

We are agile but...

Gitte Ottosen





GOTO Copenhagen 2017

Conference Oct. 1-3, 2017



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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

- ▶ 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
Working software
Customer collaboration
Responding to change

over
over
over
over

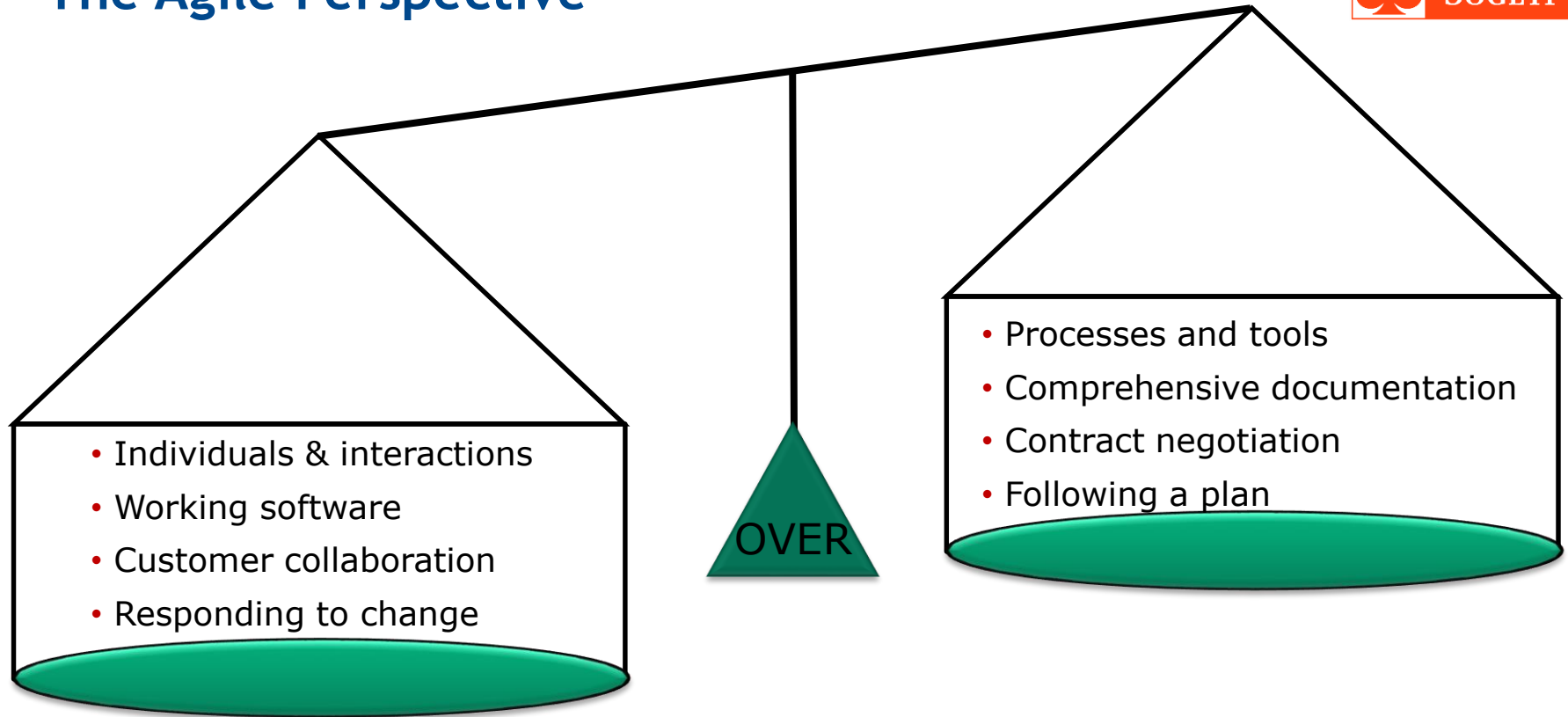
~~**processes and tools**
comprehensive doc.
contract negotiation
following a plan~~

