

Context and Orchestration:

Putting the moving parts together – a renaissance of system integration

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System integration now and then – looking back

- manageable and confined vertical structures
- project-specific, proprietary integration
- evolution into domain-specific solutions
- -> system integration eventually loses its significance and becomes part of the customization efforts

System integration now and then – looking ahead

- abundance of involved parties
- large geographical, structural, technical and cultural divergence of the parties involved
- abundance of involved tools and solutions
- functional overlaps, missing standards
- -> system integration re-establishes itself as essential element

Challenges in system integration: Usability

- more participants means more education, likely beyond a manageable threshold
- training efforts can be reduced by improving the usability of the tools
- ... which might imply a loss of proficiency and efficiency

Challenges in system integration: Security

- considerable difficulty to scale security in highly integrated system environments
- inbound customers imply special security challenges
- adopting to the necessary security standards might mean a major technological leap for the client (and the solution providers)

Challenges in system integration: Structure

- consistency of terminology, processes, workflows, conceptions and the like given only along the vertical axis
- key aspects for dealing with structural inconsistencies:
 - careful analysis and meticulous preparation
 - standardisation before realisation
 - avoidance of two-way synchronisations
 - flexible implementation
 - all-over documentation
- losers and winners

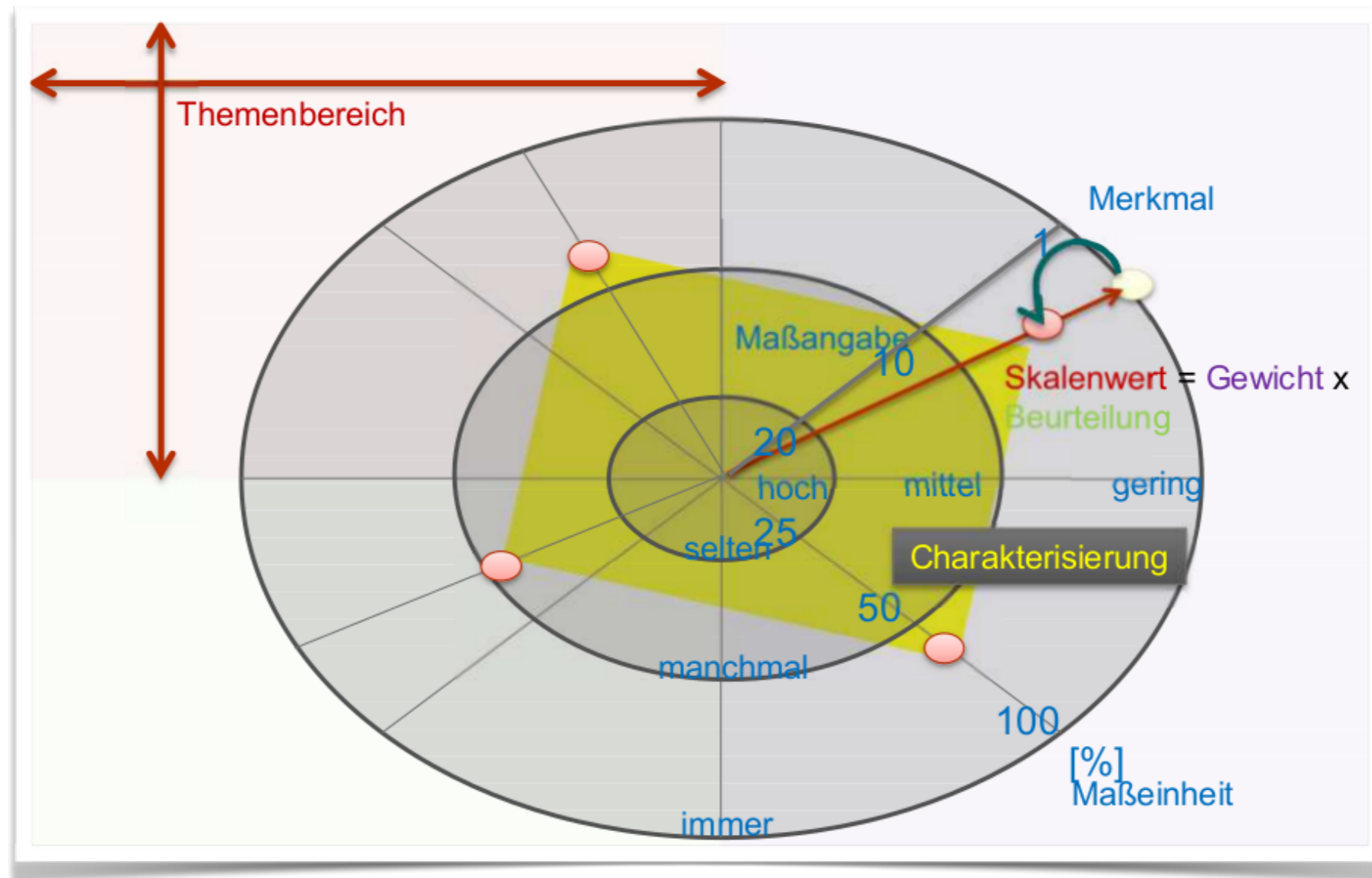
Challenges in system integration: Engineering

