OVALITY EXERTERING

A NEW HOPE FOR QUALITY SOFTWARE

Geoffrey van der Tas



ShOwMOre

A long time ago in a galaxy far, far away....











Definition of Testing

Old

"Independent judgement about the quality of the testobject"

New

"Getting fast & reliable feedback on your product"



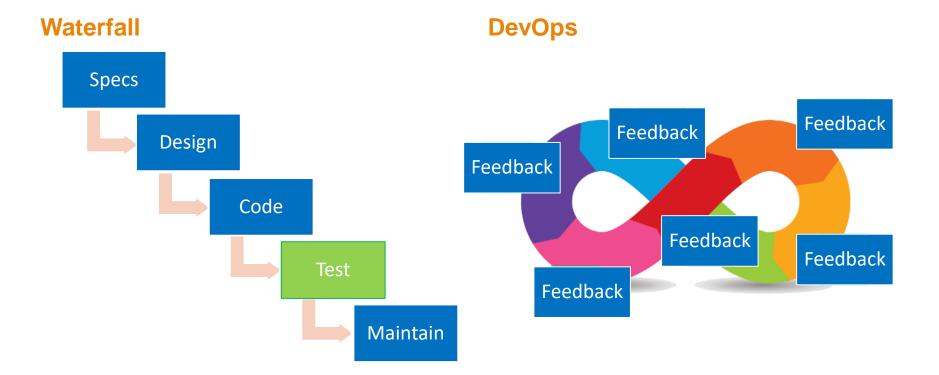


No more Quality Assurance

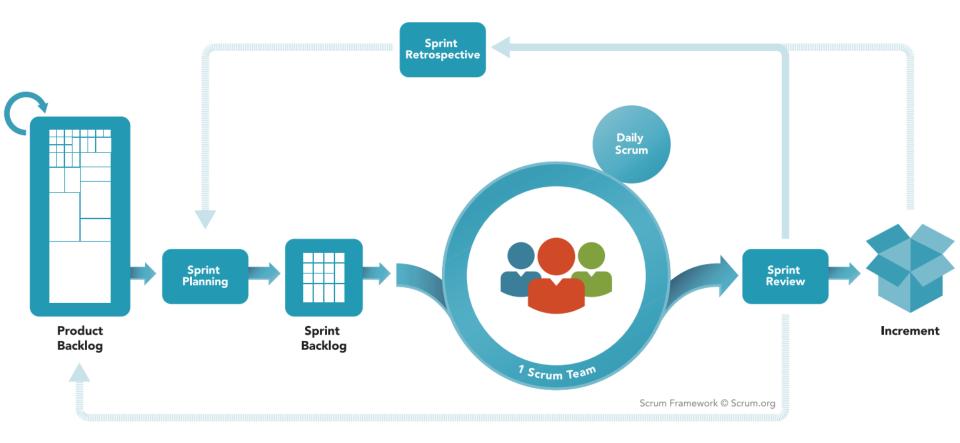








ORDINA





From Assurance towards Engineering

"Quality Engineering is the management, development, operation and maintenance of IT systems and enterprise architectures with a high quality standard." - New Perspectives on Software Quality by Ruth Breu; Annie Kuntzmann-Combelles; Michael Felderer (January–February 2014).







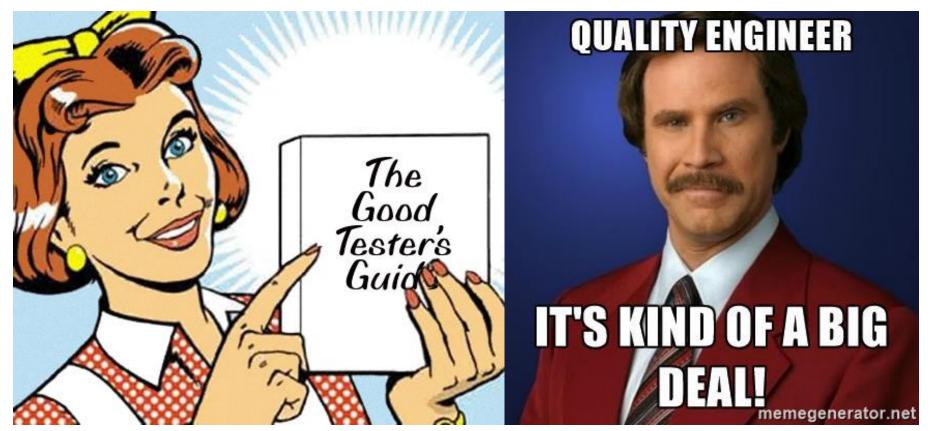
Move to Quality Assistance or Engineering