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

Reference

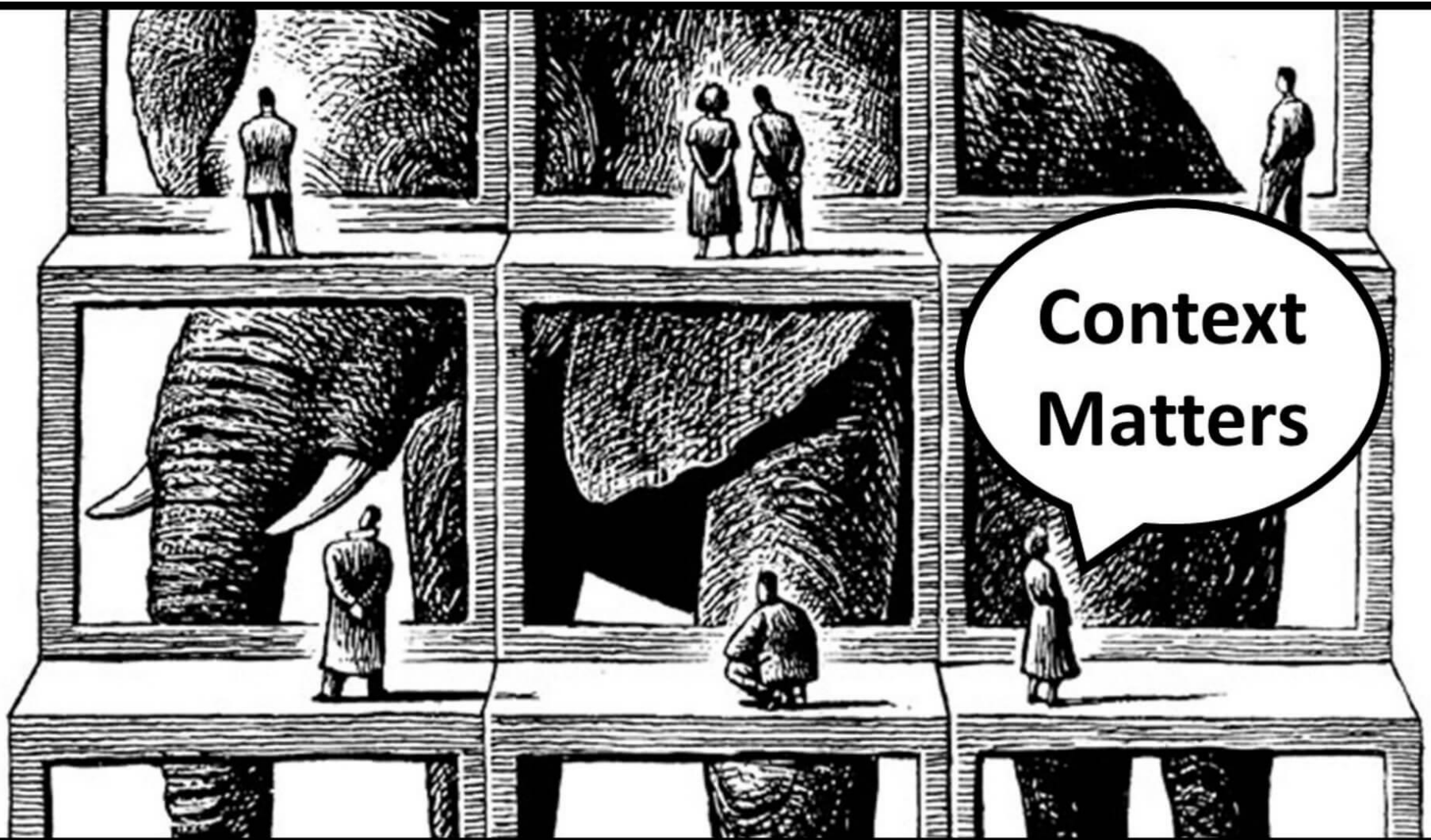
Kent Beck, Mike Beedle, Arie van Bennekum, Alistair Cockburn
Ward Cunningham, Martin Fowler, James Grenning, Jim Highsmith
Andrew Hunt, Ron Jeffries, Jon Kern, Brian Marick, Robert C. Martin
Steve Mellor, Ken Schwaber, Jeff Sutherland, Dave Thomas

The Agile Perspective



**You don't become
agile in a blink of
an eye**



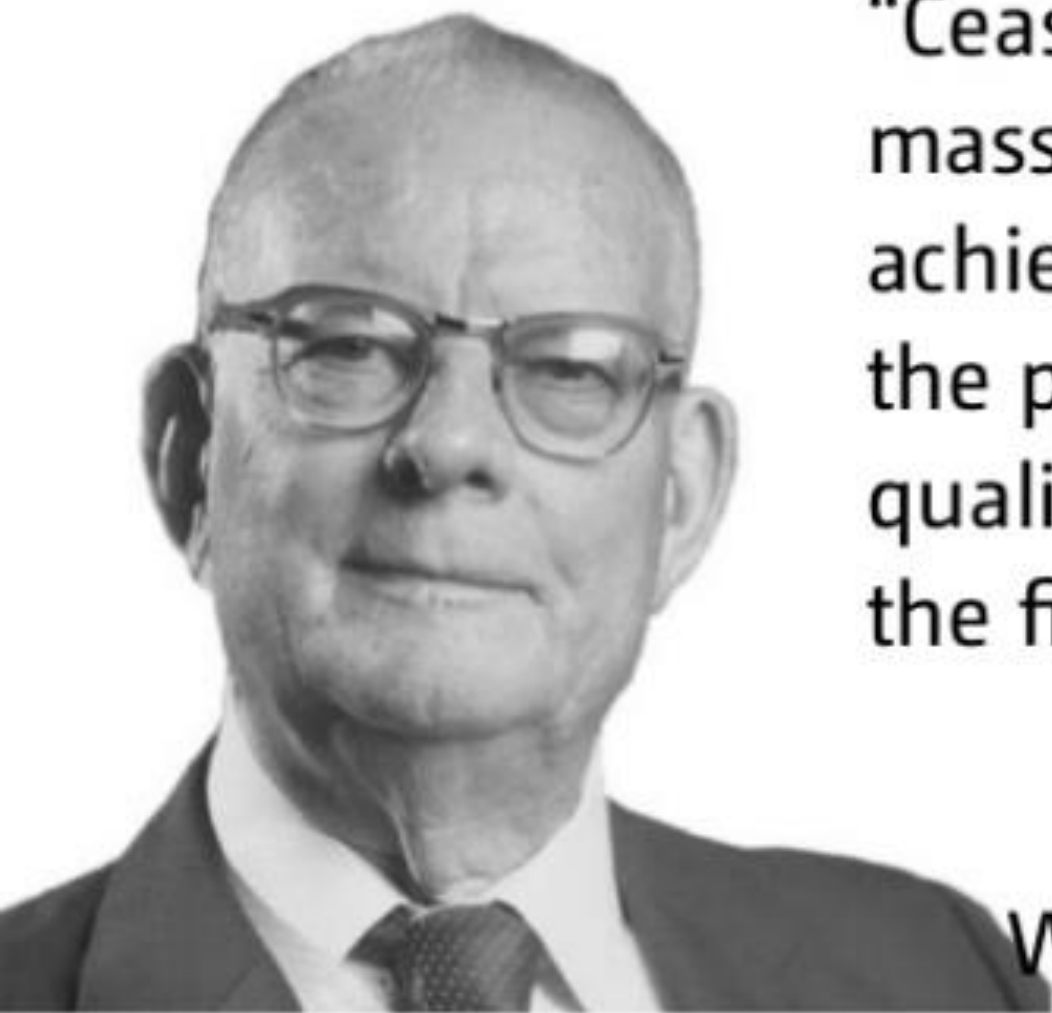


The background is a complex digital composition. It features a man in a light blue suit and tie, whose torso and arms are visible. Overlaid on this is a cityscape, including a prominent skyscraper on the right. In the lower center, a hand is shown holding a transparent globe. The globe contains a detailed image of a city with a river and a bridge. A large, solid red diagonal shape cuts across the left side of the image, starting from the top-left corner and extending towards the bottom-right.

