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GOTO Copenhagen 2017
Conference Oct. 1-3, 2017

We are agile but...

Gitte Ottosen

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Education
Corporal in the Royal Danish Airforce

Certifications
SCRUM master, ISEB foundation/practitioner, CAT trainer, Tmap Test Engineer, Tmap Test Manager, TPI Next foundation , SAFe SPC

Experience
- 22 years in the IT business
- 5 years in Capgemini Sogeti

Focus
Test management, test engineering, SCRUM, process improvement, LEAN, agile, context driven test, change management

Agile Experience
Customers: Systematic Software Engineering A/S, Mærsk Line IT, DONG, KMD, TDC, Arla

Other
Fellow Sogeti Labs

Agile … In the perfect world

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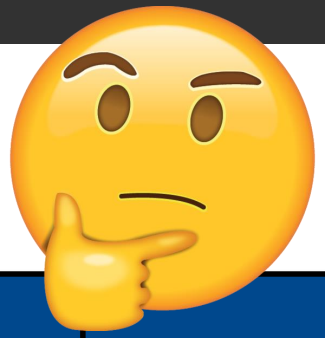
- A cross functional team – all competences available within the team
- Quality is everybodys responsibility
- TDD integrated part of development method
- BDD the way we get the user stories right
- Continuous integration
- Automated regression test suite
- Potentially shippable software at the end of the sprint

An Agile Transition... Some Quality Related Challenges



- Unstable Teams
- Business not available
- Large manual regression test suite
- No focus on test automation
- No continuous integration
- Quality is not build in – it is tested in late in the project
- Old systems with little if any focus on unit test
- Test is handled by a separate department

Then what....?

No Magic Wand... But some practical tips

The agile manifest

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

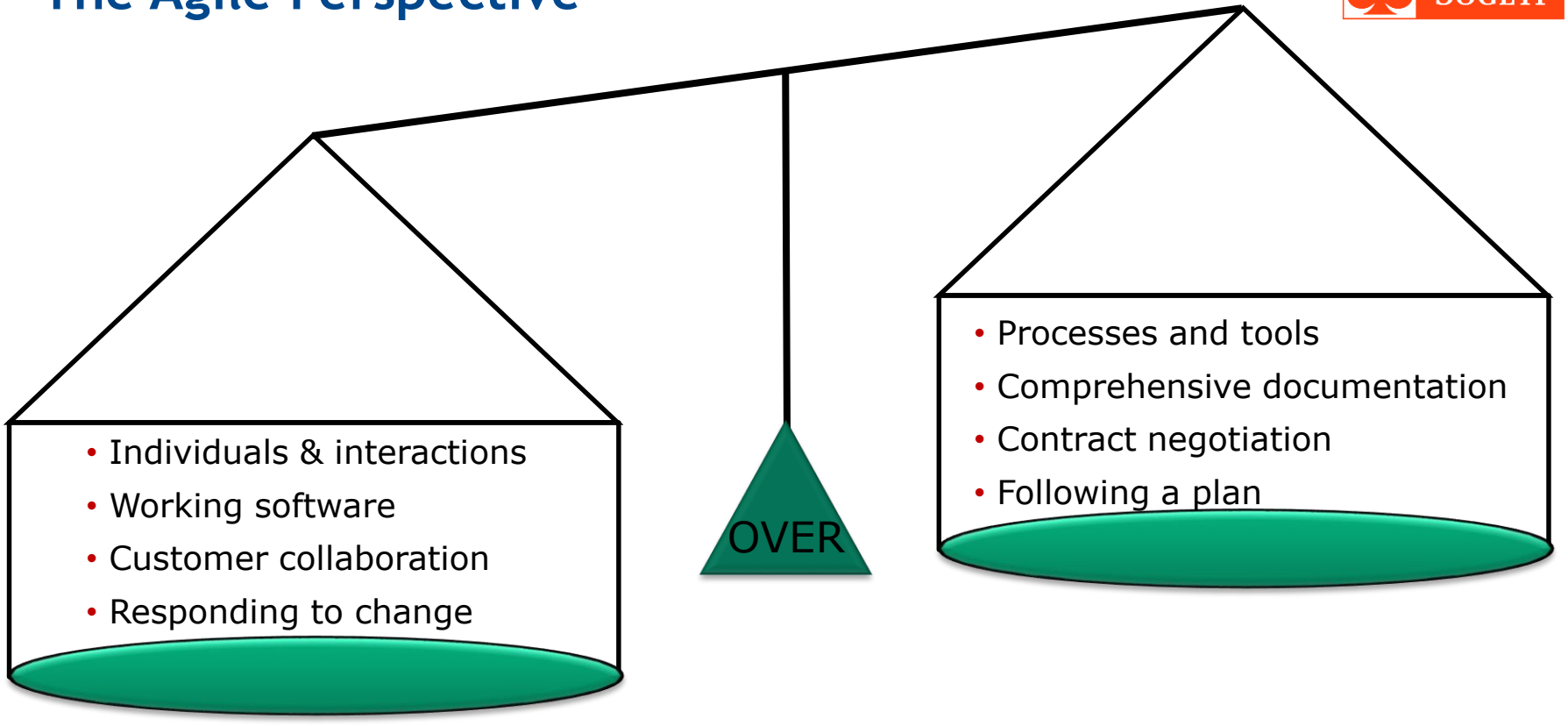
Individuals and interactions	***over***	**processes and tools**
Working software	***over***	**comprehensive doc.**
Customer collaboration	***over***	**contract negotiation**
Responding to change	***over***	**following a plan**

That is, while there is value in the items on the right, we value the items on the left more.