The 4 Pillars to better quality

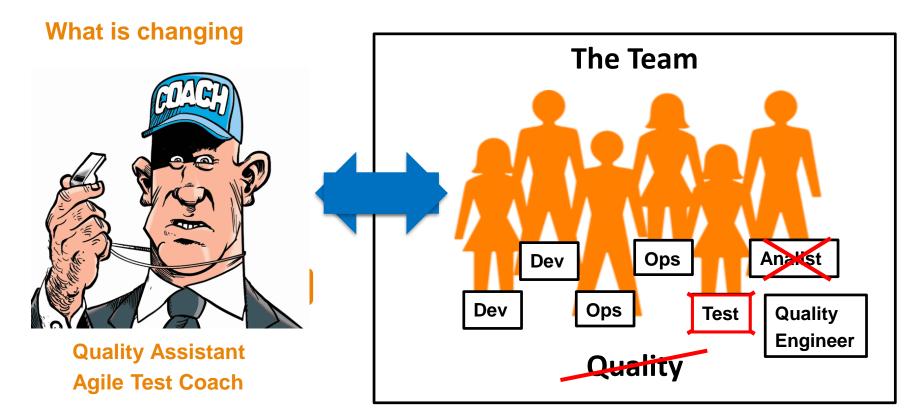
- **People**: The New Tester & Quality Teams
- **Process**: Built-In Quality
- Automation: Our future
- Mindset: Explore & Experience













At other companies

Quality Engineering at Spotify

"The Quality Engineer will help developers and teams cultivate a quality mindset, advocating for quality while assisting engineers with software development and test automation best practices."

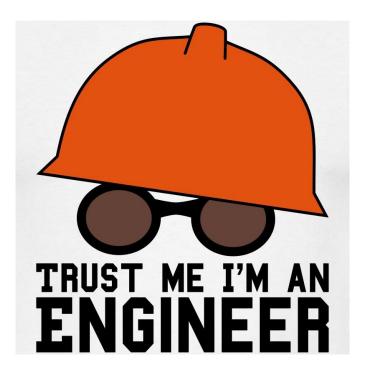
Quality Assistance at Atlassian

"They optimised the process by empowering and educating developers to test their own features to production quality standards."



Quality Engineer

- Advocate for quality
- Actively coach developers/business
- Make testing part of Development Process
- Coordinate testing efforts
- Maintain test reporting and visualization
- Spot opportunities for (Test) Automation



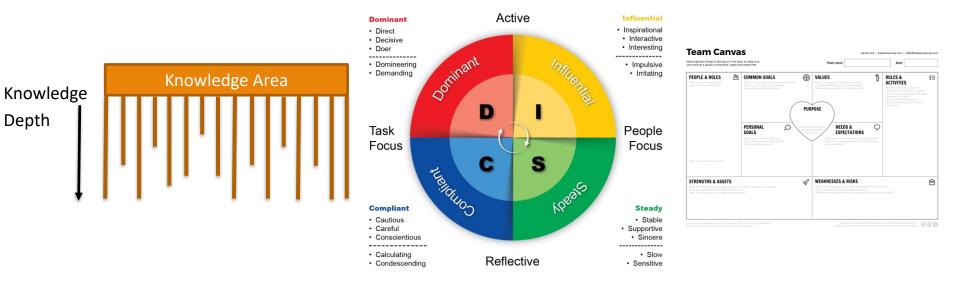


One Quality Engineer doesn't make a Team





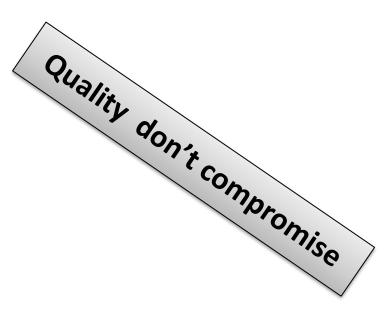
From a Quality Engineer to a Quality Team