- Interfaces galore
- System architecture
- Customisation and APIs
- Sticking to the standards

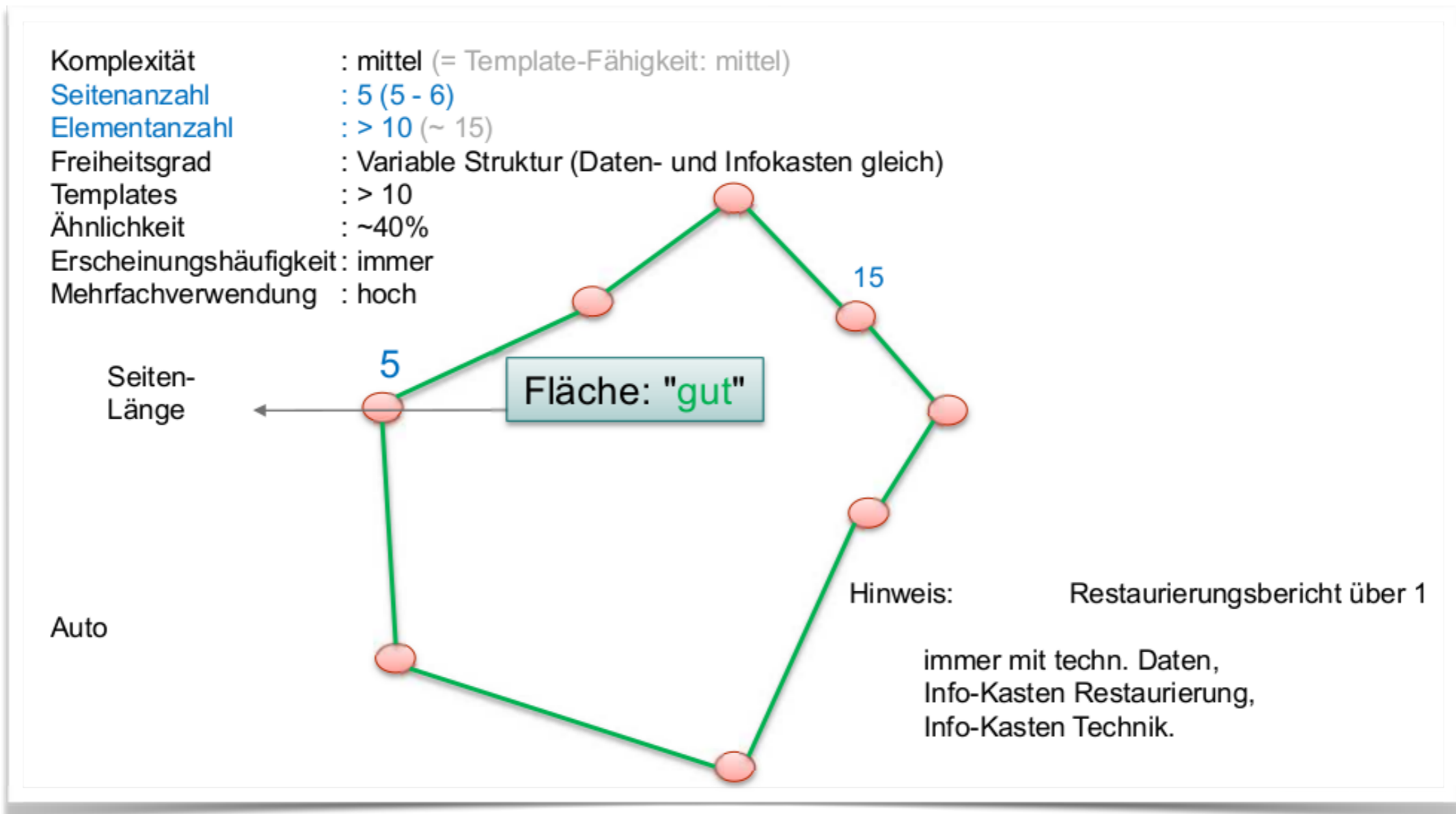
Challenges in system integration: Metrics

- Complex dependencies are hard to grasp
- Metrics help in quantifying and decision making
- There are no out-of-the shelf methodologies at this time

Challenges in system integration: Metrics



Challenges in system integration: Metrics



Thank you!



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