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.



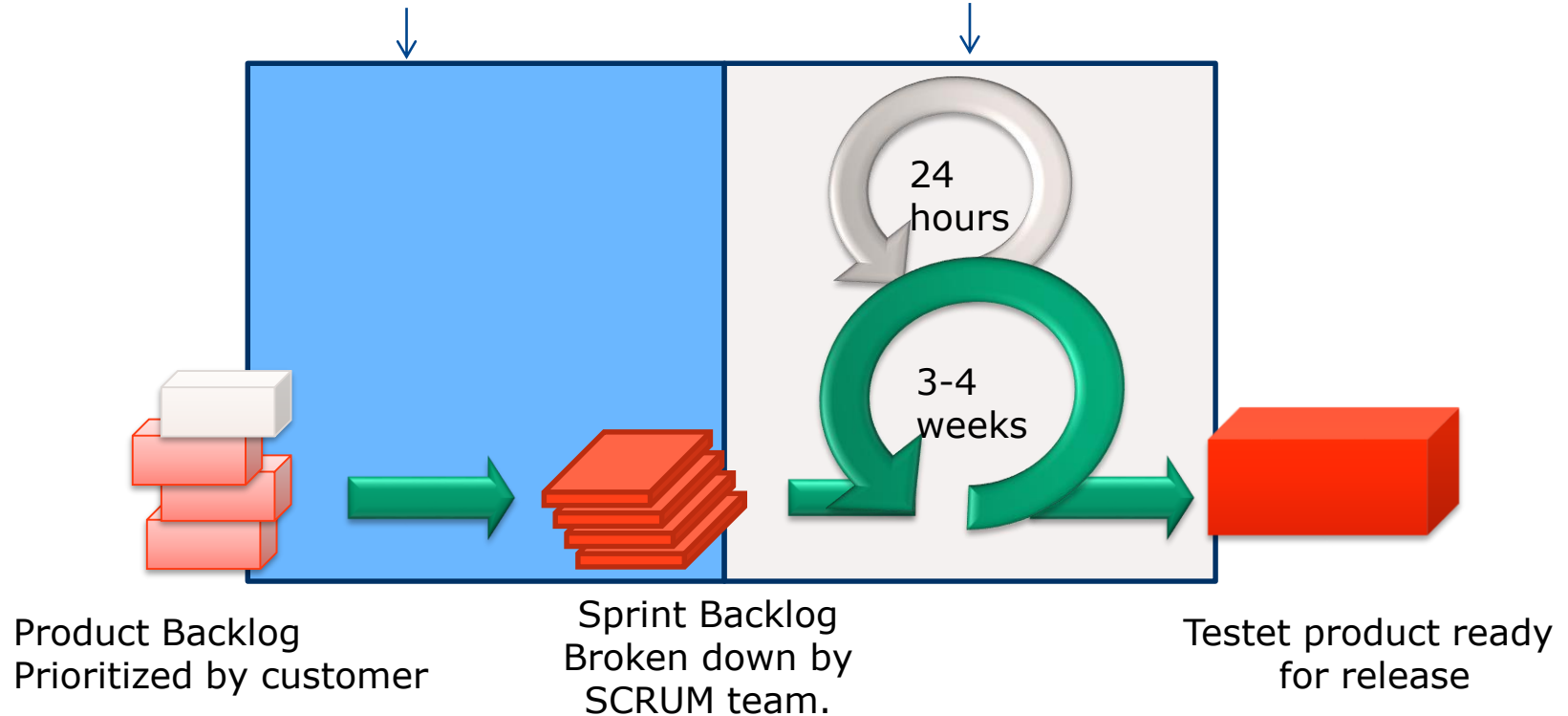
“Cease dependence on mass inspection to achieve quality. Improve the process and build quality into the product in the first place”

W. Edwards Deming



Or maybe even here?

Testing needs to be here?



Are you ready?



User stories and acceptance criteria

Ask what – not how

Specific
Measurable
Agreed
Relevant
Testable



Given...
When...
Then...

X

X-driven Development

Write a failing
feature test

BDD

Write a
failing
test

Make
the test
pass

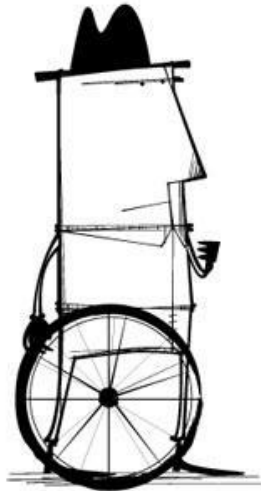
TDD

Refactor

N cycles

Technical Debt

ERRR...



