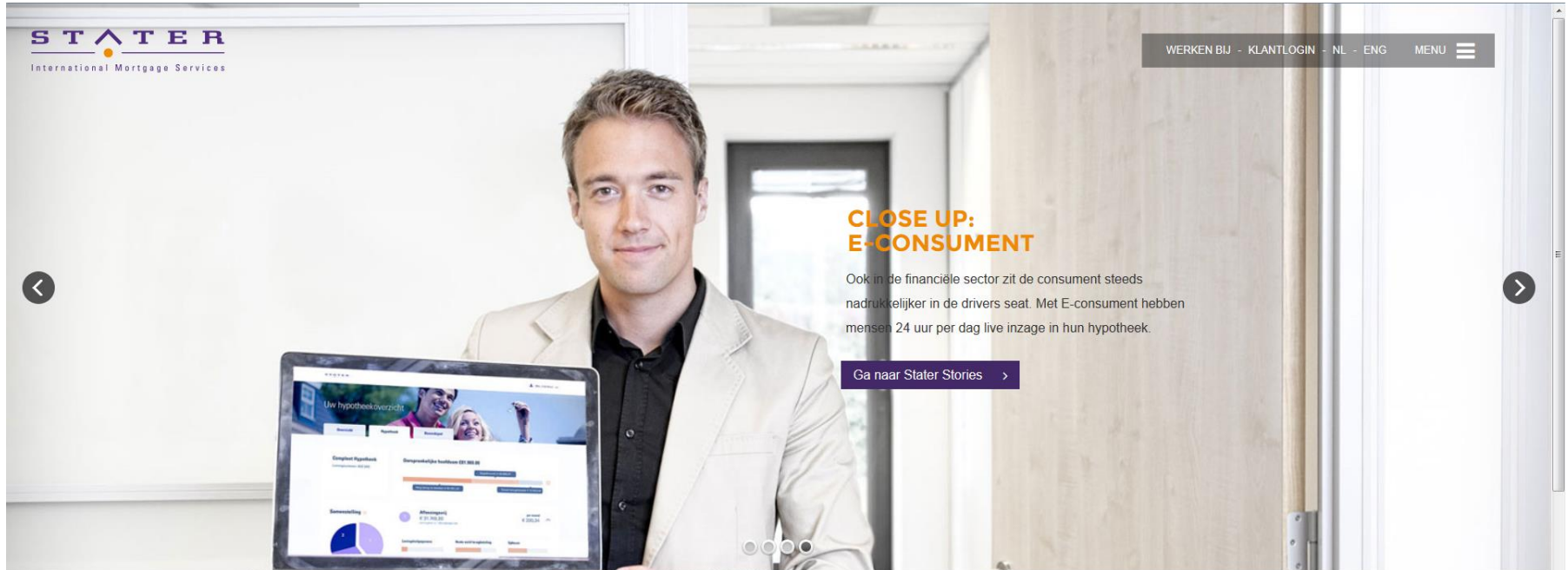


Road to DevOps @ Stater

Pascal Dufour
(Agile test consultant)





STATER
International Mortgage Services

WERKEN BIJ - KLANTLOGIN - NL - ENG MENU

CLOSE UP: E-CONSUMENT

Ook in de financiële sector zit de consument steeds nadrukkelijker in de drivers seat. Met E-consument hebben mensen 24 uur per dag live inzage in hun hypotheek.

[Ga naar Stater Stories](#)



HEEFT U EEN VRAAG OVER UW HYPOTHEEK?

WAT DOET STATER?

Stater is de grootste hypothecaire dienstverlener in Nederland. Wij ondersteunen bijna dertig procent van alle hypotheek in Nederland. Onze hypothecaire dienstverlening heeft Fitch beoordeeld met de hoogste rating van Nederland.

[Lees meer](#)





- Market share at the start of 2014: 30%



- Market share at the start of 2014: 30%
- Market share Q1 2015: 40%



- Market share at the start of 2014: 30%
- Market share Q1 2015: 40%
- Goal: 70 % market share by the end of 2018

