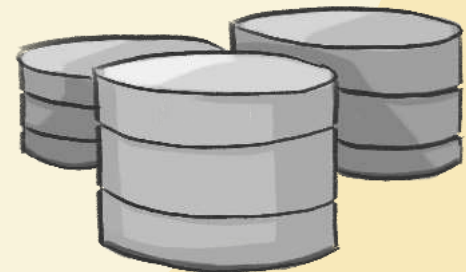


From Zero to Test! in 10 minutes

Dont let your test infrastructure be your bottleneck

Maik Nogens



Maik Nogens



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 @MaikNog

Quality Evangelist

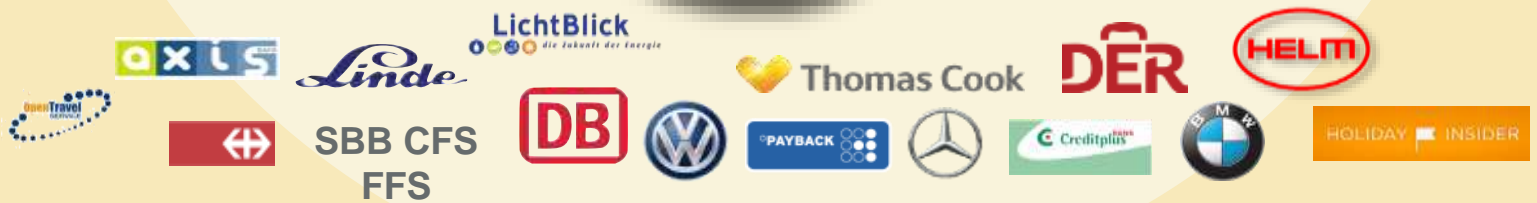
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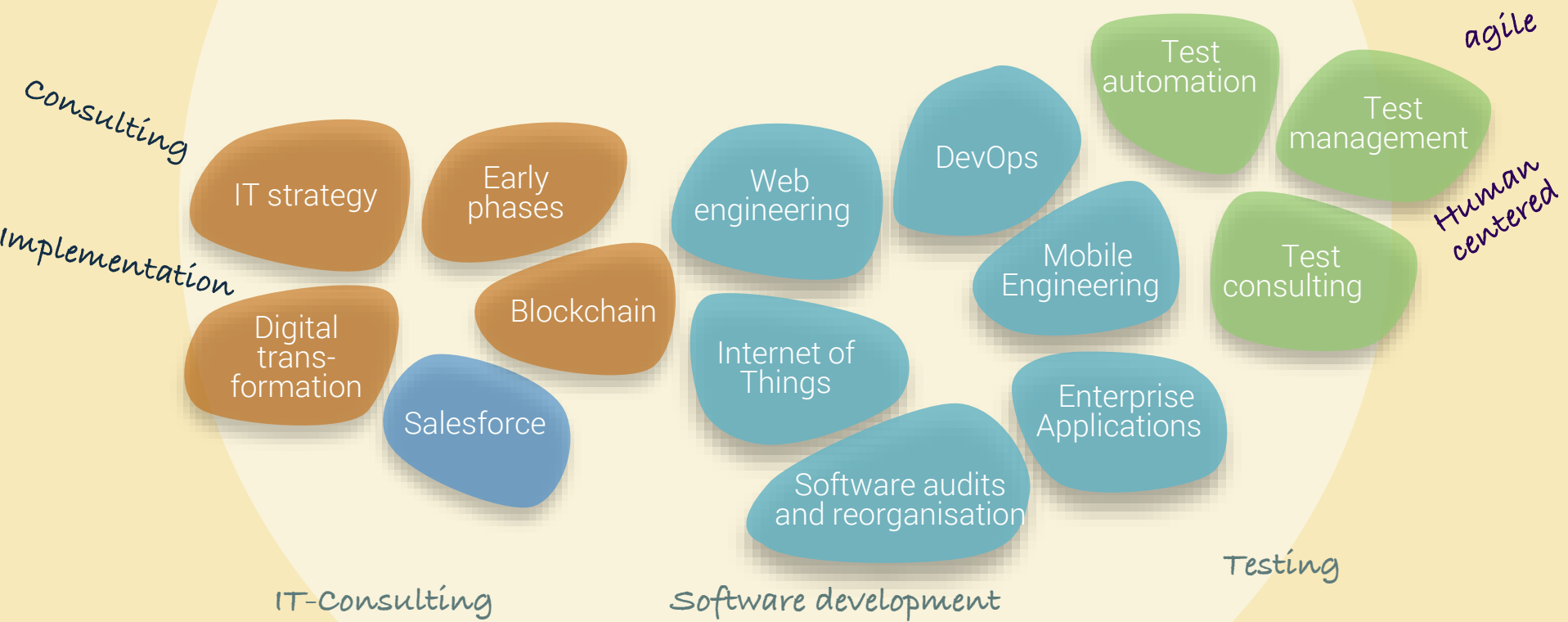
- Tester & Consultant
- Designer of the Agile Unicorn
- Community servant
(QS-Barcamp, STUGHH, Meetup, ASQF,
PotsLightning, GATE, ...)
- Inventor of the original STWC
(Software Testing World Cup)

