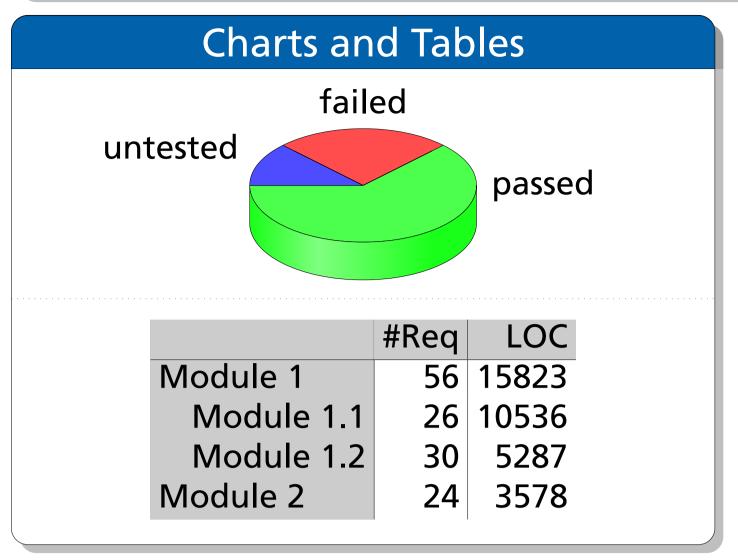
## On Usability in Requirements Trace Visualizations

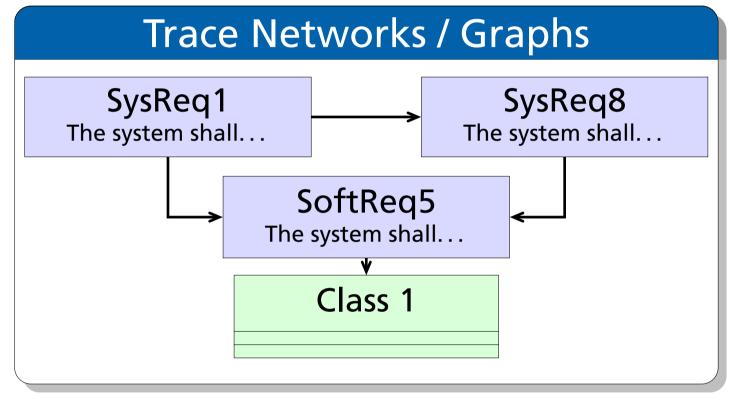
Stefan Winkler < stefan.winkler-et@fernuni-hagen.de>



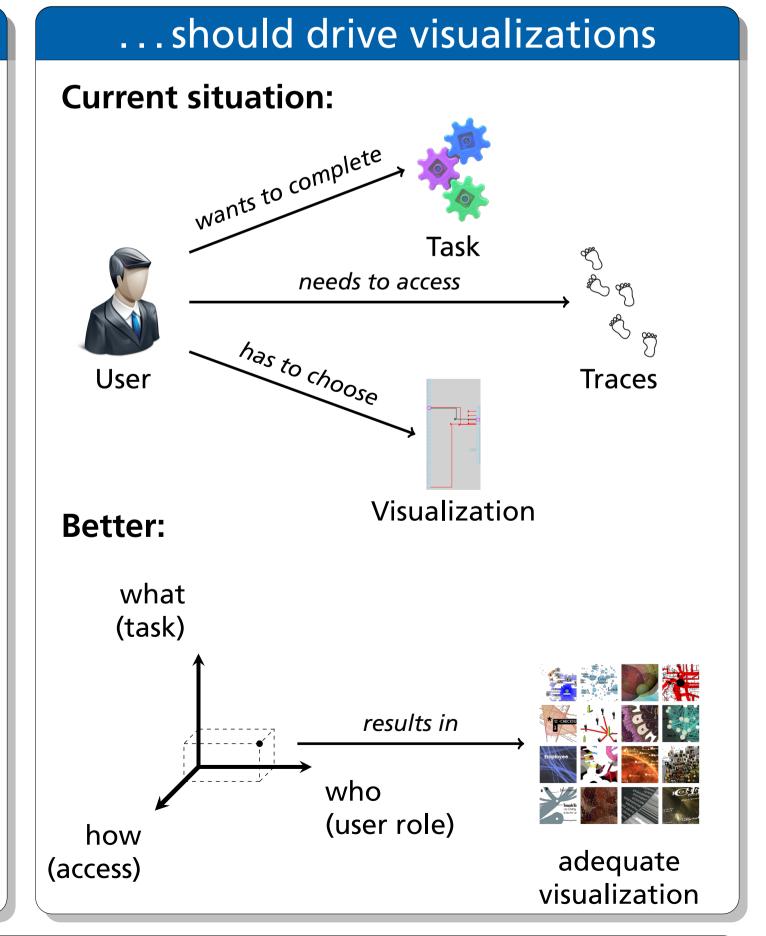


Cross-References		
id	content	traceability links
Req 1	The system shall	► Req2
		► Req3
		► Class1
Req 2	The system shall	► Req3
		<b>◄</b> Req1
		<b>◄</b> Req3
Req 3	The system shall	▶ Req2
		<b>◄</b> Req1
		<b>◄</b> Req2

## Traceability Matrices Class1 Class2 Class3 Class4 Class4



## User roles, tasks, and access modes user role access Req. Engineer Project Mgr. Maintainer Customer Designer Browse Report Search Prioritize requirements X X X Estimate change impact × X X X × Prove adequateness X X X Validate artifacts X X Test the system × X **Support audits** X X X Improve changeability X X **Extract metrics** X **Monitor progress** Assess the process X X X Track rationale × X X Understand the system × X X X **Establish accountability** X X X X X Document reengineering X Reuse elements X X **Extract best practices** Preliminary data – derived from literature



Making visualizations usable will better expose the benefits of traceability.