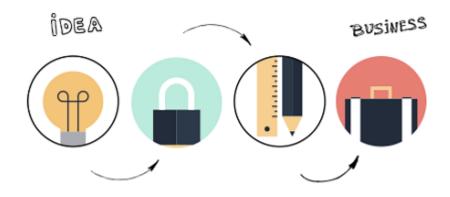


Key Principles for your team

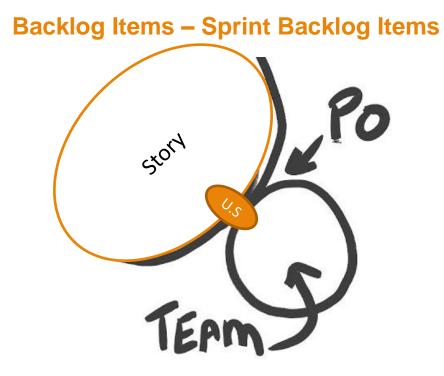
- Customer first
- □ Whole team is responsible for quality
- Tested = Checked + Explored
- Bugs are fixed when they are found
- 'Done' means fully tested
- Quality before new functionality
- Collaboration is key for quality

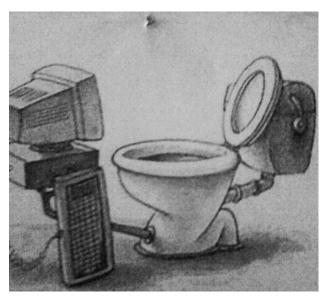












Crap in, Crap out



Tell the story

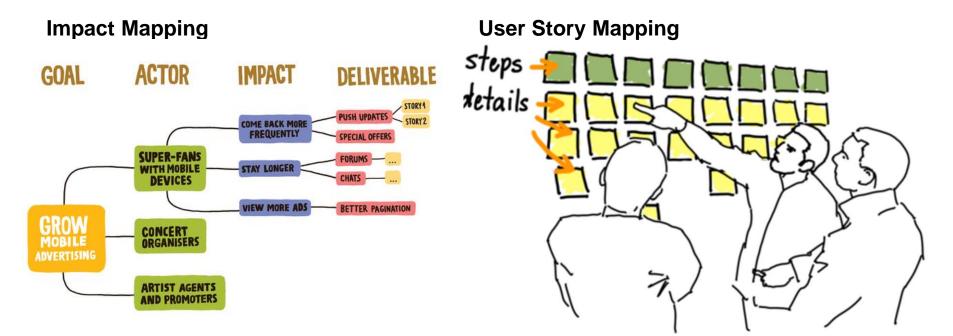




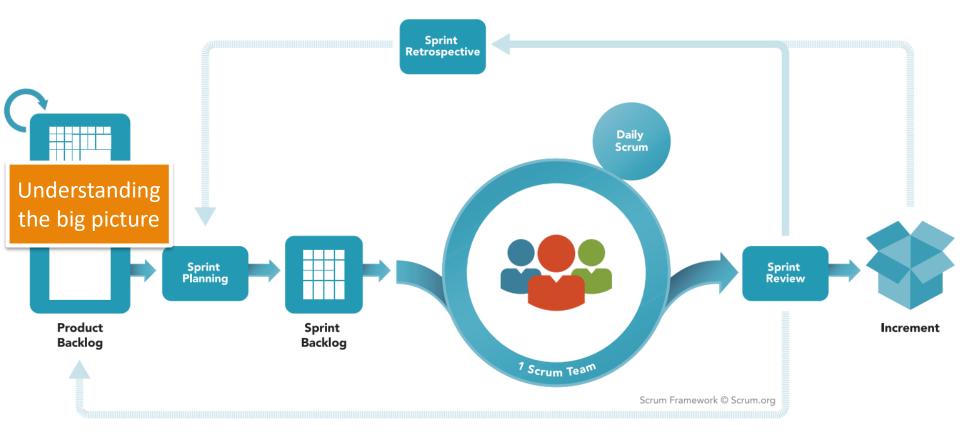




Techniques









Big Picture to User Stories

As a {who}, I want {what} Because {why}

Specifications: Spec one Spec two ... Acceptance Criteria: Criteria one Criteria two Criteria three

.