**CAN'T STOP.
TOO BUSY!!**



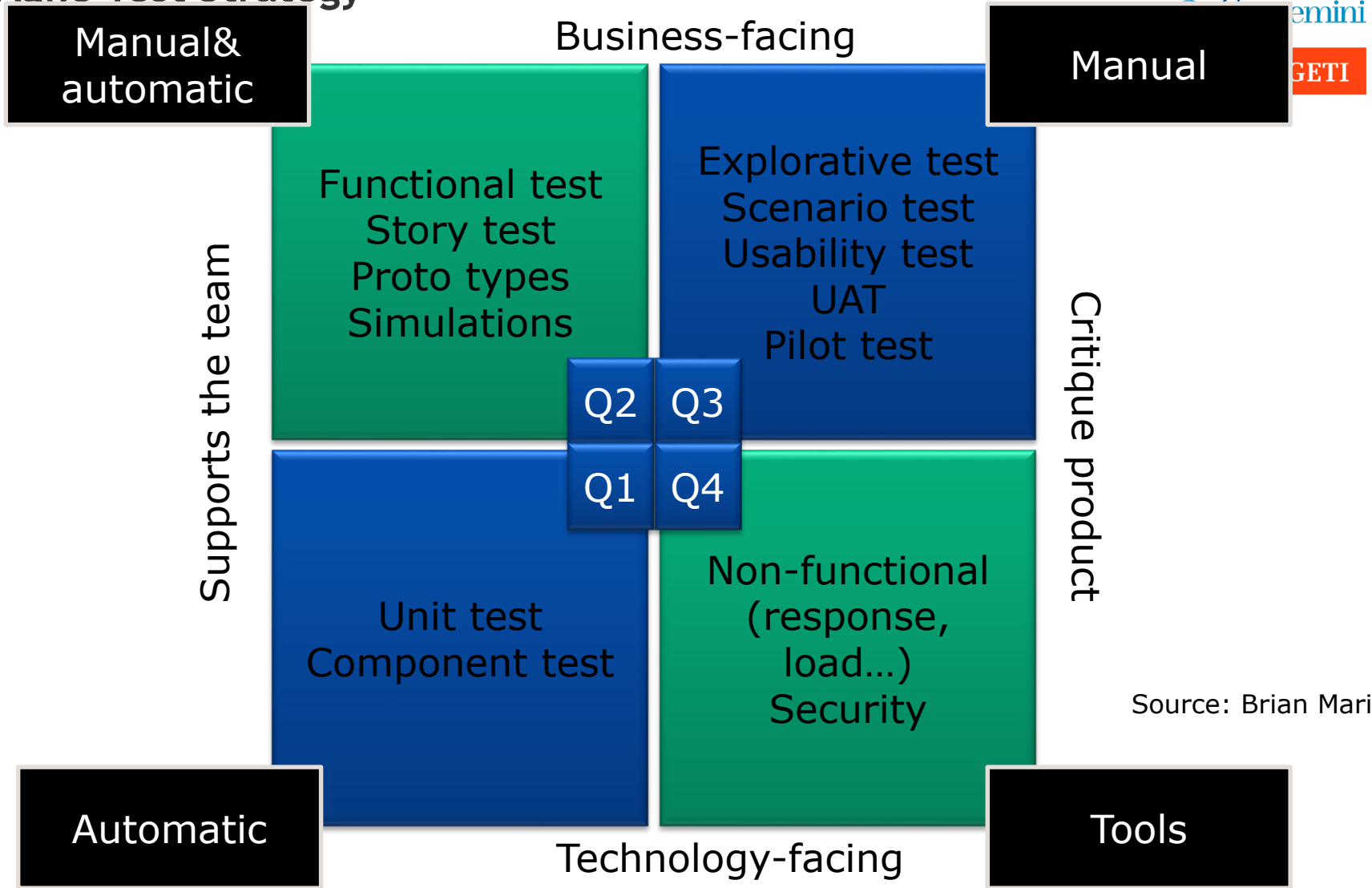
A photograph of a man with a beard, wearing a plaid shirt, looking down. The background is a blurred city street with buildings and a blue sky. A large red diagonal shape covers the left side of the image. A dark grey horizontal bar is positioned across the middle of the image, containing the text.

