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Graphical Modelling of a Meta-Model of CAD Models for Deep Drawing Tools

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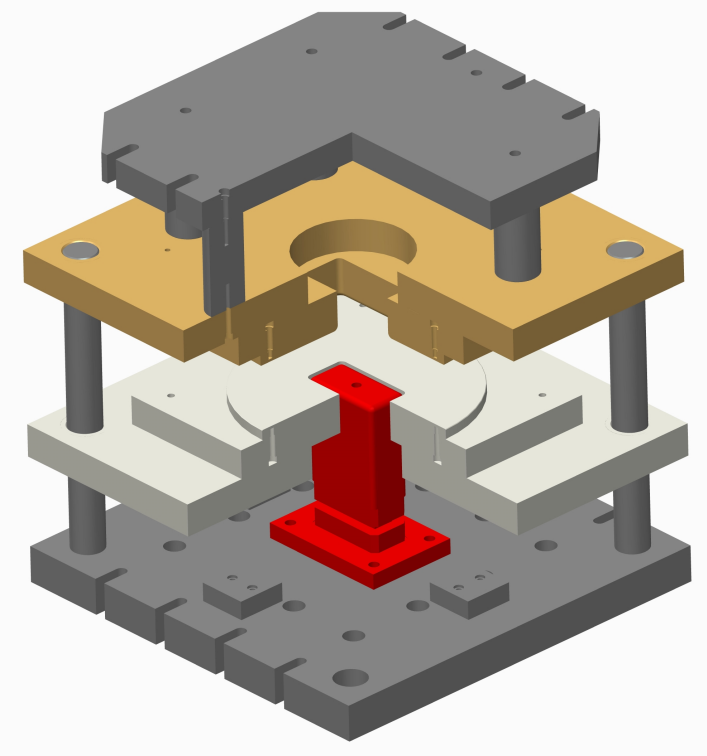
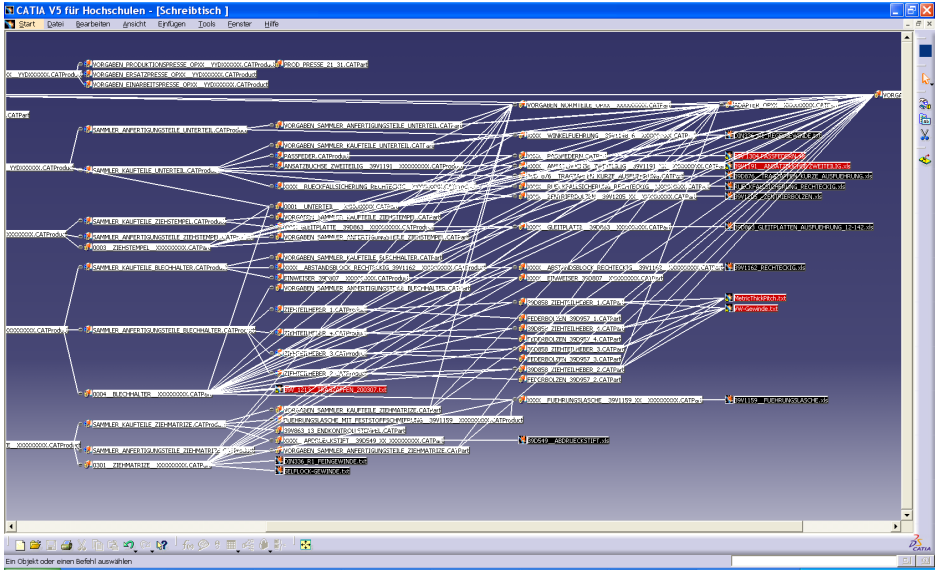
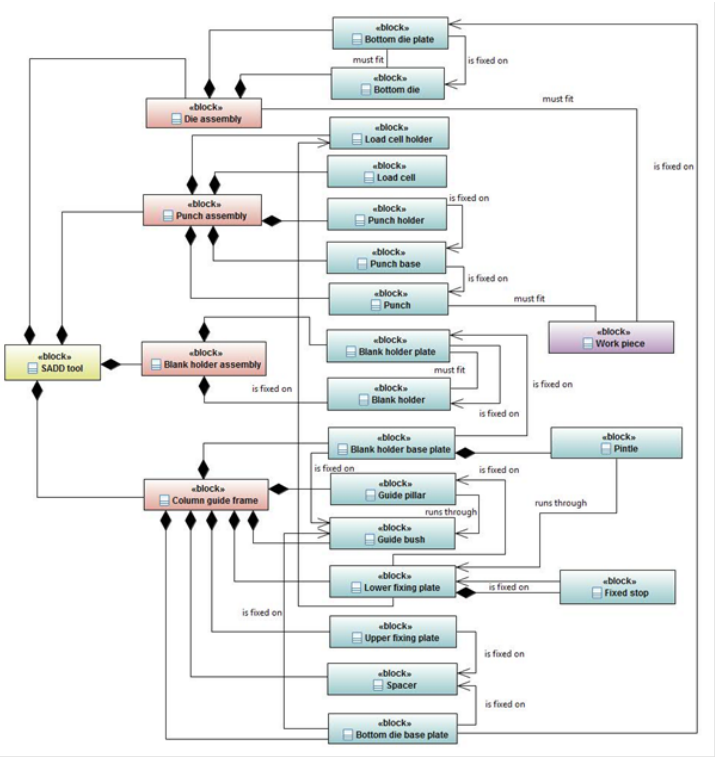
What‘s the Problem?