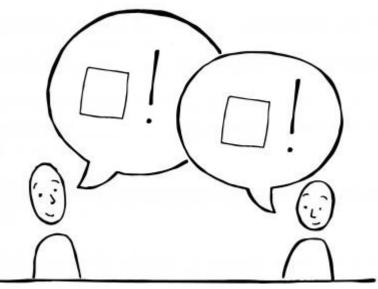






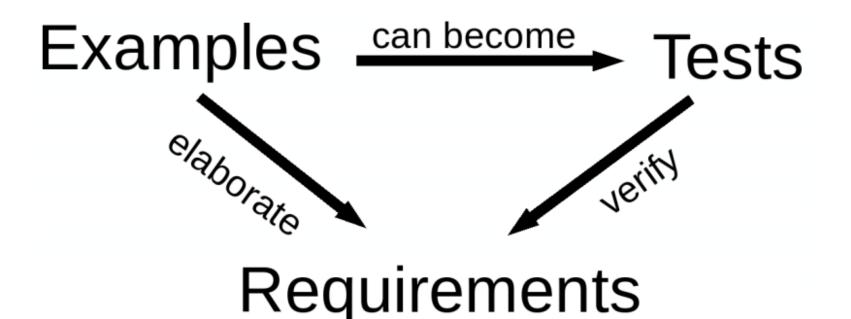
Shared understanding

• Shared vision, idea's and alignment on what was discussed;





Refinements by examples





Specification By Example

User story: As an employee I want to find other employees so I can find more information about employees.

Example	ATDD:
---------	-------

Search parameter	Result
Peter	Peter Janssen
Jan	Annie <u>Jan</u> sen <u>Jan</u> van Buren Peter <u>Jan</u> ssen
Jans	Annie <u>Jans</u> en Peter <u>Jans</u> sen
Bakkr	(geen)



Techniques



Rule





Risks

Risks lead to Strategy Strategy leads to Tests/Measures

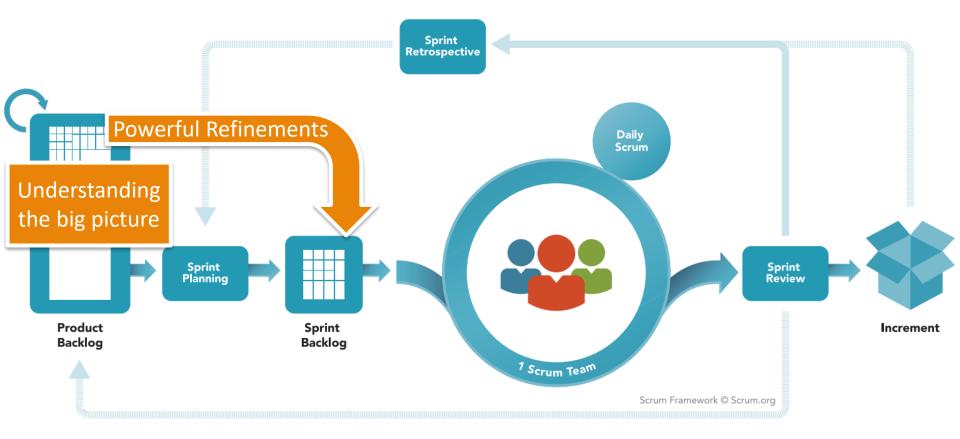
That leads to Quality

Hmmmm....