E-Consument



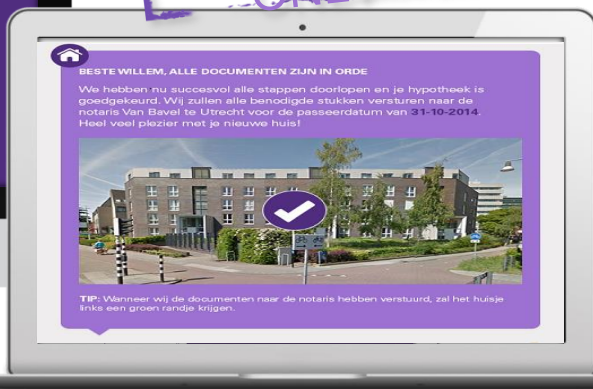
Bouwdepot App



Accello

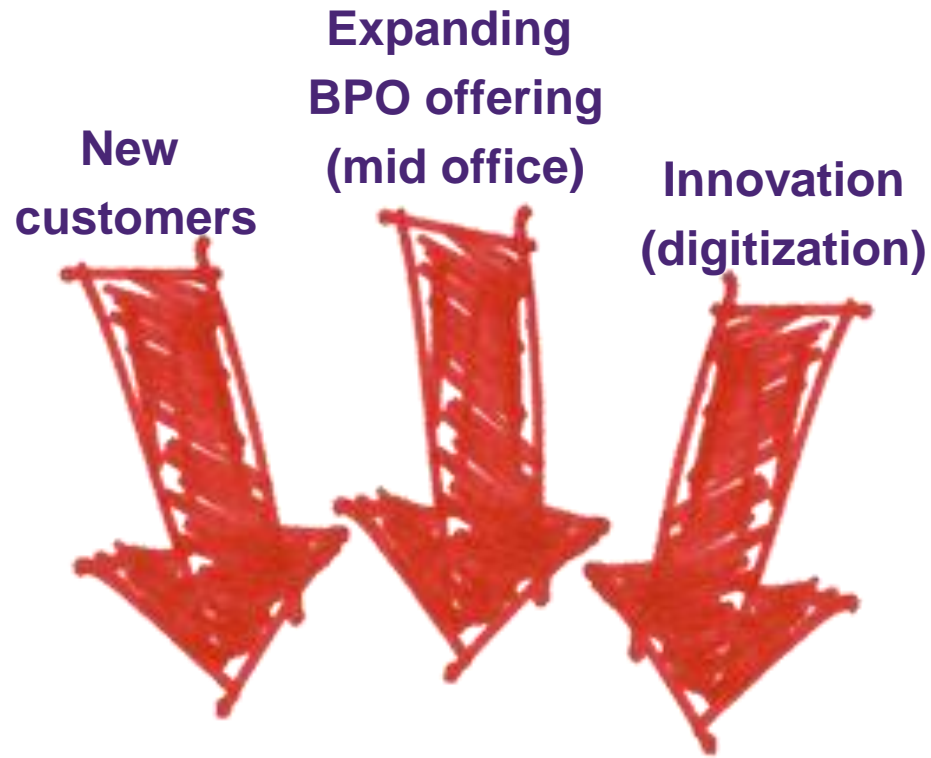


EXECUTION ONLY

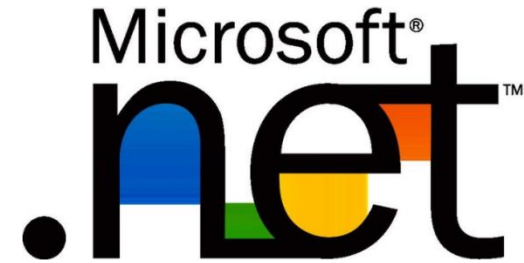


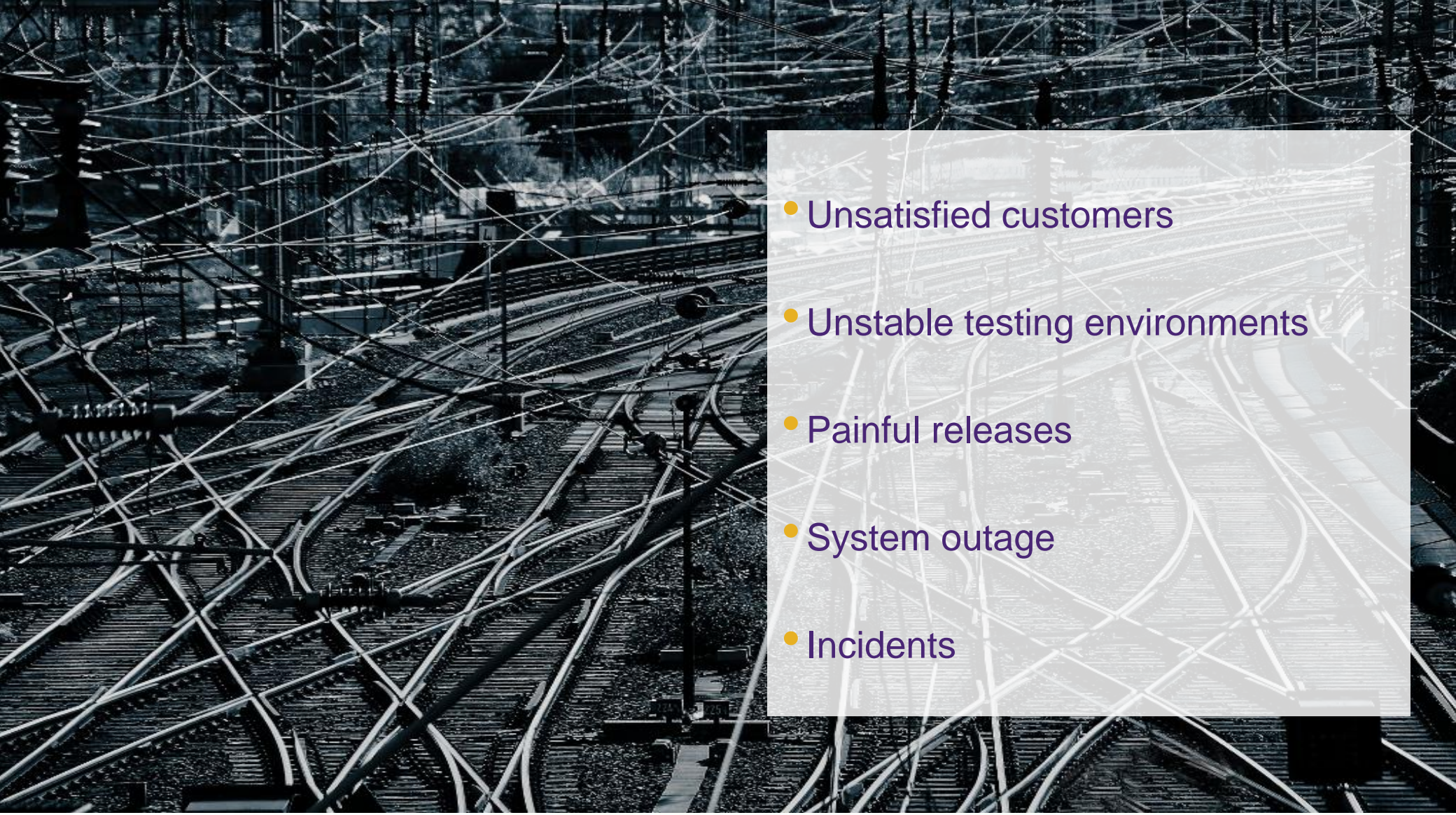
E-Notaris

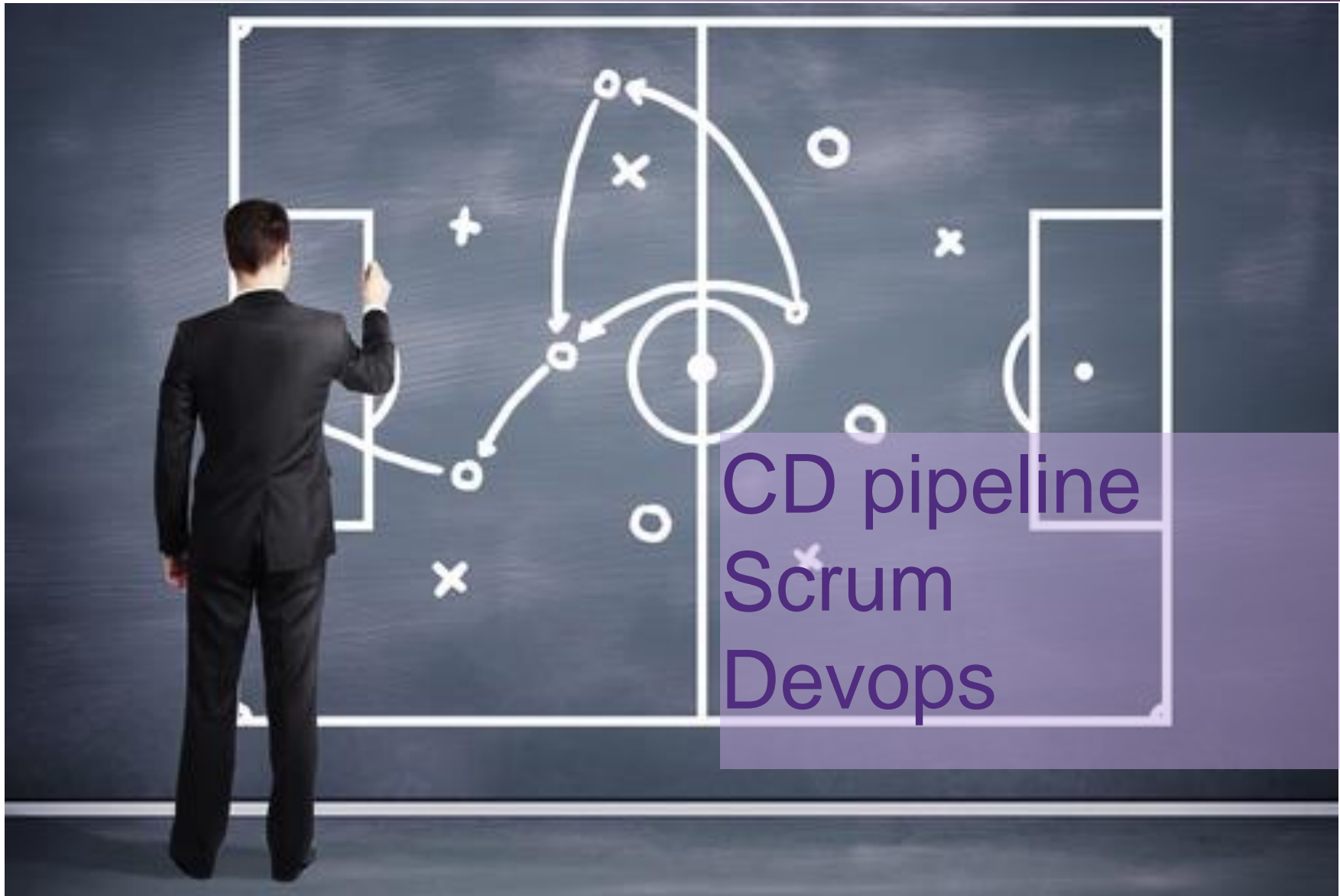




70% market share



- 
- Unsatisfied customers
 - Unstable testing environments
 - Painful releases
 - System outage
 - Incidents

