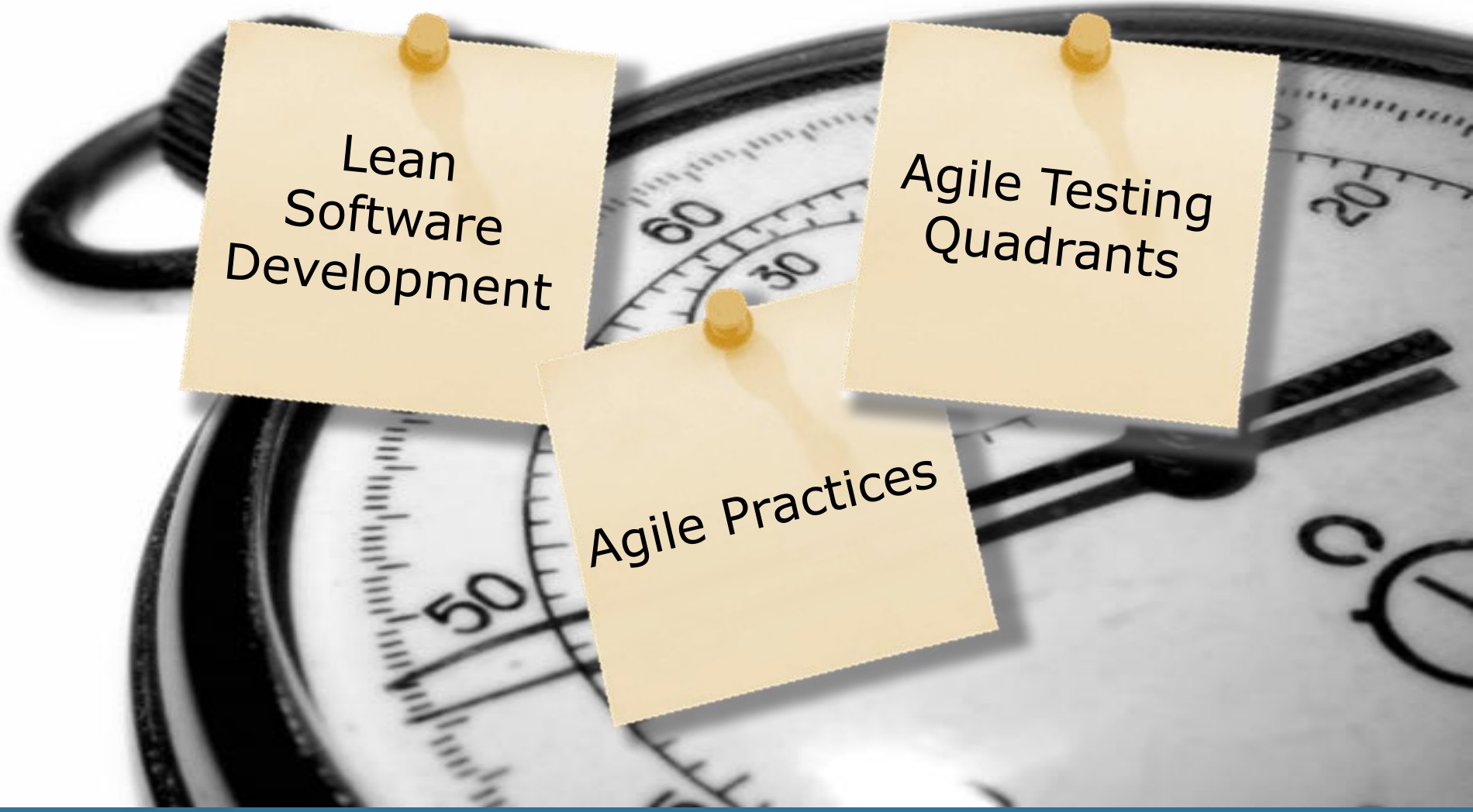
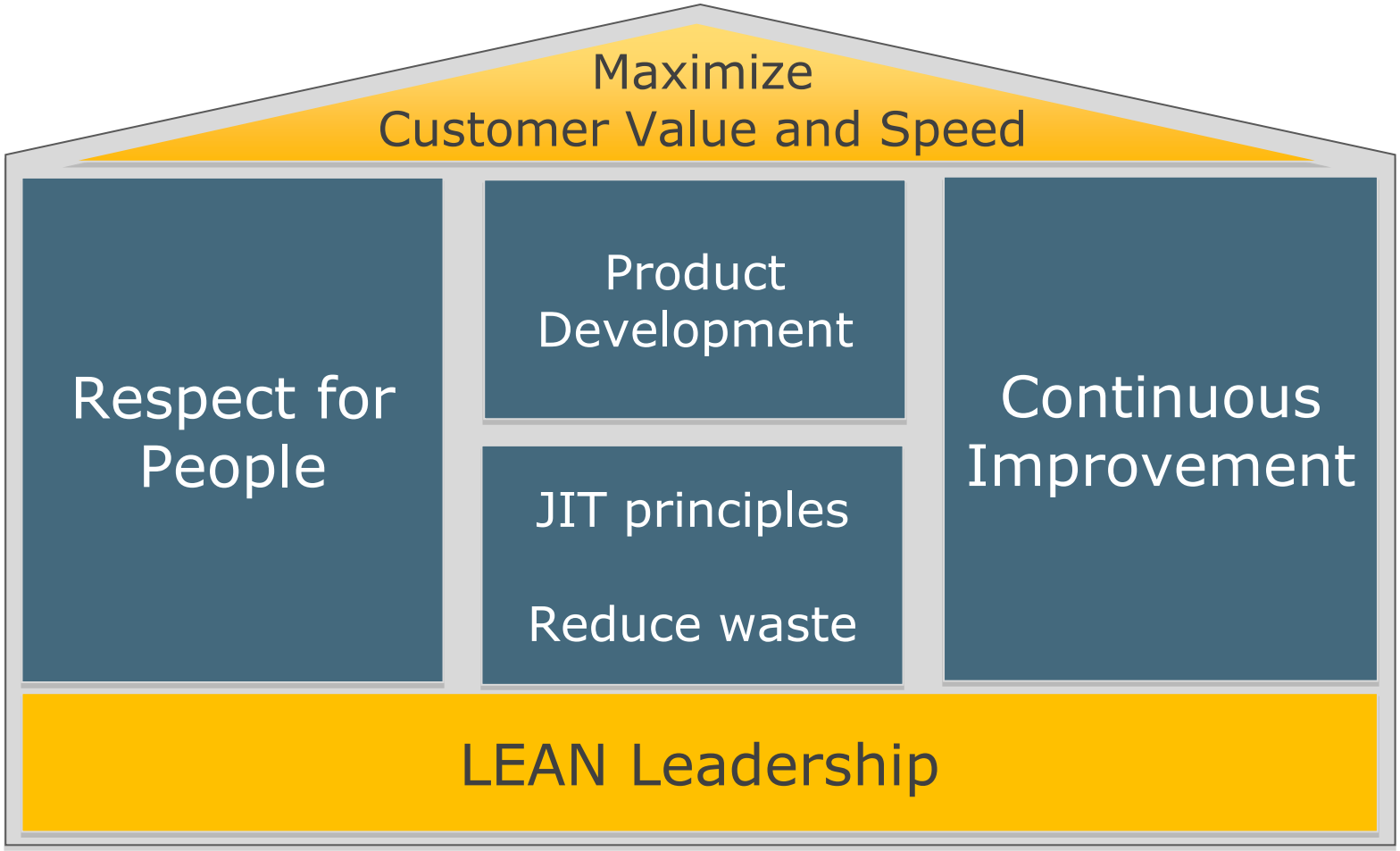
Lean-Agile Test Practices for Enterprise Solutions Development

