

# **Agila Testare**

## **Vi delar med oss från Agile Testing Days 2019**

**Sofia Jacobsson, Johan Bark & Camilla Gadd**



# Agile Testing Days



#agiletd

<https://agiletestingdays.com/>

# Agenda

- Test Management in Agile
- DevOps setup and problem solving
- Agila Team - General
- Exploratory Testing
- Wizards, witches and testing

# Test Management in agile

**Derk-Jan de Grood & Jan Jaap Cannegieter**

Test management - still needed

- Mission Statement
- Global testplan / Roadmap
  - ISO - coverage
- Sprint Testplan
- SAFe
- Reporting
- C.Q.O - Chief Quality Office

# Test Management in agile

Derk-Jan de Grood & Jan Jaap Cannegieter

## AGILE TEST MANAGEMENT AIMS TO

- Contribute to a quality solution
- Ensure that the right tests are done (at the right time, by the right team)
- Assure that the testing is of sufficient quality (coaching and auditing)
- Provide intelligence on progress and quality



# Test Management in agile

## Derk-Jan de Grood & Jan Jaap Cannegieter

### THE TEST STRATEGY AIMS FOR THE FOLLOWING

#### Contributing to the result

- During the sprints we will test as much as possible will (based on the code and prototype delivered) Feedback and findings will be fed directly back to development so that they can be remedied
- The test scenarios and the areas that will be tested are shared with development to provide an early insight into the acceptance criteria for development

#### Ensuring that the right tests are done

- The approach gives insight into the plots that should be tested in order to be able to prepare a complete release recommendation.
- The approach makes it possible to make agreements on responsibilities, planning and reporting per parcel
- See slide plots

#### Intelligence on progress and quality

- Reporting is used within development for progress, planning and prioritization
- Reporting is used project meetings to provide an overview of progress, risks and quality.

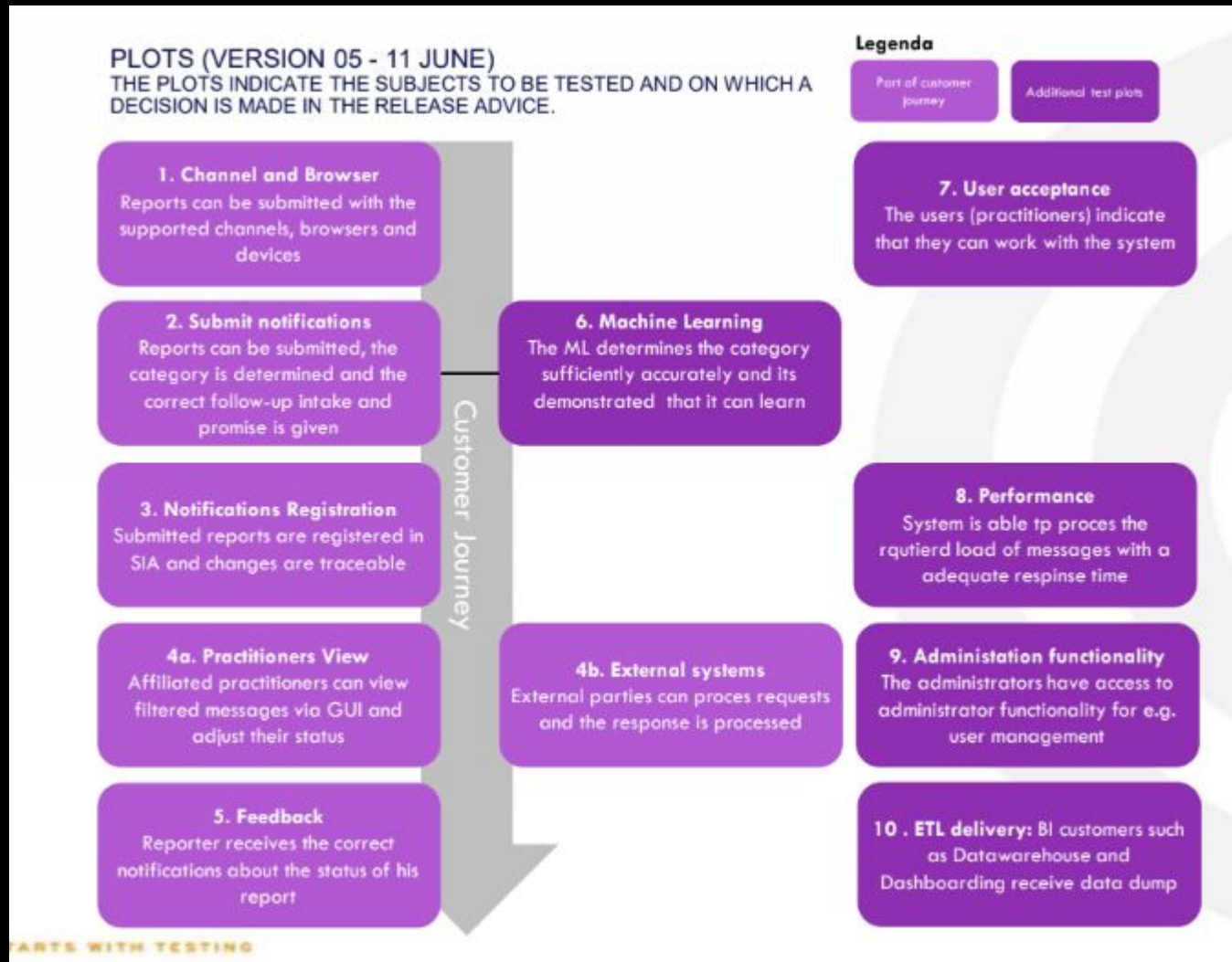
#### Ensure that the tests are of sufficient quality

- During the sprints an assessment will be made of the quality of the tests and the registration of the results (traceability)
- Team members will be coached on test practices



# Test Management in agile

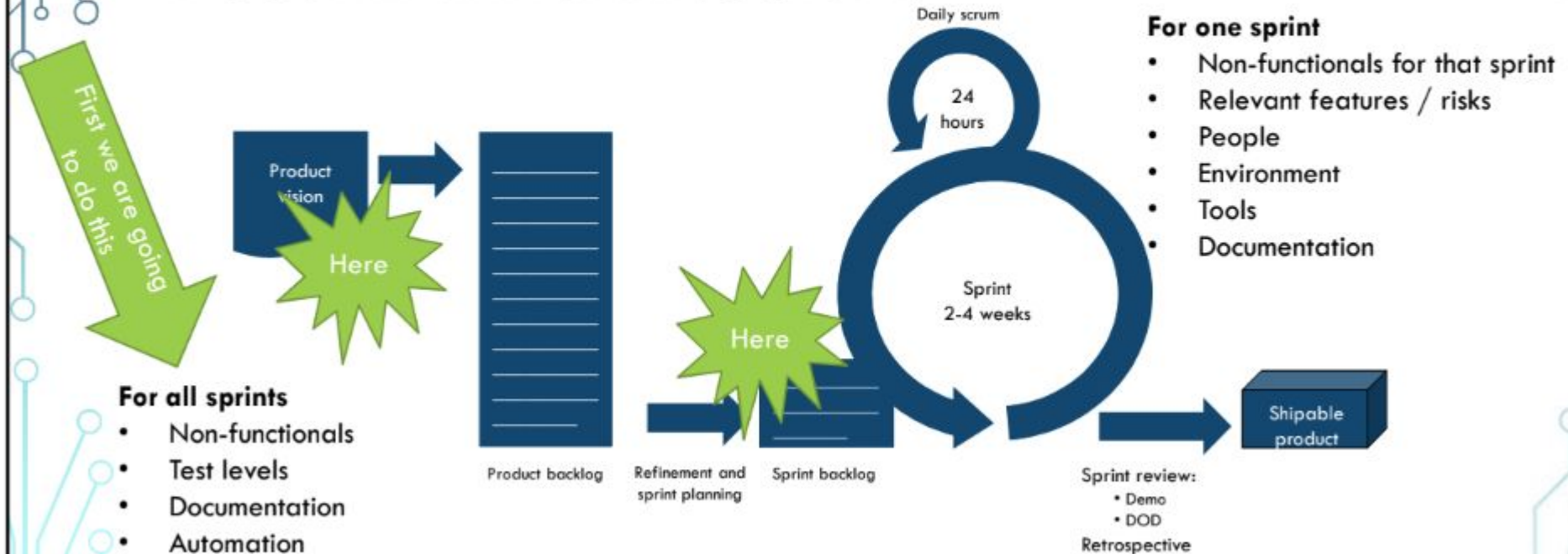
## Derk-Jan de Grood & Jan Jaap Cannegieter