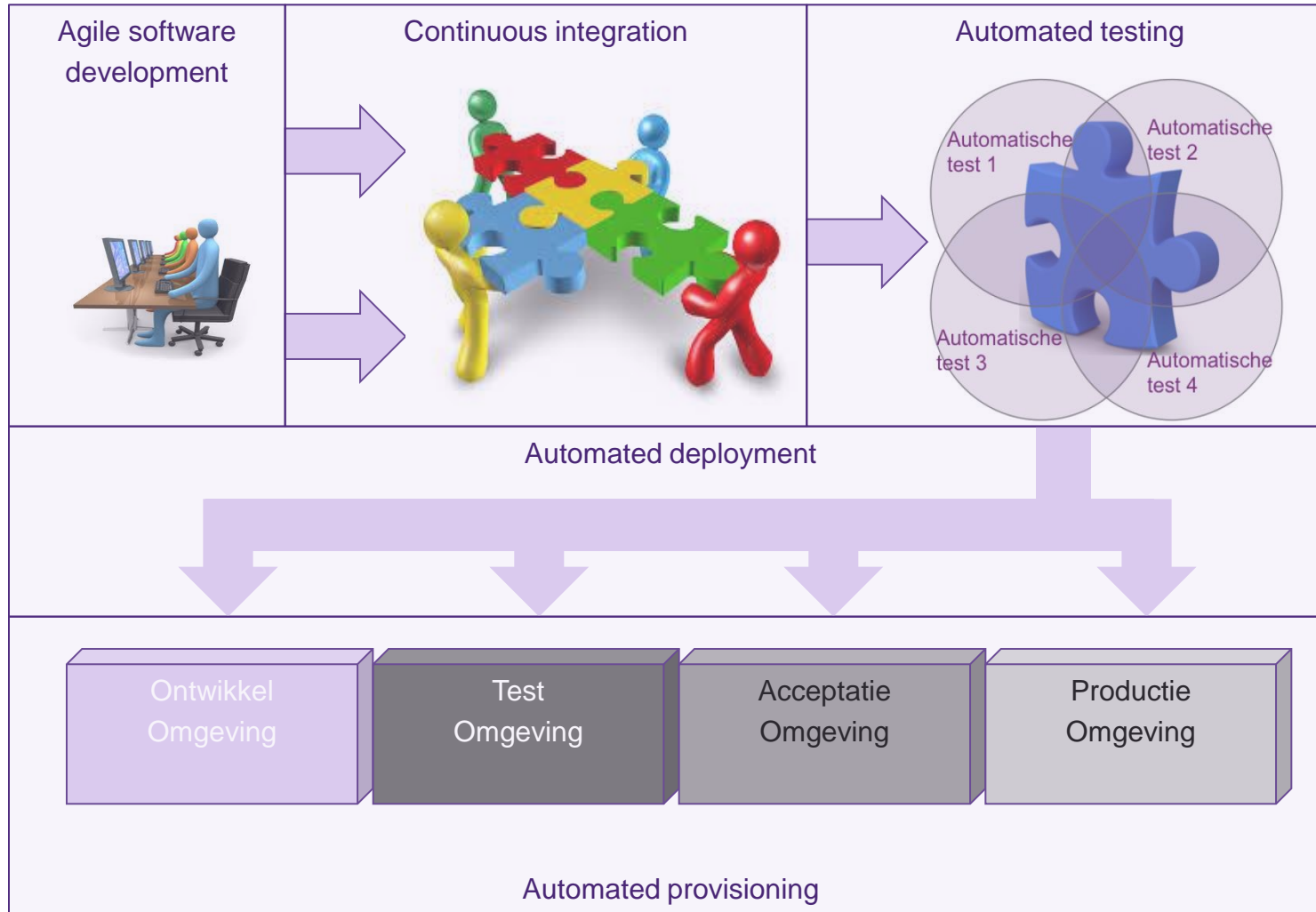


CD pipeline
Scrum
Devops

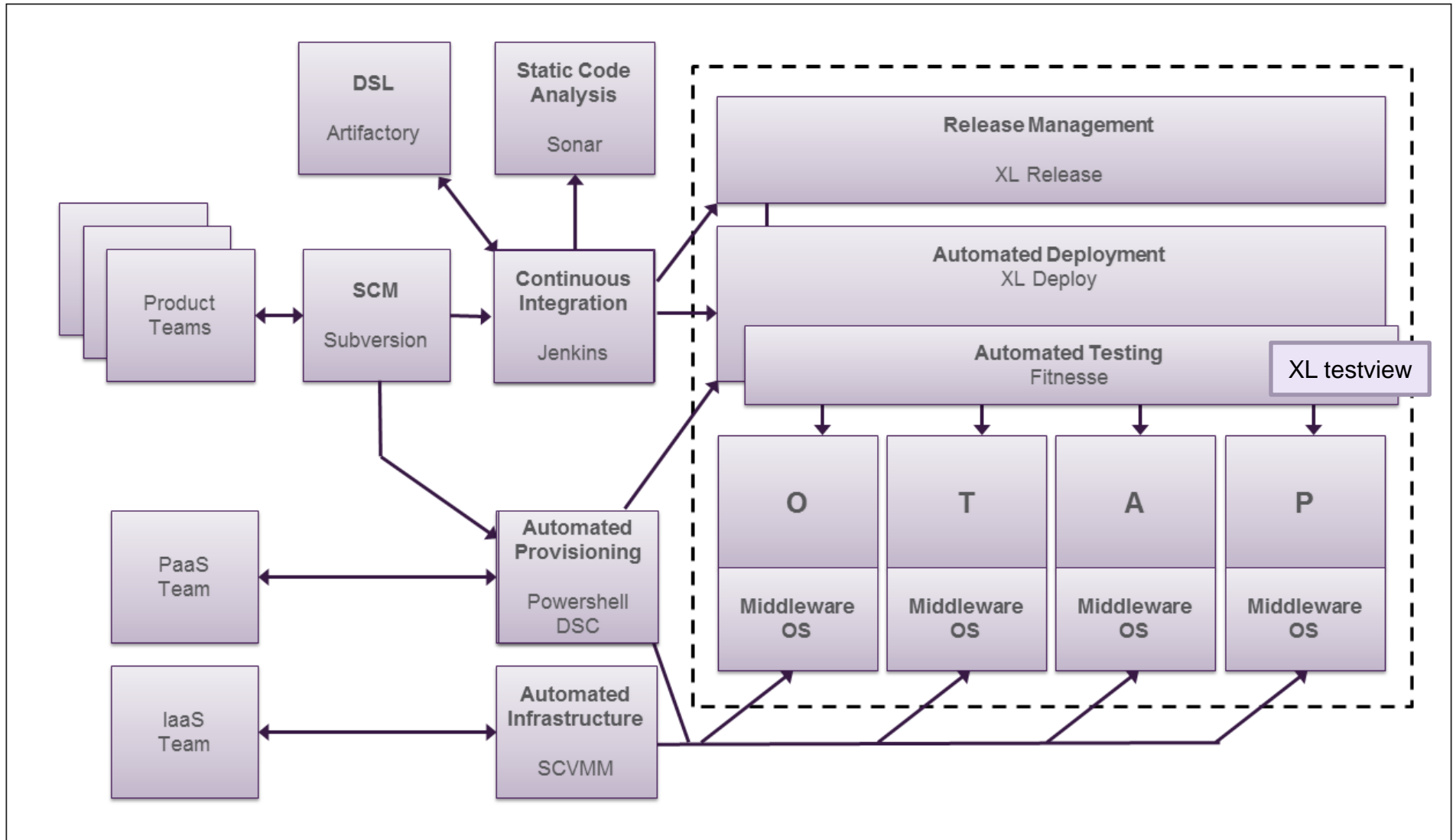
Delivery was “old school”



The answer: Continuous Delivery



CD Pipeline



Automated flows for releases

The screenshot displays the 'RELEASE' software interface, specifically the 'Releases - Opbouw Testomgeving' section. The interface is organized into a top navigation bar, a sub-navigation bar, and a main content area with five task panels.