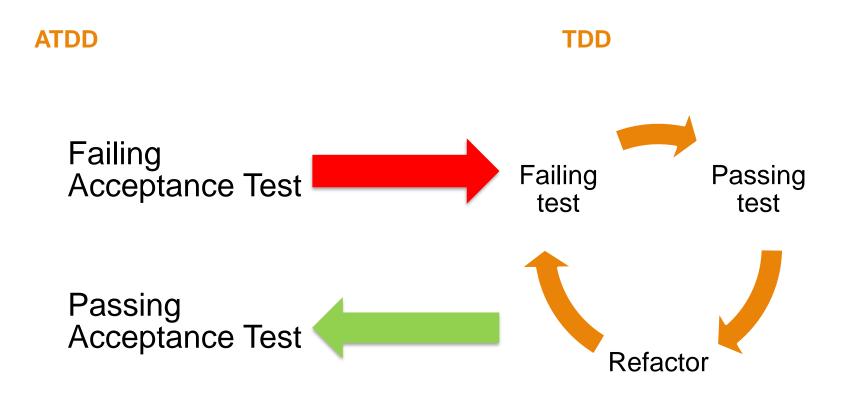




Quality Engineering in Scrum







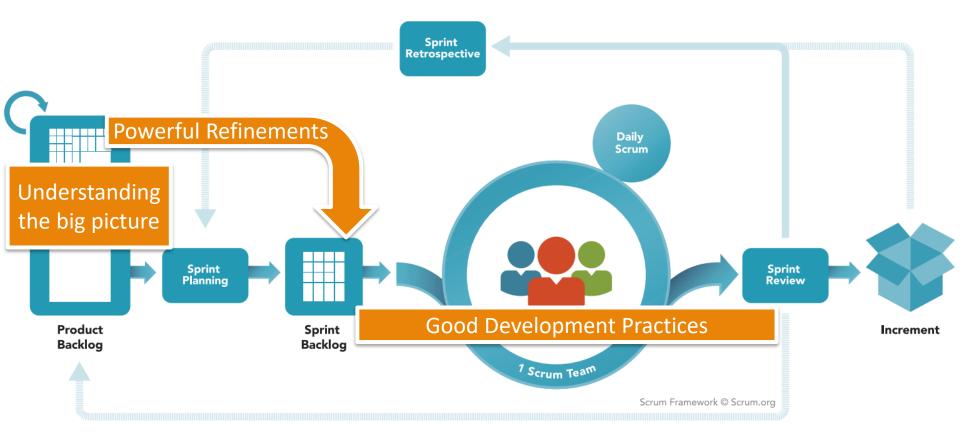


Quality First at ING

	Date/time	Result
Current features		
Advisor makes appointment	2017/10/05 12:13:54	
- Appointment mailed to customer	2017/10/05 12:14:06	
Summary of advice is mailed to customer	2017/10/05 12:14:46	
This sprint		
Make appointment with Specialist	2017/10/05 12:14:48	
Customer details are shared with Specialist	2017/10/05 12:14:49	



Quality Engineering in Scrum





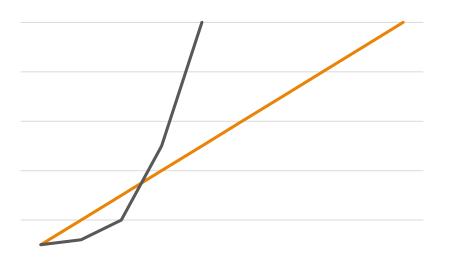




Why Automate

Automation vs Manual

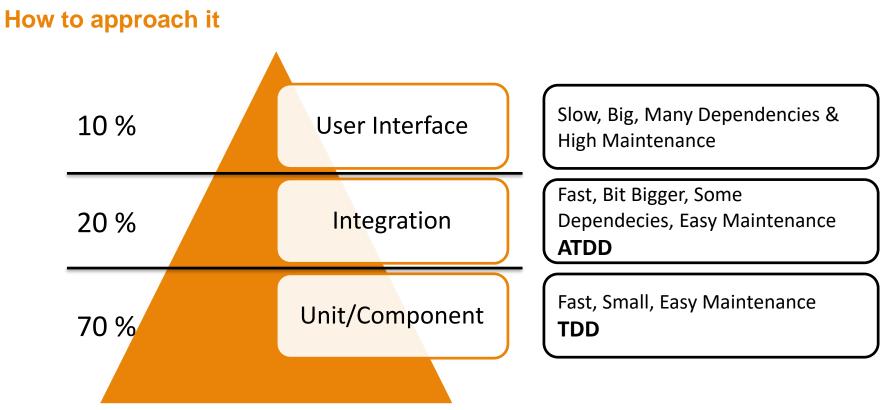
- Fast
- Reliable
- ✓ Repeatable
- ✓ Reuseable
- Control
- ✓ Money
- 🗸 Fun