# Test Management in agile

Derk-Jan de Grood & Jan Jaap Cannegieter

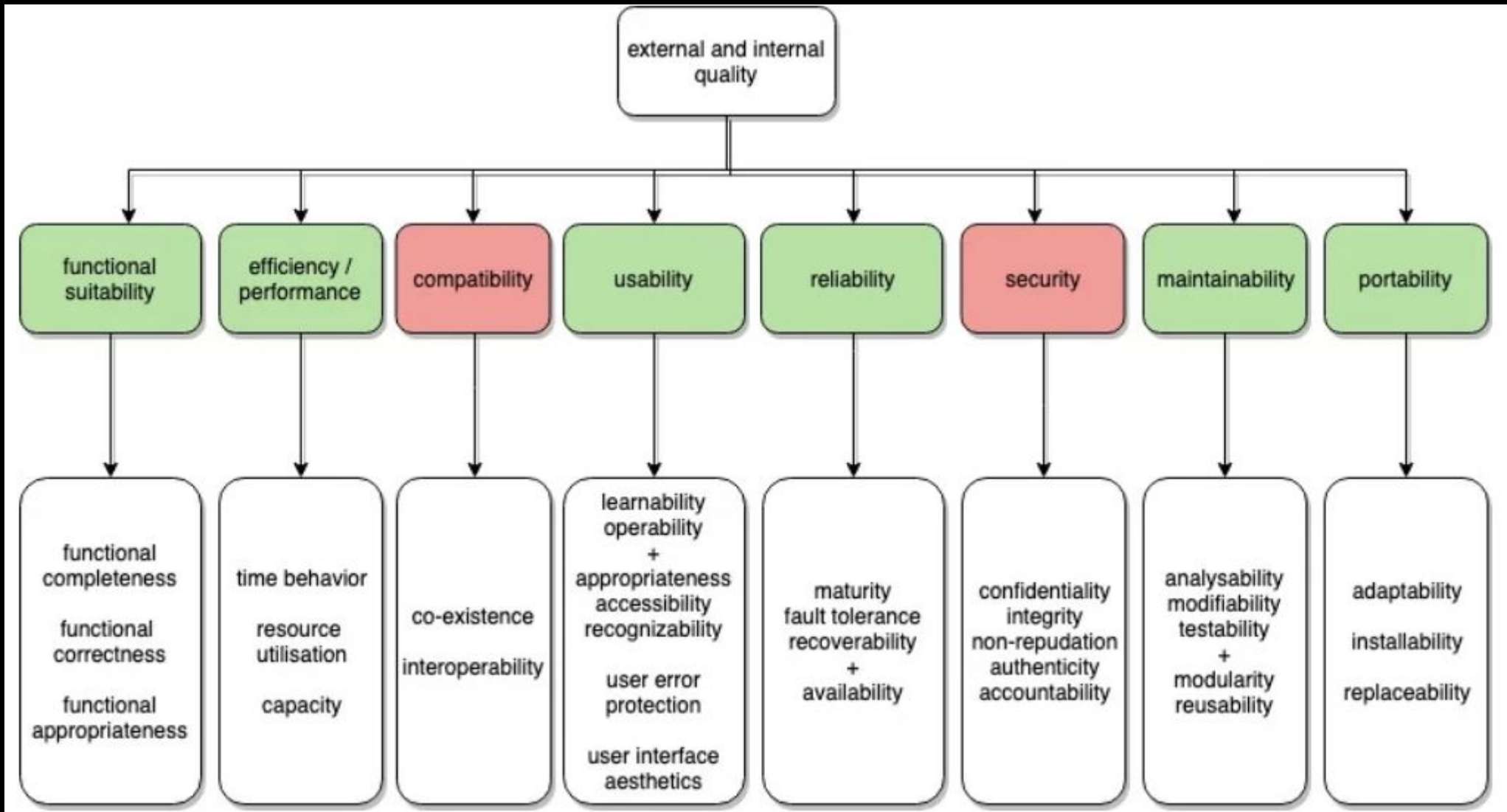
## WHERE CAN WE DO TEST PLANNING AND – DOCUMENTATION IN SCRUM?





# Test Management in agile

Derk-Jan de Grood & Jan Jaap Cannegieter



# Test Management in agile

## Derk-Jan de Grood & Jan Jaap Cannegieter

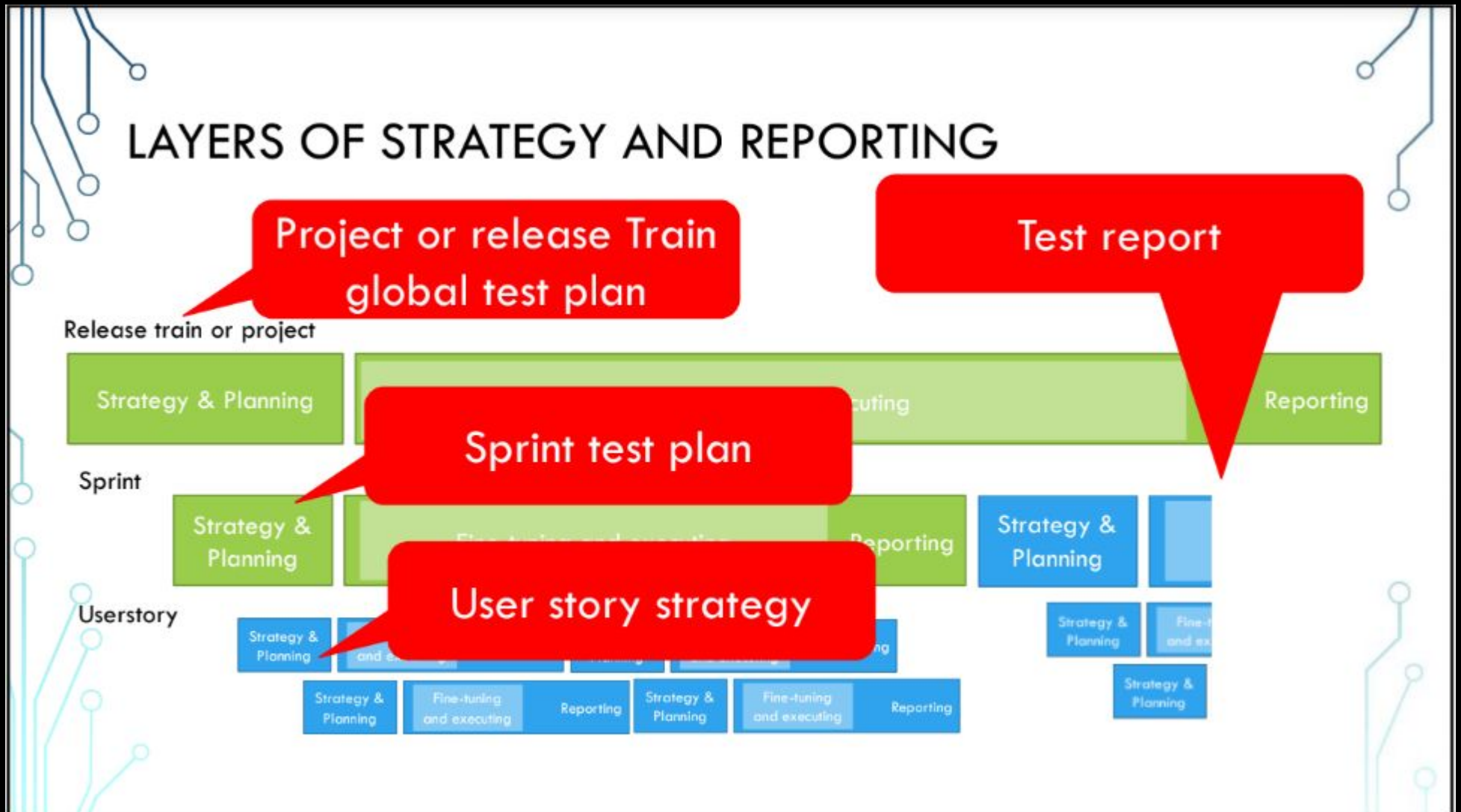
- One page test plan

- [https://www.ministryoftesting.com/dojo/lessons/the-one-page-test-plan?s\\_id=114389](https://www.ministryoftesting.com/dojo/lessons/the-one-page-test-plan?s_id=114389)

PROJECT TEST PLAN		AUTHOR: A TESTER	
INTRODUCTION	IN SCOPE	OUT OF SCOPE	
RISKS	RESOURCE	ENVIRONMENTS + TOOLS	
ASSUMPTIONS	TIMESCALES		

