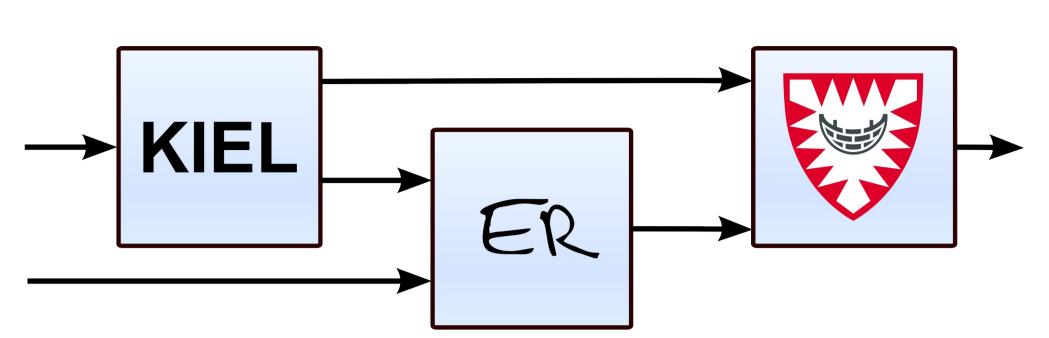


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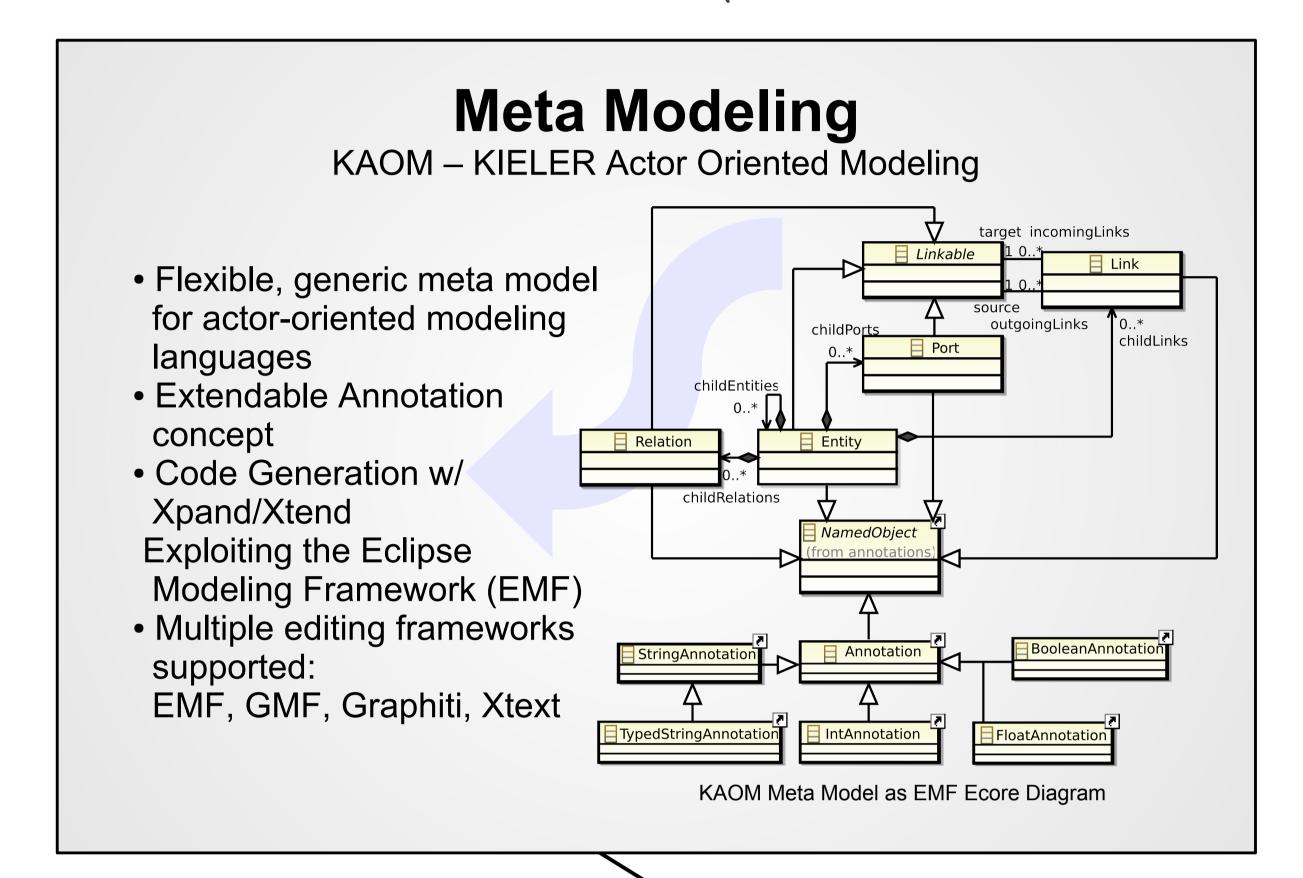
Department of Computer Science

