

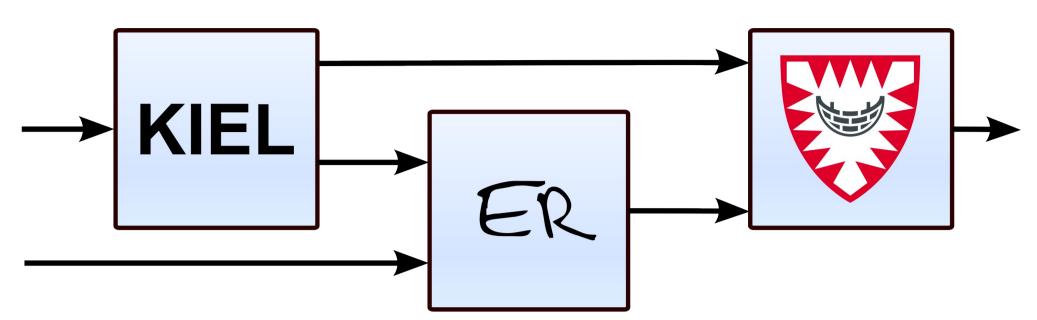
Institut für Informatik

CAU

Christian-Albrechts-Universität zu Kiel

Faculty of Engineering

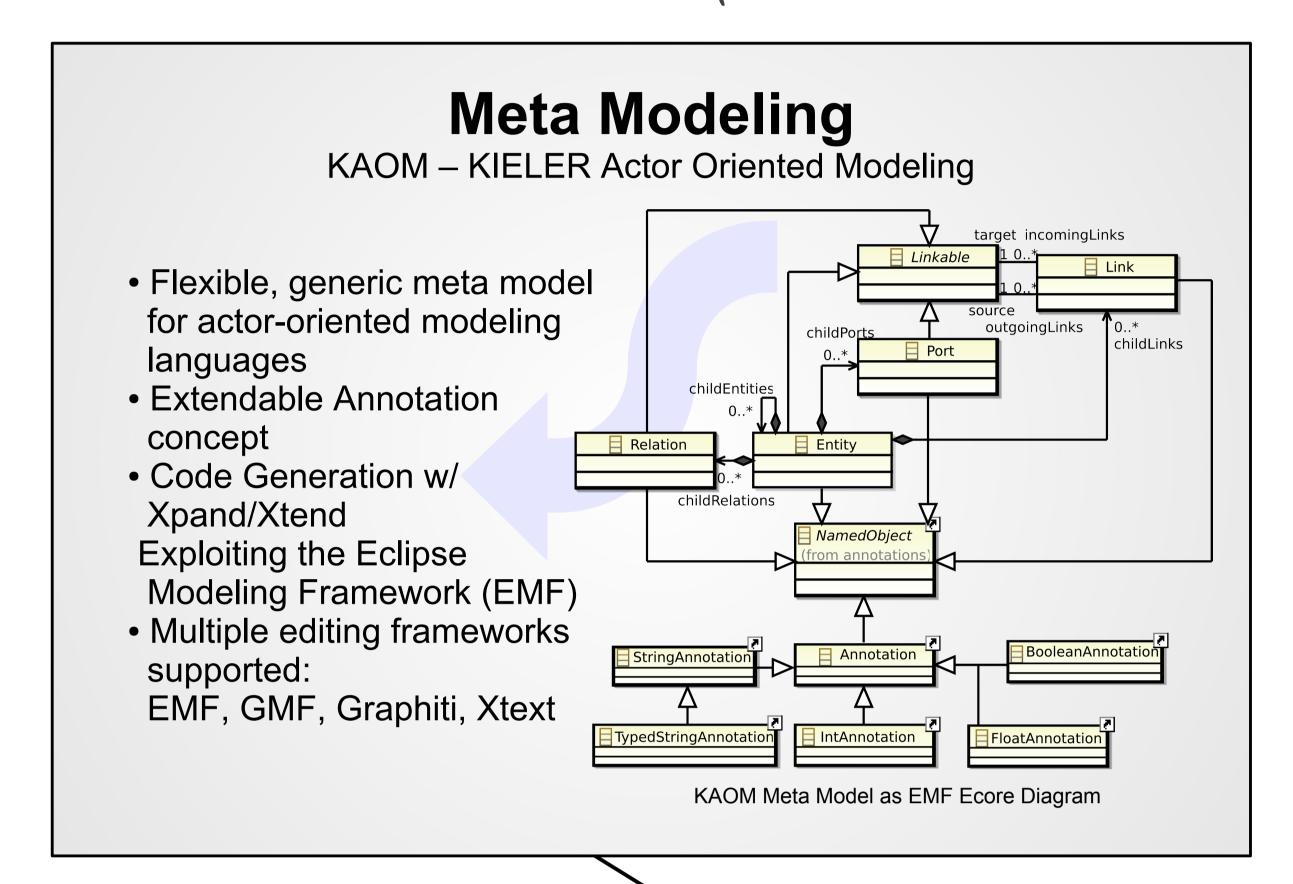
Department of Computer Science

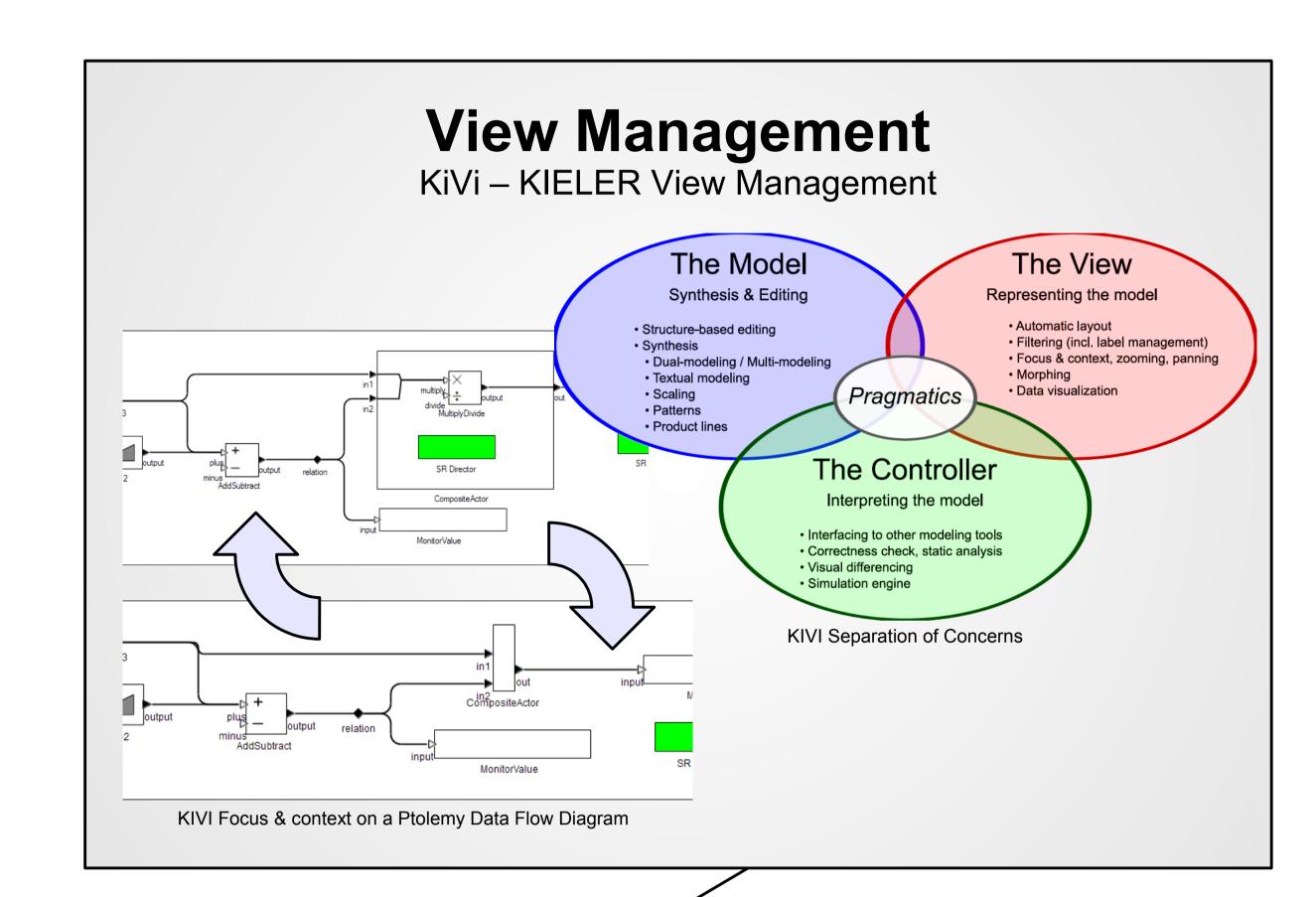


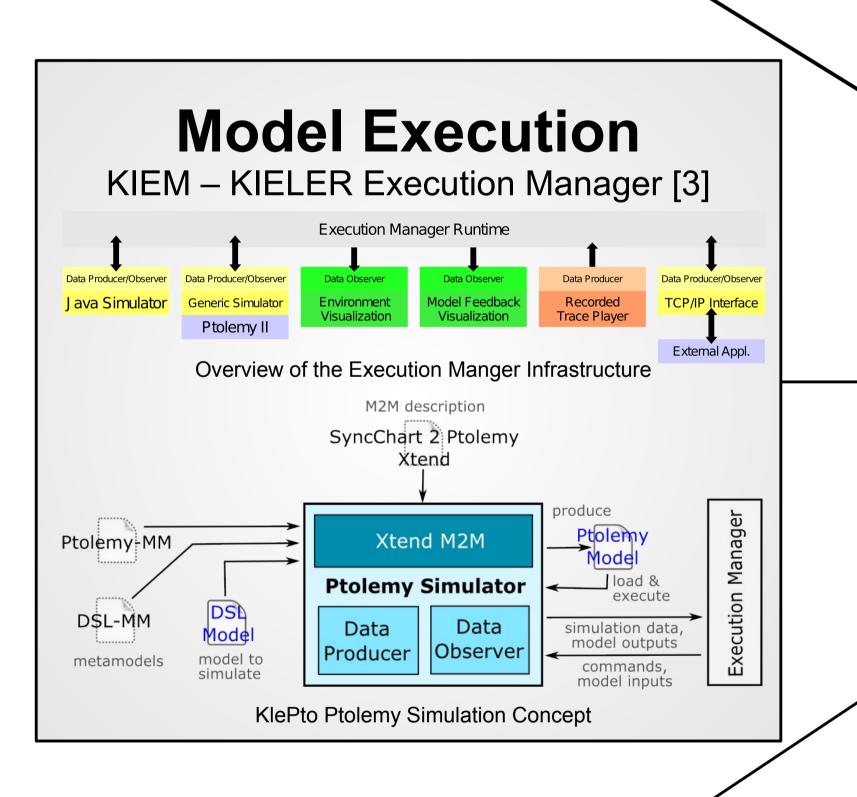
KIELER Actor Oriented Modeling

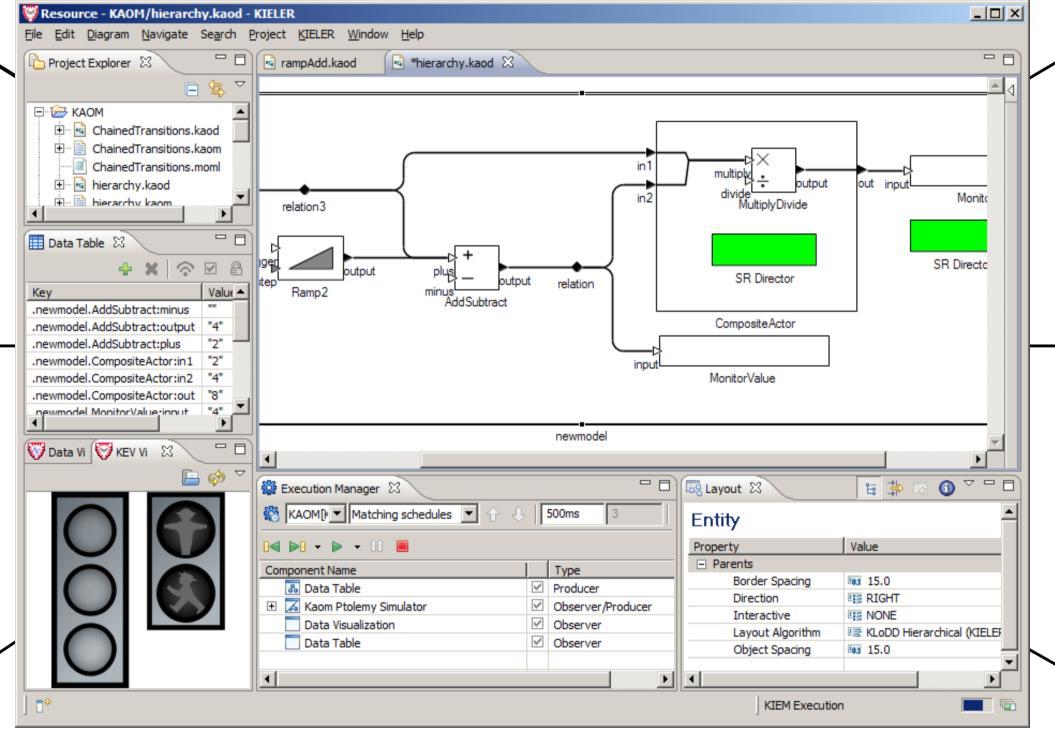