# Test Management in agile

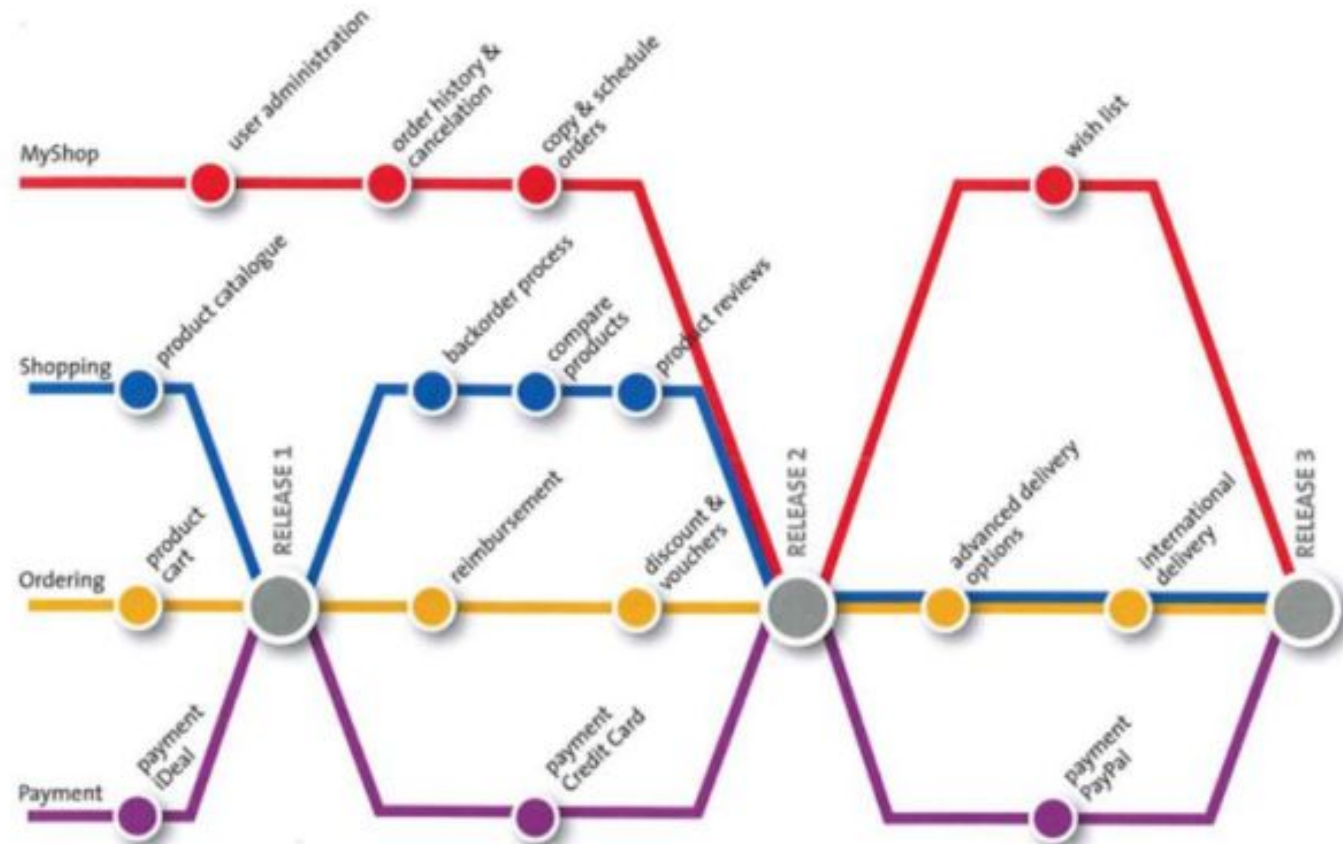
Derk-Jan de Grood & Jan Jaap Cannegieter



# Test Management in agile

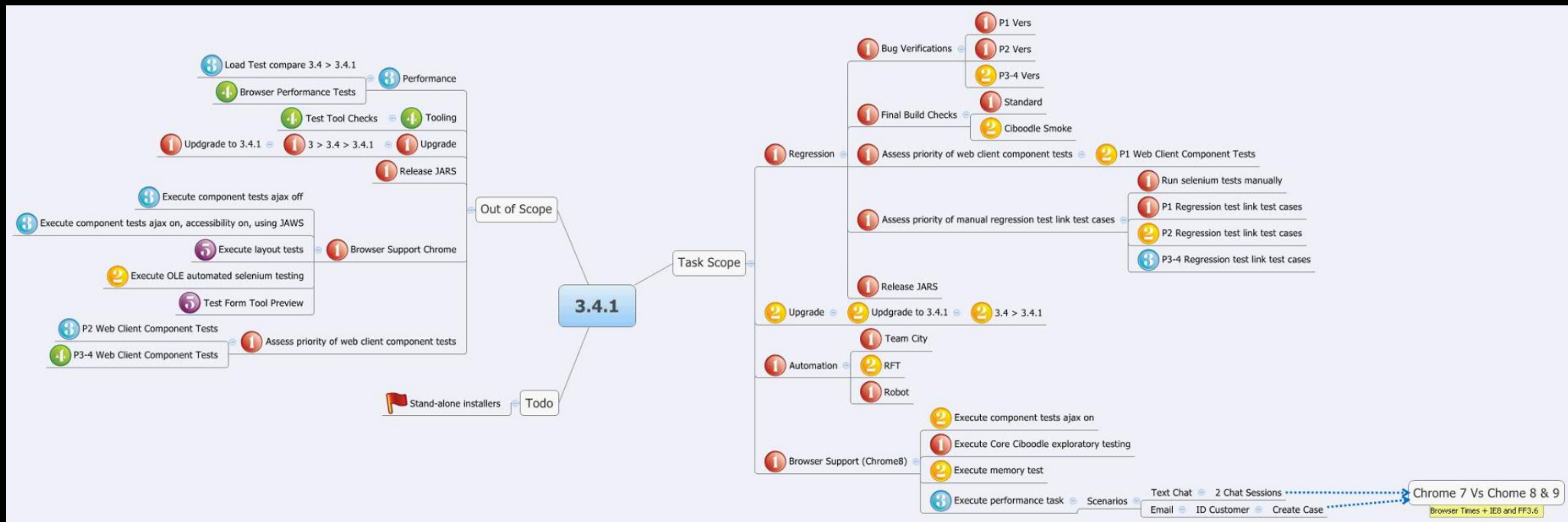
Derk-Jan de Grood & Jan Jaap Cannegieter

## SUBWAY MAPPING



# Test Management in agile

## Derk-Jan de Grood & Jan Jaap Cannegieter



# Test Management in agile

**Derk-Jan de Grood & Jan Jaap Cannegieter**

Test management - still needed

- Mission Statement
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- C.Q.O - Chief Quality Office



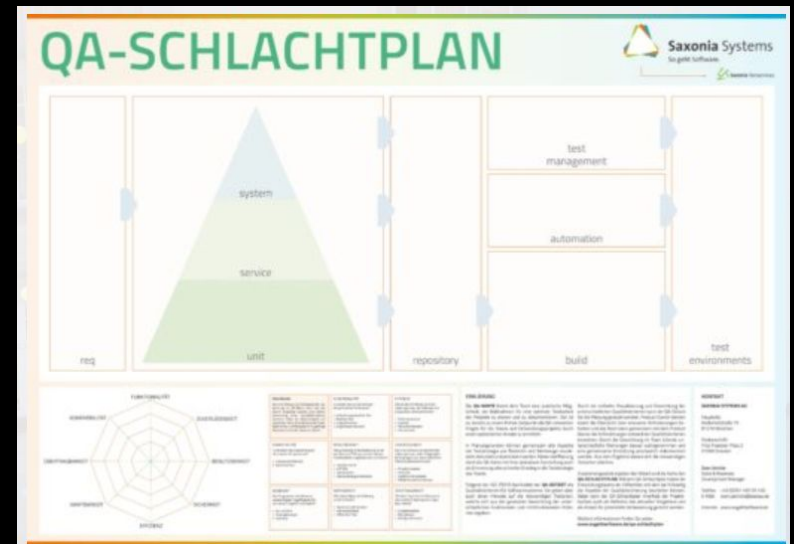
# Test Management - others

Mirjana Kolarova - Test strategy must have

- Goal
- Recipients
- Activities

Kay Grebenstein - QA Battle plan

<https://www.sogehsoftware.de/>



# A Testing Path to DevOps

Lisa Crispin & Janet Gregory

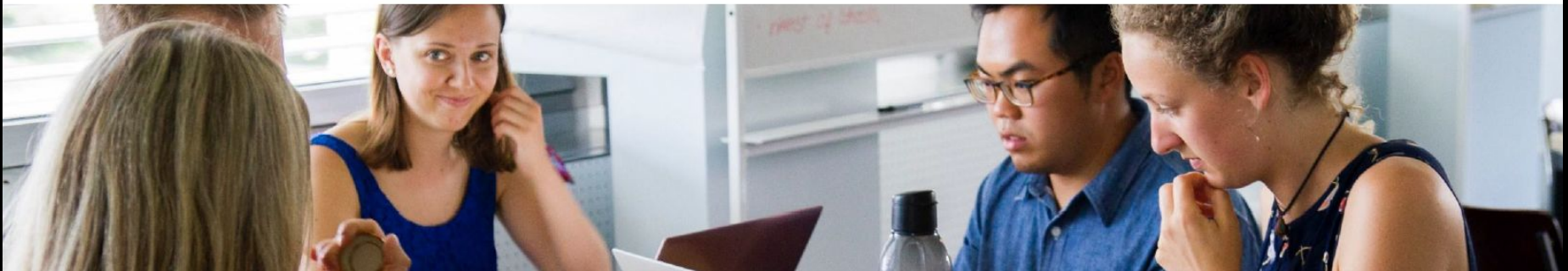


# A Testing Path to DevOps

**Lisa Crispin & Janet Gregory**

## Learning intentions

- Getting the whole team engaged in continuous delivery
- Techniques to deliver value to production frequently
- Guidelines for what to automate
- Collaborating for continual improvement
- Practices to build a culture of quality
- Design experiments to address your biggest challenges



# A Testing Path to DevOps

Lisa Crispin & Janet Gregory

## Affinity Diagram Worksheet

*Enter your question here*

What is team's engineering process at a high level?