----Manual -----Automation



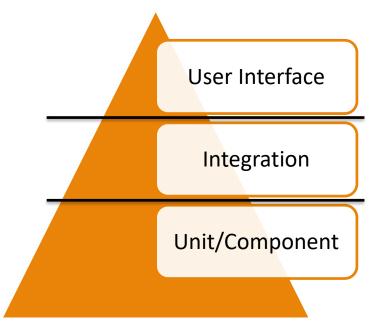






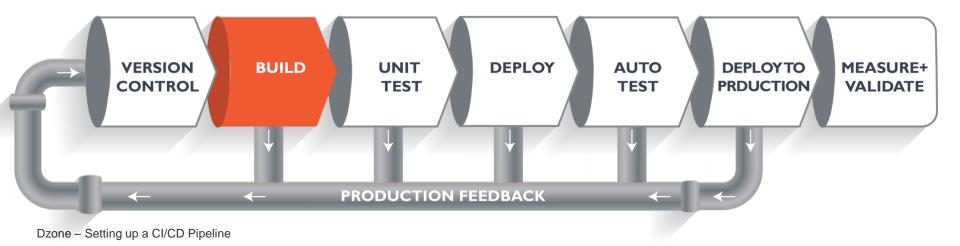
What to automate

Context is key
Self build vs bought software
Java, Javascript, C++, C#
Employee vs Client facing



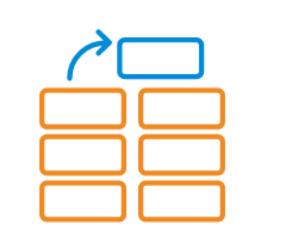


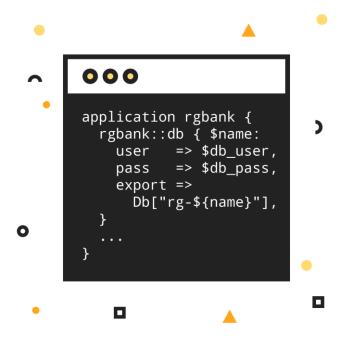
Quality goes further than Test Automation