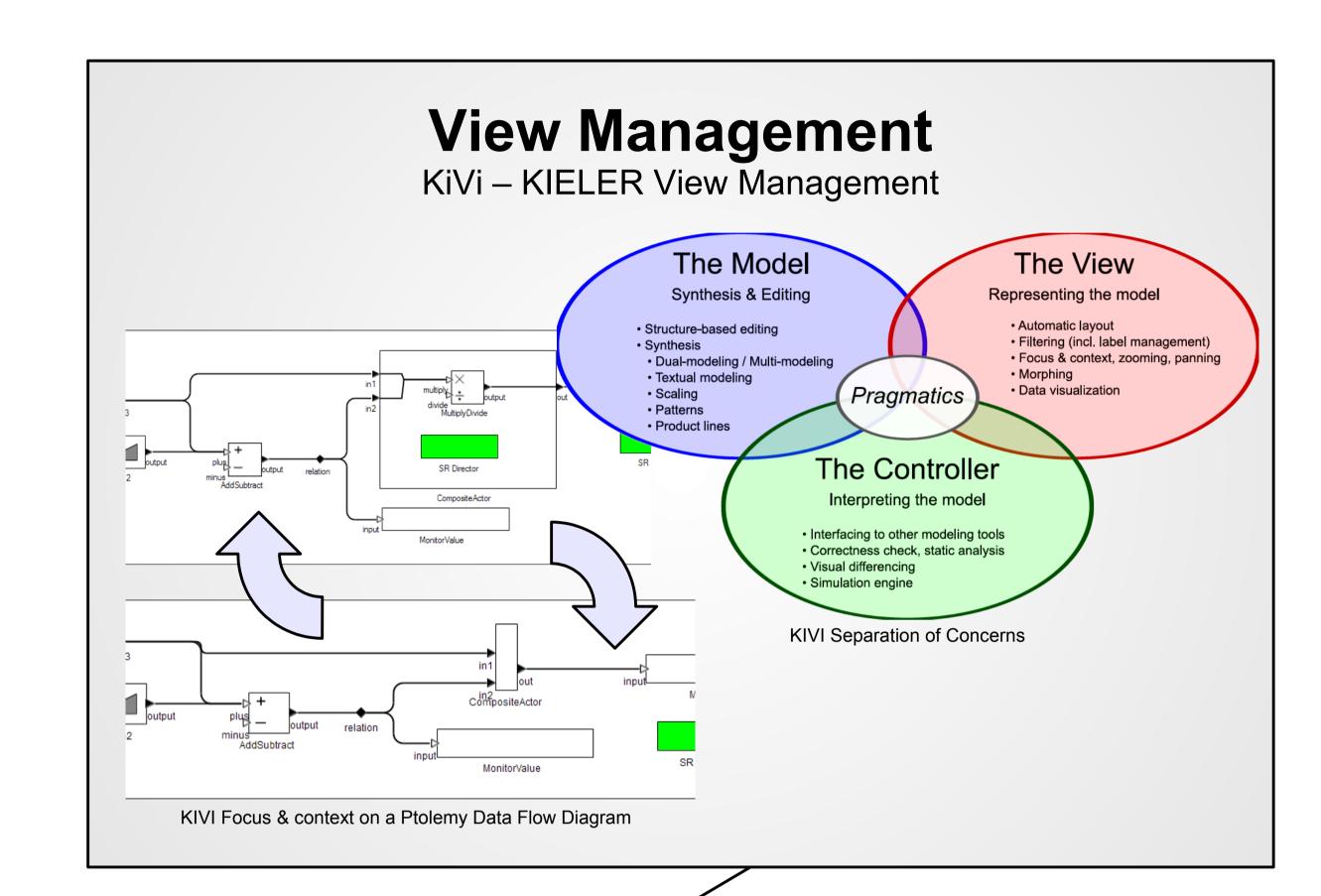


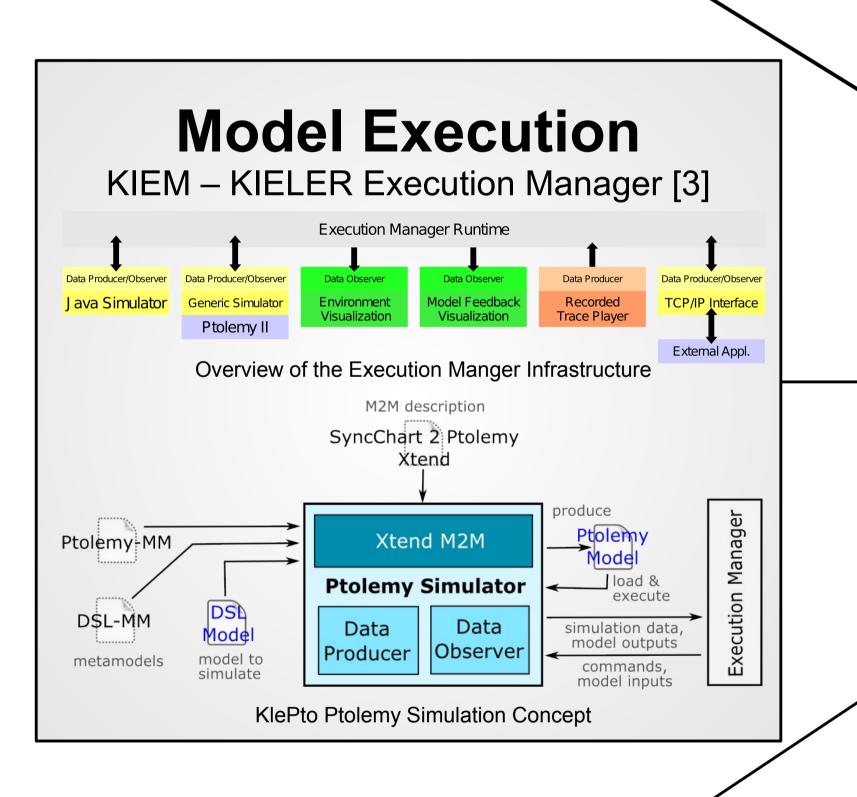
KIELER Actor Oriented Modeling

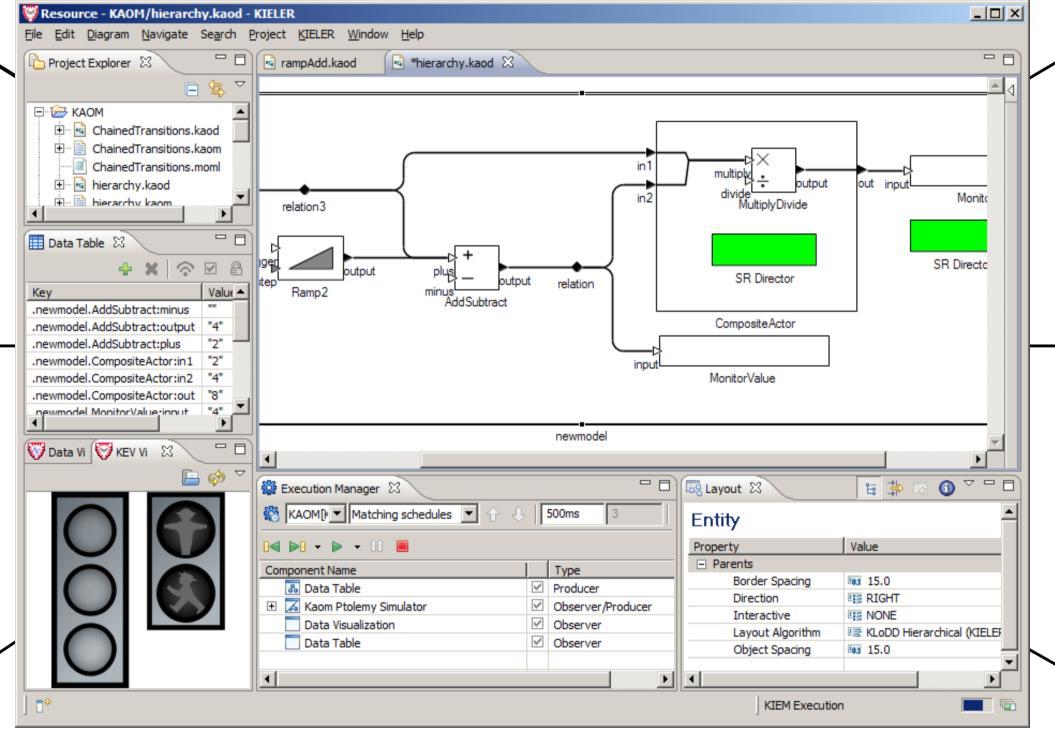
Kiel Integrated Environment for Layout

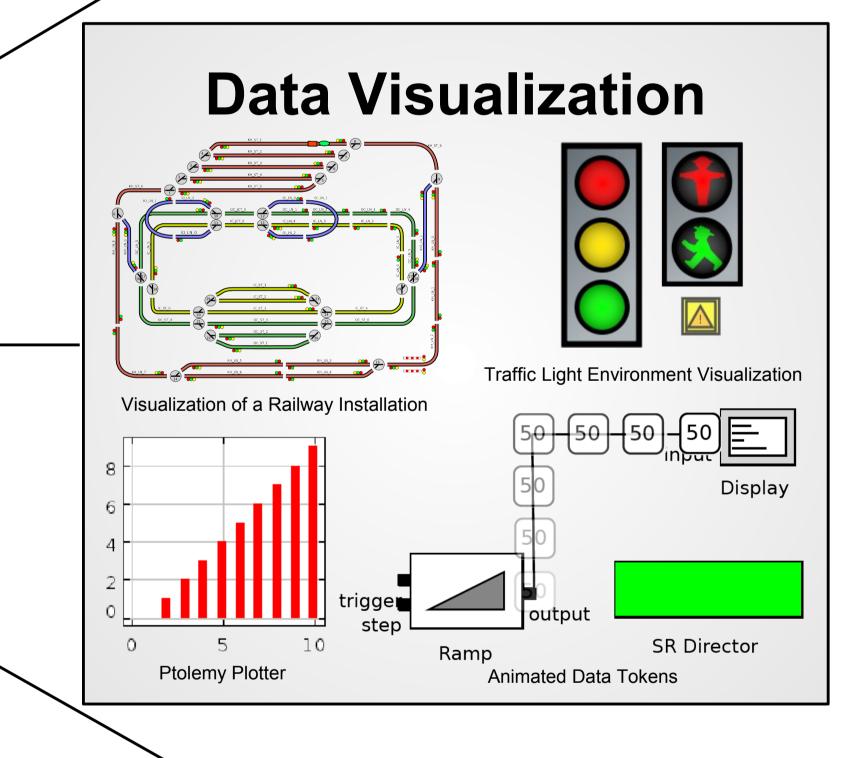
Edipse Rich Client





