

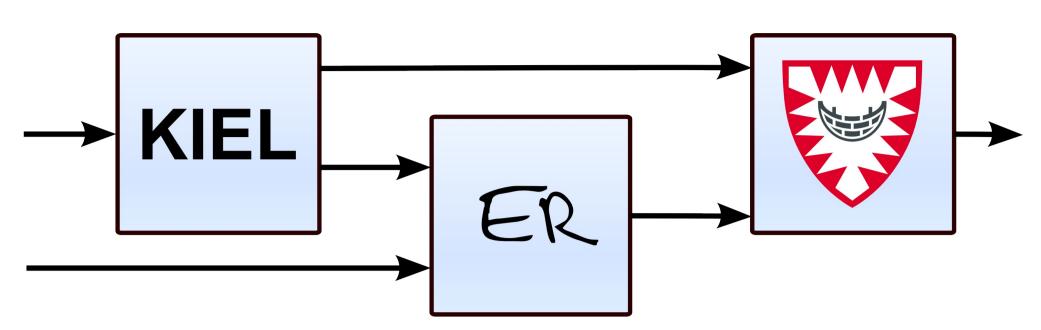
Institut für Informatik

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Christian-Albrechts-Universität zu Kiel

Faculty of Engineering

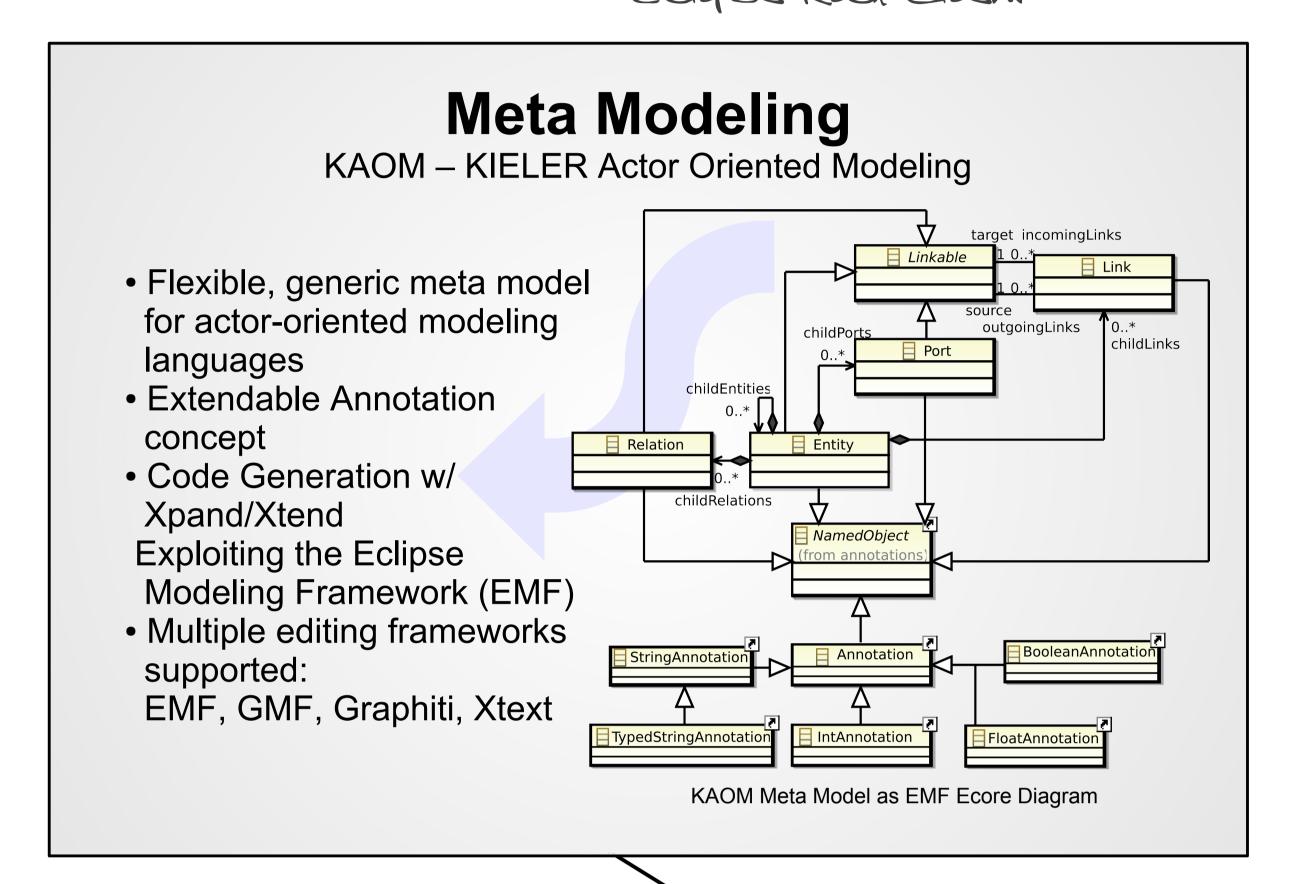
Department of Computer Science