Stoyan Kanev & Nikolai Dokovski

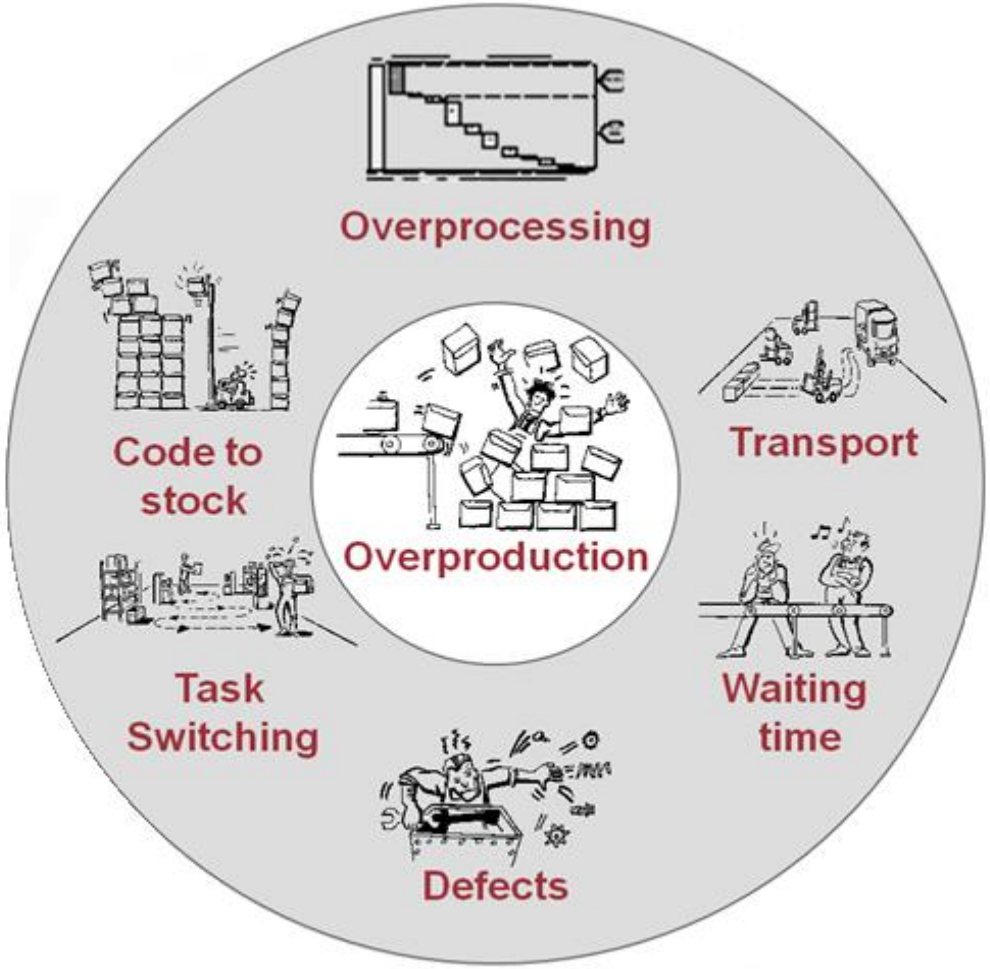
Agenda


Lean Software Development
Agile Testing Quadrants
Agile Practices

Lean Thinking House



Waste in Development

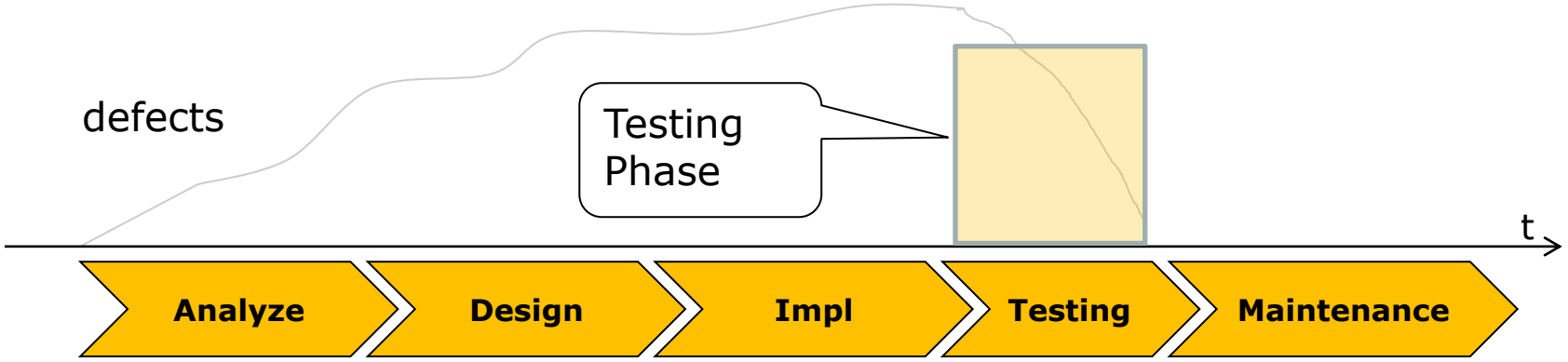


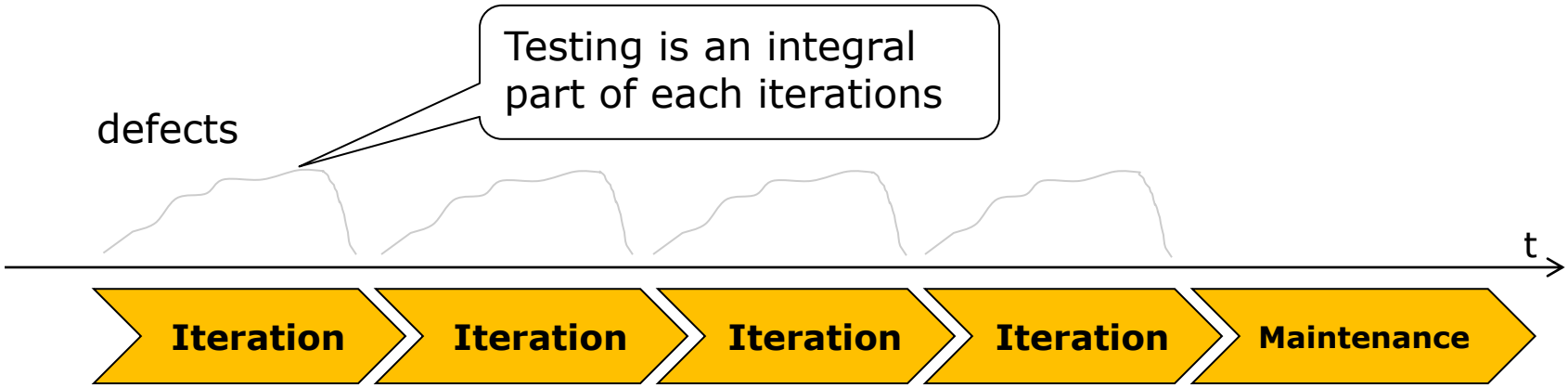
What is SCRUM ?

- Iterative and incremental
- Clear roles
- Simple process
- Simple set of rules

Collective Responsibility

Testing is NOT a Phase





Continuous Integration

- Automated build process
- Tests on submit
- Rapid feedback
- Increased predictability
- Reduced risk

