

Testing in DevOps – What is new and different?

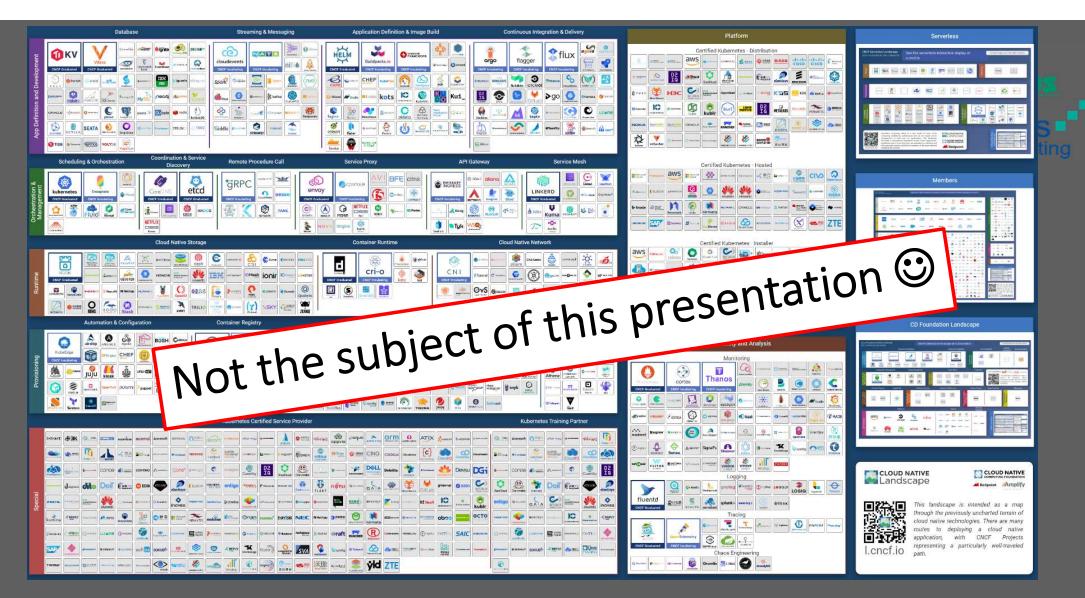
Klaudia Dussa-Zieger, JFTL, Paris, 14.06.2022

14ème édition de la

Journée Française des Tests Logiciels **Development + Operations = DevOps** What is typically associated with DevOps?

- Continuous Integration/Continuous Delivery
- Continuous Deployment
- Delivery Pipeline
- Tools
- Tools
 - ... and even more tools!





https://landscape.cncf.io/?fullscreen=yes

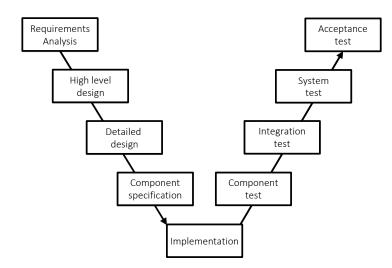


DevOps

Not only tools but so much more!

- Collaboration between development and operations
- Provision of small increments
- Better time to market
- Quality from the beginning
- Continuous learning and improvement through monitoring of production
- Testing is not a phase but an activity, that needs to be continuously executed during development and operations! → Continuous Testing

Testing in the V-model ...



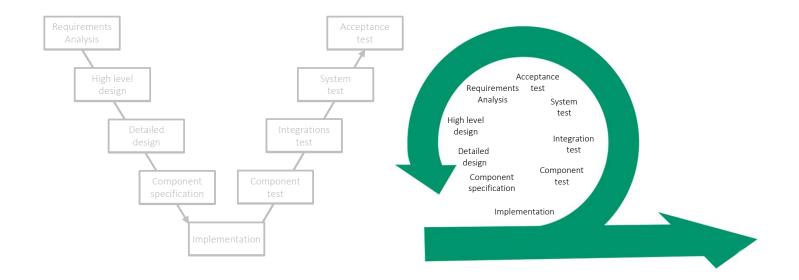
• 1979: V-Modell of B. Boehm

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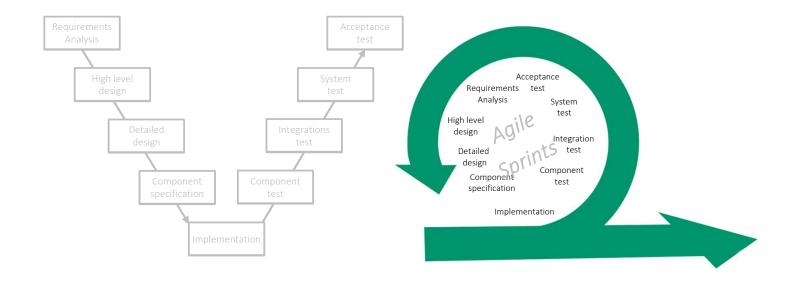
Testing ... in agile development