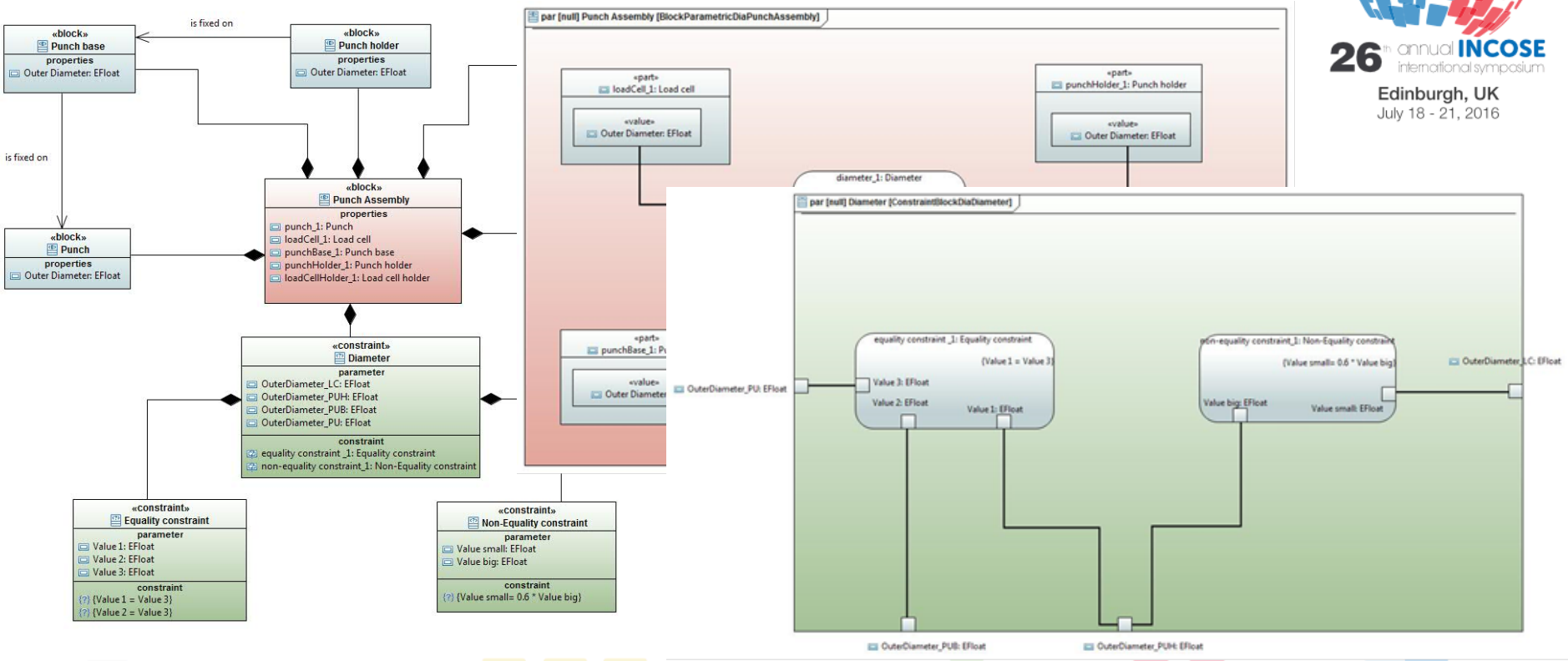
Let‘s use SysML!