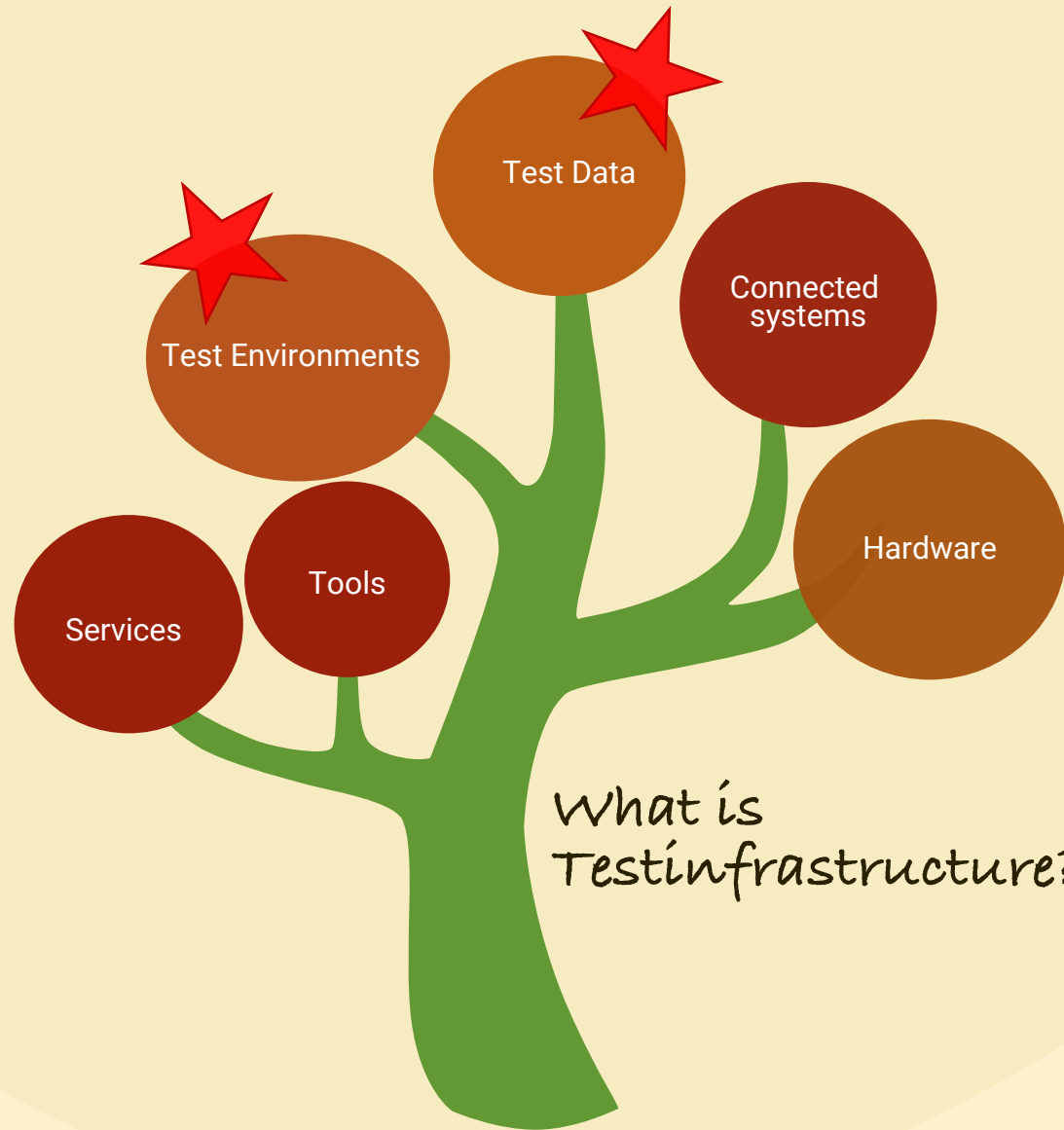


Data and facts of MaibornWolff



Shape IT for the people you work with





Test data – metalevel, what why how so?

- Test data are a part of test infrastructure
- „Valuable“ Test data is:
 - ... well maintained, e.g. they are as current as needed.
 - ... embedded in a change process, which on the one hand offers control over the data pool and on the other hand offers the flexibility for a lean and fast change process.
