

Tools For Requirements Management

[illegible]

Agenda

- Requirements Management Tools
- Requirements Catalogue
- Requirements for Software Product Lines
- Conclusions



Requirements Management Tools

General Overview

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*Requirements management
is the structuring and
administration of
information from elicitation,
derivation, analysis,
coordination, versioning and
tracking of requirements
during the complete
product lifecycle*

Hoffmann et al. 2004

Support of raw requirements

- Acquisition
- Specification
- Grouping
- Attribution

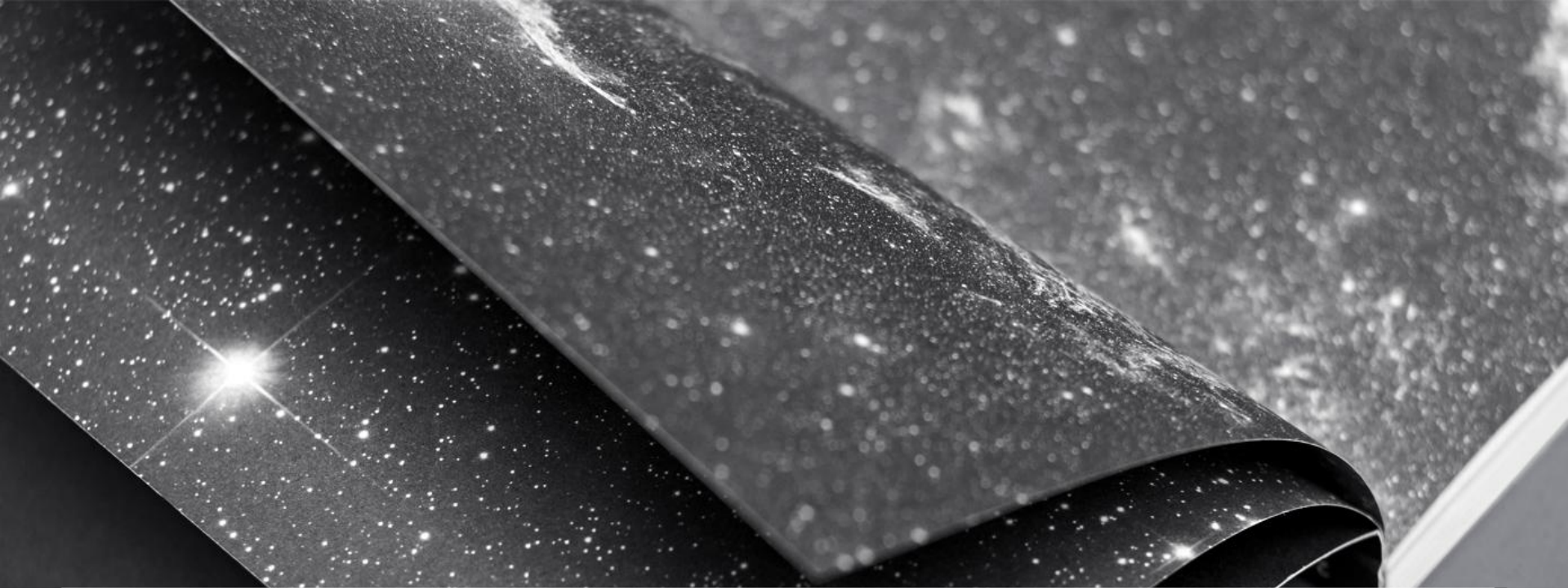
Enabling definition and linking

- Test cases
- Test environments

Enabling relationships to be tracked and traced

- Between requirements
- Design
- Realization
- Test

“Requirements Management Tools help achieve goals of systematic RM”

