



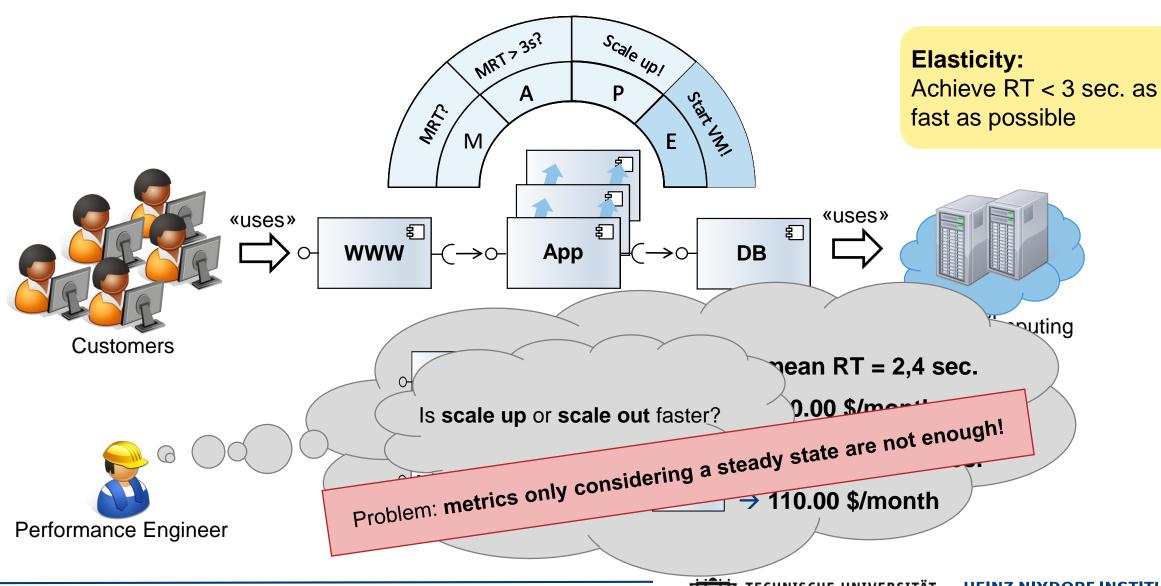
# Systematically Deriving Quality Metrics for Cloud Computing Systems