*Fill in answers*

No CI - devs check in daily

Tests run 5 hours



Definition of Done - not followed

Automation done after release is already in production



2-3 releases a year.  
Process still in flux

Tests run at a fixed time



*What patterns do you see emerging?*

No pipeline for code to flow

Agile practice not strong

Massive releases with a ton of change

Automation challenges



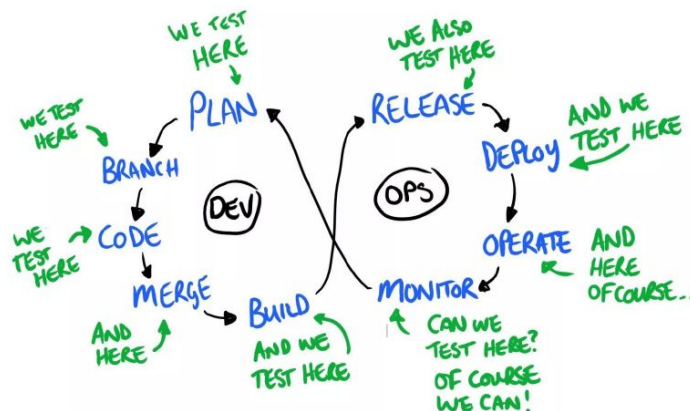
1. Decide the questions you want to ask.
2. Who do you want to talk to? Set up some time with them!
3. As people answer, fill in the answers
4. Star similarities. What patterns do you see emerging?

# A Testing Path to DevOps

Lisa Crispin & Janet Gregory

## Whole team ownership of quality

- Share common goals
- Build relationships across roles, teams
- Continuously learn and improve
- Take advantage of multiple skill sets, perspectives
- Continuous, holistic testing



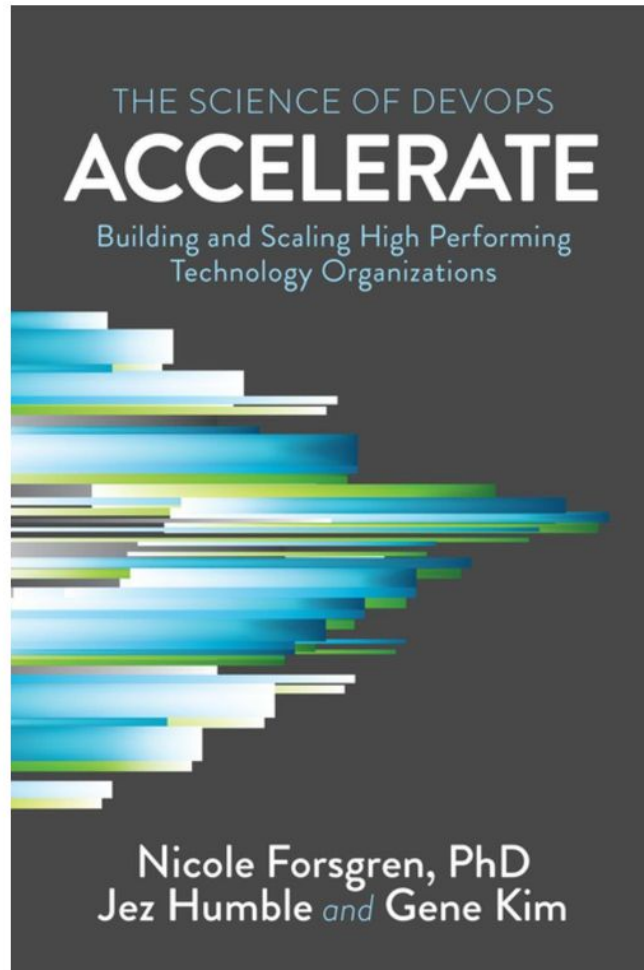
Dan Ashby  
<https://danashby.co.uk/2016/10/19/continuous-testing-in-devops/>

@lisacrispin  
@aahunsberger



# A Testing Path to DevOps

Lisa Crispin & Janet Gregory



Leaders help transform culture:

- Vision
- Inspirational Communication
- Intellectual Stimulation
- Supportive Leadership
- Personal Recognition



# A Testing Path to DevOps

## Lisa Crispin & Janet Gregory

Value Stream Mapping Worksheet (Simplified)



**LT (lead time) = VAT (Value Add Time) + NVAT Non Value Add Time**

### Ideation and Design

Feature request  
Wait for design  
Design the feature  
Wait for review...  
Reviews...

### Development

Build feature  
Create PR  
Wait for reviews  
Approve reviews  
Merge  
Wait for tests...

### Production

Schedule release  
Create release notes  
Hit deploy  
Run deploy tests

1. If a new idea, what has to occur before implementing begins?
2. What has to happen to implement a change? (Development? PRs? Testing? Deployments?)
3. What has to happen to get it to production and in the clients' hands?
4. FOR EACH ACTIVITY: What is my value add time? My non value add time?
5. Where are areas we can improve?

# A Testing Path to DevOps

**Lisa Crispin & Janet Gregory**

## Guidelines for continual improvement

- Small slices, “learning releases”
- Iterative improvement
- Build towards your goal



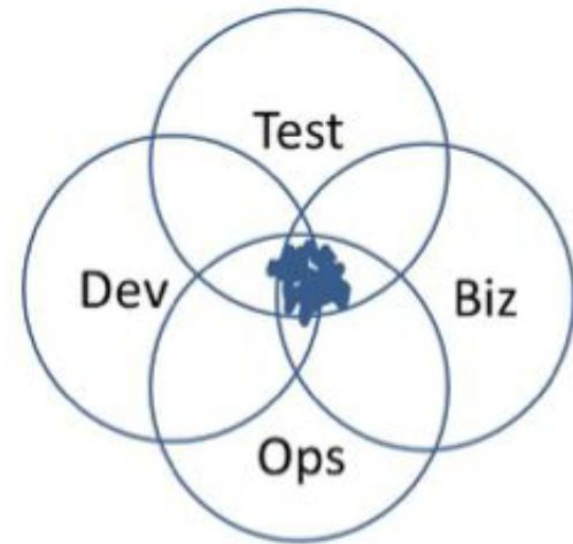
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“DevOps” isn’t only about infrastructure

- Collaboration
- Continuous improvement
- Continuous learning
- Build quality in
- Small batches
- Everyone is responsible



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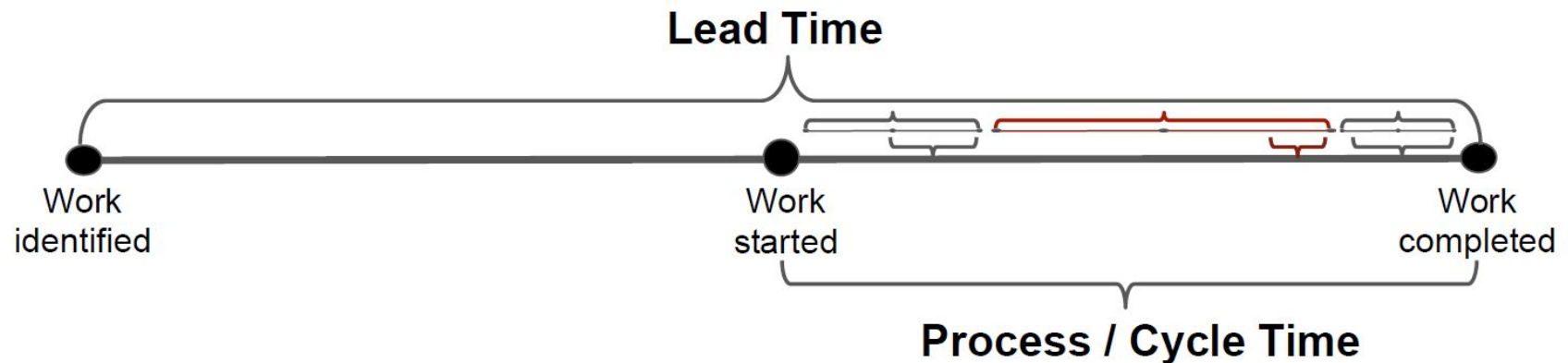
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## Measuring feedback loops - cycle time

How long from start to delivery?