Navigation: The top bar includes 'RELEASE by XebiaLabs™', 'Tasks', 'Releases' (active), 'Calendar', 'Reports', and 'Settings'. The sub-bar shows 'Overview', 'Pipeline', 'Templates', and 'Opbouw..' (active).

Actions: A 'Show' dropdown is set to 'Release flow'. Action buttons include 'New Release', 'Add Phase', 'Export to Excel', and 'Export'.

Task Panels:

- Aanvraag:** Contains 'Check vooraf', 'Status aanpassen omgevingsoverzicht', and 'Add task'.
- Opbouw omgeving:** Contains a 'Databases' sub-panel with 'Aanvraag Databases' and 'Ssd: Create S S D Call', and an 'Updaten Software aanvraag' task.
- Software:** Contains 'Aanvraag Software' with 'Ssd: Create S S D Call' and 'Add task'.
- Intake:** Contains 'Status aanpassen omgevingsoverzicht', 'Automatische Intaketest' (with 'Fitnesse: Test Suite'), and 'Handmatige Intaketest'.
- Vrijgeven:** Contains 'Status aanpassen omgevingsoverzicht', 'Informereren Stakeholders', and 'Administratie relman bijwerken'.



- Release more frequently
- Use tools that best fit the job
- Fewer code bases
- Automate repetitive tasks

