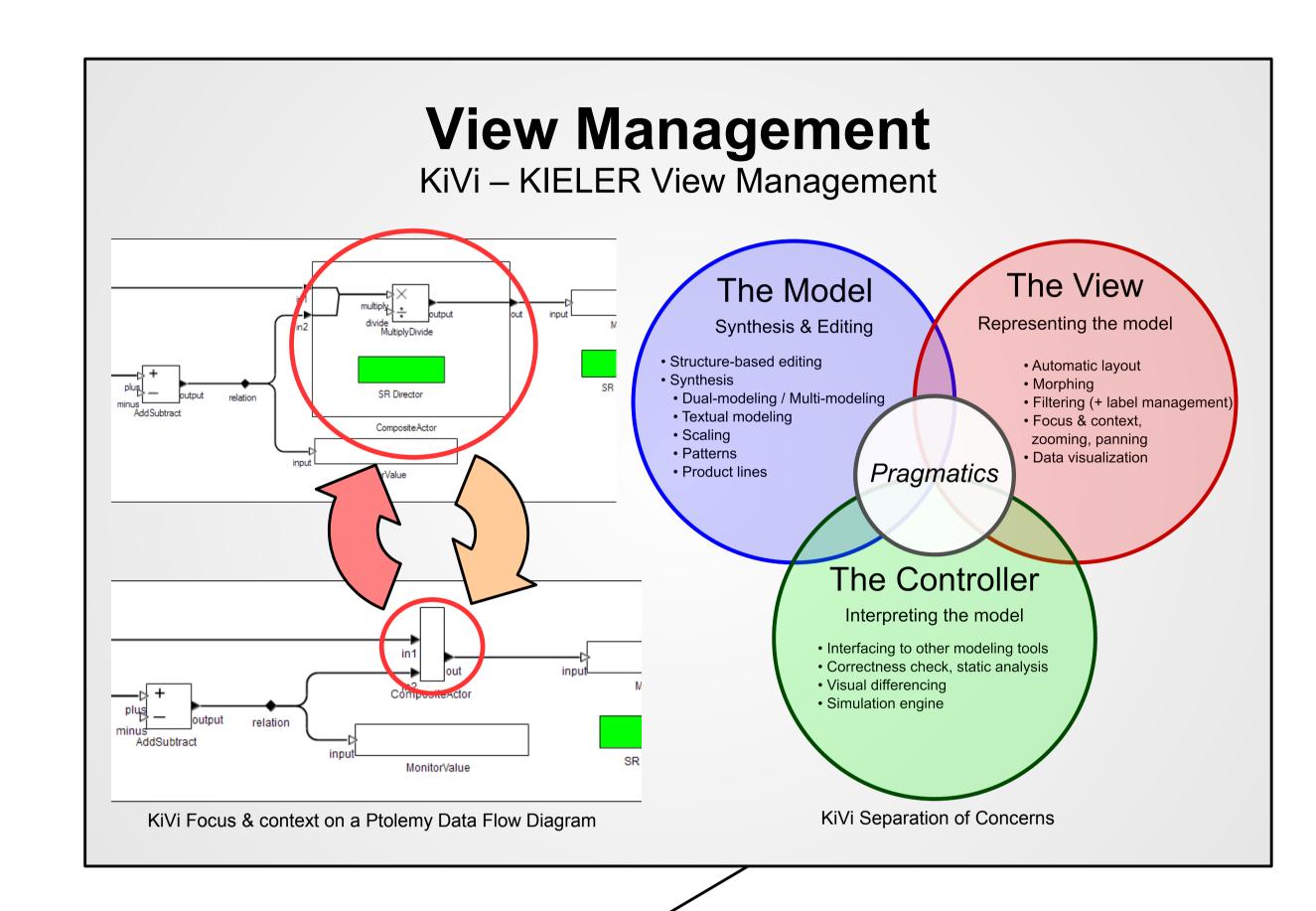


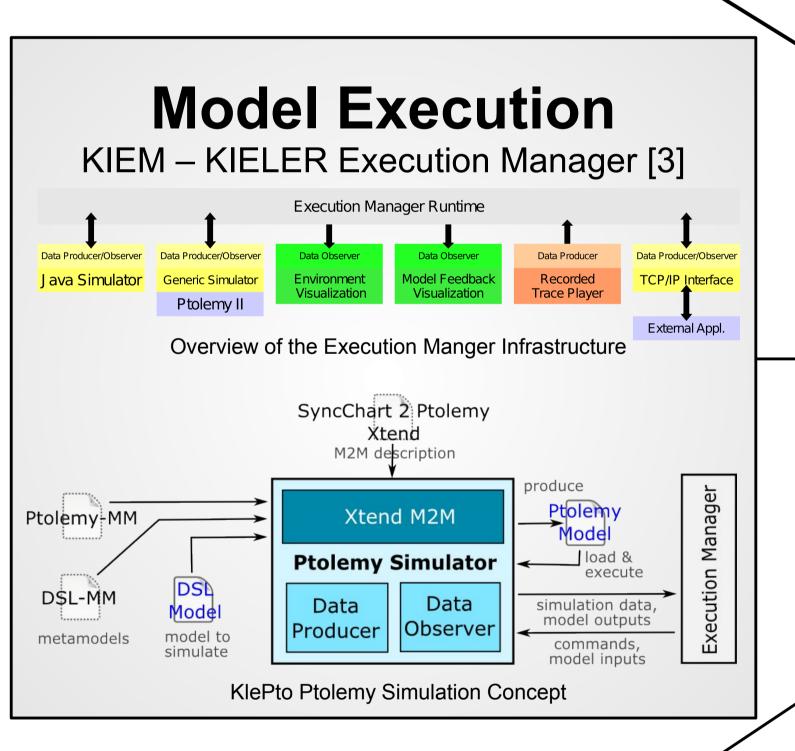
KIELER Actor Oriented Modeling

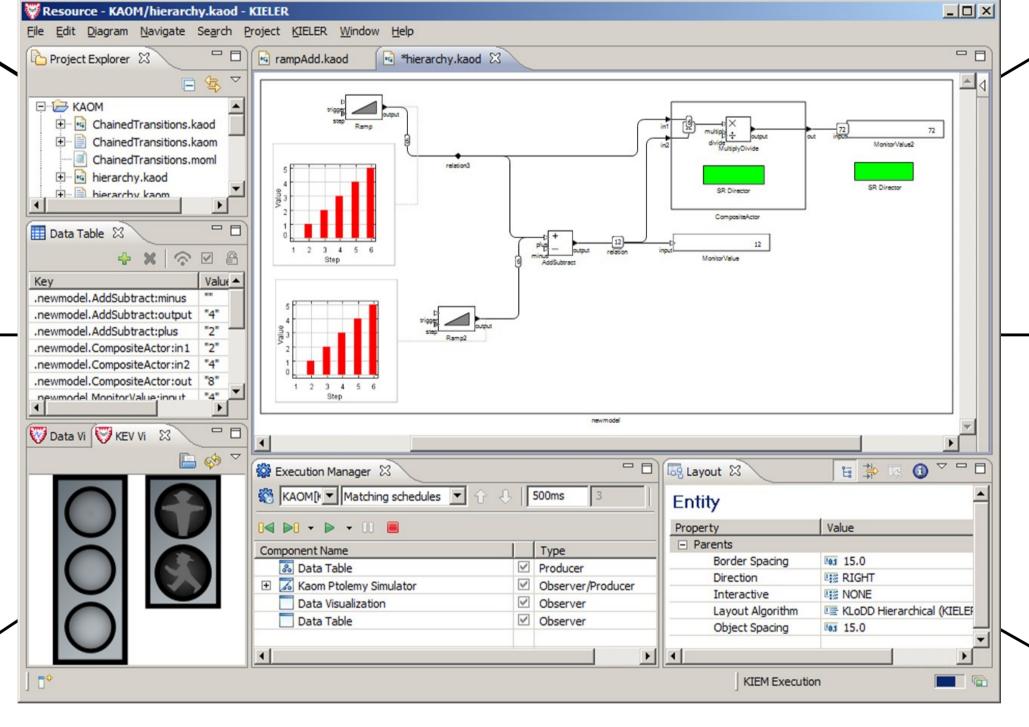
Kiel Integrated Environment for Layout

Edipse Rich Client









Data Visualization

Visualization of a Railway Installation

Traffic Light Environment Visualization

Visualization of a Railway Installation

Ramp

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] Layout of a State Chart Diagram Automatic layout of GMF and Graphiti diagrams Generic interface for layout algorithms Flexible configuration of layout options by the user Automatic layout integrated into Ptolemy's graphical editor Vergill

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 is 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

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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.

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

- [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.
- 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.