- Re-work slows us down
- Shared understanding speeds us up



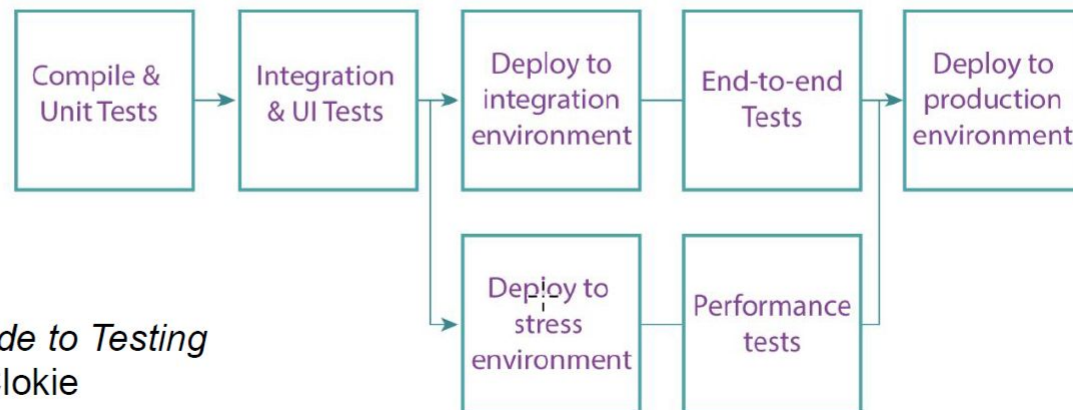
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## Lisa Crispin & Janet Gregory

### Deployment pipeline

- Break the build into stages to speed up feedback
- Each stage takes extra time & provides more confidence
- Early stages can find most problems -> faster feedback
- Later stages probe more thoroughly
- Automated deployment pipelines are central to continuous delivery



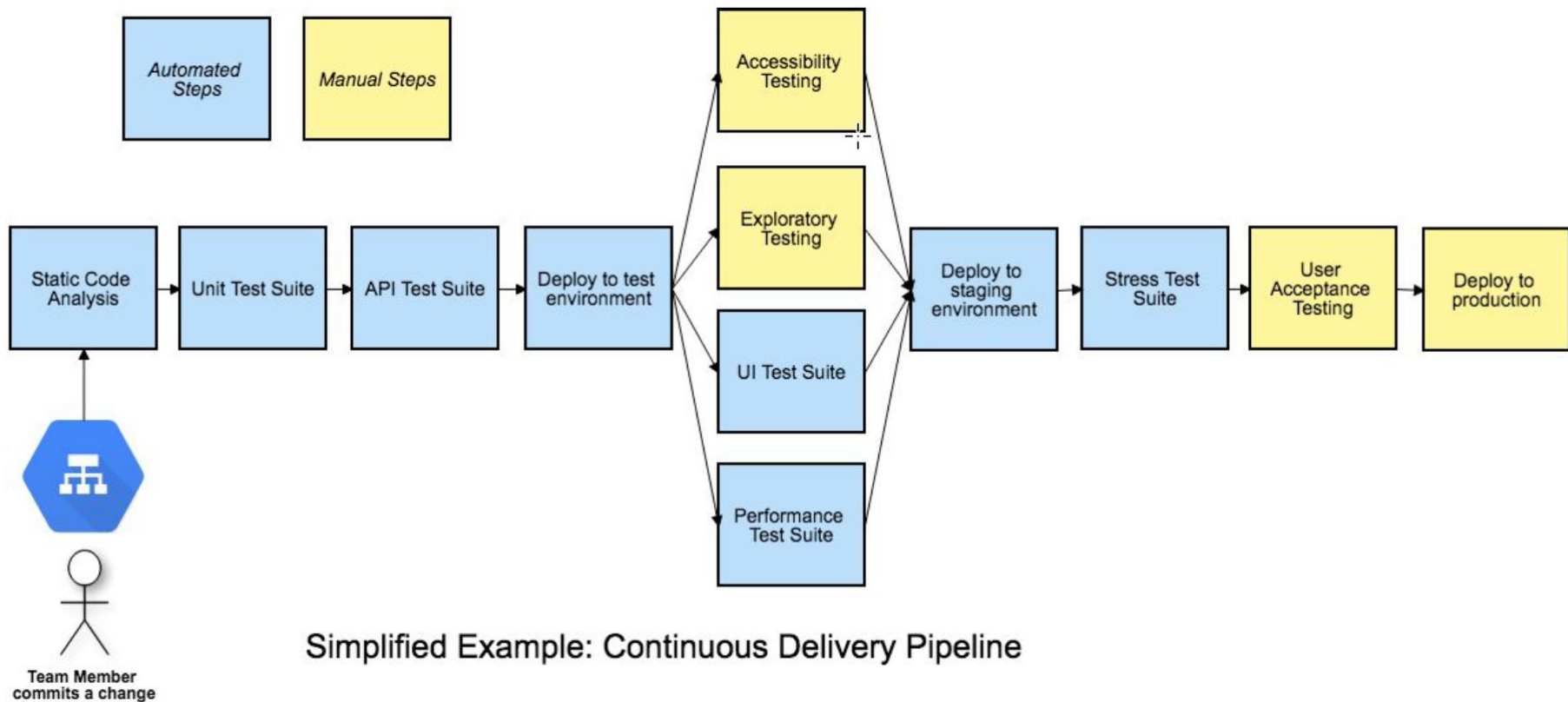
From *A Practical Guide to Testing in DevOps*, Katrina Clokic

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# A Testing Path to DevOps

## Lisa Crispin & Janet Gregory

### Continuous Delivery (CD)

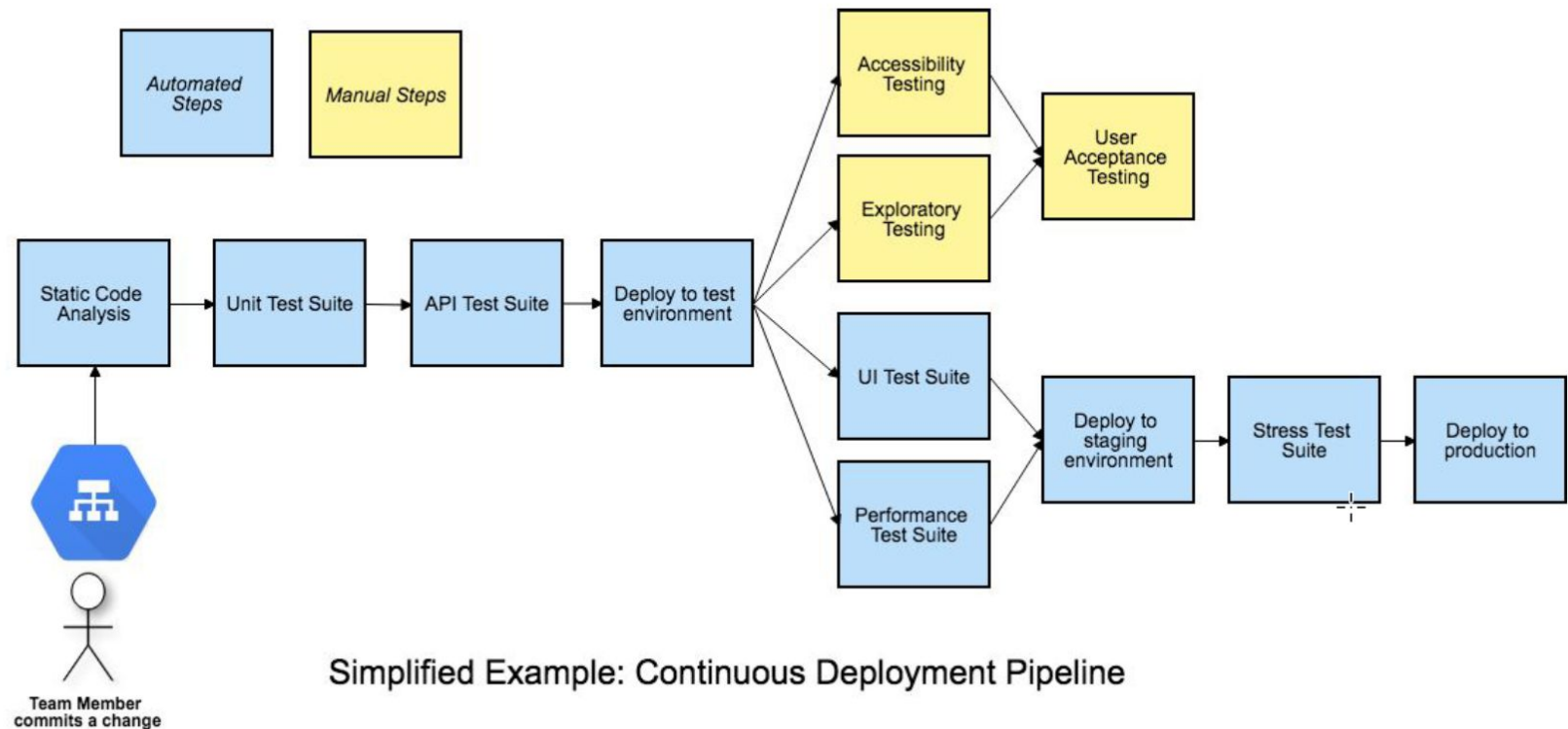




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### Continuous Deployment (also CD)



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How would you deliver that to production?

In your table groups...

- Use the cards to represent steps in your pipeline
  - (for future use, we have provided a worksheet)
- Lay out your strawman pipeline
- What test suites would you want to include?