shifthappens

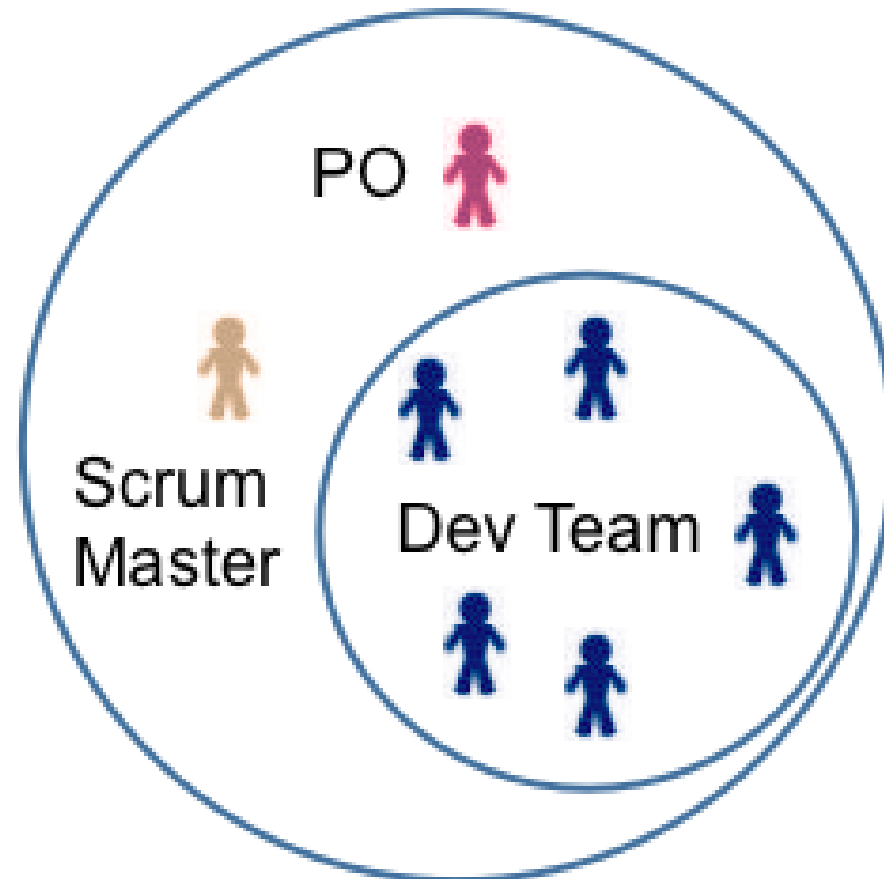


It's time to go
Agile

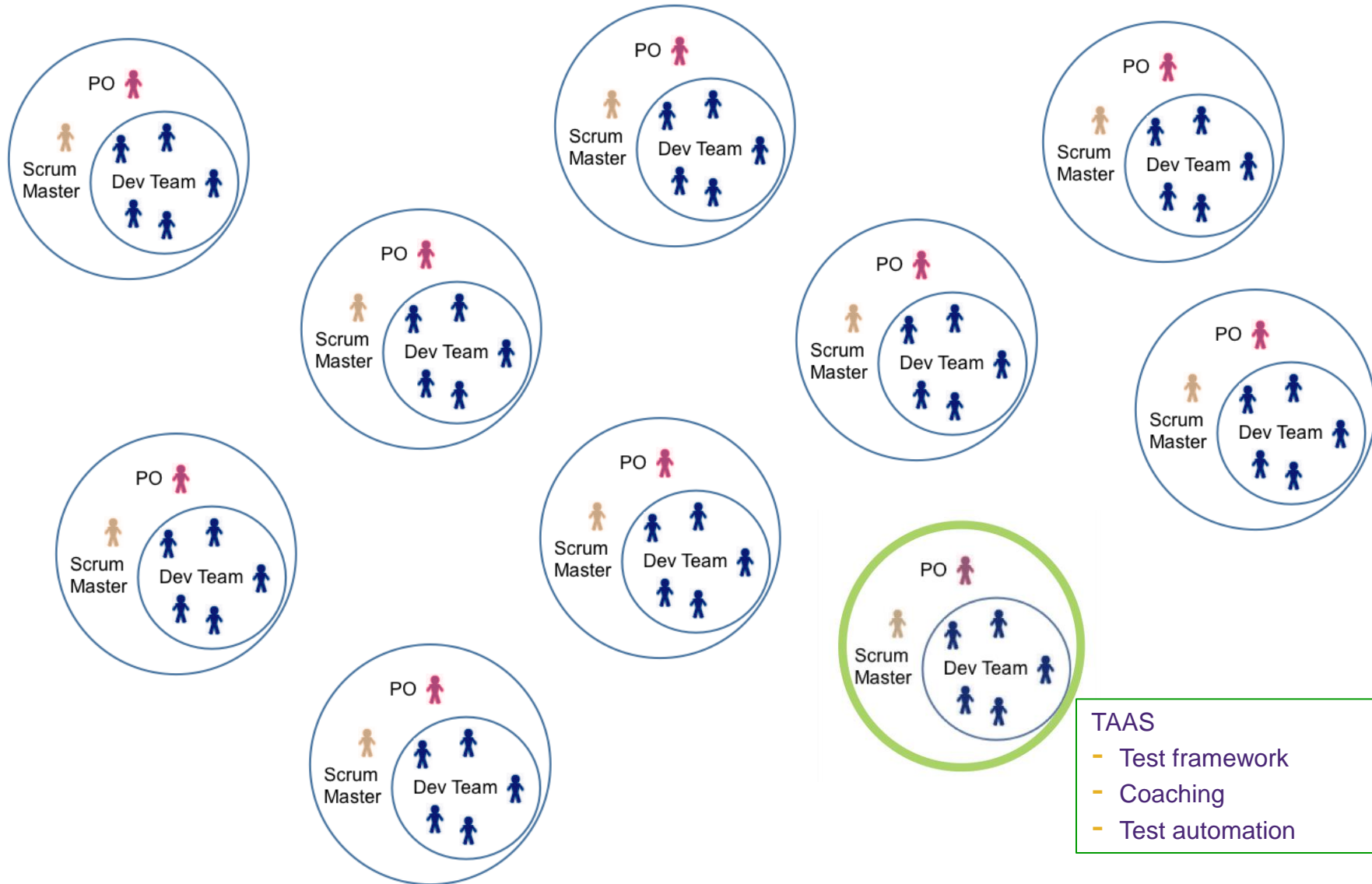
■ You are here



Microsoft Excel

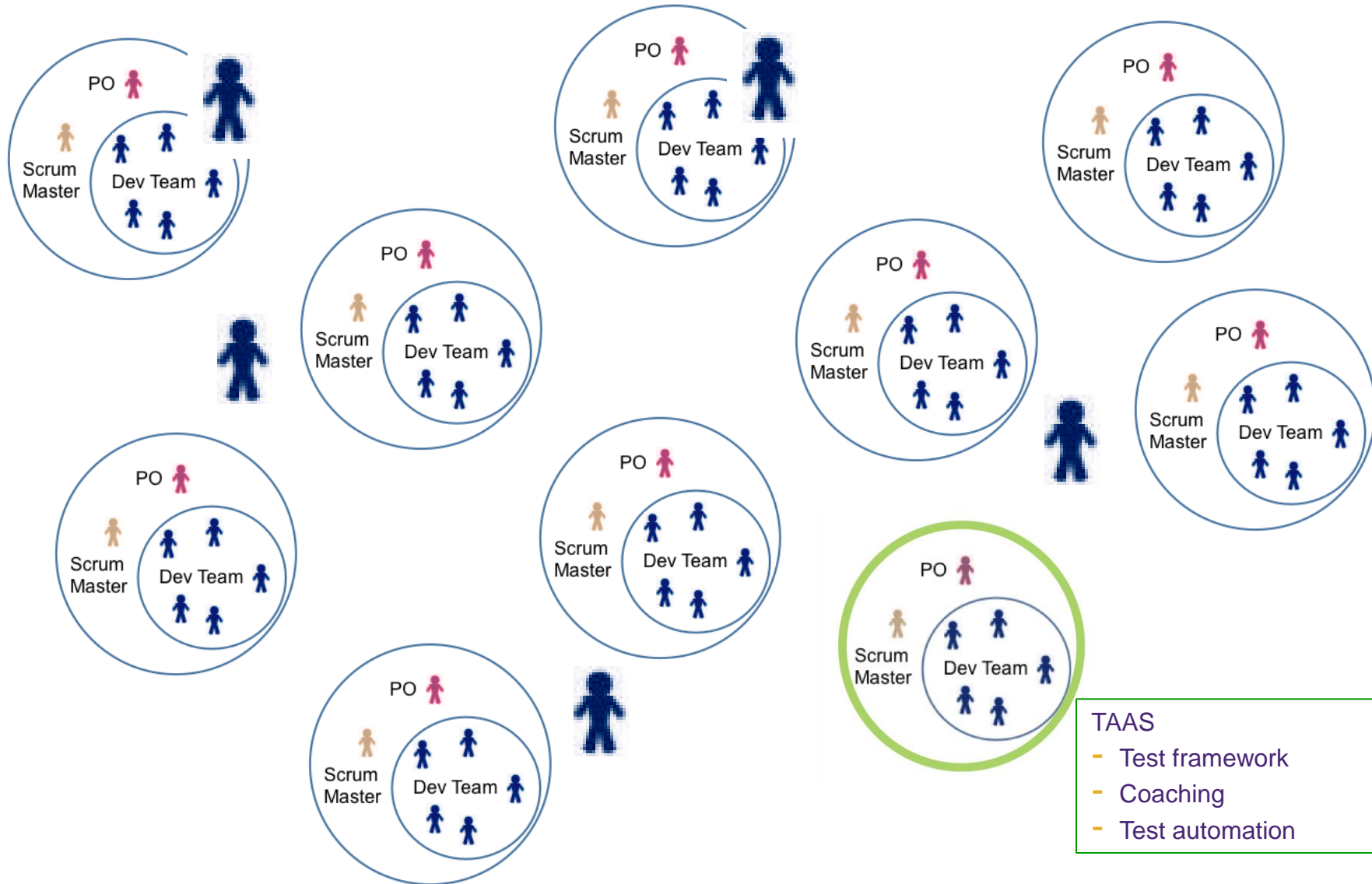


26 agile teams

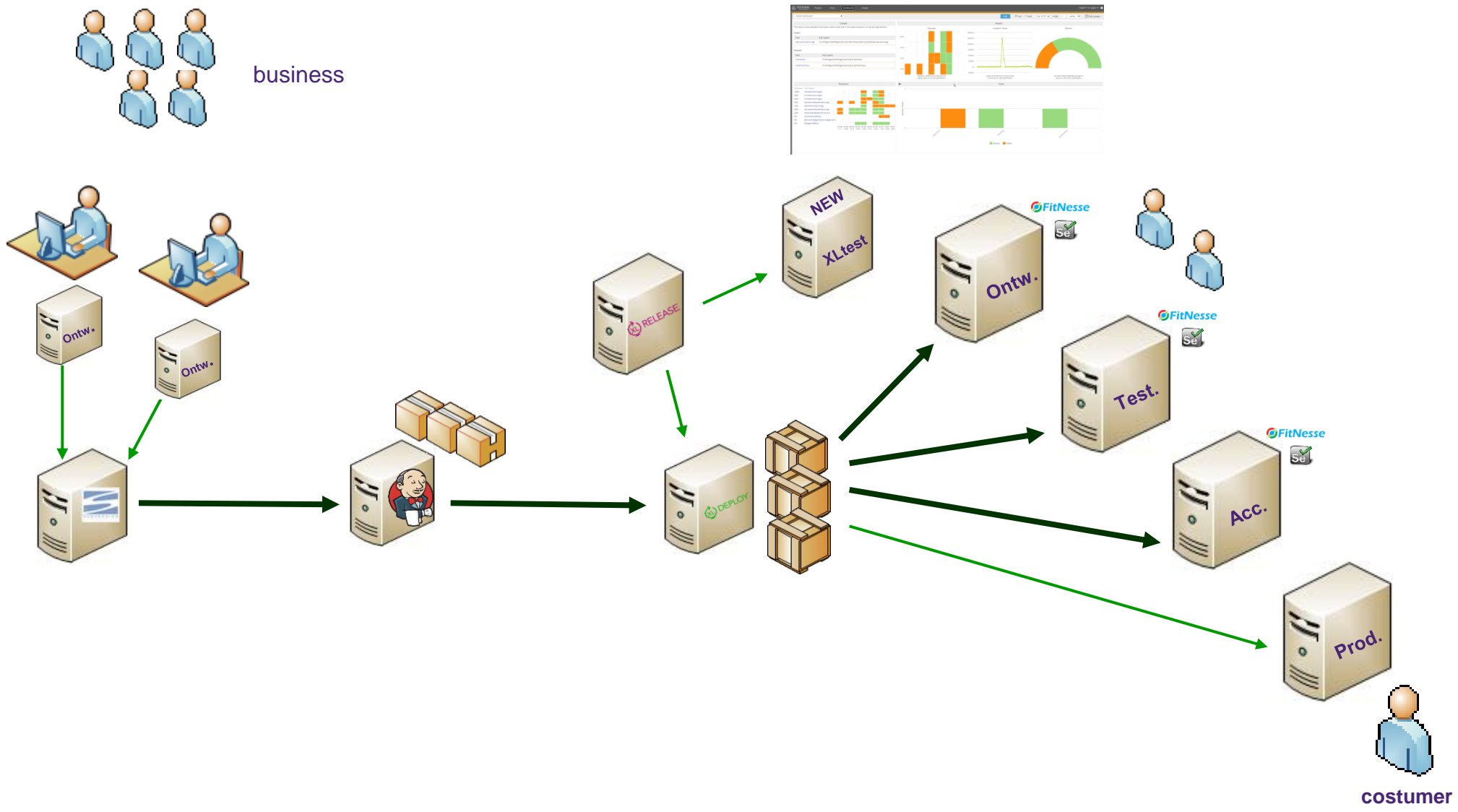


- TAAS
- Test framework
 - Coaching
 - Test automation

Added Operation engineers



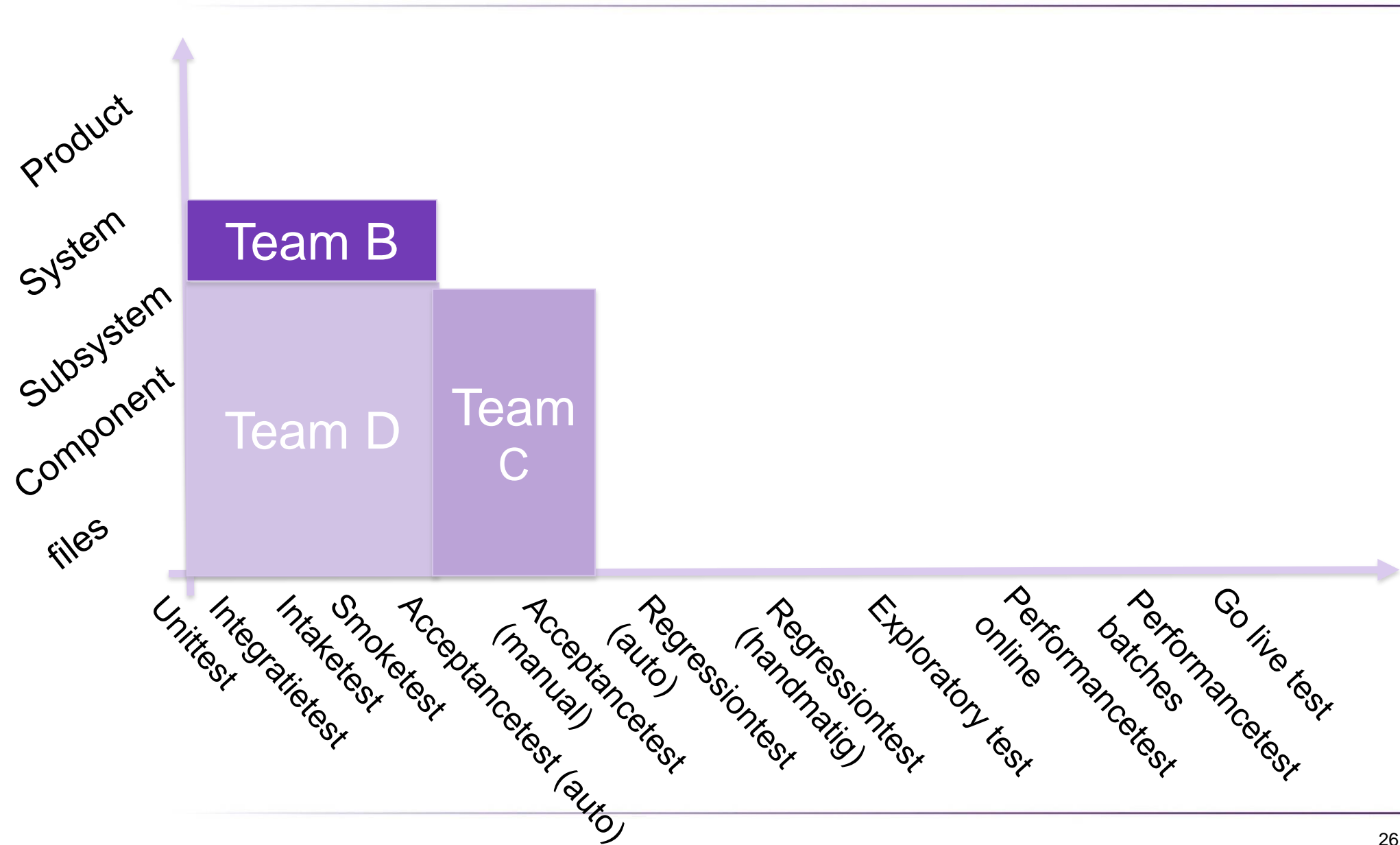
Taas environment