 - ... structured and available in different shapes.

With these preconditions test data are part of the test infrastructure and can be deployed as fast and efficient as code, configurations and hardware.



Test data – case study

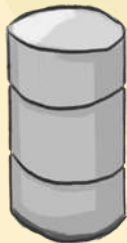
- Different sets for different focus:



- Standard
 - Most important data combinations for most important business flows



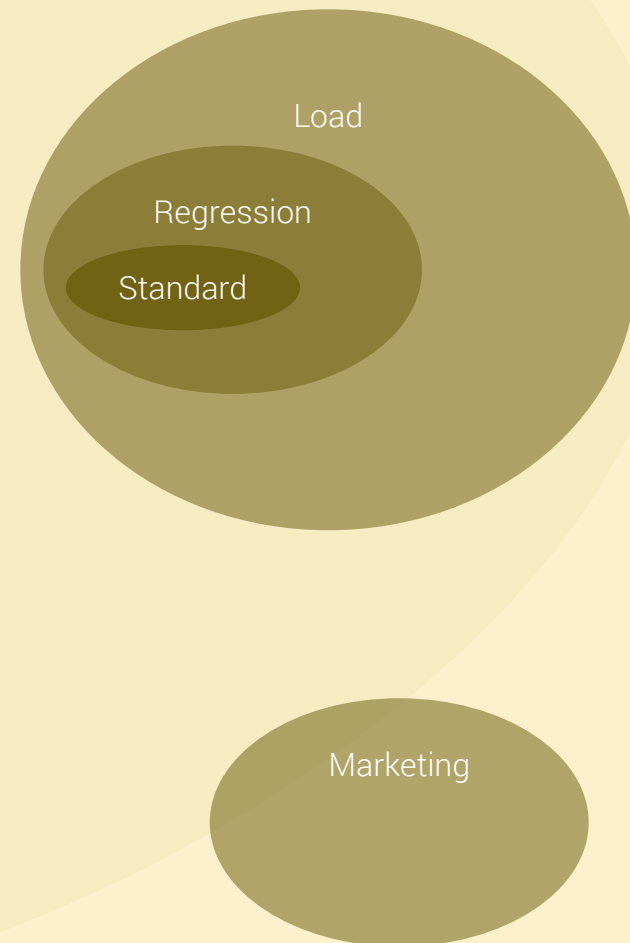
- Regression
 - More combinations of business process