Testing is someone else's problem

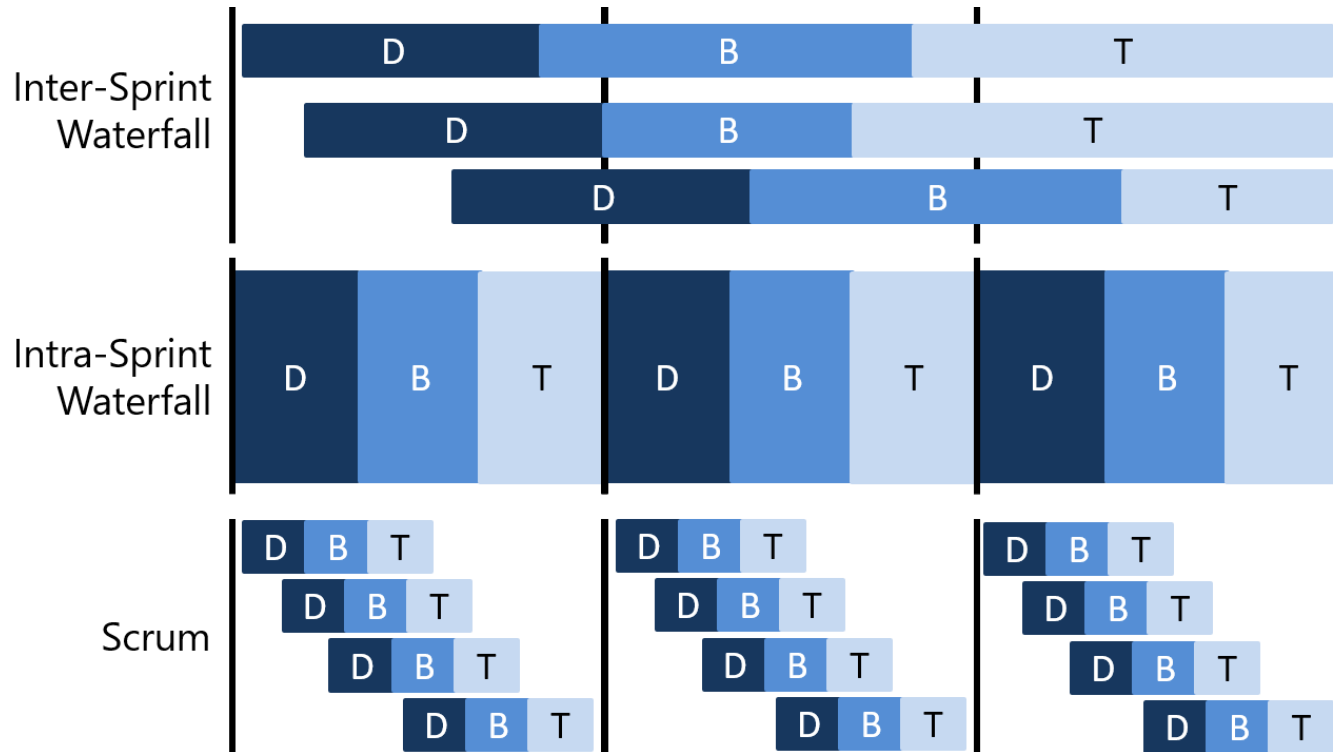
Get a TESTER integrated in the team

Get TESTING integrated in the team

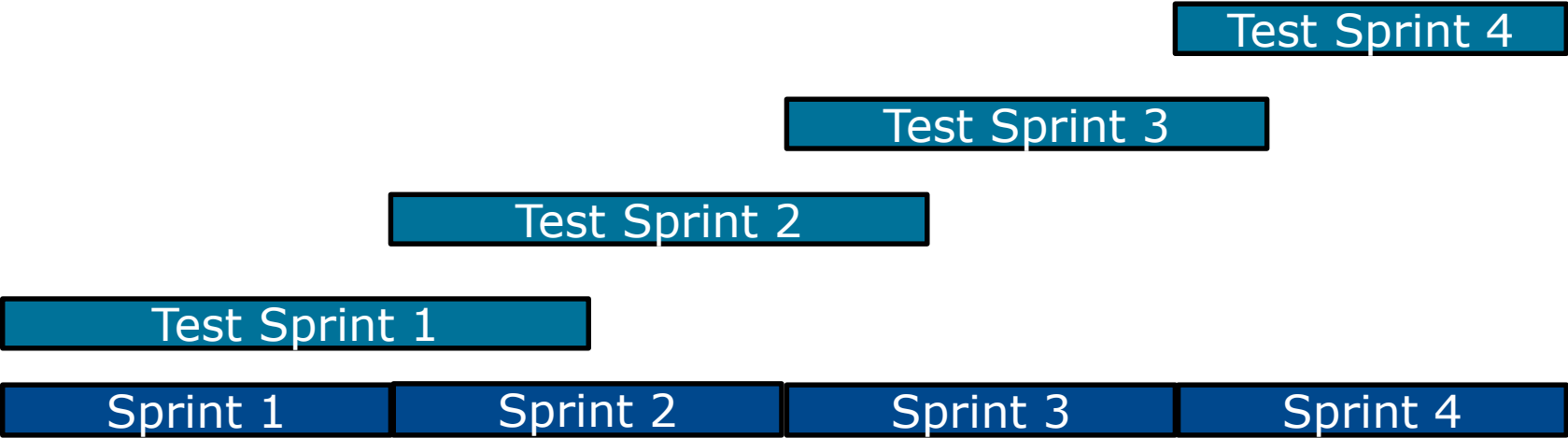
The Agile Test Strategy



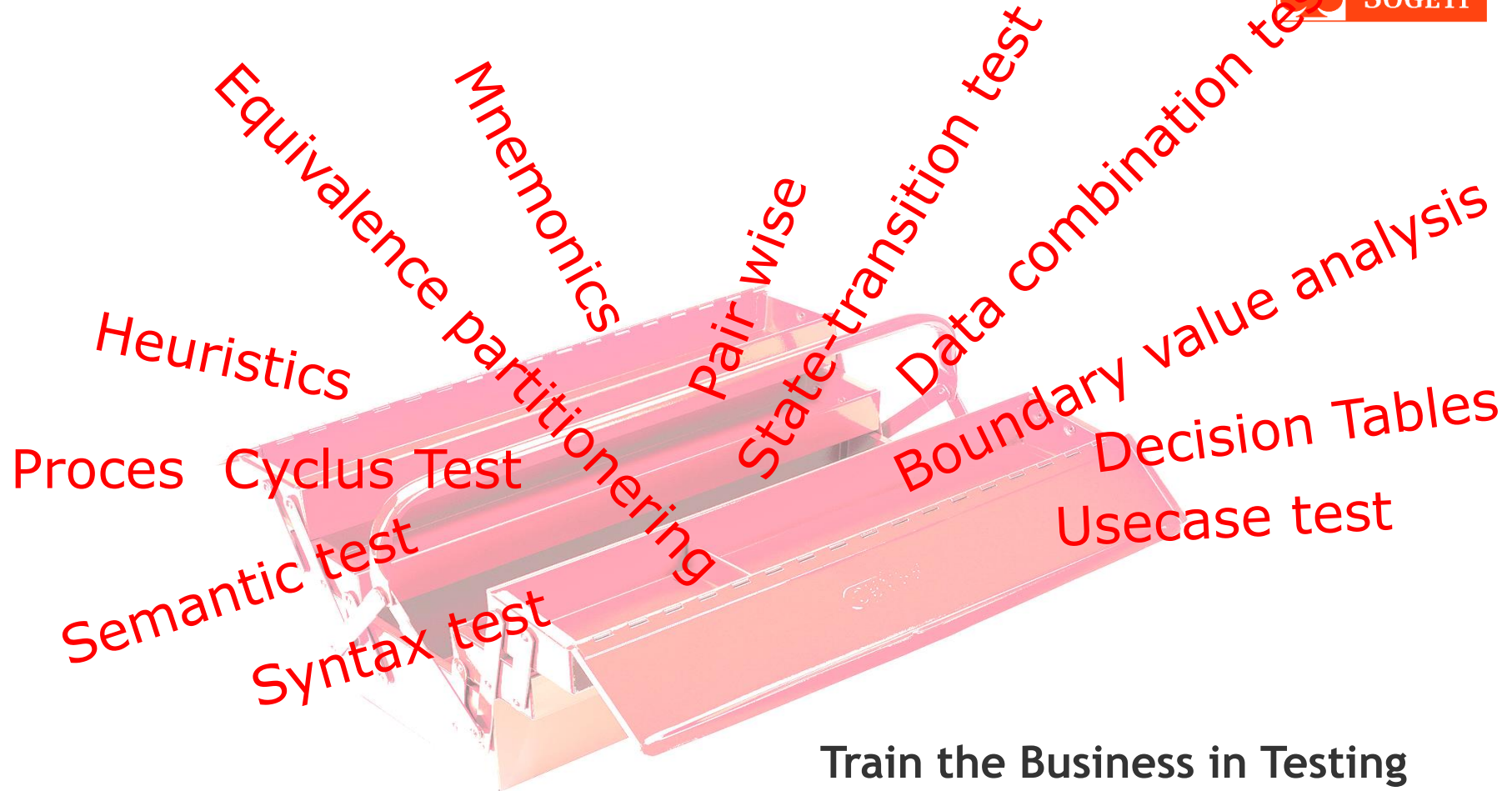
But when do we test?