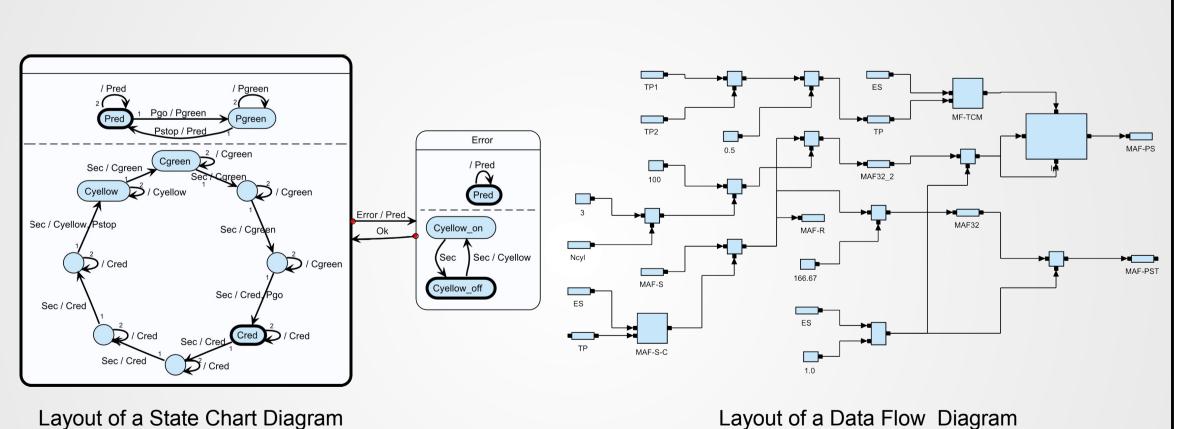






KAOM with Automatic Layout, Ptolemy rendering and Simulation in KIELER

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



- 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, 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 SR Director

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Further Information:

model

Rendering Ptolemy Data Flow

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.

Rendering Ptolemy State Machines

- [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.