- Load
 - Synthetic amount; detailed combinations are not important

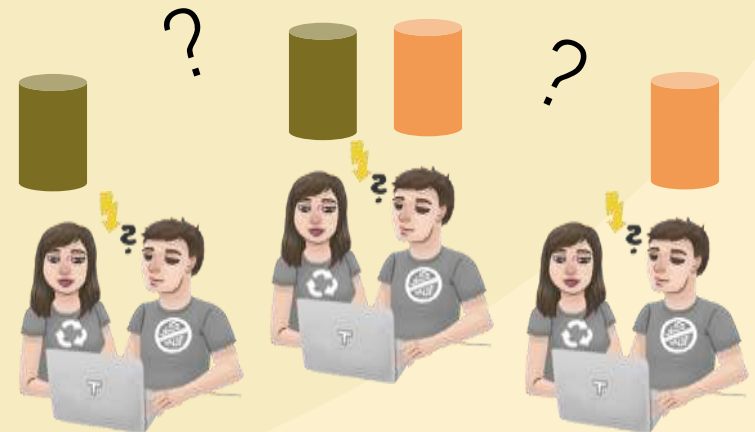
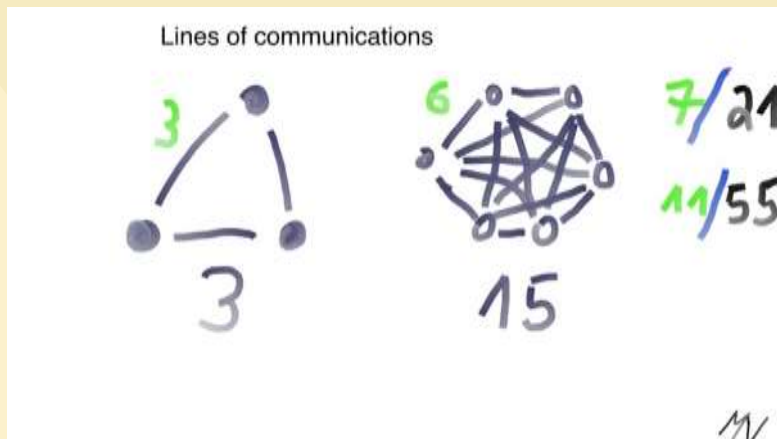


