FESAS: Towards a Framework for Engineering Self-Adaptive Systems

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Motivation
What are the obstacles in the development of self-adaptive systems?

Goal: A Framework for Engineering Self-Adaptive Software
We want to support the designers with a component library, design process, and support for modelling of adaptation requirements

Current Work
- Analyses of existing approaches
  ➔ Definition of use cases and scenarios for self-adaptation
- Design adaptation logic
  ➔ Elements and design & distribution patterns
- Design system infrastructure
  ➔ Component library and reference architecture

Future Work
- Modeling approach
  ➔ Adaptation requirements as first class entities
  ➔ Design Model and System Model
- Software Engineering approach
  ➔ Processes for engineering self-adaptive systems
  ➔ Transformation of requirements into an adaptation logic