Testing ... in agile development



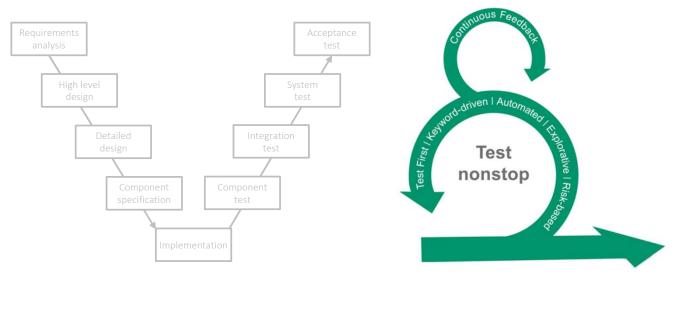


2001: Agile Manifesto

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... in agile development with more speed



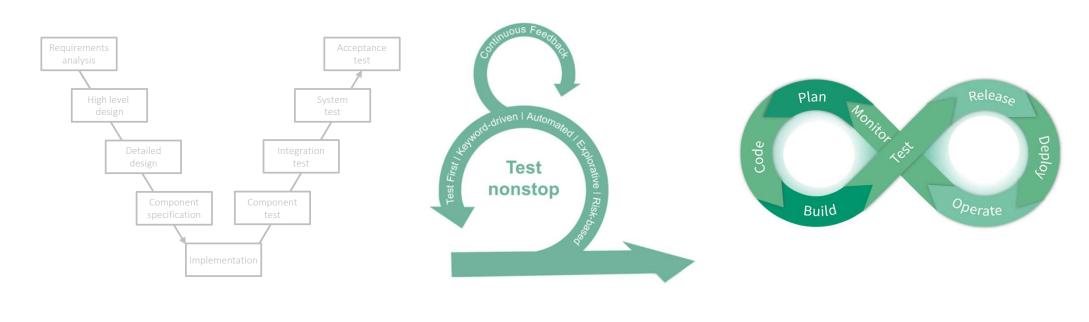
Continuous test automation gains in importance

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Testing



... during development and operations => DevOps

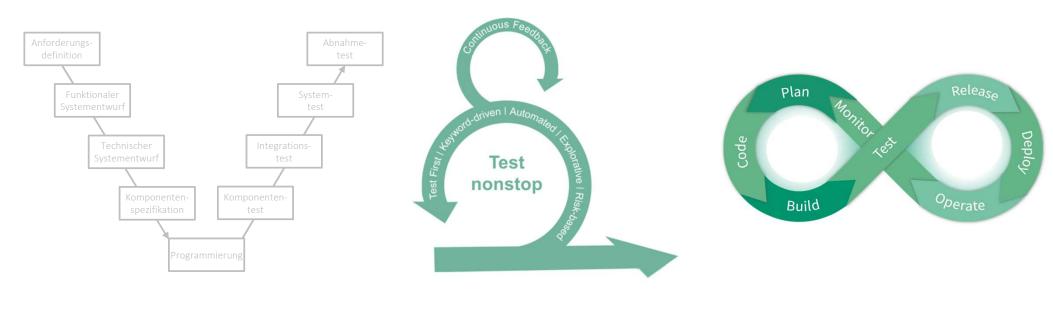


2009: DevOps is coined

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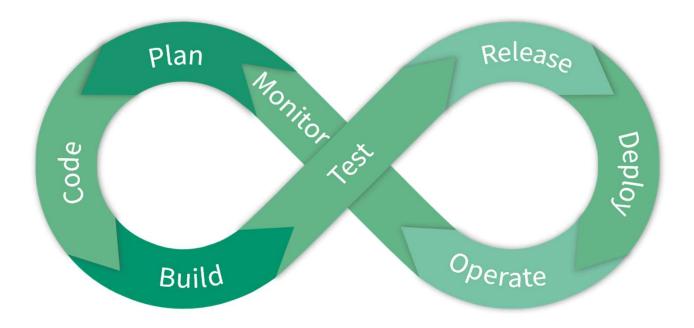