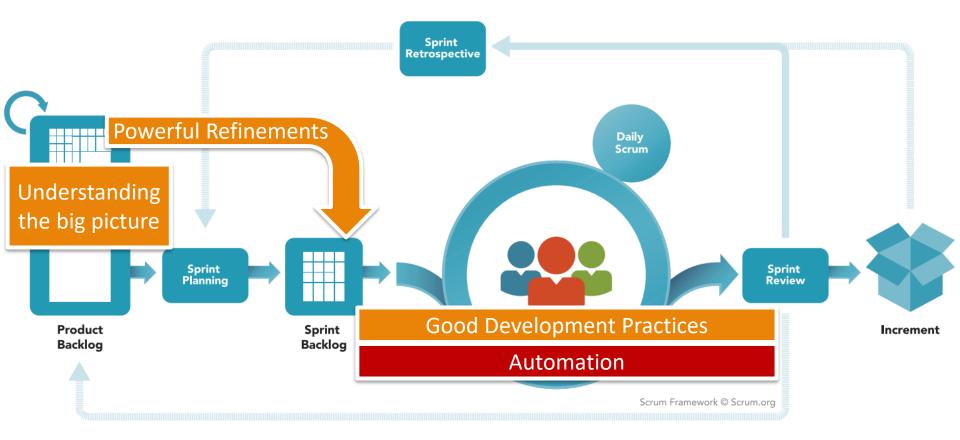
Even further







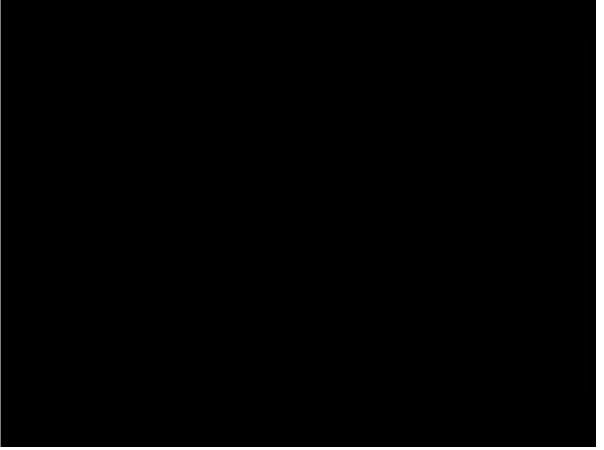
Quality Engineering in Scrum





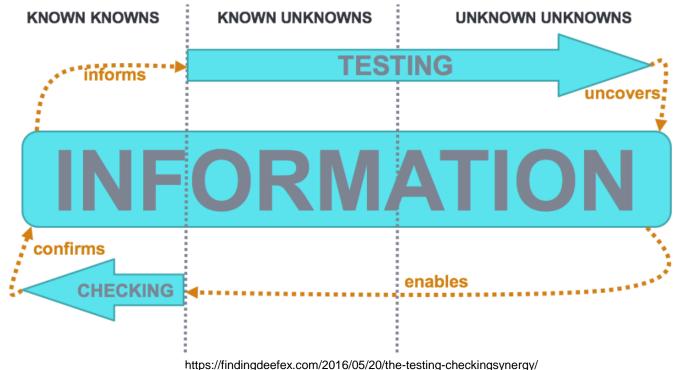








Testing helps Checks





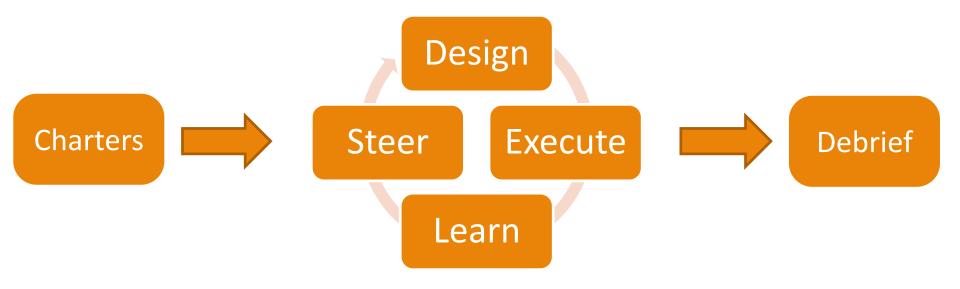
Exploratory Testing

"Exploratory Testing is a style of testing in which you explore the software while simultaneously designing and executing tests, using feedback from the last test to inform the next." – Elisabeth Hendrickson