Changing the way we test



Train the Team in Testing



Train the Business in Testing

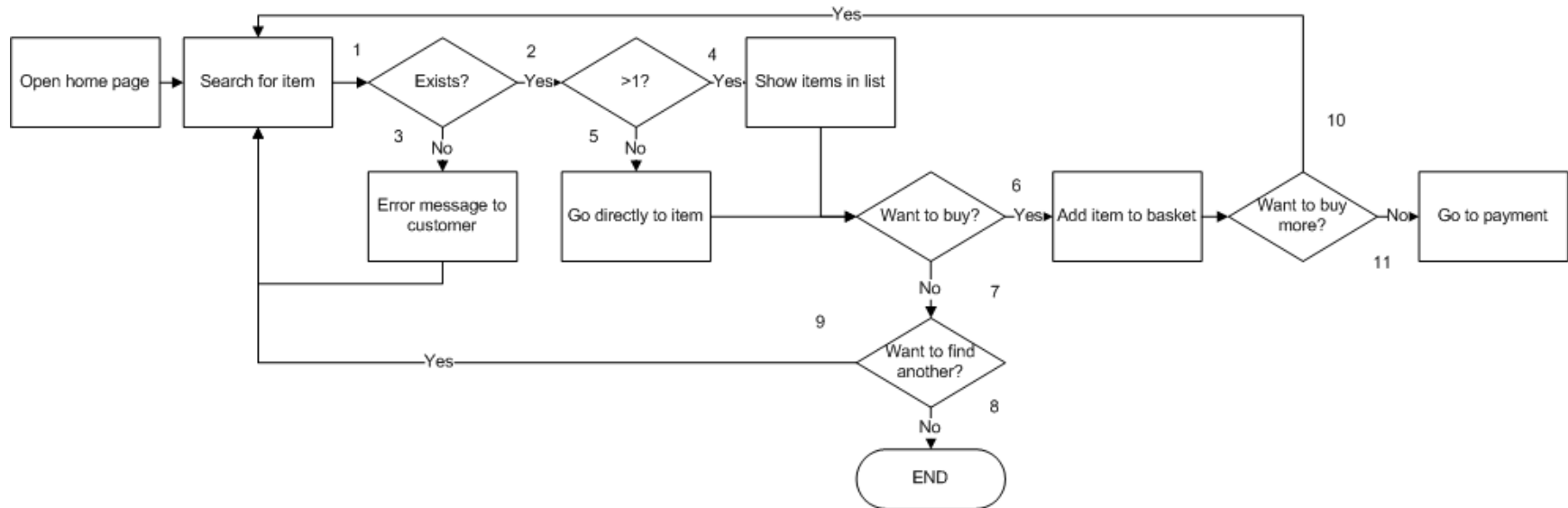
The image is a complex digital composition. It features a businessman in a light blue shirt and grey suit jacket, whose torso and hand are visible. His hand is positioned as if holding a transparent, rectangular prism. Inside this prism, a detailed cityscape is visible, including a prominent skyscraper on the right and a railway track with multiple tracks running diagonally across the lower portion. The background behind the businessman is a hazy city skyline. A large, solid red diagonal shape cuts across the left side of the image. Overlaid on this red shape is a black rectangular box containing the text "Business not available" in white, sans-serif font.