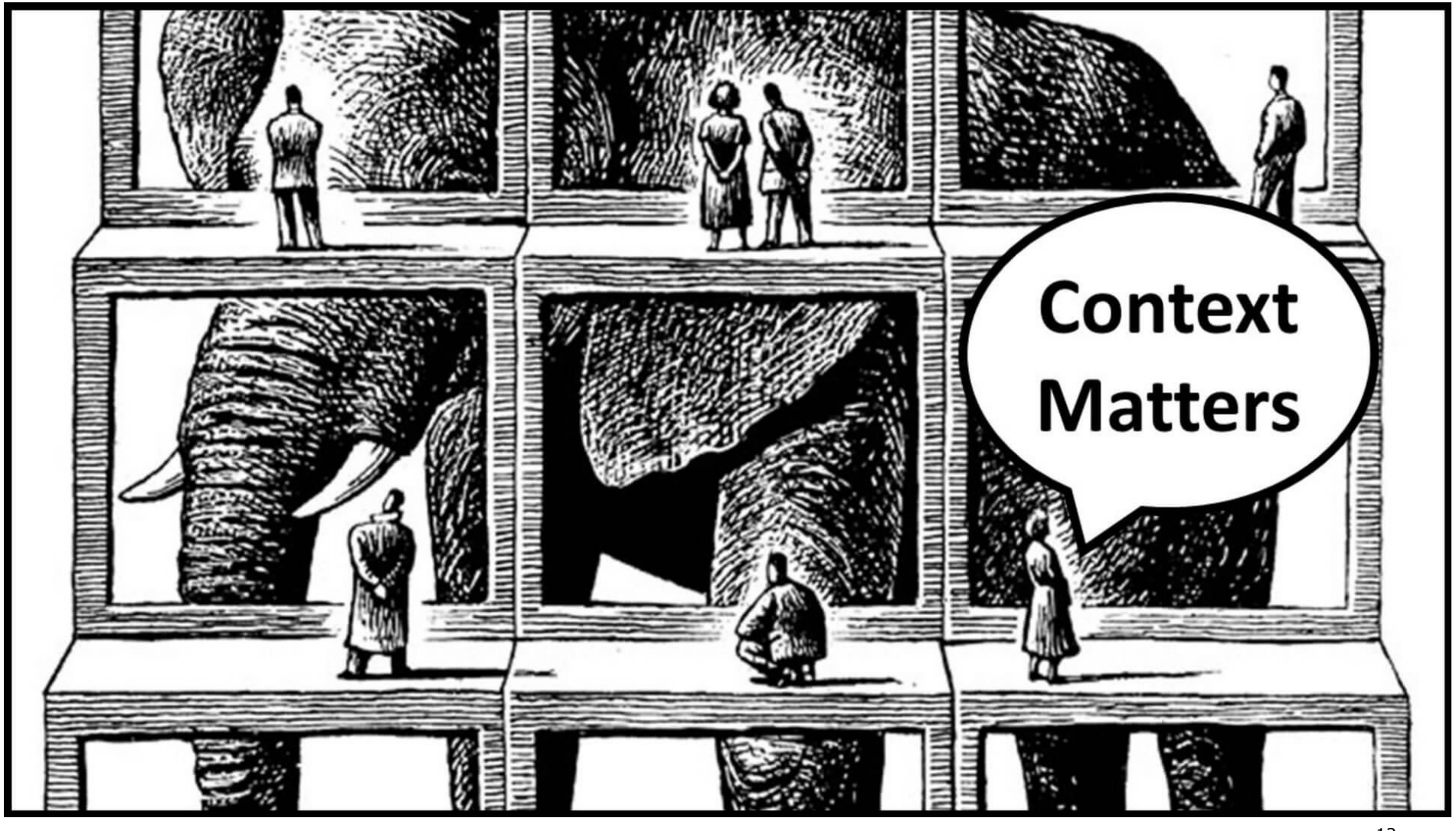
Reference

Kent Beck, Mike Beedle, Arie van Bennekum, Alistair Cockburn
Ward Cunningham, Martin Fowler, James Grenning, Jim Highsmith
Andrew Hunt, Ron Jeffries, Jon Kern, Brian Marick, Robert C. Martin
Steve Mellor, Ken Schwaber, Jeff Sutherland, Dave Thomas

The Agile Perspective



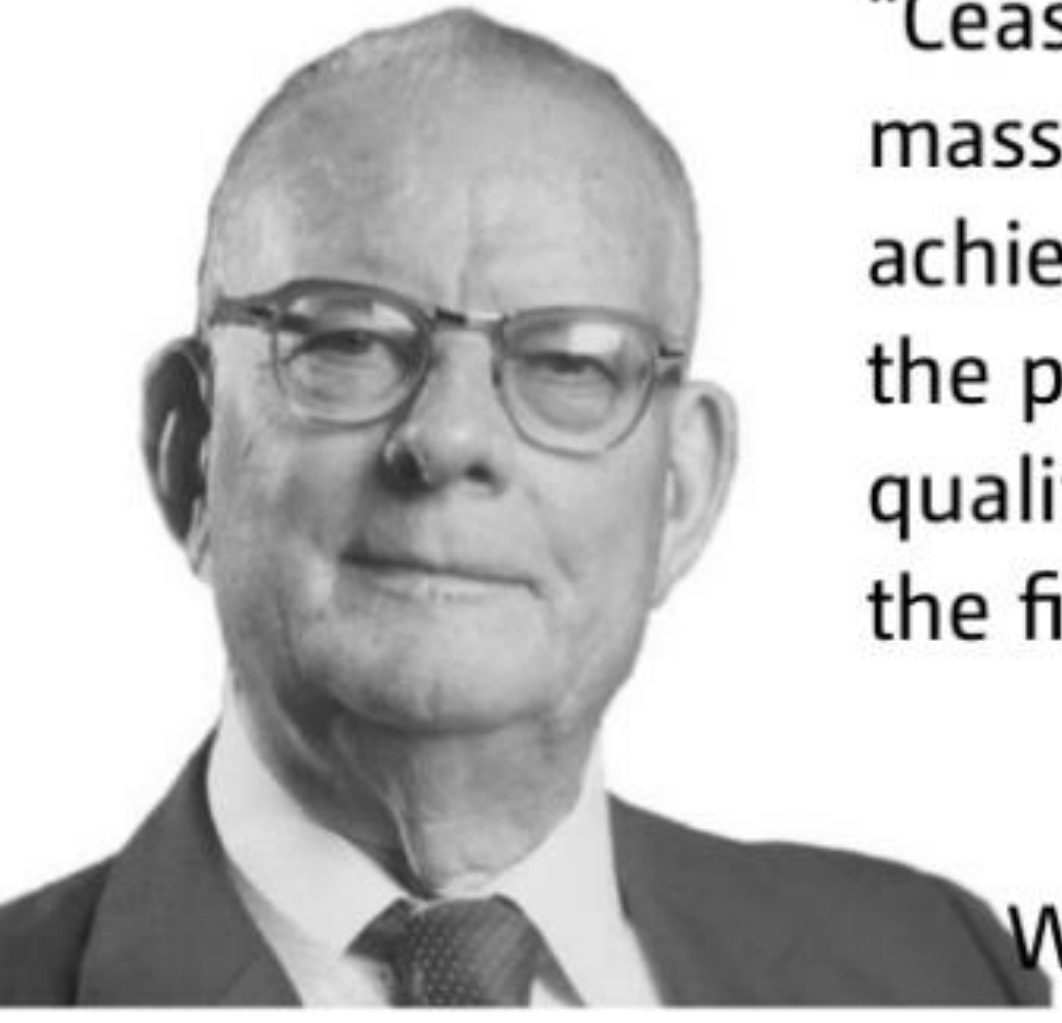
You don’t become agile in a blink of an eye


Context
Matters

Quality is something we test in...

The 12 Agile Principles

1. Our highest priority is to **satisfy the customer** through early and continuous delivery of valuable software.
2. **Welcome changing requirements**, even late in development. Agile processes harness change for the customer's competitive advantage.
3. Deliver **working software** frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
4. Business people and developers must **work together** daily throughout the project.
5. Build projects around **motivated individuals**. Give them the environment and support they need, and trust them to get the job done.
6. The most efficient and effective method of conveying information to and within a development team is **face-to-face conversation**.
7. Working software is the primary **measure of progress**. Agile processes promote sustainable development.
8. The sponsors, developers, and users should be able to maintain a **constant pace** indefinitely.
9. Continuous attention to **technical excellence** and good design enhances agility.
10. **Simplicity-**-the art of maximizing the amount of work not done--is essential.
11. The best architectures, requirements, and designs emerge from **self-organizing teams.**
12. At regular intervals**, the team reflects** on how to become more effective, then tunes and adjusts its behavior accordingly.