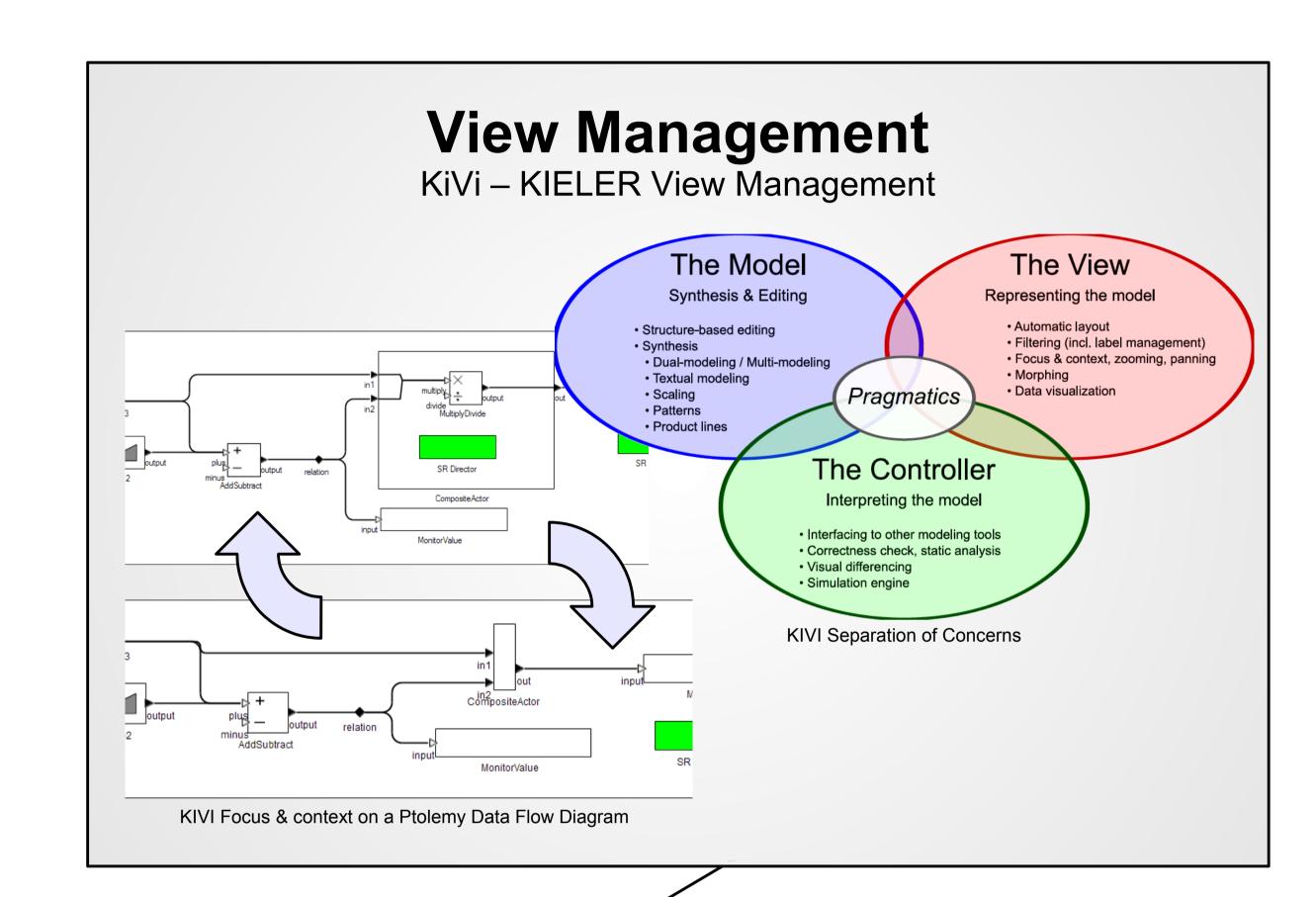


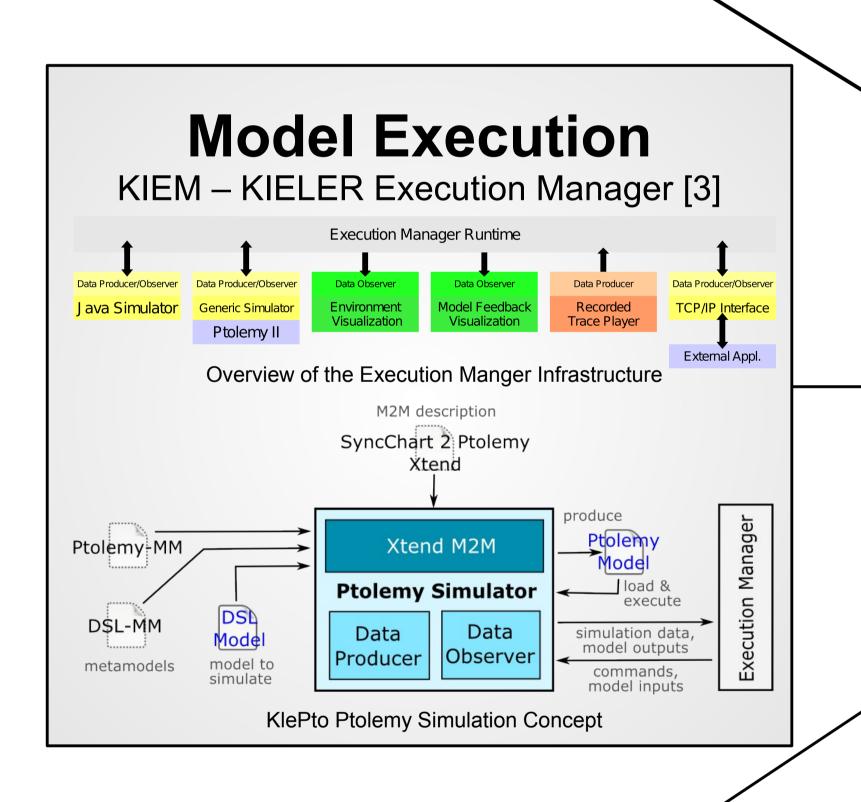
# KIELER Actor Oriented Modeling

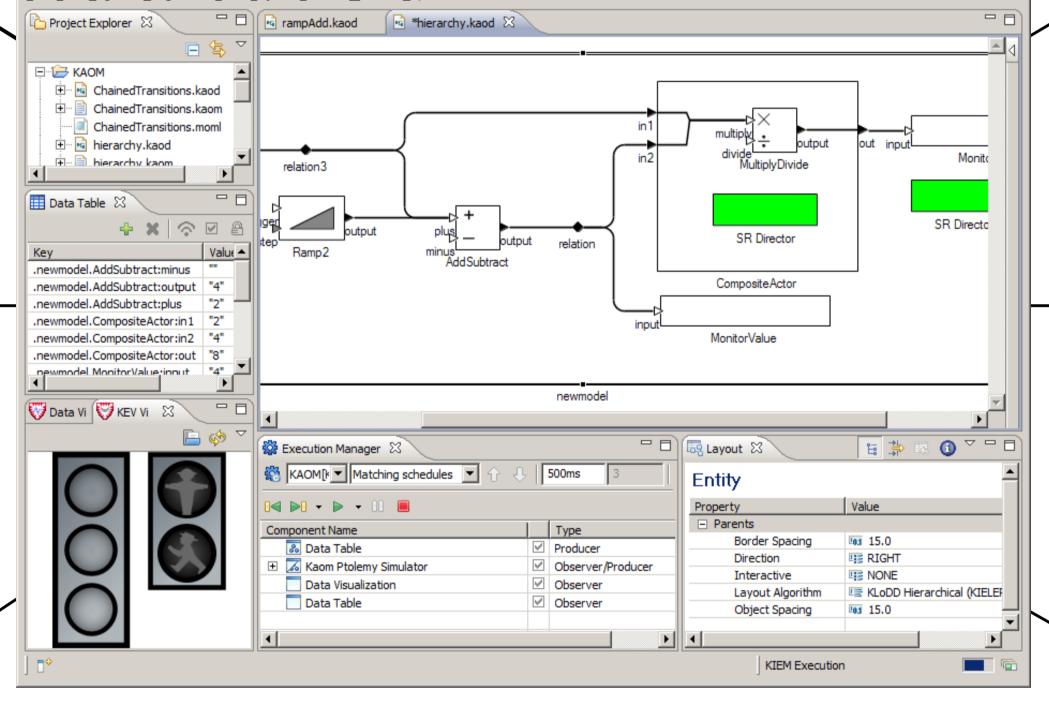
## Kiel Integrated Environment for Layout

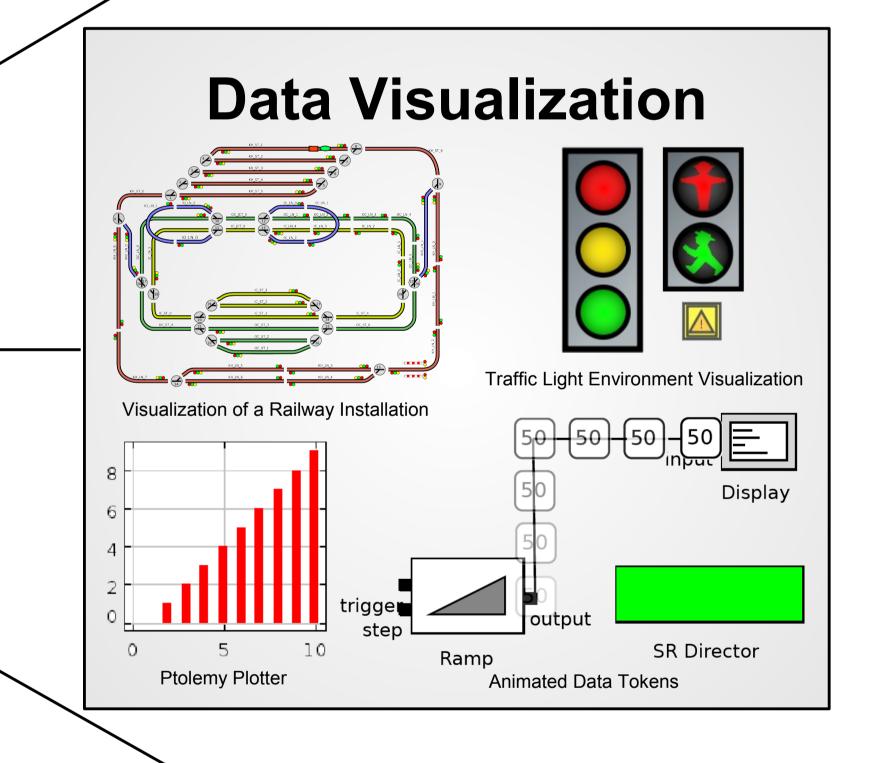
Edipse Rich Client











KAOM with Automatic Layout, Ptolemy rendering and Simulation in KIELER

# Automatic Layout [2] KIML – KIELER Infrastructure for Meta Layout [2] 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

### **Model Rendering** KARMA – KIELER Advanced Rendering for Model Appearance Possible customized model rendering options: E.g., Ptolemy, LabView, Simulink, AddSubtrac 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 SR Director model 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.
- [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.