Business not available

Building Bridge Between Business and IT



Understand your business



Classification Trees

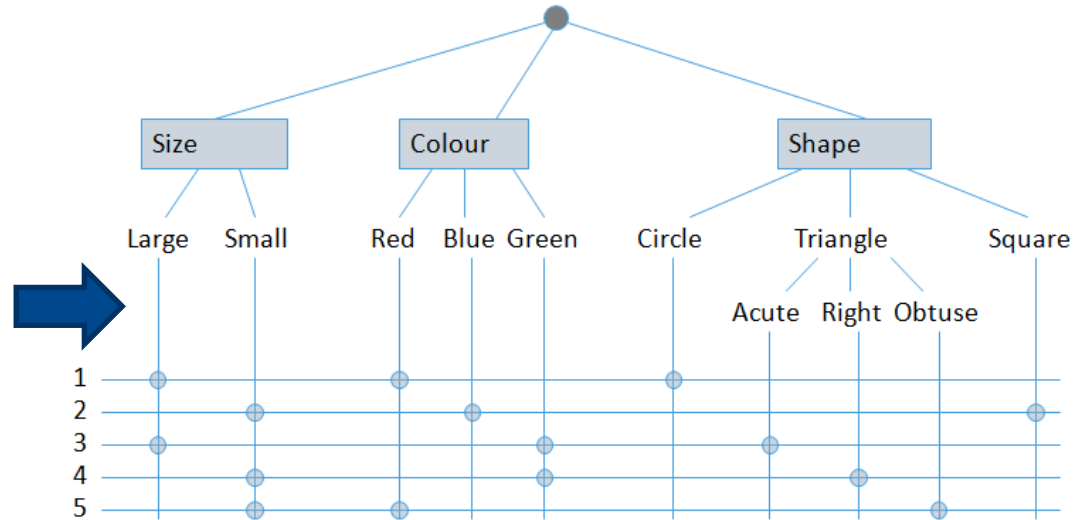
Field1 

Field 2 

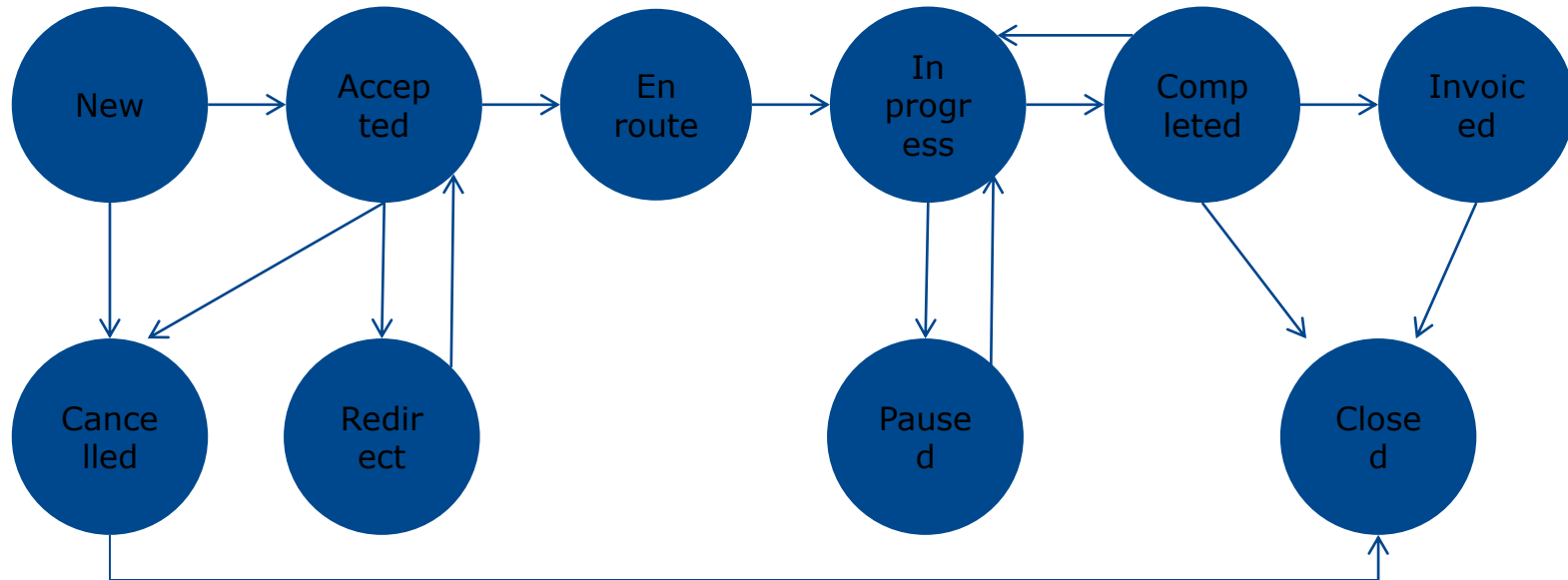
Field 3 

Field 4 

Field5 



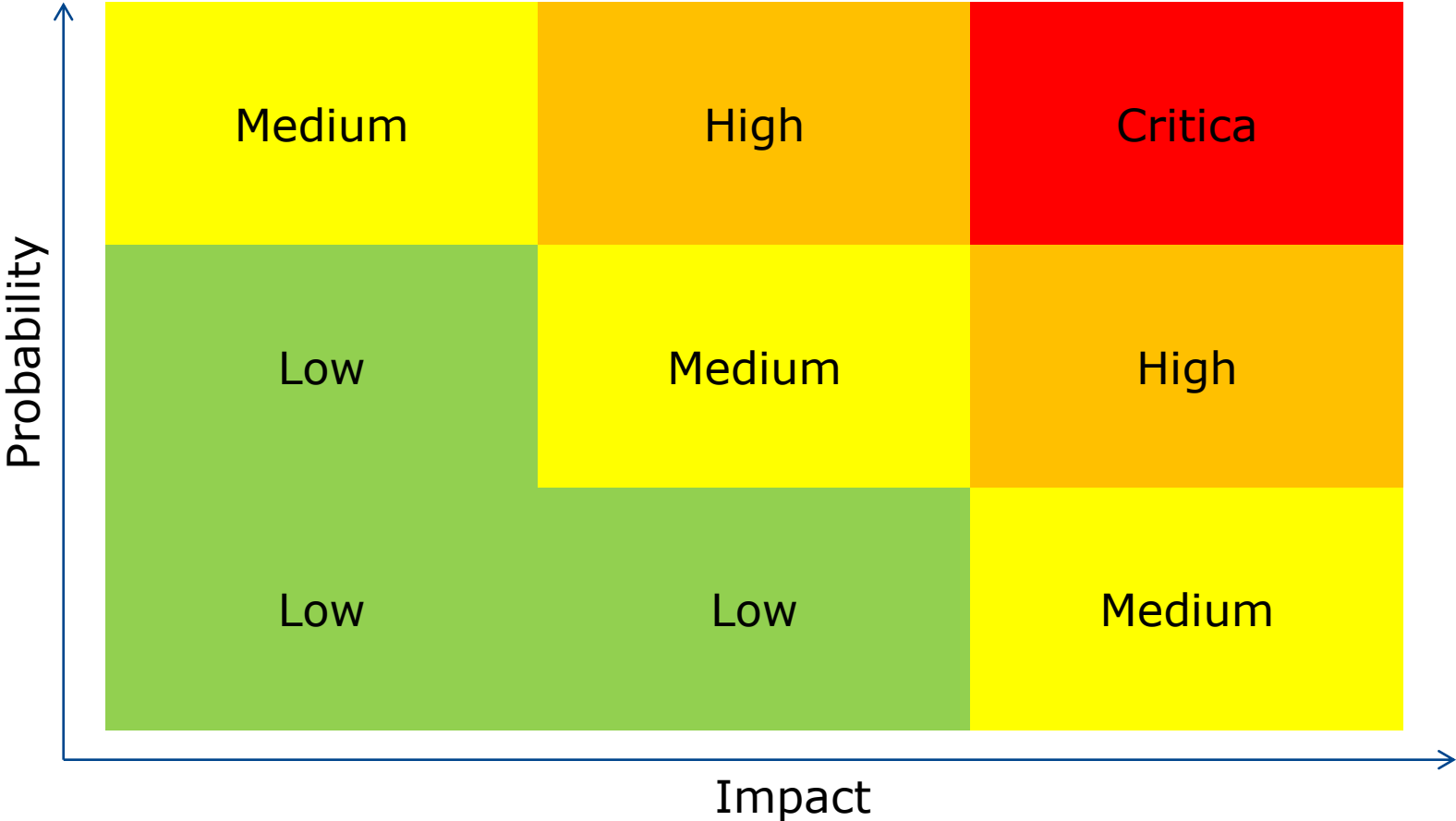
State Transition Test



The background is a complex composite image. It features a man in a light blue suit and tie, a dense city skyline with a