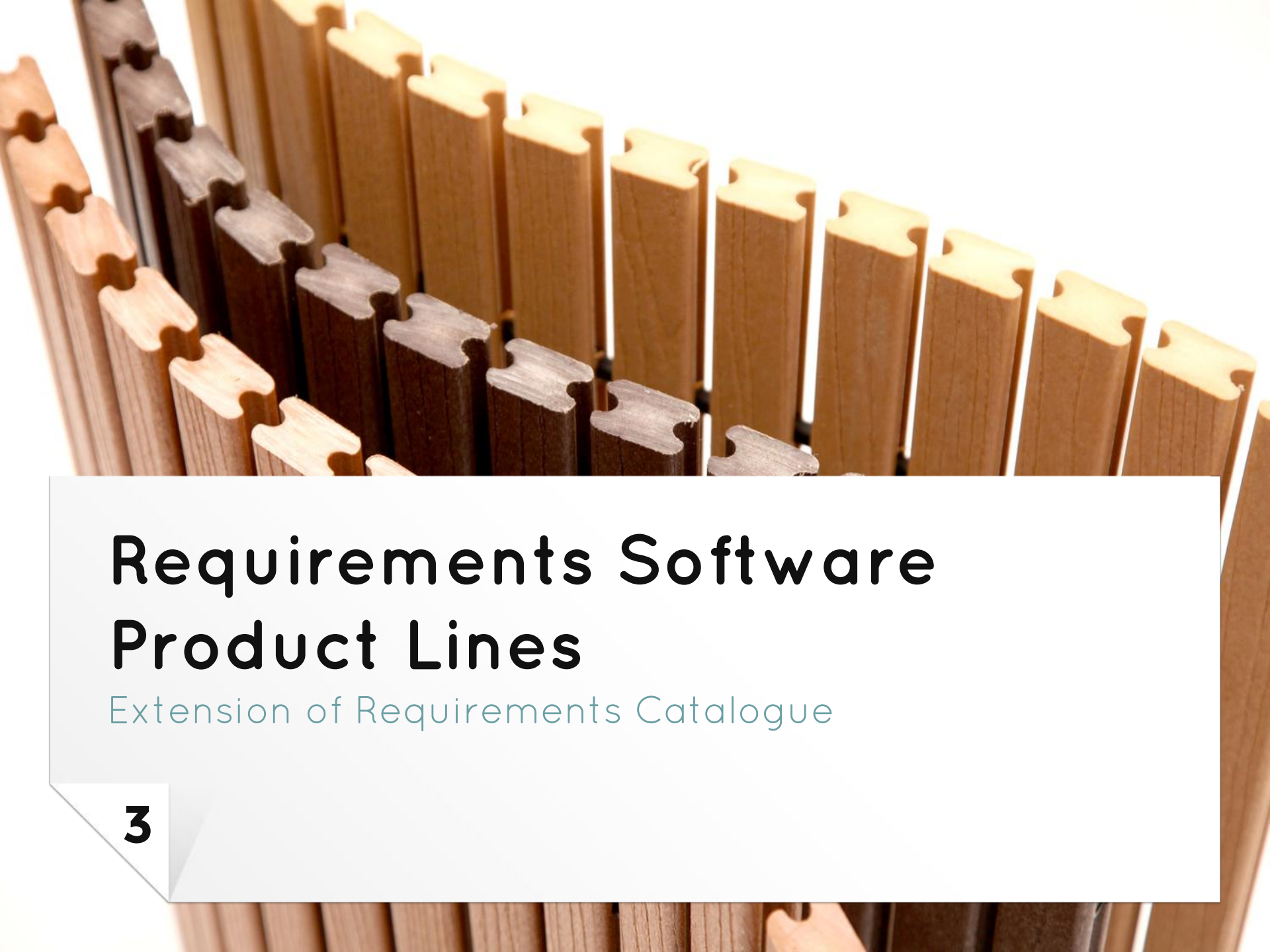


Requirements Catalogue

Comparison of views

Comparison Requirements

	Requirement		Requirement		Requirement
High	Information Model Views Formatting, Multimedia and External files Change Management and Comments Documentation of History Baseling Traceability Tool Integration Document Generation Collaborative Working Checking out Offline Use	High	Installation and Administration of Projects Users, Roles and Rights Size Restrictions Extensibility	High	Database Encryption
Medium	Analysis Functions Imports Web Access	Low	Workflow Management		
Developer		Project Administrator		Tool Administrator	



Requirements Software Product Lines

Extension of Requirements Catalogue

Product Line Requirements

	Requirement variability modeling
High	Shared multi project Multi product information models Expression of variability and variation Variants with first class representation Variant creation process Multidimensional prioritization

	Prioritization of Requirements
High	Change Management Traceability Collaborative Work
Medium	Views Analysis Functions



Conclusions

Review



Tools

None of investigated tools supported software product line requirements management



Views

All tools support views more or less and have configurable view concept



Analysis function

Not supported for product lines adequately



Baseline

Available tools can be used for product lines but they impose severe limitations and cause high effort

A wide-angle photograph of a two-lane asphalt road stretching into the distance. The road is flanked by dry, scrubby vegetation. In the background, there are rolling hills under a vast sky filled with large, golden-brown clouds, suggesting a sunset or sunrise. A white rectangular box with a folded corner effect is centered over the road.

Questions?

Thank you for your
attention.