Kiel Integrated Environment for Layout

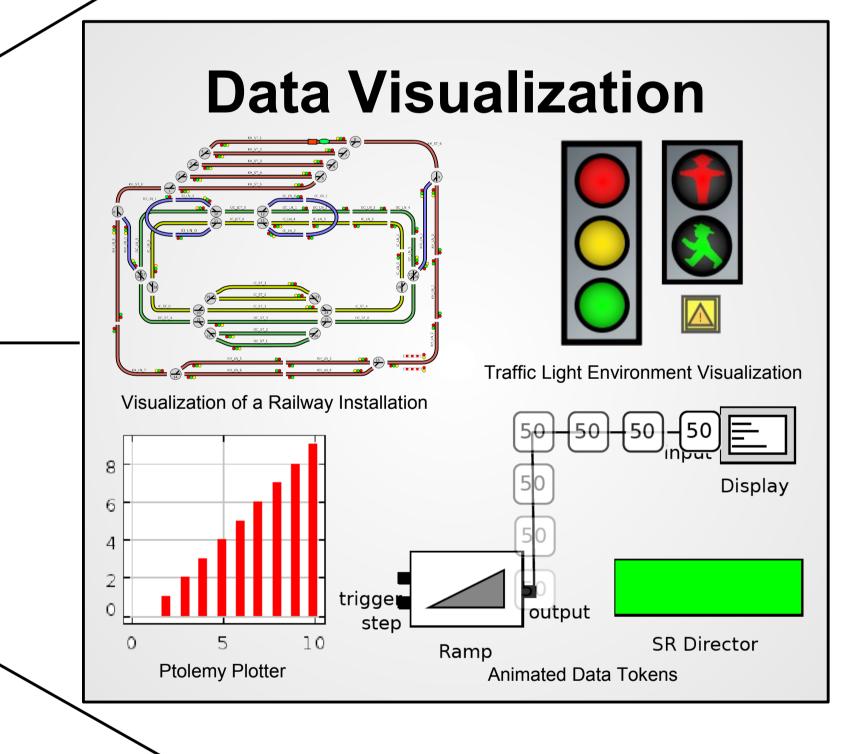
Edipse Rich Client











KAOM with Automatic Layout, Ptolemy rendering and Simulation in KIELER

Automatic Layout KIML – KIELER Infrastructure for Meta Layout [2] Pgo./Pgrean Pgrean Place / Cgrean Picyellow Sec / Cgrean Sec / Cgre

Layout of a Data Flow 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, 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 model Rendering Ptolemy Data Flow Rendering Ptolemy State Machines

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Layout of a State Chart Diagram

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Further Information:

http://www.informatik.uni-kiel.de/rtsys/kieler

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- [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,
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 [3] Christian Motika, Hauke Fuhrmann and Reinhard von Hanxleden. Semantics and Execution of Domain Specific Models.

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 [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.