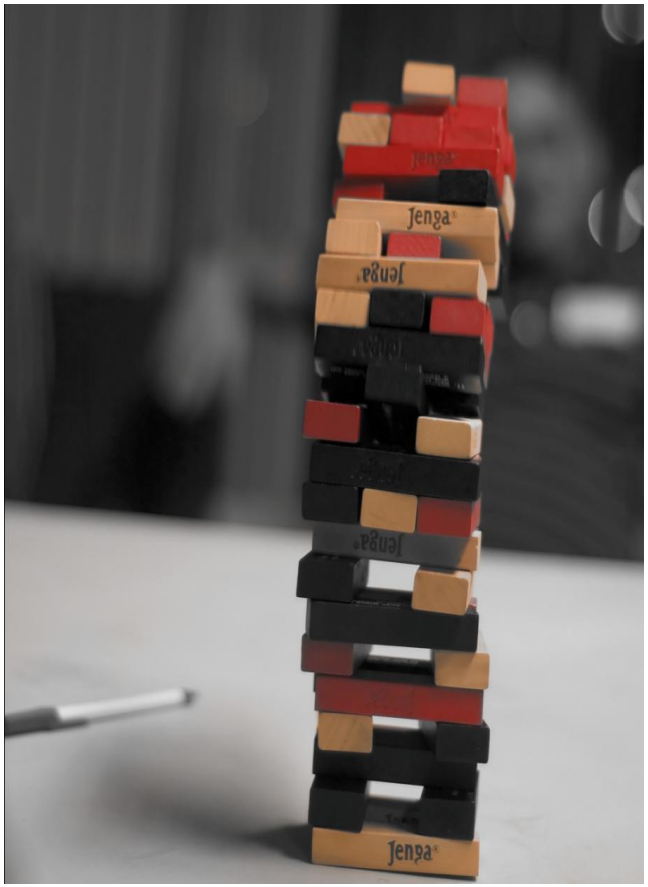
Pair Programming

- Continuous code review
- Distributed knowledge
- Discipline

Refactoring & Clean Code

Leave the place cleaner than it was when you got there…
(Boy Scout Rule)

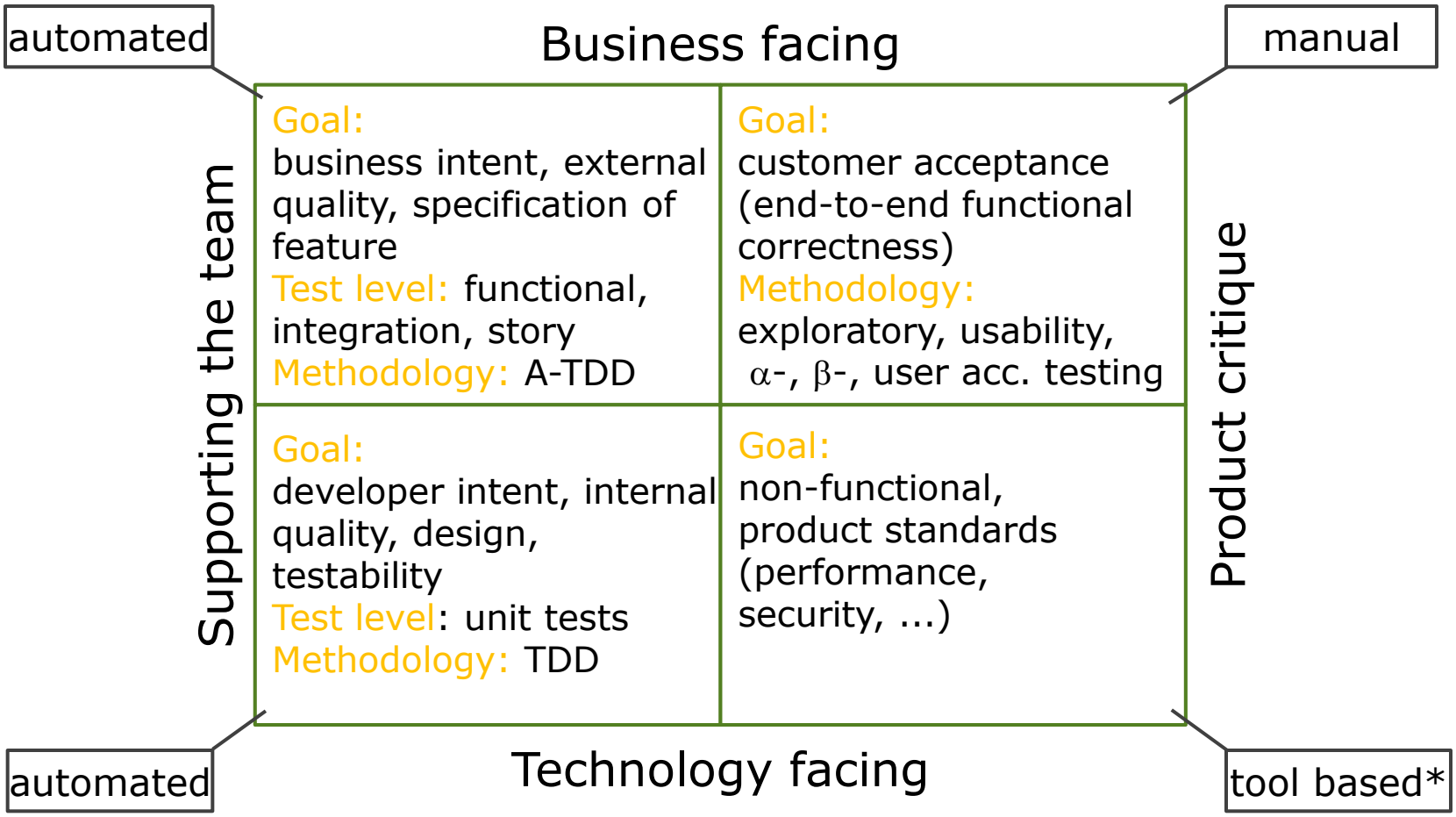
- Improve code quality
- Clean up “Code Smells”
- Clean up “Design Smells”