prominent skyscraper, and a hand holding a globe. A large red diagonal shape cuts across the left side of the image. A dark grey horizontal bar is positioned across the middle, containing the text.

Large Manual Regression Test Suite

Truely Risk Based?



Time for Spring Cleaning

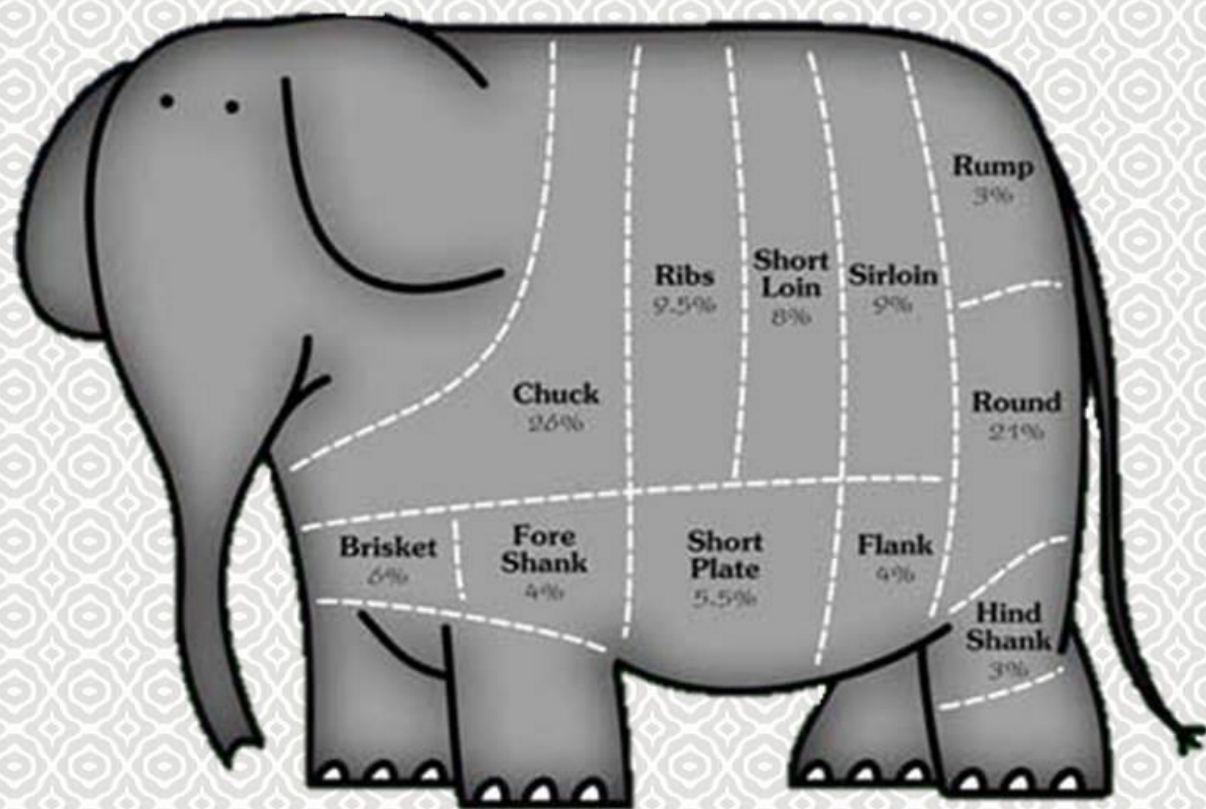




SMOKE
TESTING IN
PROGRESS







one bite at a time...



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