"Cease dependence on mass inspection to achieve quality. Improve the process and build quality into the product in the first place"

W. Edwards Deming

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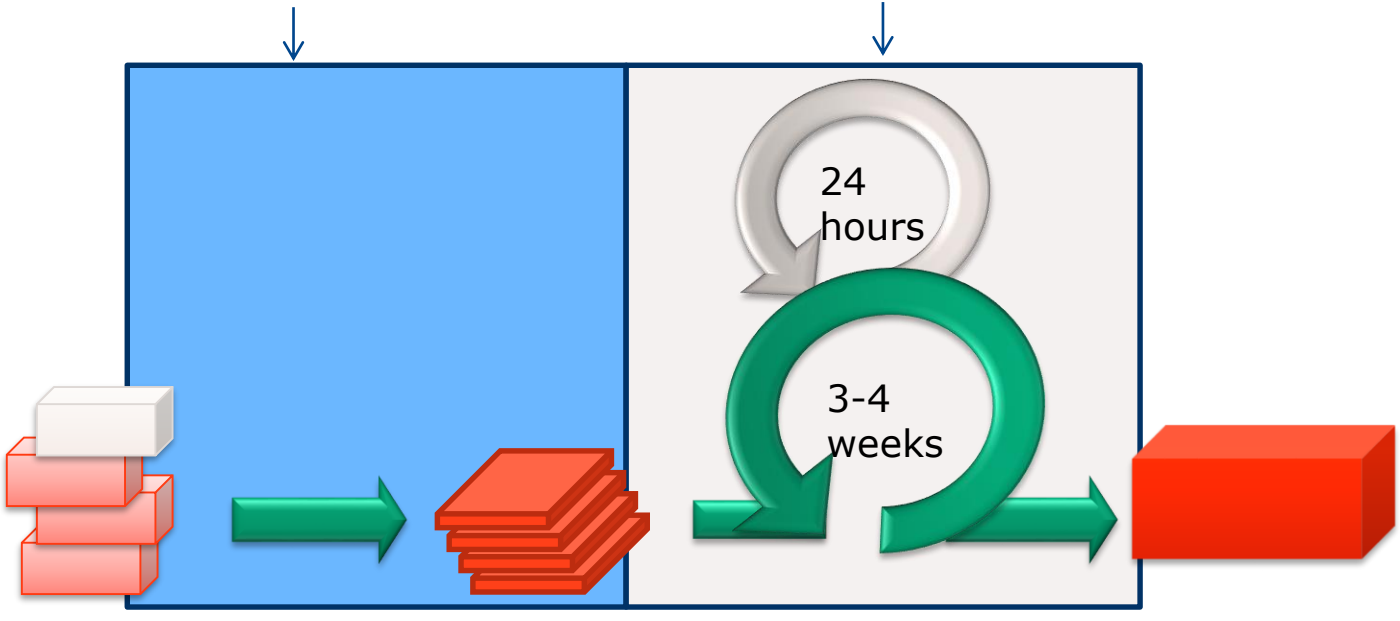
Or maybe even here?

Testing needs to be here?



Product Backlog
Prioritized by customer

Sprint Backlog
Broken down by
SCRUM team.

Testet product ready
for release

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Are you ready?