Matthias Becker

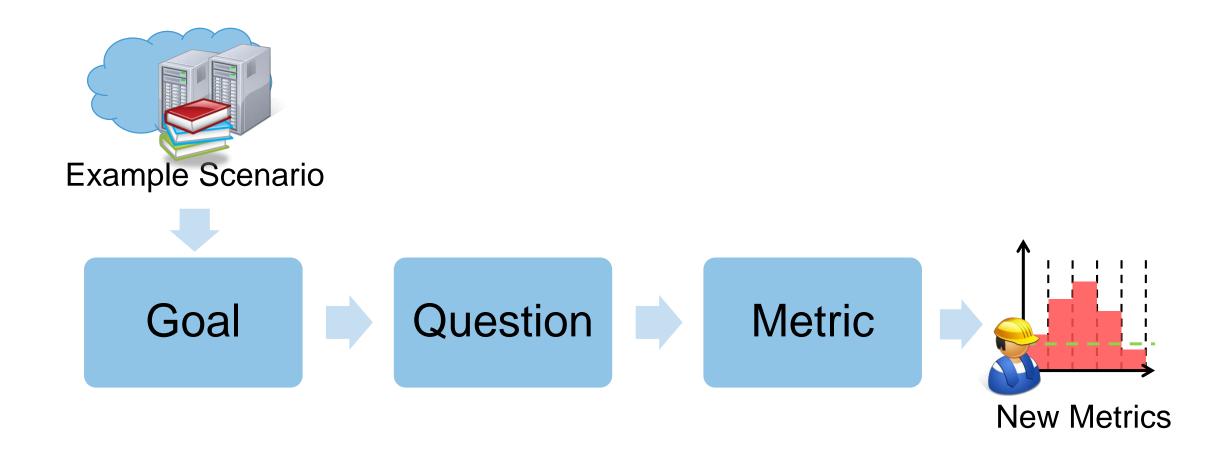
Sebastian Lehrig

Steffen Becker

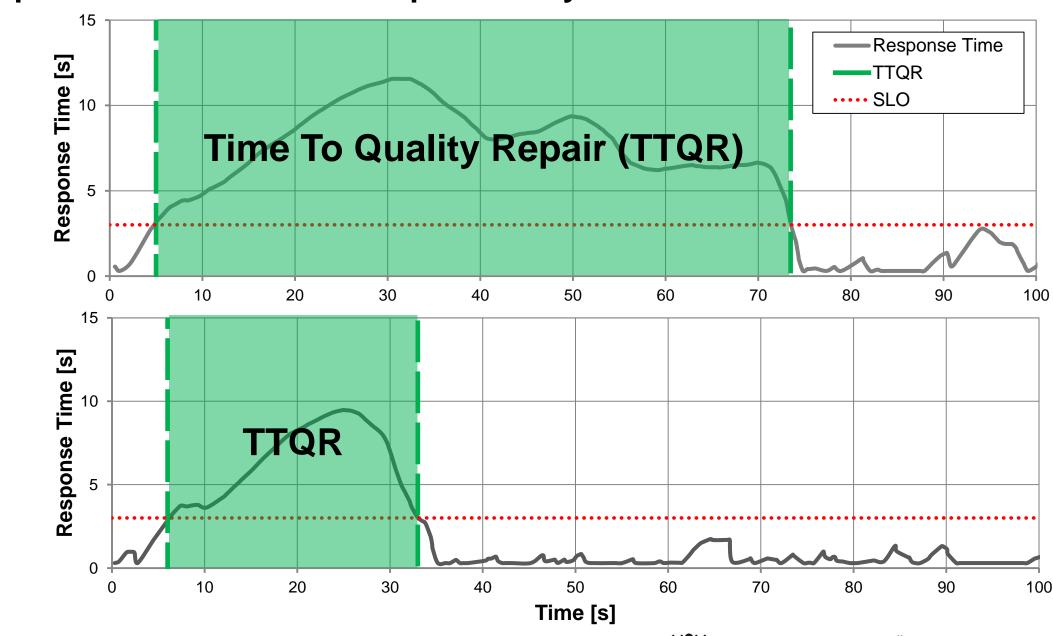
## **Engineering Cloud Systems: Analysis**



## **Idea: Systematically Deriving New Metrics**



## **Comparison of Alternative Adaptation Layers**

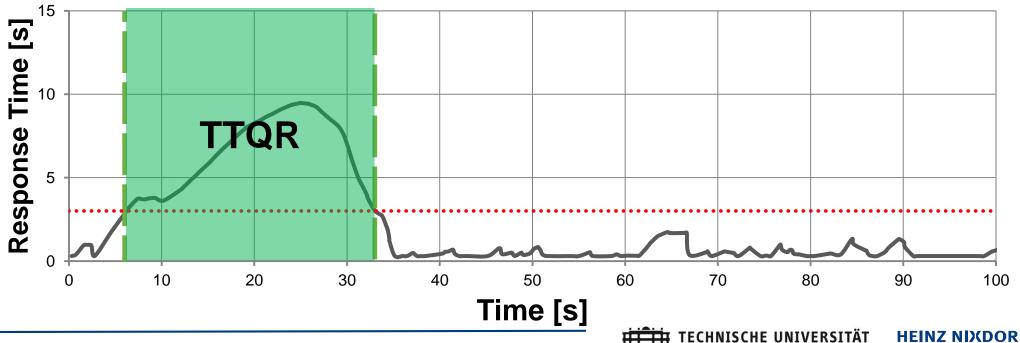


Strategy

Strategy

#### **Derived General Metric**

TTQR: Time To Quality Repair. The time between the occurrence of a (quality) SLO violation and the time the SLO is fulfilled again.



### **Short Paper Summary**

- Initial set of 6 metrics
- Re-usable GQM plan
- Classification of related metrics

#### **Future Work**

- Derive more metrics
- Implement analysis tools
- Case study

## Thank you