Agile Testing Quadrants

Source: Brian Marick

Agile Testing Quadrants



Quadrants do NOT replace each other!

Source: Brian Marick

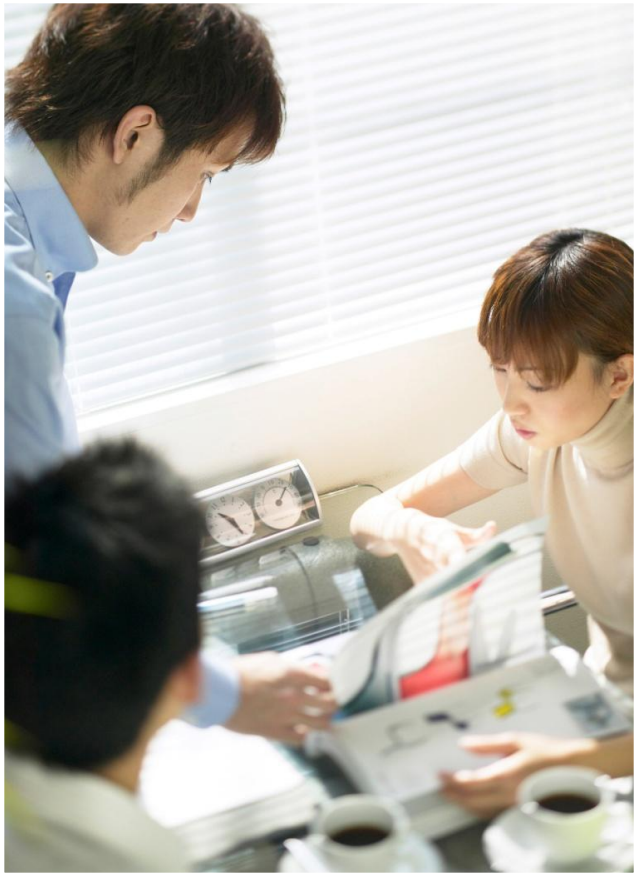
Agile Testing Quadrants

Benefits:

- Team can go faster, do more
- Team is more confident
- Customer collaboration
- Evaluation through real usage

Quality Principles

- Empowered teams
- Fast feedback cycles
- Testing is part of development
- Prevention over detection



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Thank you!

Q & A

Reference Materials

- Agile Management For Software Engineering, Anderson. Brilliant
- Lean Software Development: An Agile Toolkit for Software Development Managers, Poppendieck, Poppendieck
- Implementing Lean Software Development: From Concept to Cash, Poppendieck, Poppendieck
- Lean Thinking: Banish Waste and Create Wealth in Your Corporation, Womack, Jones
- Toyota Production System: Beyond Large-Scale Production, Ohno
- Clean Code: A Handbook for Agile Software Craftsmanship, Robert C. Martin
- LEAN PRIMER, Craig Larman and Bas Vodde;*www.leanprimer.com/downloads/lean_primer.pdf*
- The Machine That Changed the World: The Story of Lean Production, Womack , Jones ,Roos
- Fit for Developing Software: Framework for Integrated Tests, Mugridge, Cunningham
- Everyday Scripting with Ruby: For Technologists, Testers, and You, Brian Marick
- Framework for IntegratedTests - Fit/FitNesse – http://fit.c2.com/, www.Fitnesse.org
- GUI Testing Tools: Canoo Web Test – http://webtest.canoo.com;
  Watir – http://wtr.rubyforge.org/; Selenium - http://www.openqa.org/selenium/