User stories and acceptance criteria

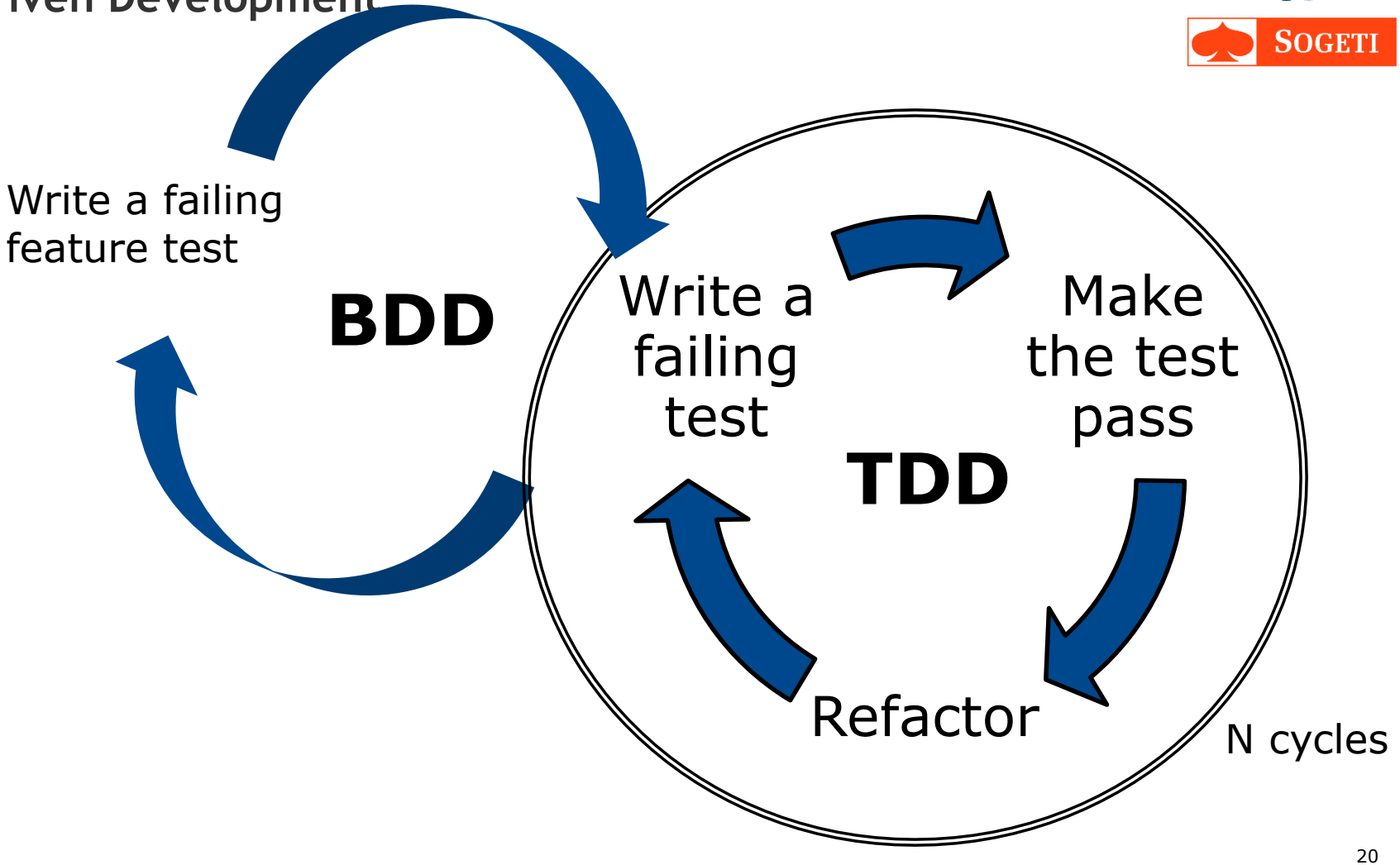
Ask what – not how

Specific
Measurable
Agreed
Relevant
Testable

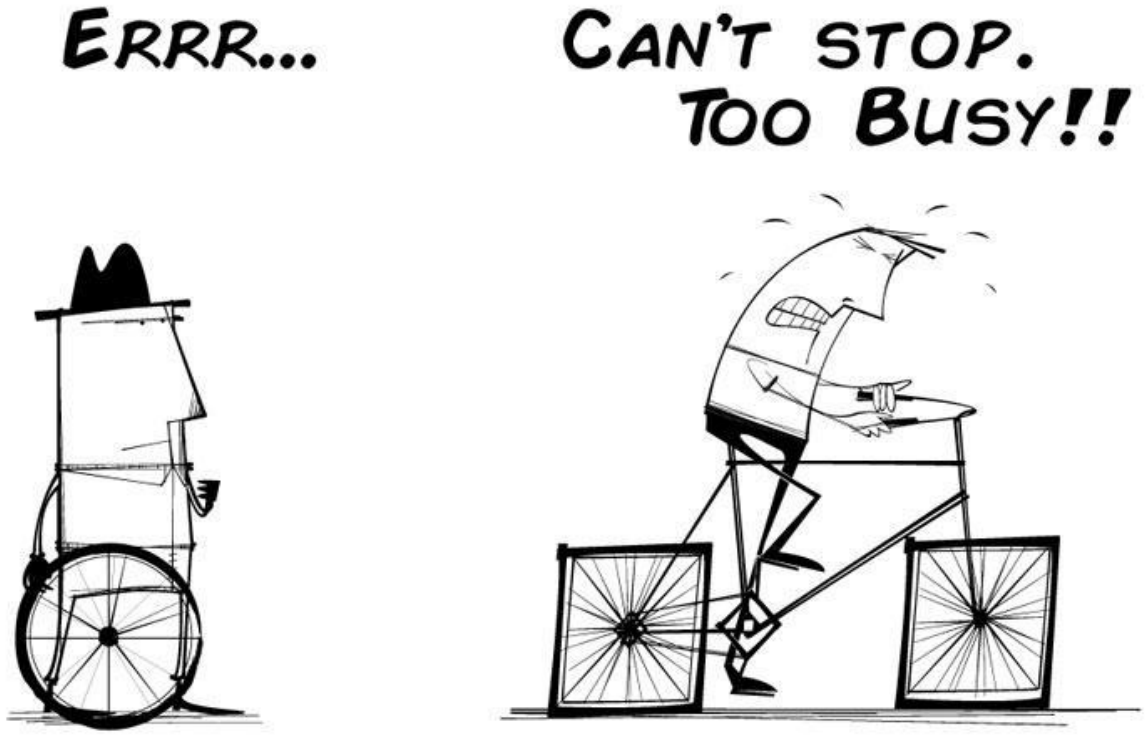
Given…
When…
Then…

X

X-driven Development



Technical Debth



Source: activestate.com

Testing is someone else's problem

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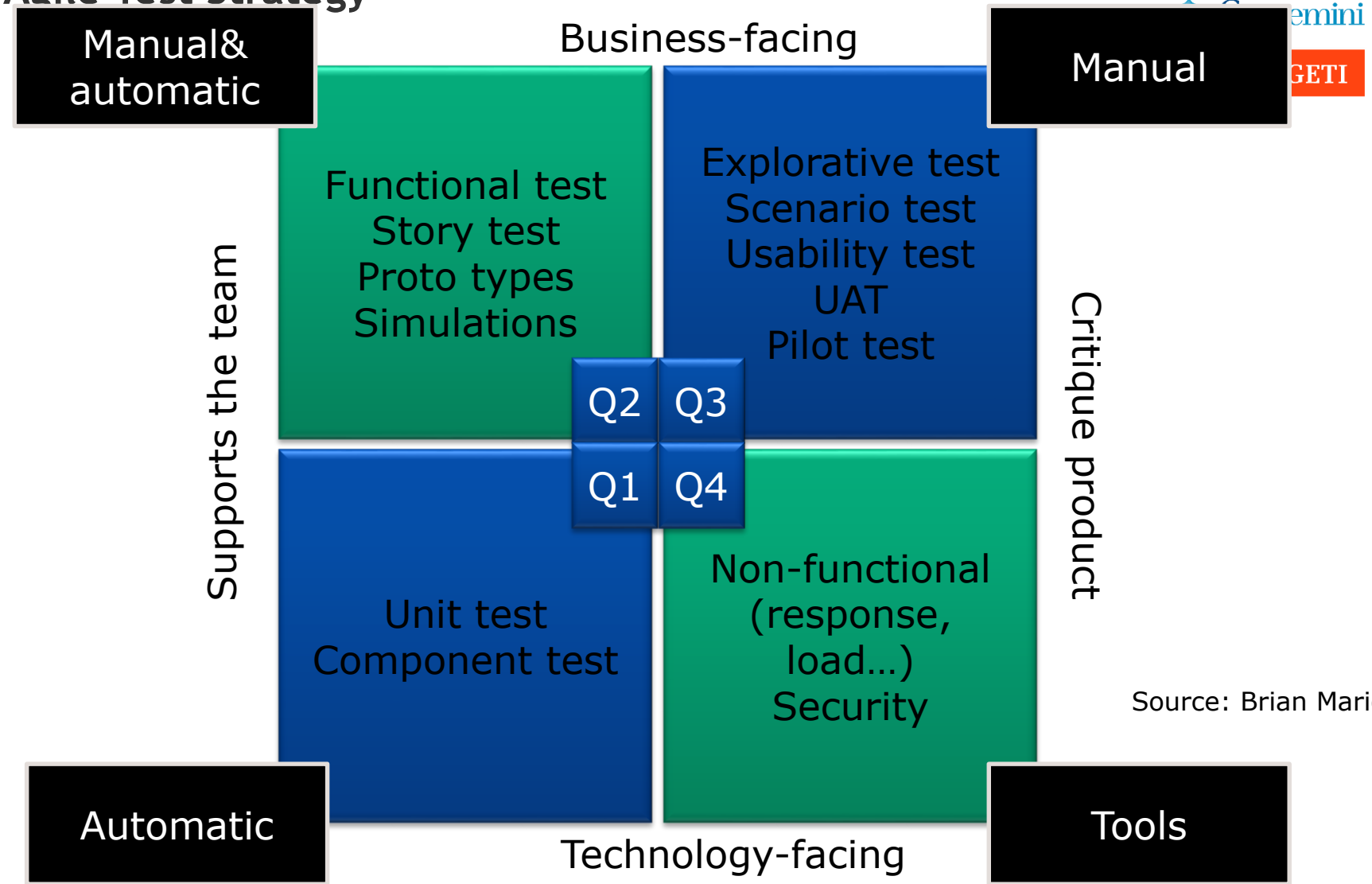
Get a TESTER integrated in the team