- Standards
- Tools
- Transformation

… but poor Diagrams

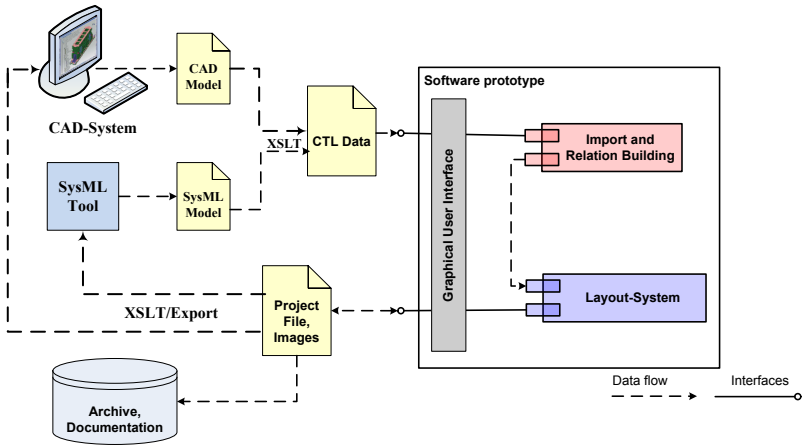
Let‘s use SysML!



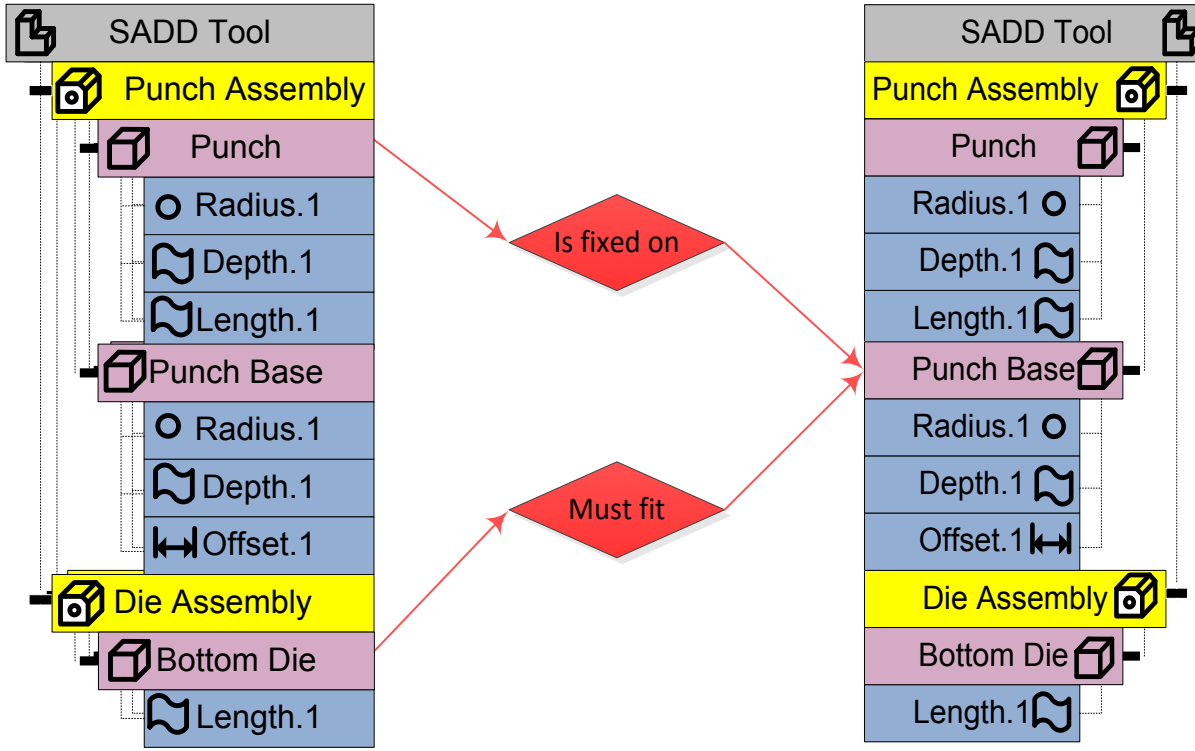
Model Driven Design

- Models created outside CAD software
- Meta-Model based on SysML

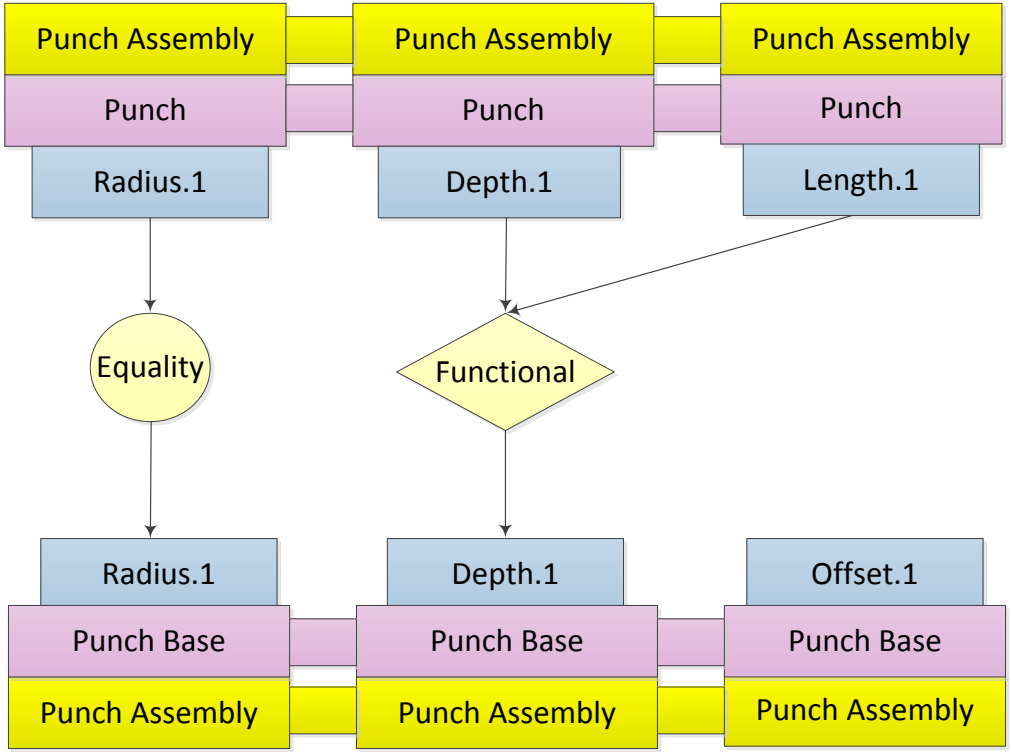
- Transformation from & to
  - CAD models
  - SysML models



GDSL: Dual Tree View



GDSL: Parameter Map



Conclusions

- Graphical and model-based method for deep drawing tool design
- New GDSL with interaction support
  - Intuitive usage by engineers
  - Improve on SysML diagrams
  - Rely on SysML for integration with existing MBSE tools

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