- Marketing
 - Handmade data pool
 - For advertisement and marketing

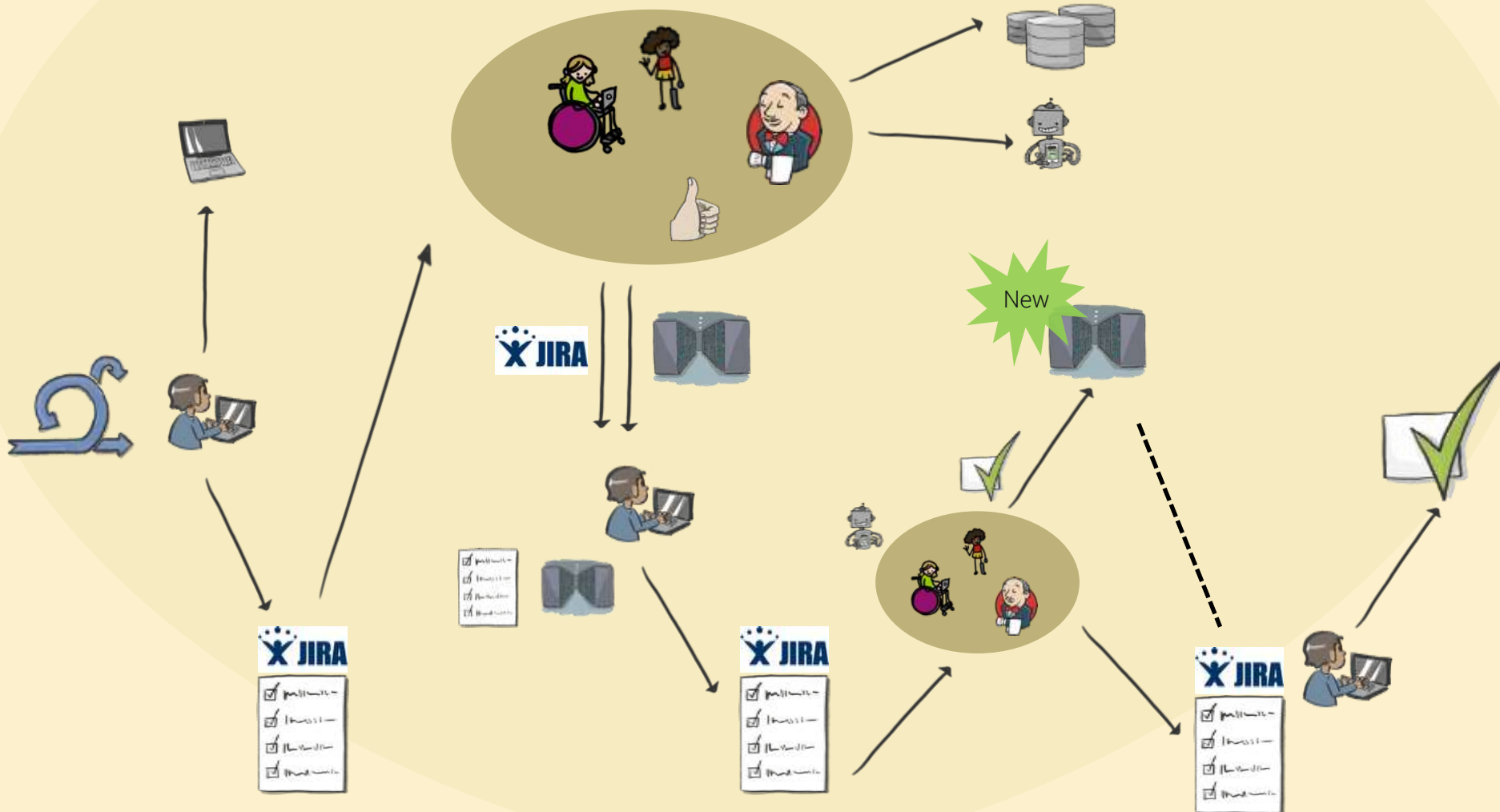


Test data – change process - metalevel, what why how so?

- To change test data in your own control offers flexibility.
- With more folks involved and more test data the overview gets more complex.
- Which impact has a change of test data onto others, who also uses this test data?
- A central, but flexible change process helps



Test data – change process – case study



Test environment – metalevel, what why how so?