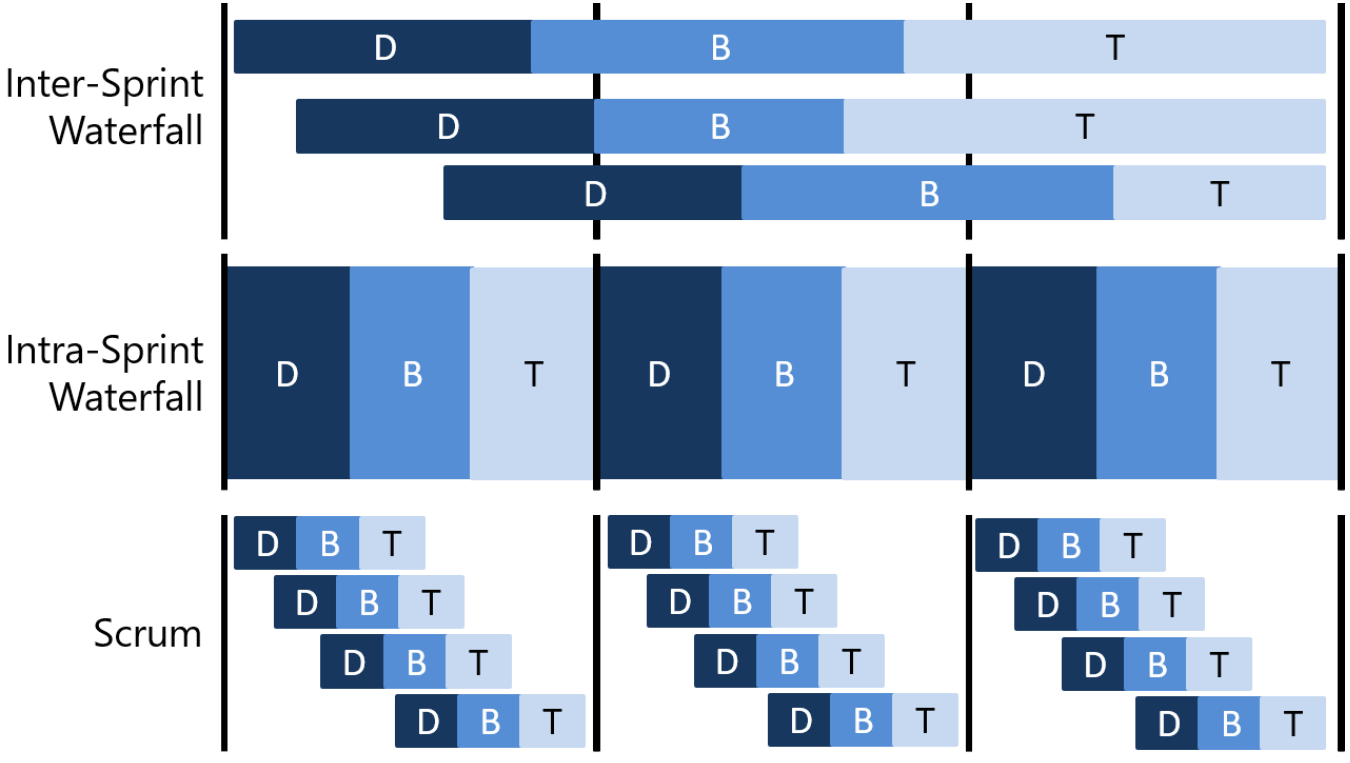
Get TESTING integrated in the team

The Agile Test Strategy



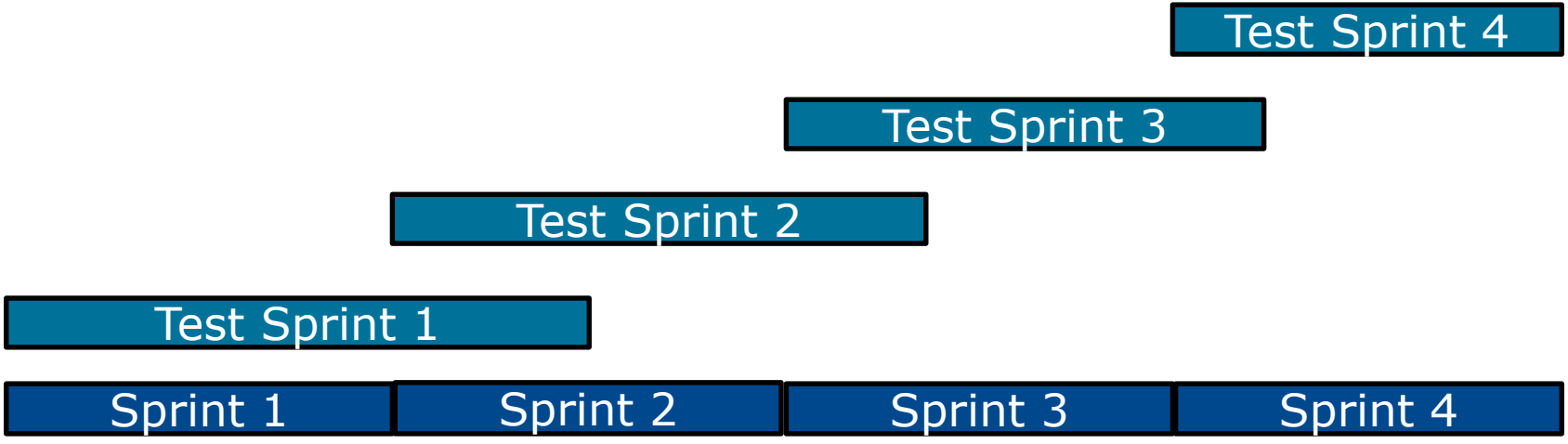
Source: Brian Marick

But when do we test?