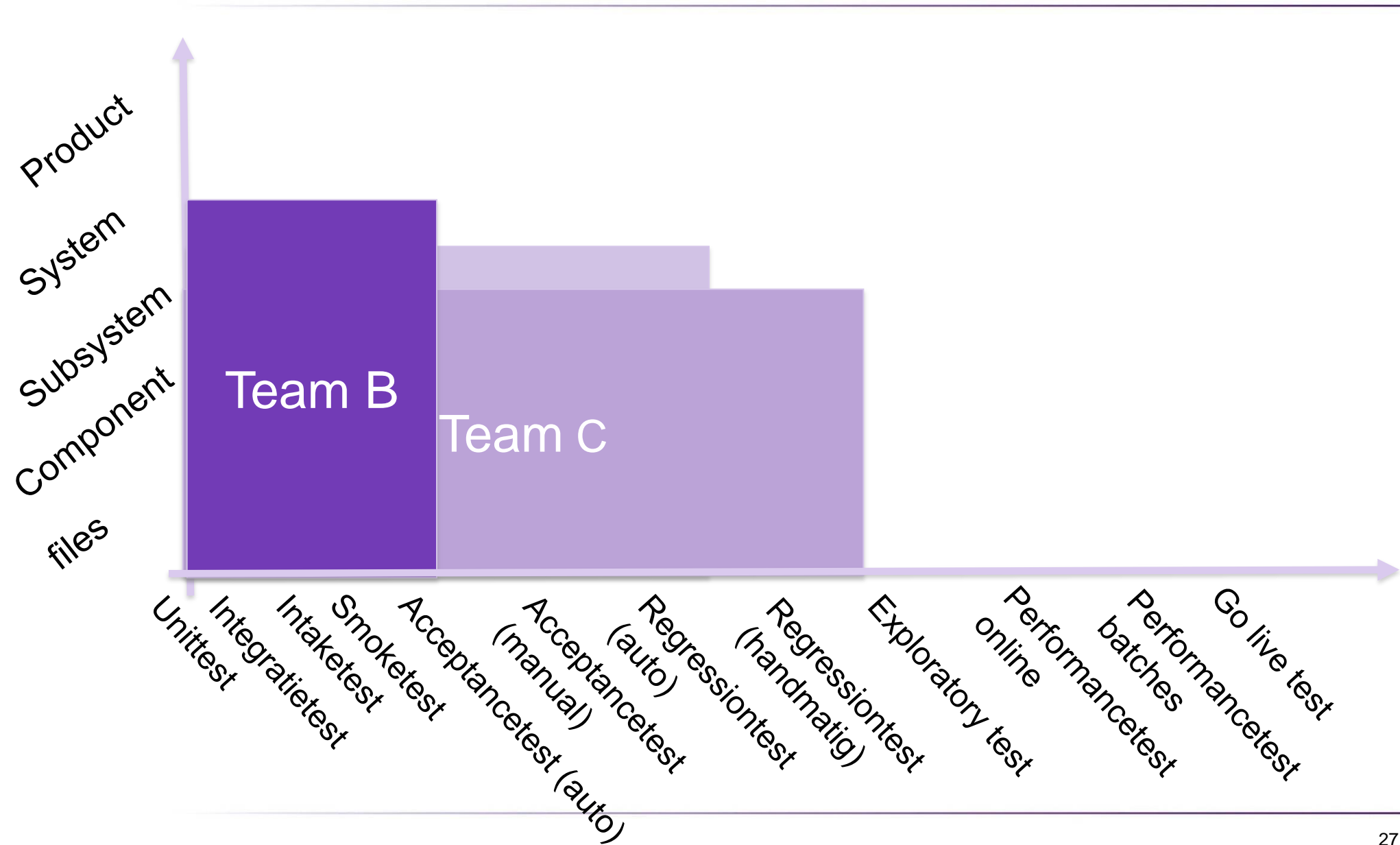
LEVEL						
5	Agile Cultuur	Zorgen dat agile mindset onderdeel van cultuur blijft door een levendige omgeving te creëren.				
4	Adaptief	Reageren op wijzigingen door meerdere niveaus van feedback				
3	Effectief	Ontwikkelen van software op een effectieve manier				
2	Evolutionair	Opleveren van software eerder en meer frequent				
1	Samenwerking	Communicatie en samenwerking vergroten				