... during development and operations => DevOps



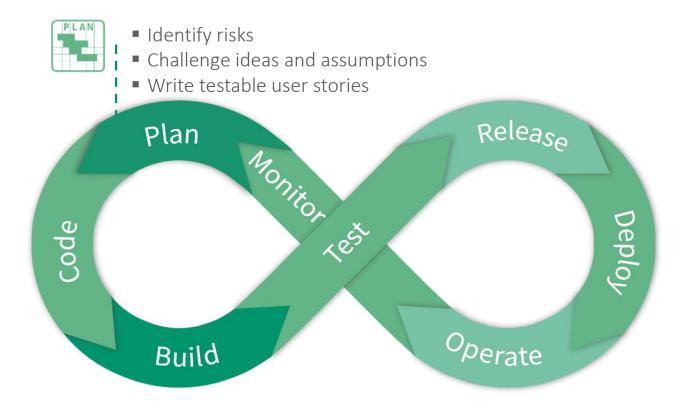
 Continuous Testing in entire life cycle Continuous Testing in DevOps





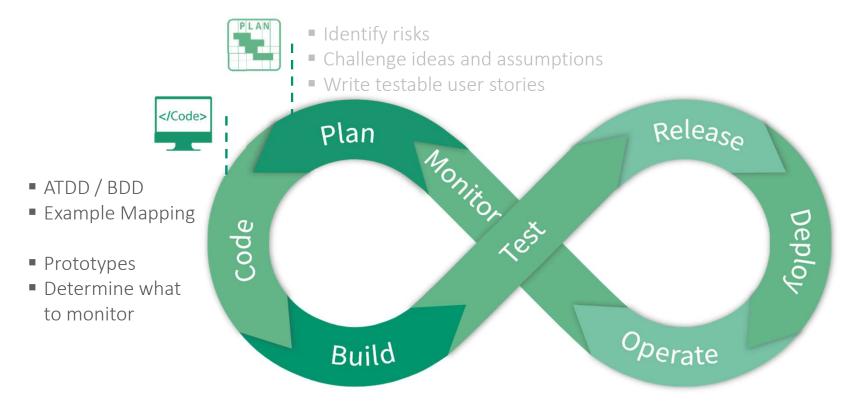






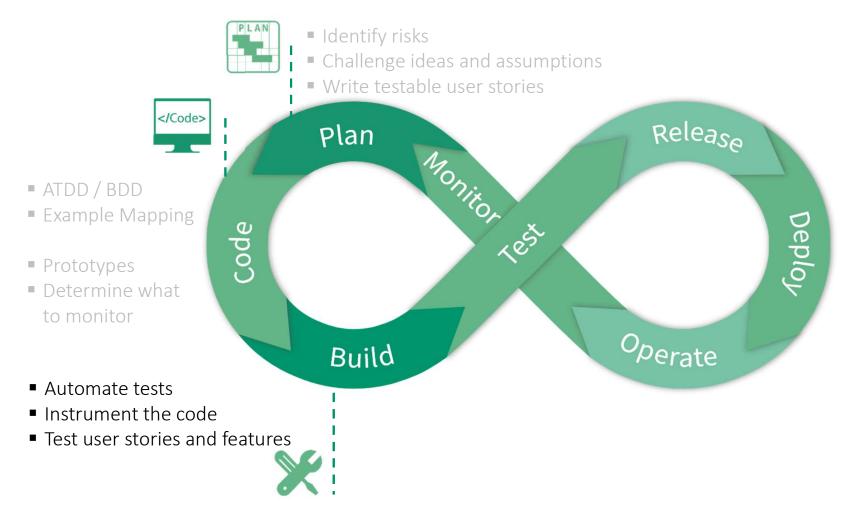






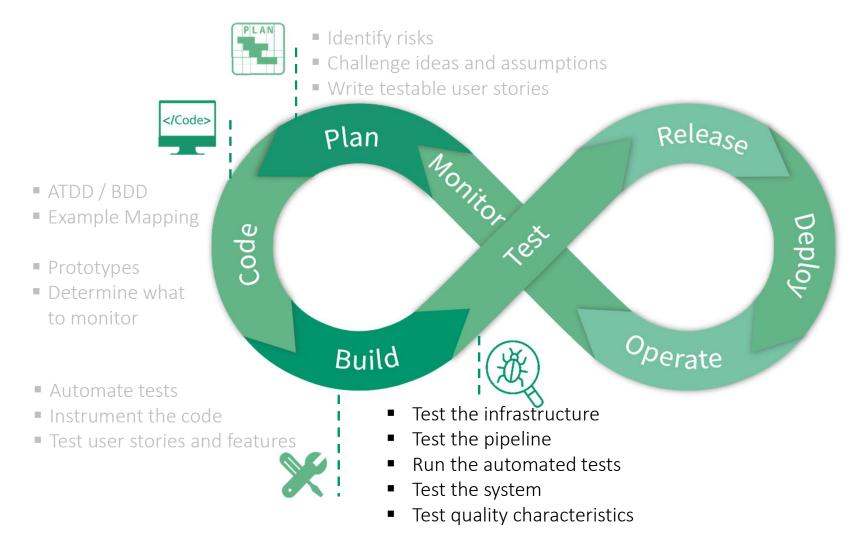


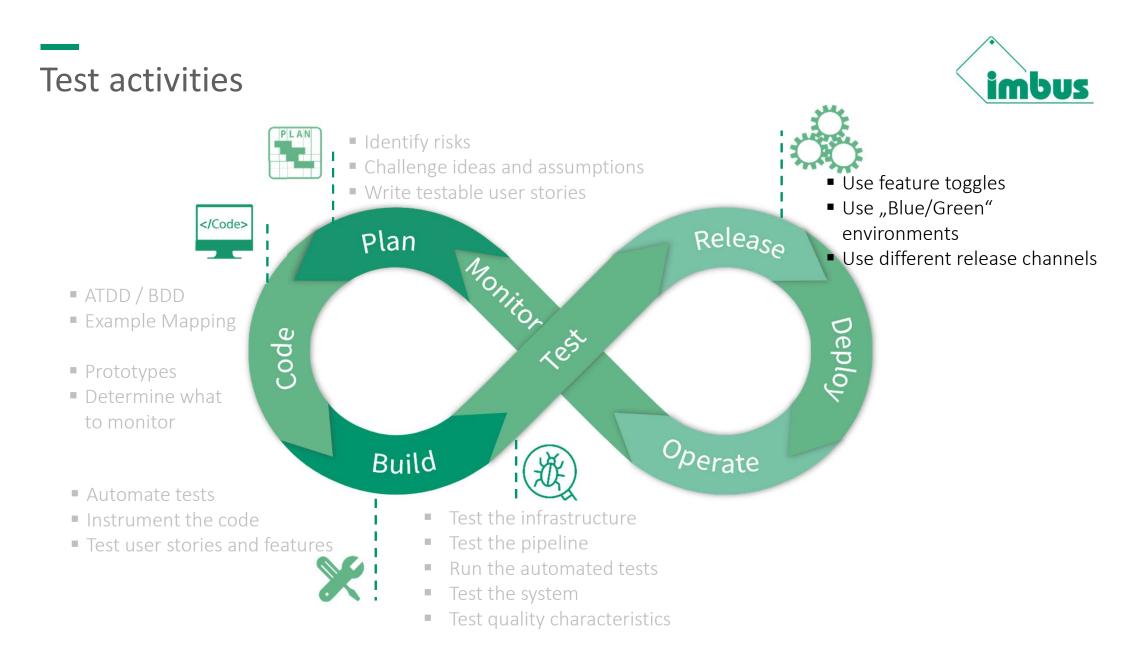


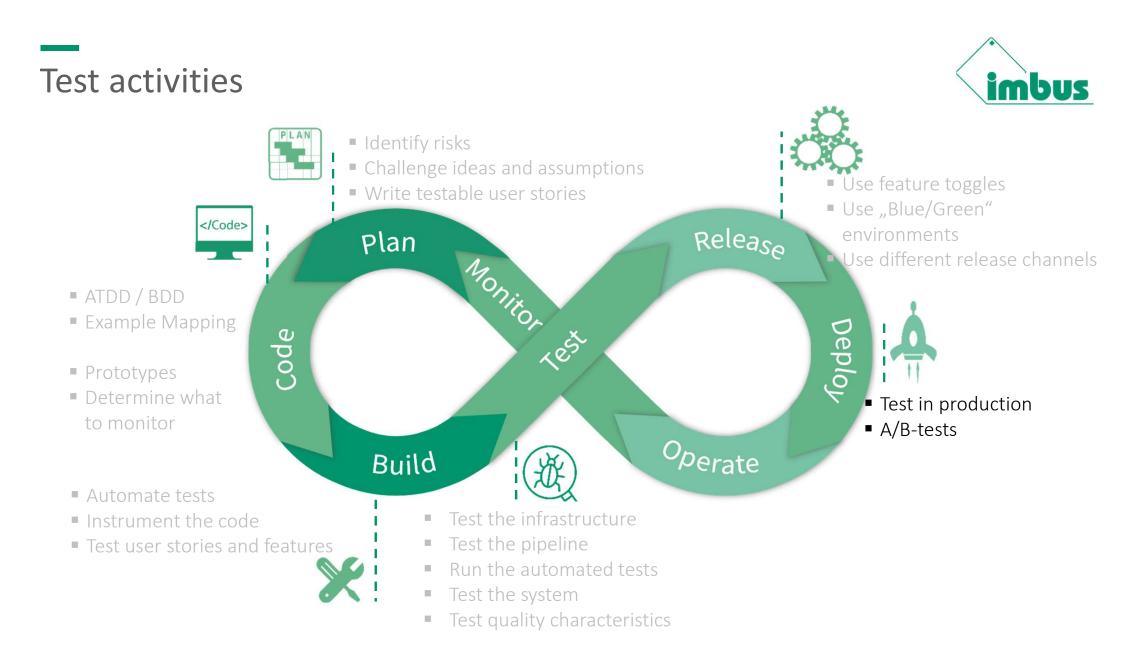