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“Continuous” without automation

*Like driving at night without your headlights. It's possible... but headlights reduce the risk.*

*Automated regression tests are one headlight*

*Operability – monitoring, observability, testing in prod – is the other*



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### Test Suite Canvas Worksheet

Test Suite Name:				
<b>Why</b> What business question am I trying to answer with this suite? What risk does this mitigate?	<b>Dependencies</b> What systems or tools must be functional for this suite to run successfully?	<b>Constraints</b> What has prevented us from doing this before? What are our known workarounds?	<b>Pipeline/Execution</b> Is the suite part of a pipeline? When is it triggered? How often does it run?	<b>Data</b> Do we mock? query? inject? How is the data setup and managed?
<b>Engagement and Failure Response</b> Who creates the tests? Who contributes? Who is not involved but should be? If a test fails, who addresses that, and how?		<b>Maintainability</b> What is the code review process? What documentation exists? Is it clear how to contribute? How do we maintain the framework?		<b>Effectiveness</b> How do we know the suite is effective? What is it finding? What is it preventing?

Ashley's version: <https://tinyurl.com/testsuitecanvas>

Inspired by Katrina Clokie's: <http://katrinatester.blogspot.com/2017/07/test-automation-canvas.html>

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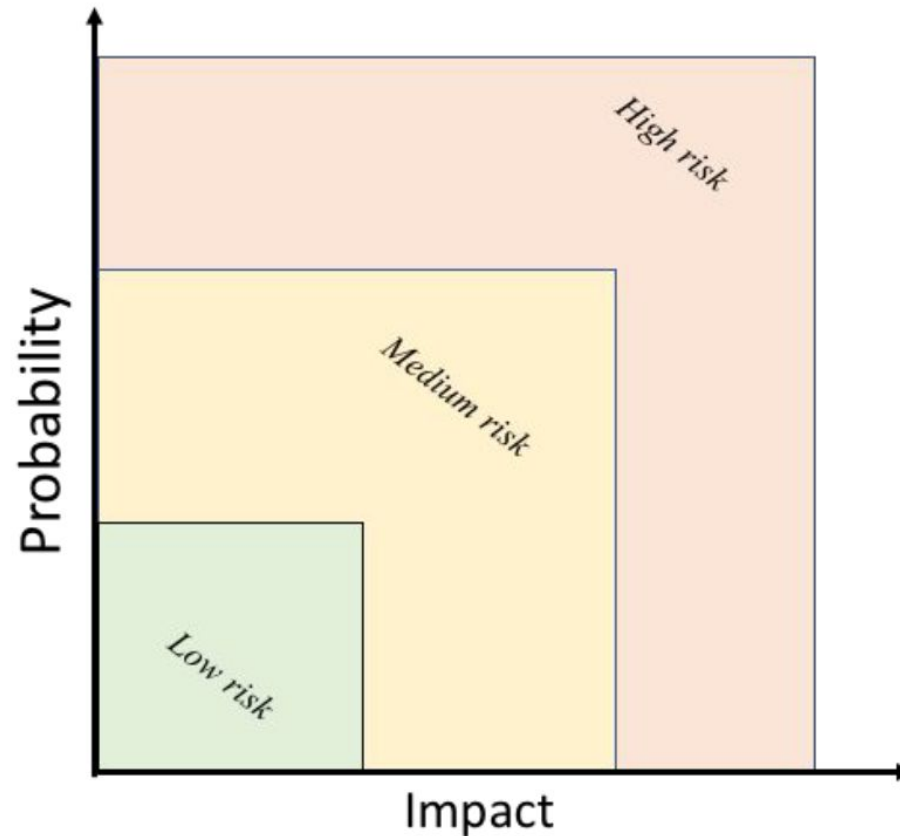
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Risk Analysis  
Plotting



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# A Testing Path to DevOps

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### Logging

- Log everything!
- The app and other infrastructure such as app servers log
- Used for error reporting, analytics, monitoring, observability