translate

Maturity matrix => actions



Maturity matrix => actions



The User Acceptance Test in a Day

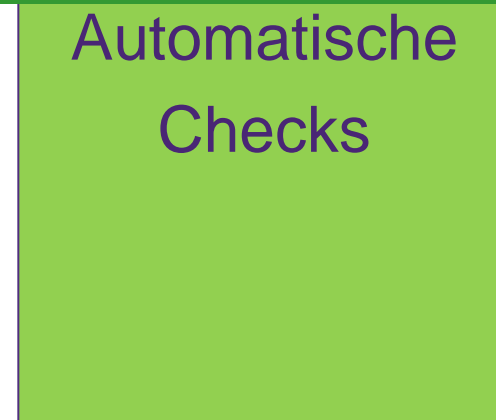
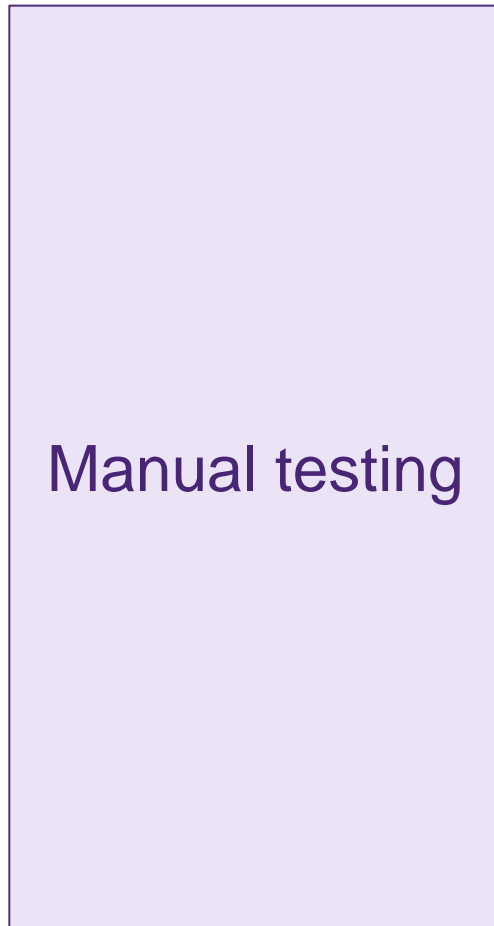
Automation

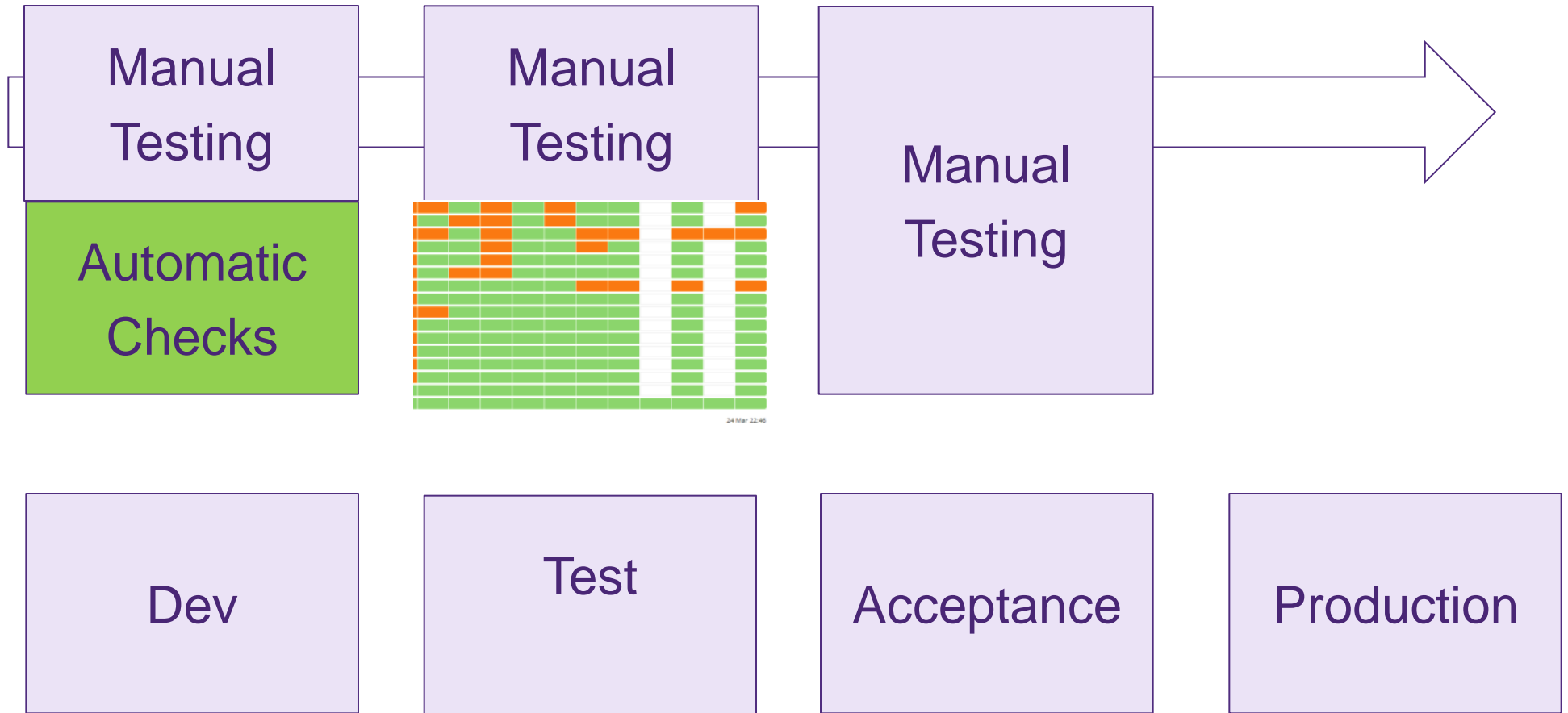
- Workshops to transition from manual testing to Living Documentation.
- Use of Persona
- External help to automate
- Run in CI
- Run in CD