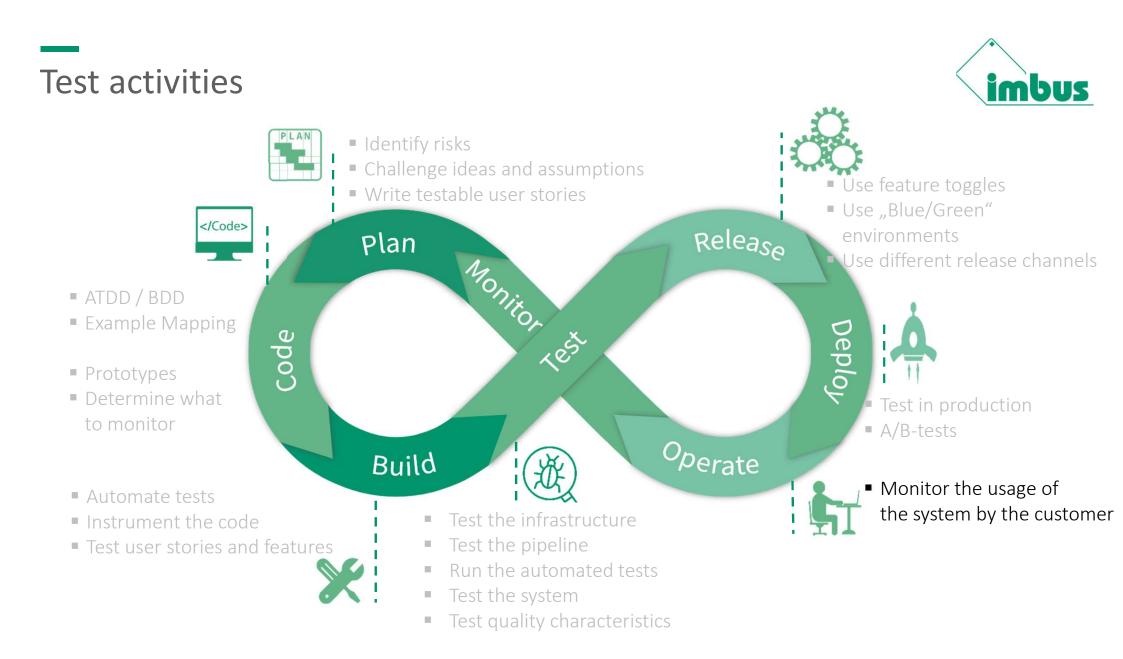


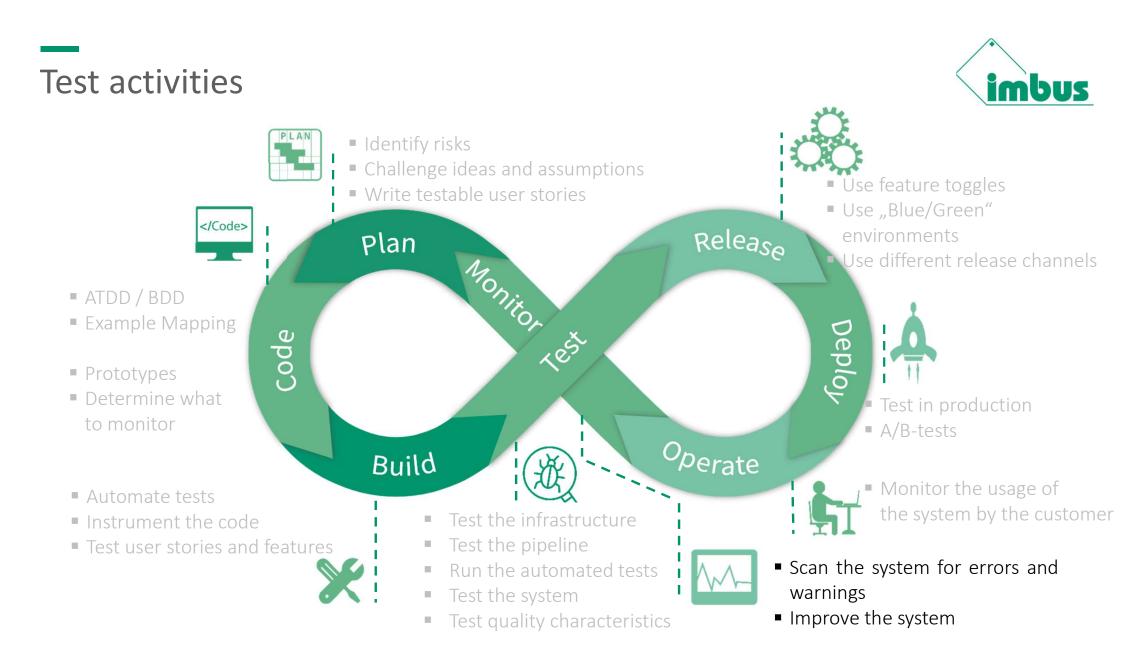


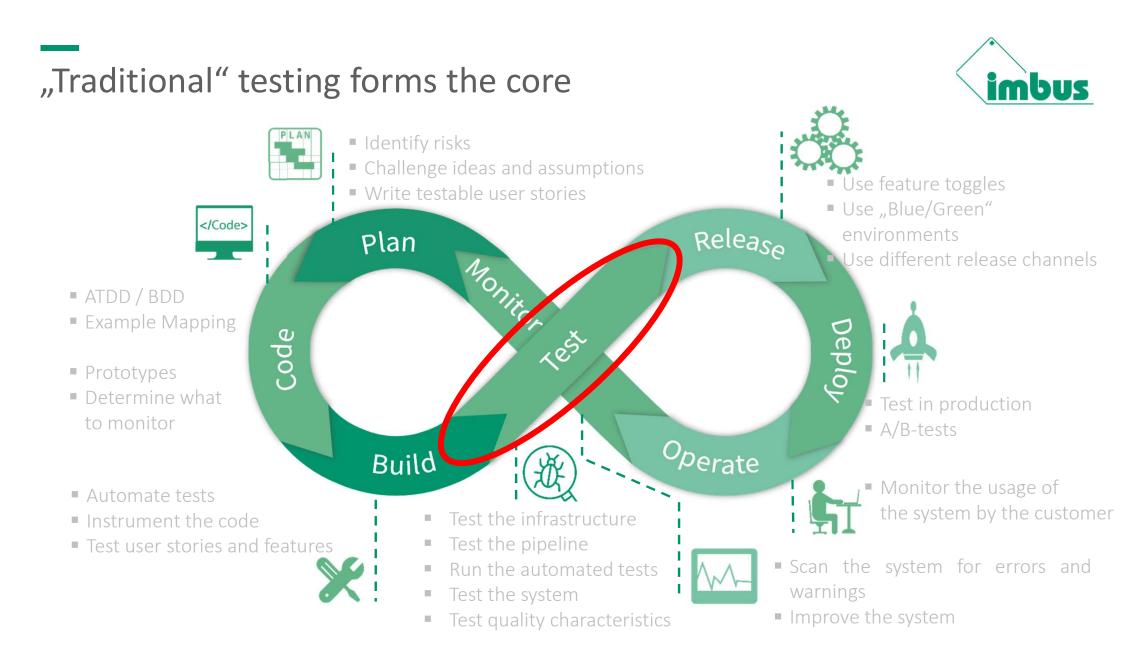


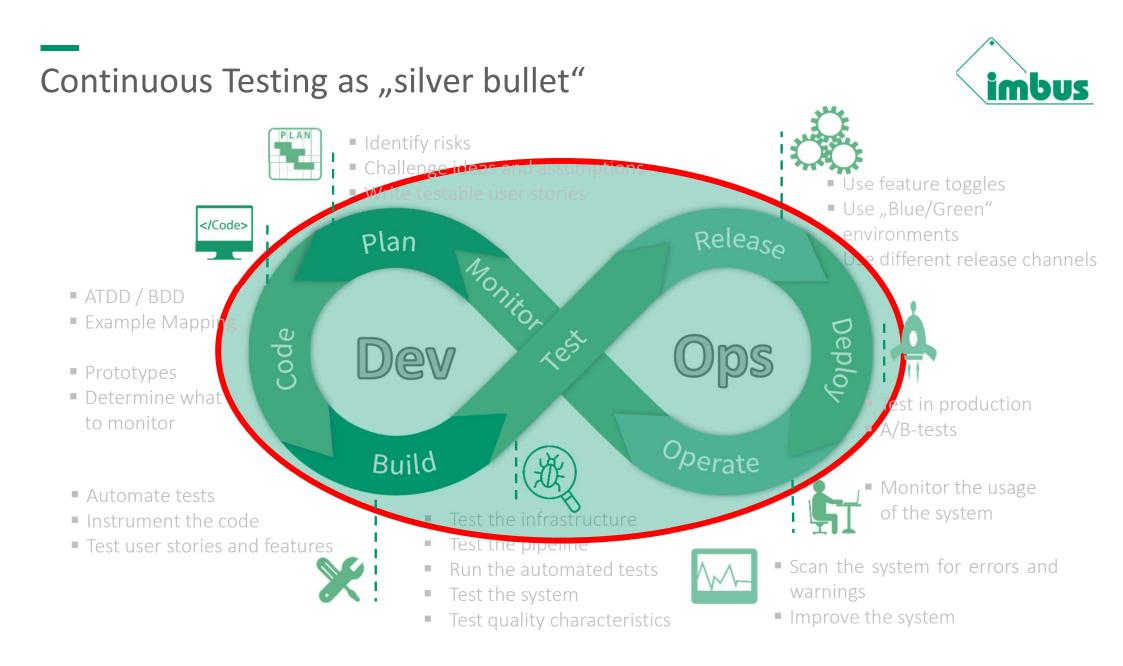














Summary

Good basis

- a lot of approaches/techniques known from testing in the V-model still apply
- the same holds for agile testing

... and testing evolves

- new approaches/techniques are developed
- the scope of testing expands to operations
- continuous learning and improvement through observation of product usage

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Summary

Mindset and Skills of a tester need to expand

- Analysis of business ideas and risk analysis
- Modelling of requirements (ATDD, BDD)
- Knowhow in continuous integration / continuous delivery
- Monitoring in production
- Monitoring of the usage of the product and its continuous improvement
- more tool knowhow
- and more team work!







Questions? Comments? Remarks?

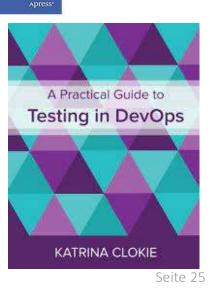
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Literature

- The Phoenix Project Phoenix A novel about IT, DevOps, and Helping Your Business Win Gene Kim, Kevin Behr, Georg Spafford, 2015
- The Kitty Hawk Venture: A Novel about Continuous Testing in DevOps to Support Continuous Delivery and Business Success Jeffrey Scheaffer, Aruna Ravichandran, Alex Martin, 2018
- A Practical Guide to Testing in DevOps Katrina Clokie, 2017
- Janet Gregory, Holistic Testing https://janetgregory.ca/testing-from-a-holistic-point-of-view/





The Kitty

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