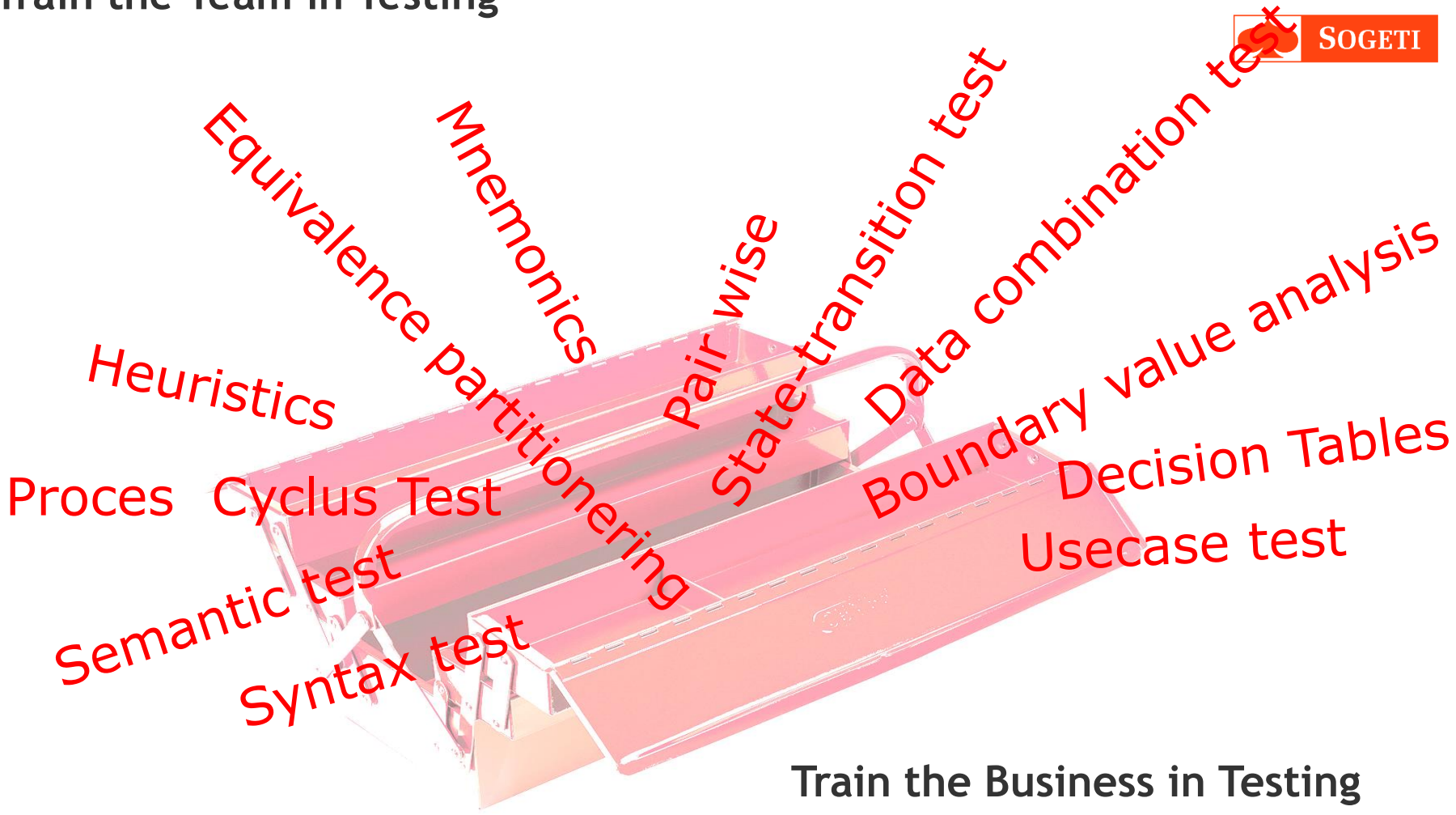


https://zenexmachina.wordpress.com

Changing the way we test



Train the Team in Testing



Train the Business in Testing

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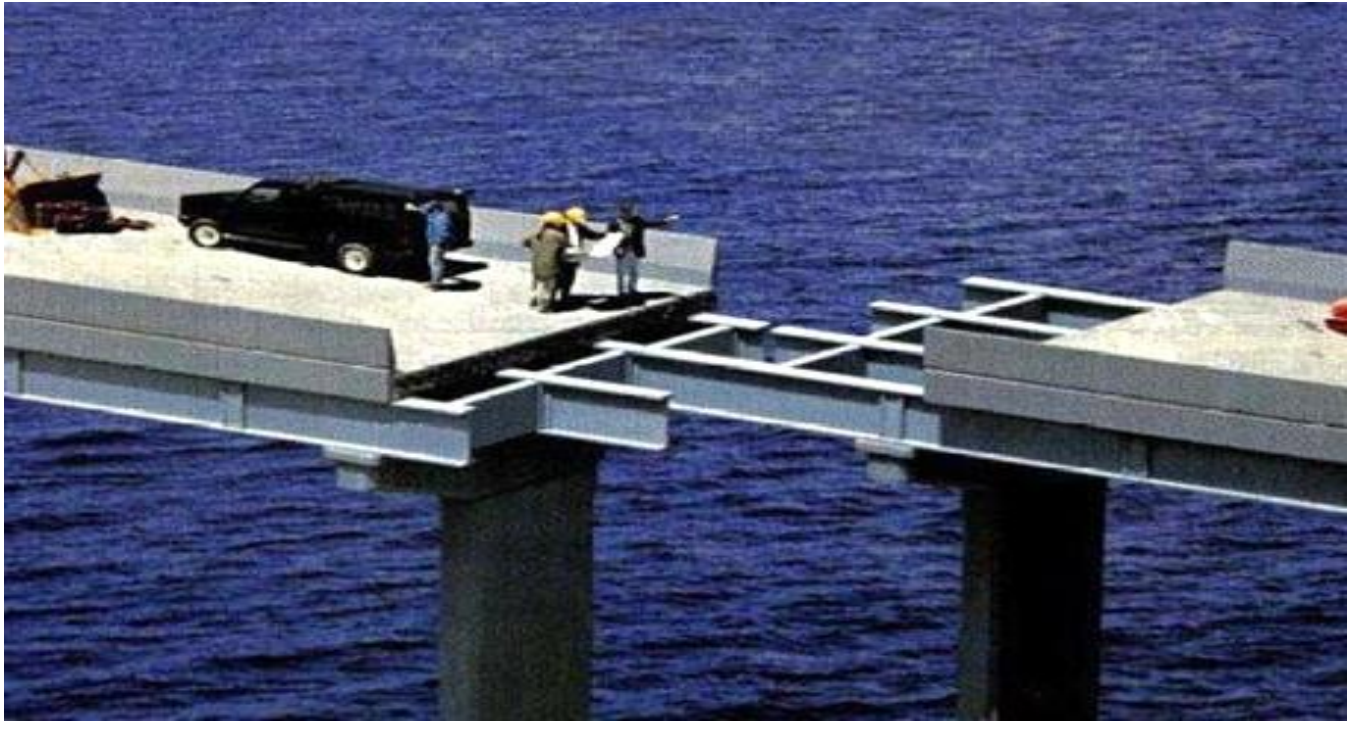
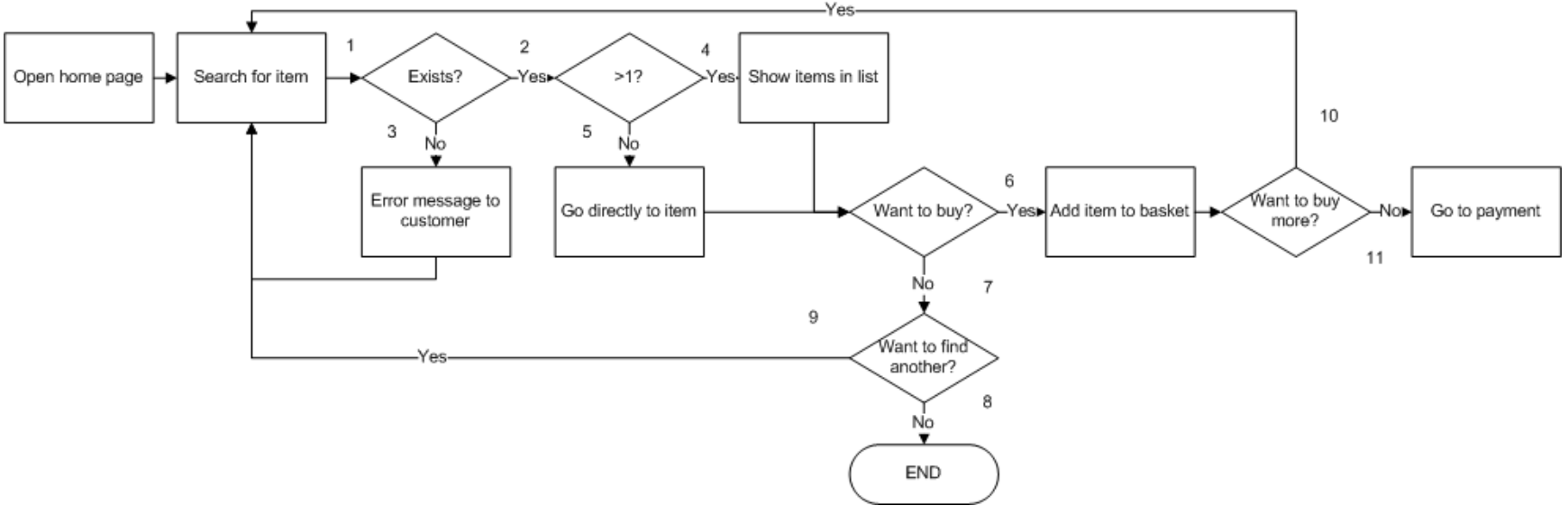
Business not available