- Timeboxed
- Charters
- Debrief
- In Pairs

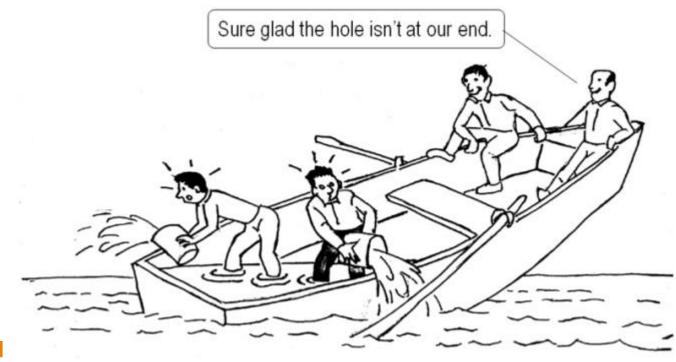


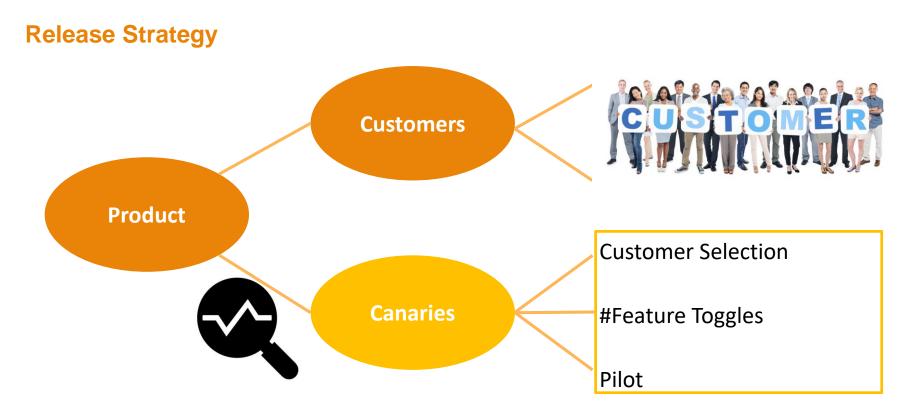
Exploratory Testing





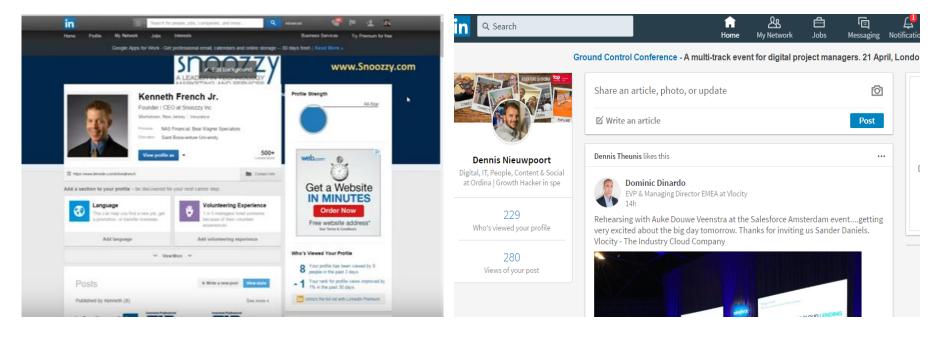
Testing Together will help with Team Responsibility for Quality





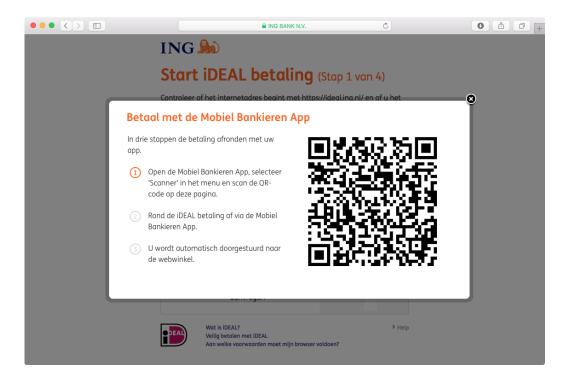


Examples



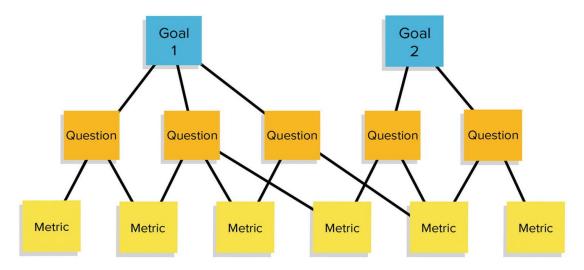


Examples





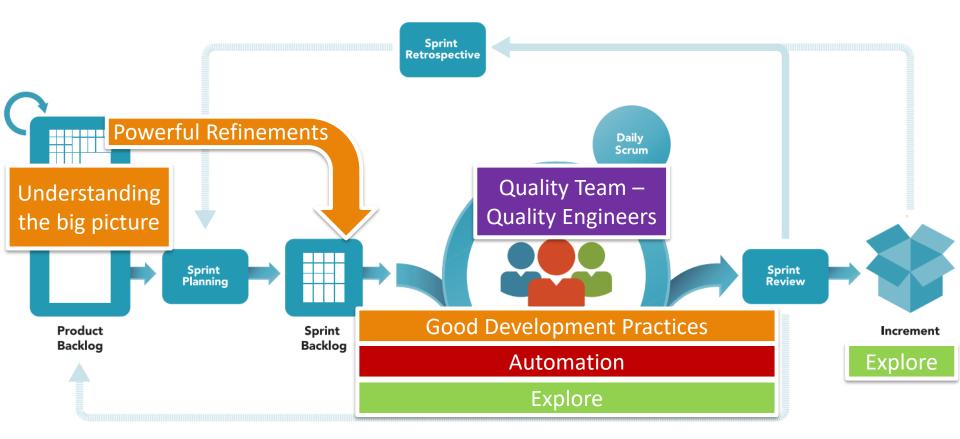
Testing in production – It is all about Metrics



by Victor Basili of the University of Maryland



Quality Engineering





The last hope against a BAD QUALITY EMPIRE

People: Team-Assessment, Skills and Quality as a team responsiblity

Process: Vision, Roadmap, Refinements with Examples, Risks & Quality/Test Strategy

Automation: Faster you move forward, faster you get feedback and can role back

Explore & Experience: Talk to customers, Use & Experience your product









Geoffrey van der Tas Lets be Quality Rebels and stand for Quality Software!



E-mail: Geoffrey.van.der.Tas@Ordina.nlTwitter: @GavdtasLinkedIn: https://nl.linkedin.com/in/geoffreyvdtas