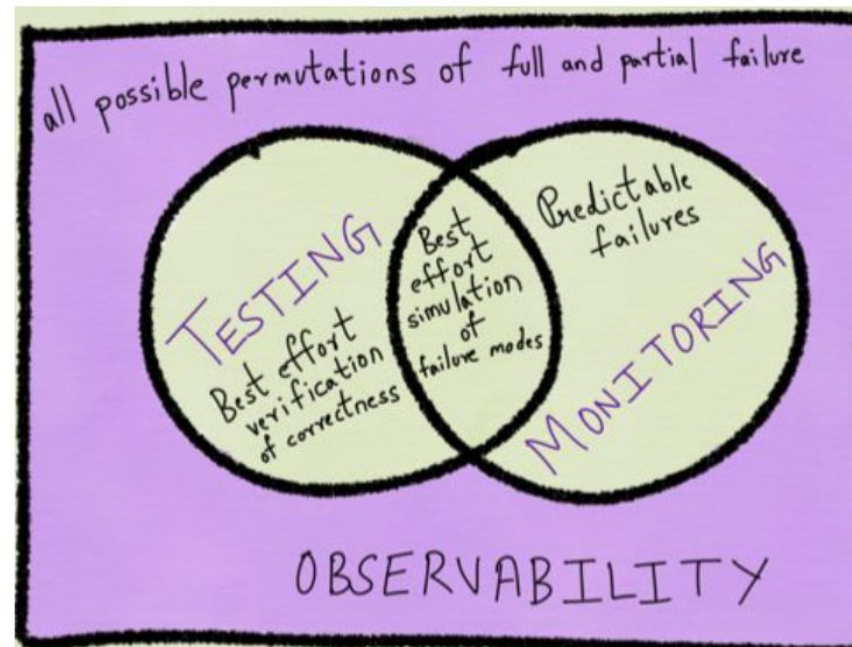
```
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▶ 2019-08-07 11:53:02.594 EDT Successfully created [jr-25le8rqv3a6fahceypbucjcluem6] for JourneyRun [nmXL1ENYf46FD1KAwhShTQ-jr]
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▶ 2019-08-07 11:53:04.147 EDT Attempting to schedule JourneyRun [7y4SNHEONiy8JLLhIFKSYw-jr]
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▶ 2019-08-07 11:53:05.358 EDT Successfully created [jr-21cl7osvotcil6bmvn0q8v6qxtbw2] for JourneyRun [cdnJ42-cpDlVaJzrCOTe6w-jr]
▶ 2019-08-07 11:53:29.543 EDT Attempting to schedule JourneyRun [o18zisdPyv2LLnQQwqybfQ-jr]
▶ 2019-08-07 11:53:29.547 EDT Attempting to schedule JourneyRun [EakJiwiwGcJ4rQTBQKIqwg-jr]
▶ 2019-08-07 11:53:29.645 EDT Successfully created [jr-1t776k0a7y2es8liwaw6nn674el84y] for JourneyRun [EakJiwiwGcJ4rQTBQKIqwg-jr]
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▶ 2019-08-07 11:53:31.188 EDT Attempting to schedule JourneyRun [fg28mQ2gobzy8T2-qdRSNg-jr]
▶ 2019-08-07 11:53:31.190 EDT Attempting to schedule JourneyRun [ck_aMq_LcJKdNzJiqn3Exw-jr]
▶ 2019-08-07 11:53:31.244 EDT Successfully created [jr-22chbswyc3au9w0xal3zad8ji5vlu] for JourneyRun [fg28mQ2gobzy8T2-qdRSNg-jr]
▶ 2019-08-07 11:53:31.246 EDT Successfully created [jr-21dex1j67jgcauto1t9hjme05zea] for JourneyRun [ck_aMq_LcJKdNzJiqn3Exw-jr]
▶ 2019-08-07 11:54:02.337 EDT Attempting to schedule JourneyRun [Q7s3t_d0YhJtIqYINZv08g-jr]
▶ 2019-08-07 11:54:02.364 EDT Successfully created [jr-lxhypfh27z605d0hlo08mlgsxide] for JourneyRun [Q7s3t_d0YhJtIqYINZv08g-jr]
▶ 2019-08-07 11:54:08.131 EDT Attempting to schedule JourneyRun [FRJo-J8qZH_lUbhjye4y6g-jr]
▶ 2019-08-07 11:54:08.148 EDT Successfully created [jr-ltken5ei9icmelfzsqwqwnfz2] for JourneyRun [FRJo-J8qZH_lUbhjye4y6g-jr]
▶ 2019-08-07 11:54:09.485 EDT Attempting to schedule JourneyRun [o2-JnMWXZNXr-OEST6xfPg-jr]
▶ 2019-08-07 11:54:09.506 EDT Successfully created [jr-25gh7uyp2pa3ffp0nmjckxhlhkqya] for JourneyRun [o2-JnMWXZNXr-OEST6xfPg-jr]
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# A Testing Path to DevOps

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## Observability (o11y)

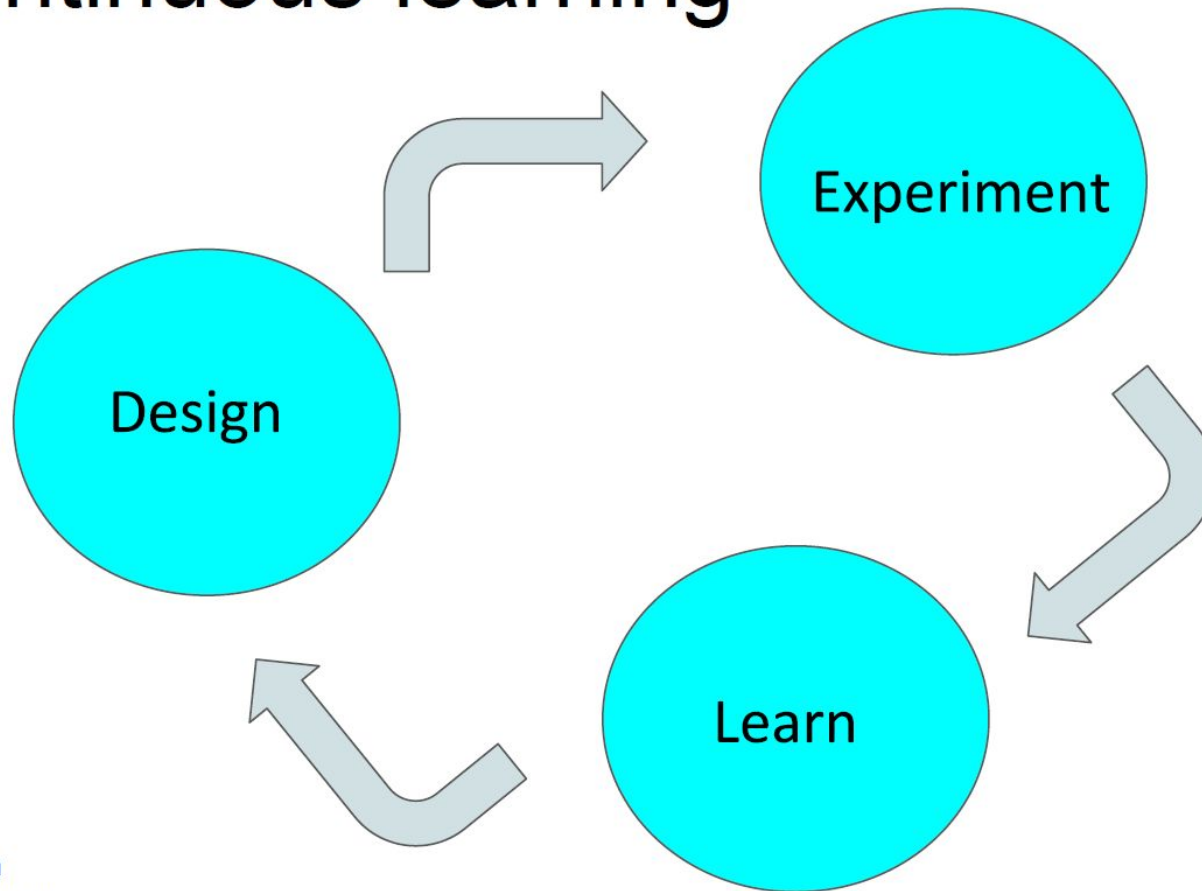
- Ask the questions you didn't anticipate
- Complex systems fail in complex ways
- With enough information, we can respond quickly



# A Testing Path to DevOps

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## Continuous learning



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# **A Testing Path to DevOps**

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**“There is no failure. There is only  
learning...”**

**... and some weeks I do a LOT of learning.”**

**-Elisabeth Hendrickson**

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# A Testing Path to DevOps