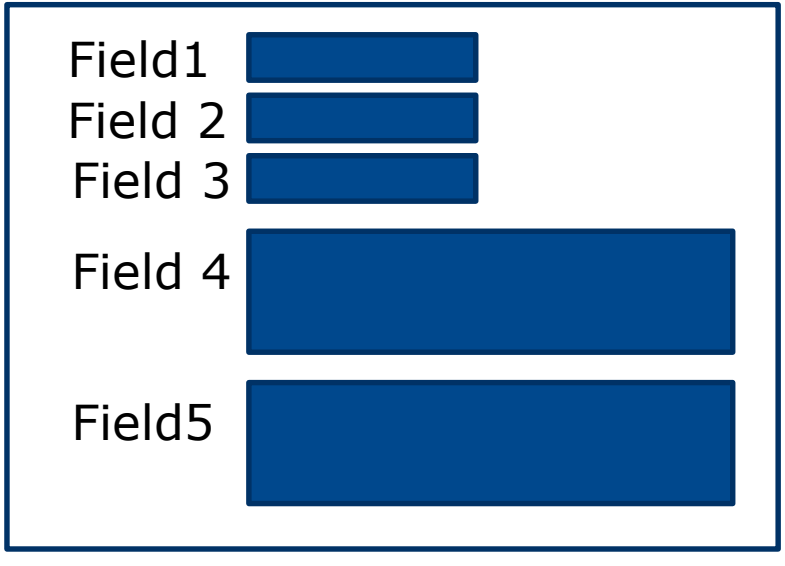
Building Bridge Between Business and IT

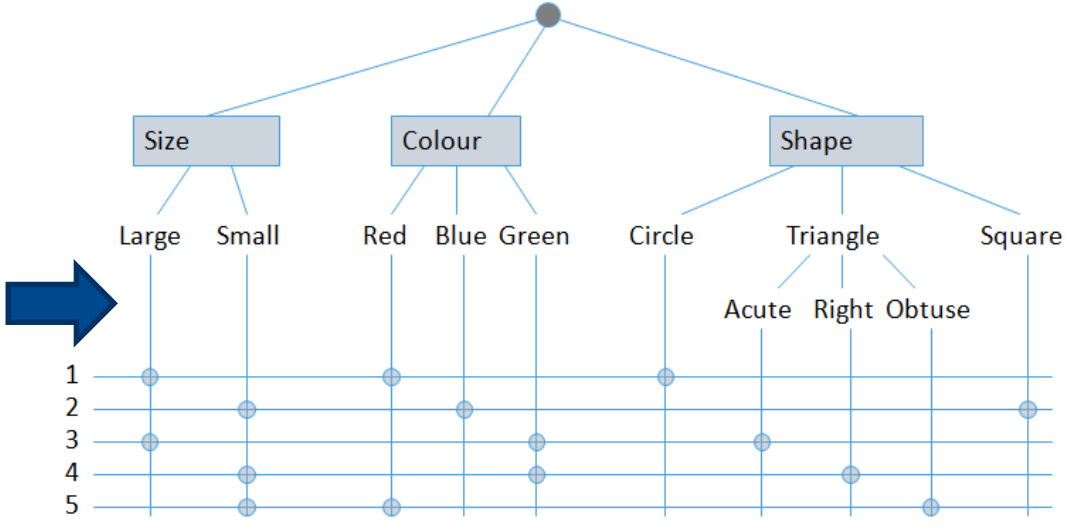


Understand your business

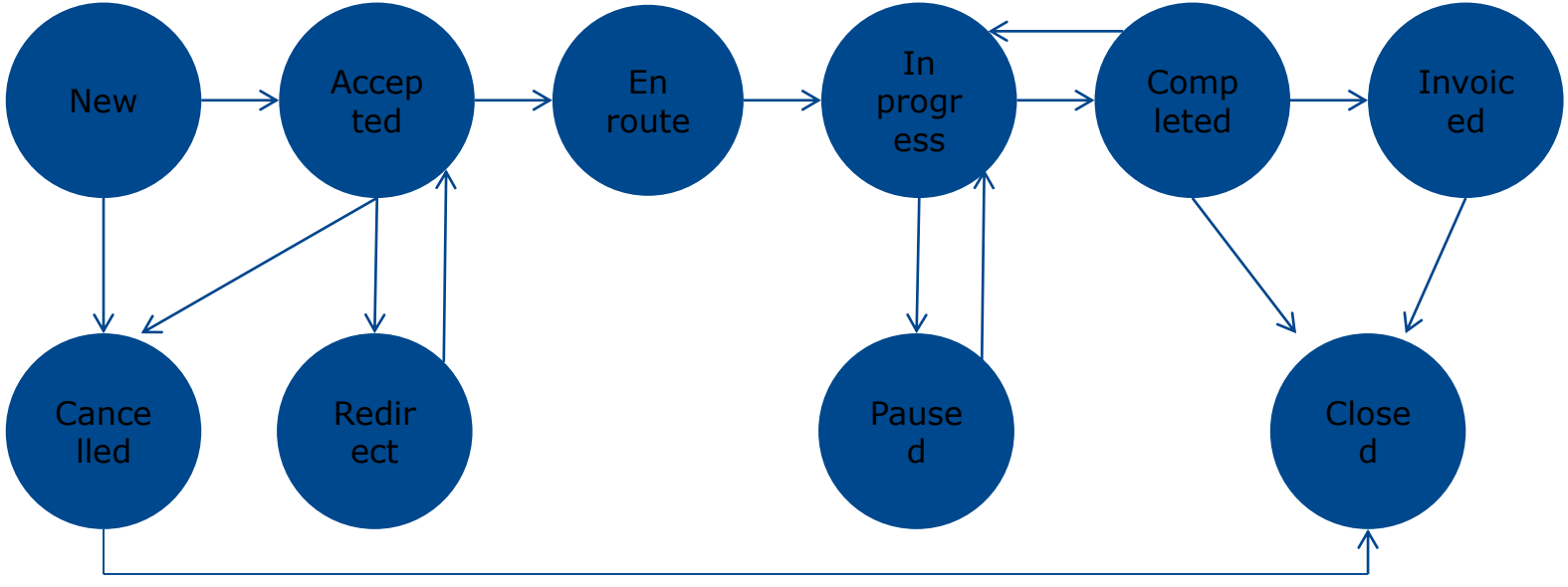


Classification Trees



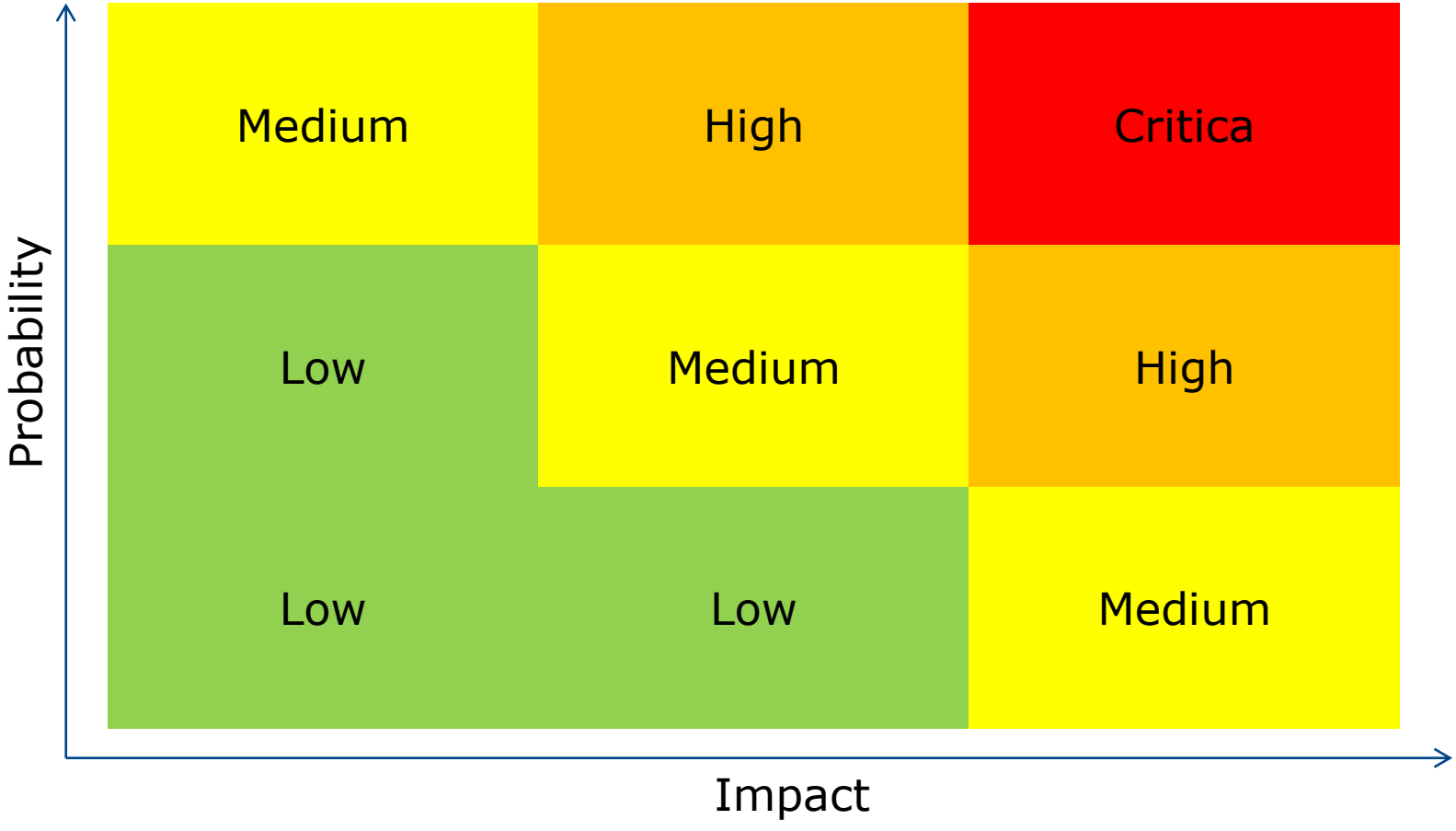