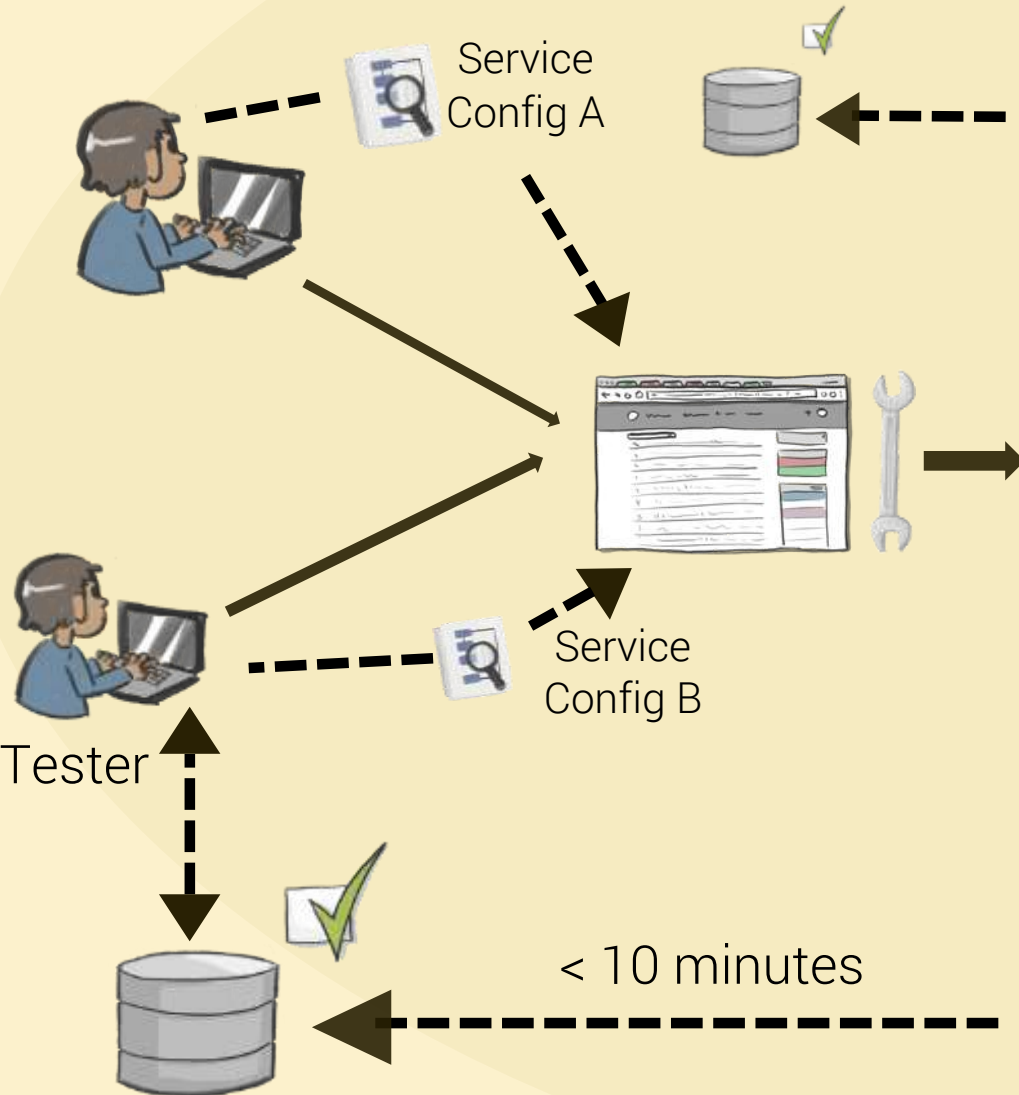
- Largely separate from the production environment, so that the test objects do not cause any damage to the productive operation.
- As closely as possible to the actual production environment.

Wikipedia (DE and EN analogous)



- It is practical to have different setups of test environments, which gives balance between fast availability and closeness to production setup.
- A common scale is ...
 - DEV – close to development with an atomic / single focus
 - Integration – integrative focus of components / modules
 - Pre-Production – Focus on business processes; systems and components are real

Test environment – case study



Max. 3 test environments

M	D	M	D	F	S	S
				X		
				X		

Profile

CPU: 2	CPU: 8
RAM: 4 GB	RAM: 16 GB
DB, HDD, ...	DB, HDD, ...

Marketing, Training, Design Dev, Test, PO

Which challenges did we have to solve and what did we learned from it?

- A sequential change process for test data has waiting times.
 - When needed folks are not available or tickets won't be worked on in a timely manner, the whole chain is blocked.
 - ➔ Open point; still in process to be solved.
- Hardware does not scale with demand.
 - 300+ users are regularly using multiple test environments.
 - ➔ Limit it to 3 per user and shut them all down on Friday evening.
- Account for special cases.
 - Long running tests should not be turned off.
 - ➔ Put them on a "Exception list"



Conclusion



- When infrastructure is easy to use, everyone wants and will use it.
- The practical impact is huge, when everyone can create test infrastructure on demand. It becomes routine and daily practise.
- 10 minutes from “Zero to Test!” is reality.

Questions? Question!

- How do you structure / administrate your test data?
- How do you handle test data requirements from your teams / organisation?
- Which test environment ist your common one ; which are you using the most?