## Lisa Crispin & Janet Gregory

### Hypothesis Worksheet

*Challenge*

*Hypothesis*

We believe that

Will result in

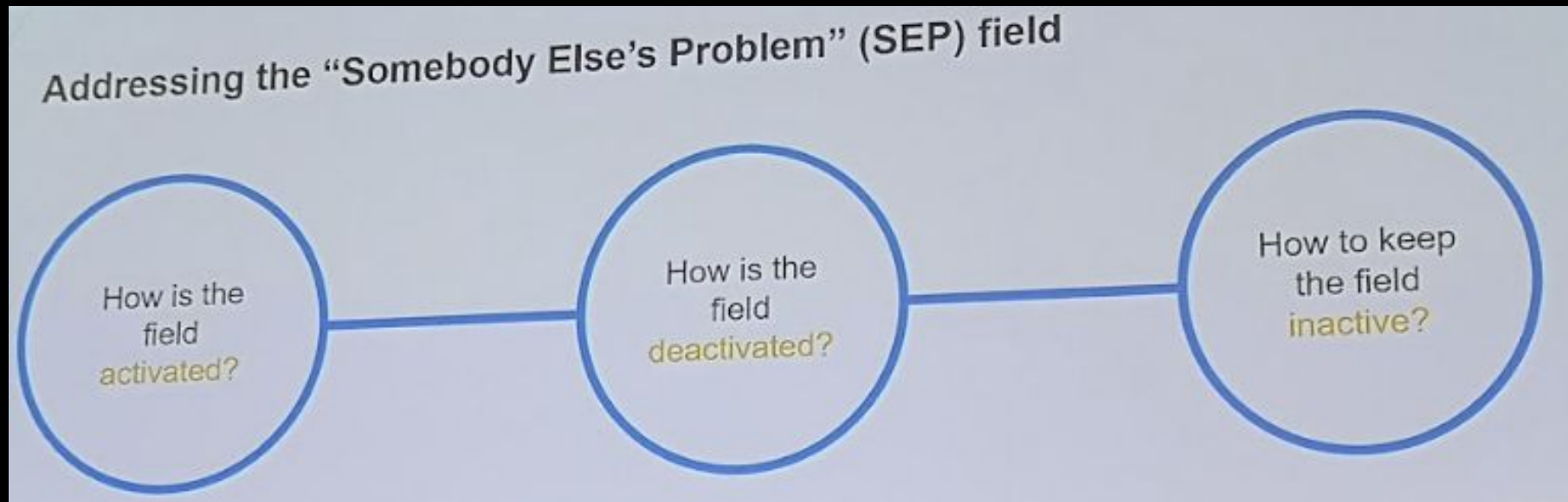
We'll know we have succeeded when

*Results and Observations*

1. Identify your challenge
2. Design your experiment.
3. Monitor, learn, repeat!

# Turning the Quality of your development pipeline into a Team Task

## Areti Panou



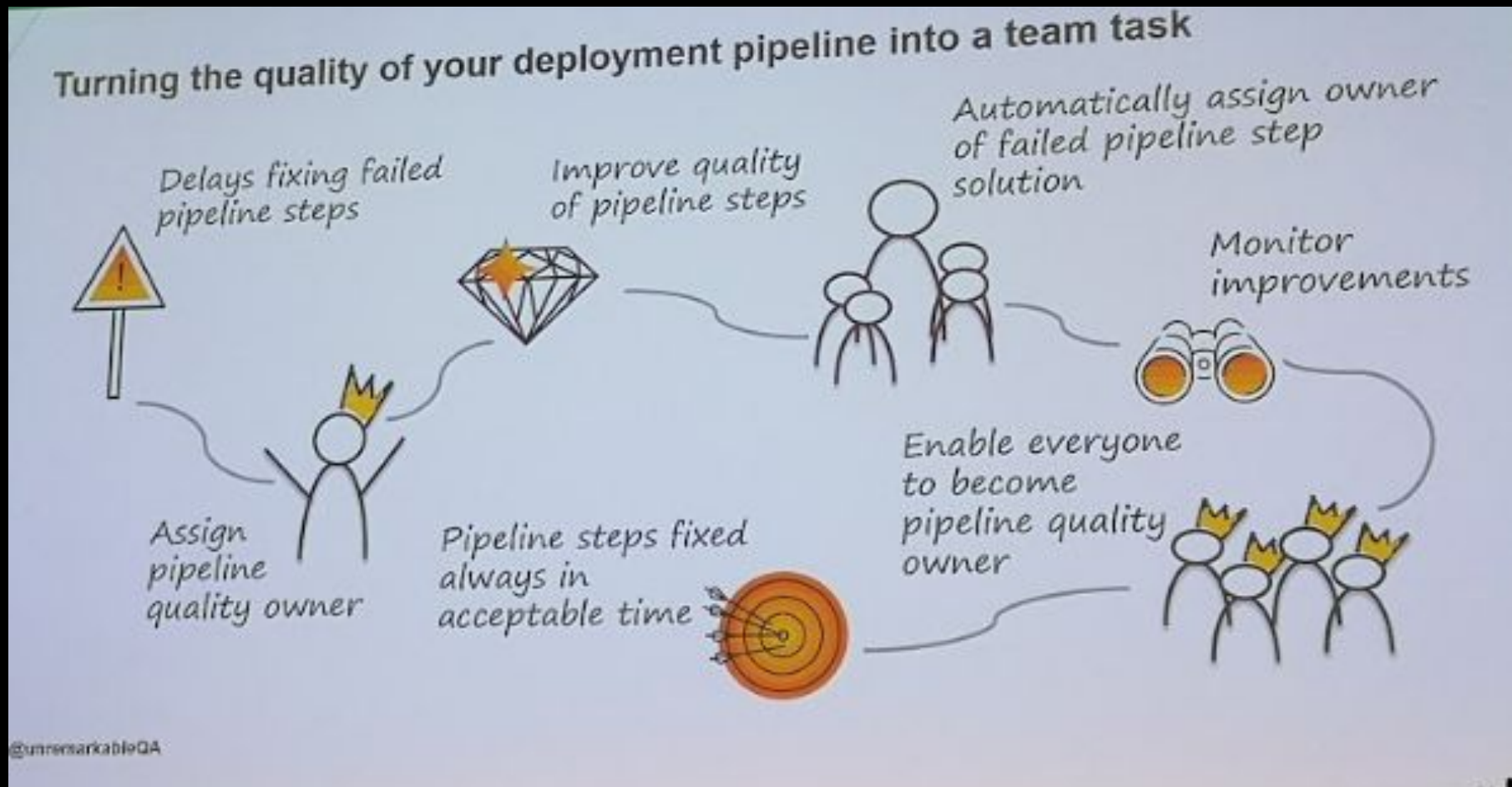
SEP - all members in the team must be allowed to and dare to take action on fails



# Turning the Quality of your development pipeline into a Team Task

Areti Panou

SEP - all members in the team must be allowed to and dare to take action on fails



# Exploratory Testing in 10 minutes

Kristine Corbus

- Exploratory testing exercise
  - Rules
    - 20 questions
    - 3 min
    - Yes/No answers
    - Followed by retrospective
- “Exploratory testing is NOT wild guessing”



Timebox

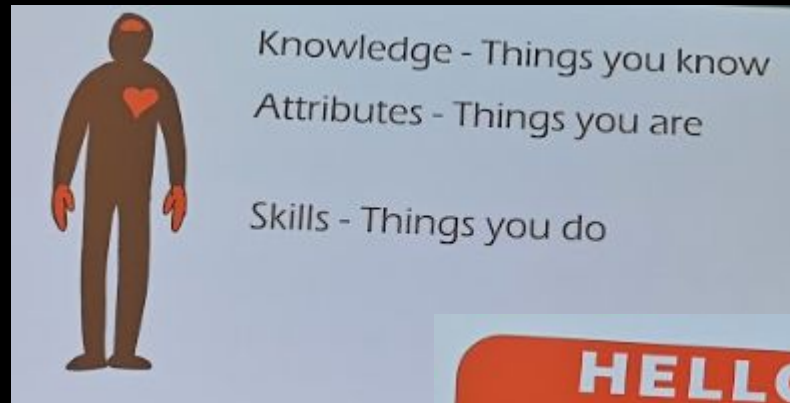
# More Than That

## Damian Synadinos

What do you do?

Who are you?

- Head - Knowledge
- Heart - Attribute
- Hands - Skills



Face anxiety

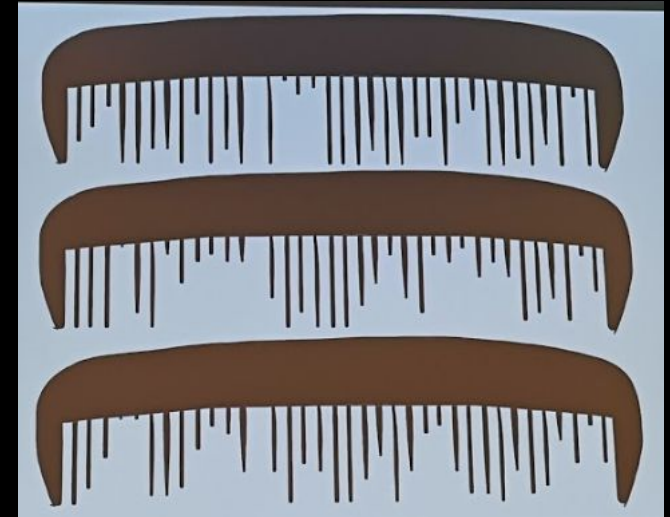
- use it instead
- it's never too late



# More Than That

## Damian Synadinos

Once you label me you  
negate me.



# Agile Team - General

Build a well working Agile team

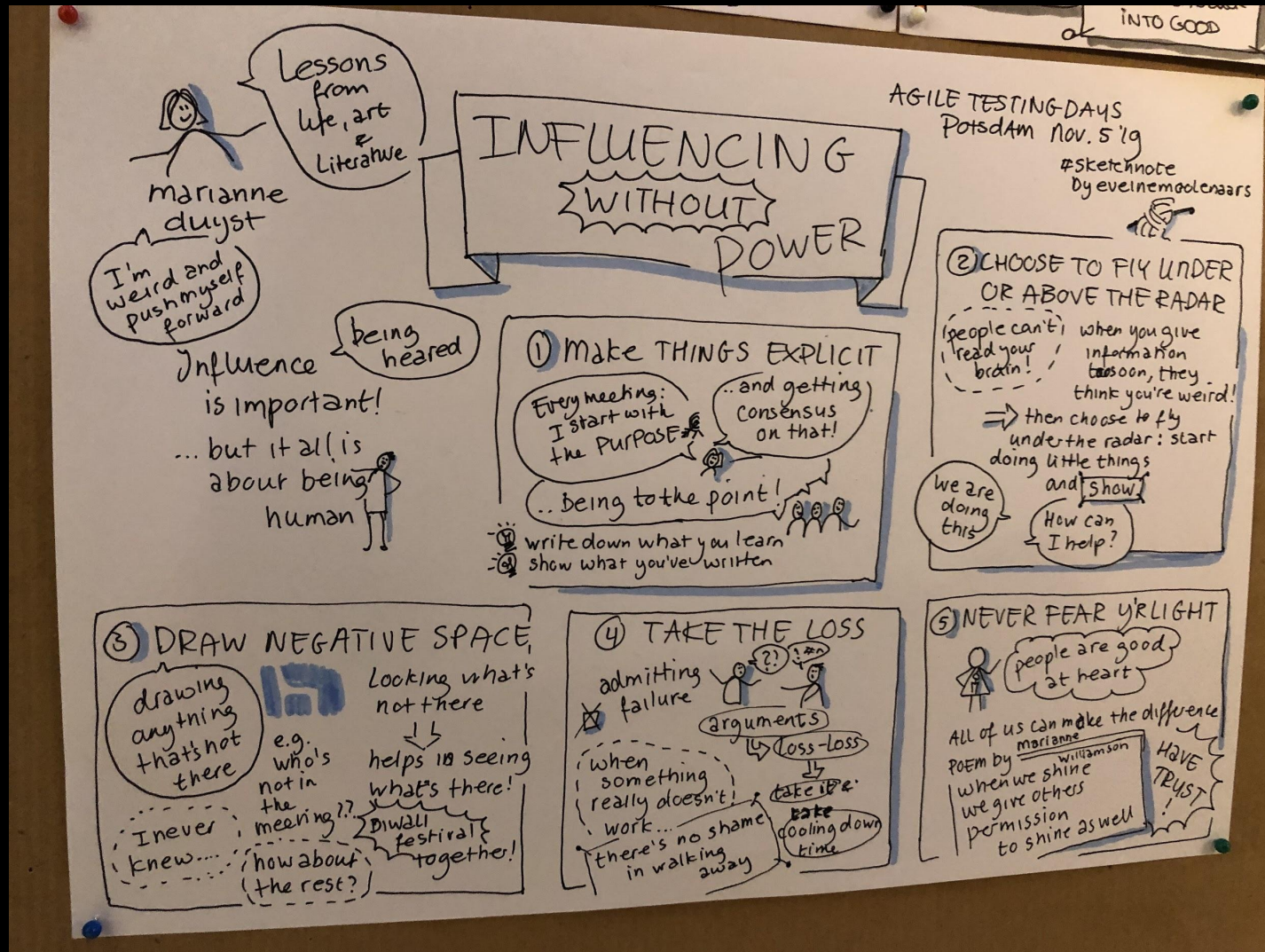
- Important to celebrate
- What is missing
- Safe environment

It is important to take care of yourself to be able to help others.



# Influencing without power

## Marianne Duijst





# Deadline killed the agile star

Jantien van der Maar

- Well functional teams
  - No clear progress → Got a deadline
  - Unconscious transformation
    - Fight
    - Flight
    - Freeze
    - Focus
- Improve awareness of reaction
  - Labeling
  - Anxiety needs to be handle

# Becoming an agile people manager

Alex Schladebeck

- Aim and values
- Empowerment
- 5 Rules of engagement
  - Empathy with boundaries
  - Yes, or tomorrow, or later
  - Trust
  - Wait and See
  - Lead by example
- Learning to know a new system - Humans



# Wizards, witches and testing

Tobias Geyer @the\_qa\_guy

- Wizards

- Male, quite uniform
- Beards & bellies
- Magic is for experts
- University trained
- Stay in university, do not blend with the townspeople

**Developers**



- Witches

- Female, many shapes & sizes
- Magic learnt via apprenticeship
- Individual styles
- Live alone in huts but deals with townspeople
- Have powerful magic but don't always use it

**Testers**



---

squadd

# Wizards, witches and testing

Tobias Geyer @the\_qa\_guy

Tiffany Aching was the witch and she has made herself the witch because they needed one. Everybody needs a witch, but sometimes they just don't know it.

# Thanks!