State Transition Test



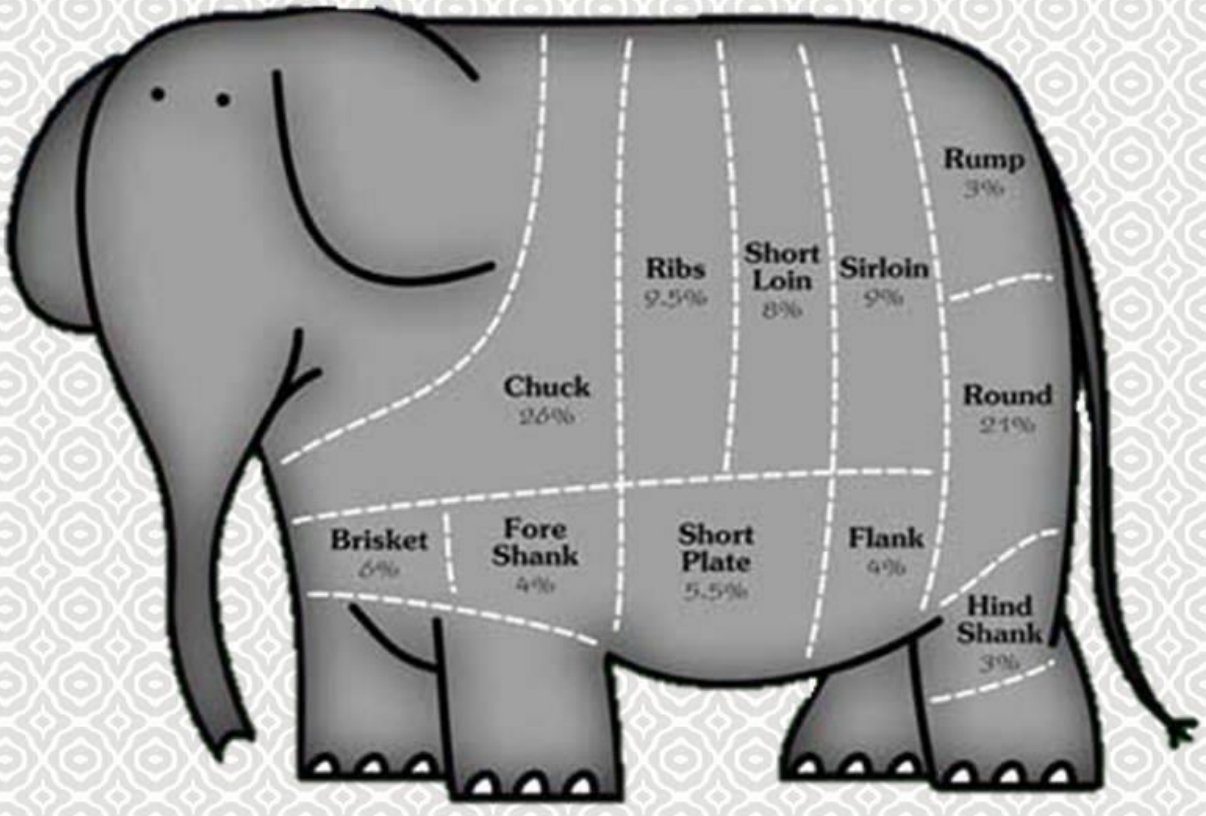
Large Manual Regression Test Suite

Truely Risk Based?



Time for Spring Cleaning

SMOKE
TESTING IN
PROGRESS



one bite at a time...

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