Persona's regressietesten		John&Anita		Jan&Jannie		Henk&Ingrid		Piet&Griet	
		John	Anita	Jan	Jannie	Henk	Ingrid	Piet	Griet
Basisgegevens	Verhoogde inschrijving	x							
	Medeschuldenaren								
Financiële gegevens	Full time vast	x							
	Part-time tijdelijk		x						
	Zelfstandig ondernemer					x		x	
	Flexwerker						x		x
	Pensioen			x					
	WAO				x				
	Kwijting BKR								
	Personeelskorting								
Onderpandgegevens	Bestaande bouw	x							
	Verbouwing met depot					x		x	
	Nieuwbouw			x					
	Zelfbouw								
	Depot energiebesparende voorzieningen							?	
	2 onderpanden (1 met depot)								
erfpacht			x						
Type onderpand	Eensgezinswoning	x							
	Appartement			x		x		x	
Financiële gegevens	Annuïteit	x						x	
	RVP = 12 maand	x						x	
	RV = DB	x						x	

Regression testing on the acceptance environment

REGRESSIE TESTEN OP ACCEPTATIE OMGEVING





First test in the
continuous delivery
pipeline
Took us
10 weeks

Specificatie

Gegeven een bestaande aanvraag voor Persona <persona> en status "Aanvraag compleet" en Ge
Wanneer kredietacceptant offreert
Dan status aanvraag is Offerte uitgebracht

Test

Offerte Inhoudelijk Akkoord				
Geldgever	Persona	Is Aanvraag Status?	Link Naar Document?	Lening Nummer?
	Piet en Griet	Offerte uitgebracht	BLANK	1343761

Setup. more setup. more setup more, more setup, almost there, more more setup

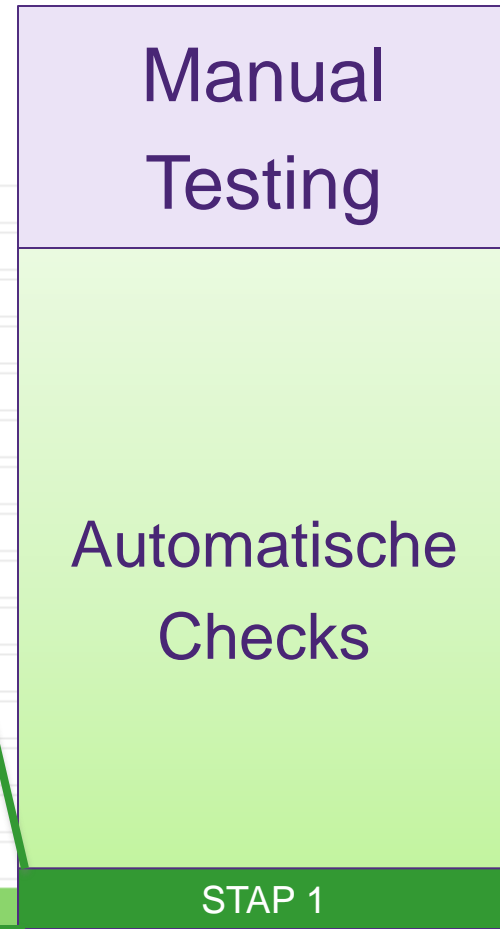
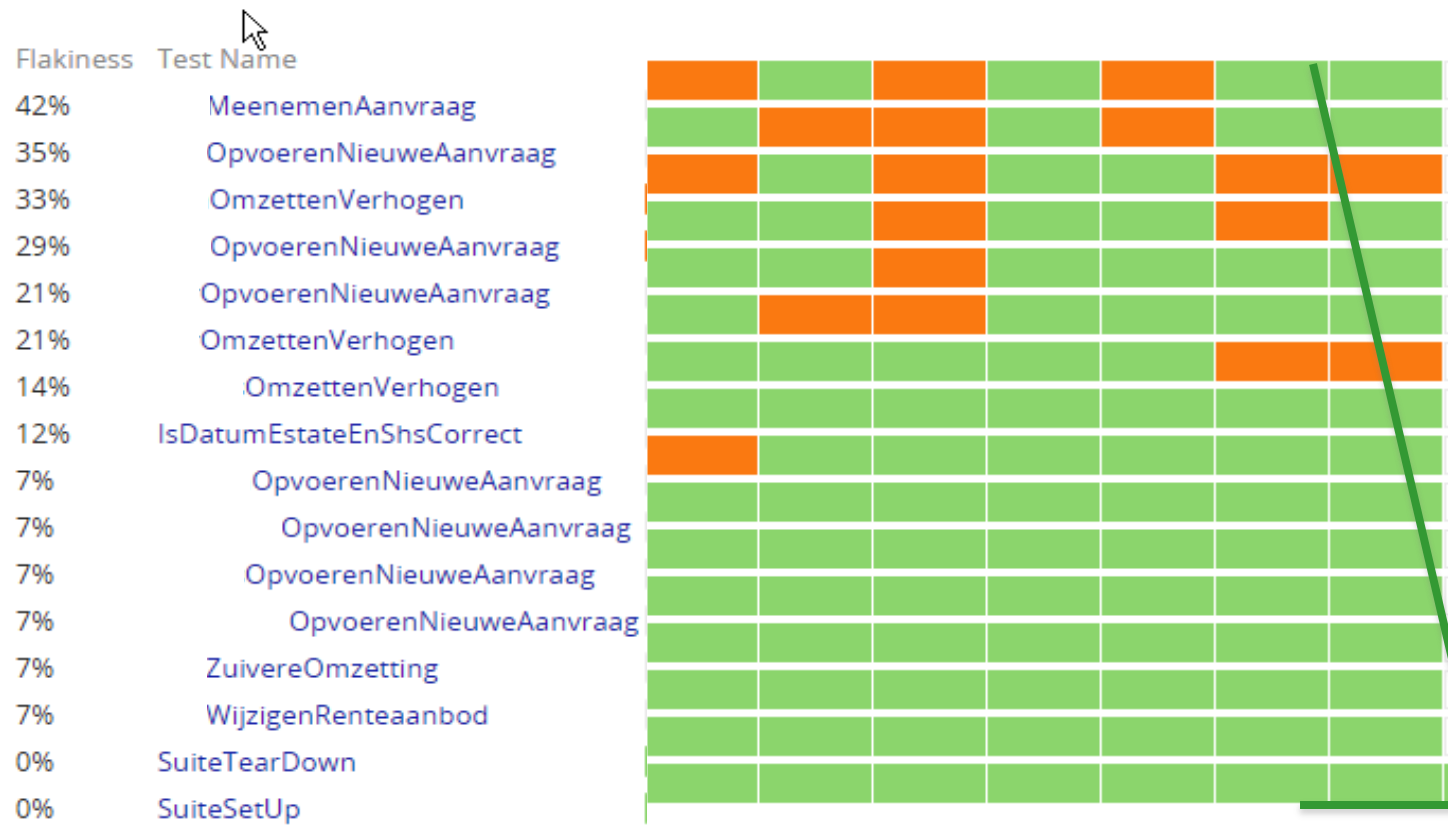
test Lening in beheer



Regression on Test environment

Flakiness overview

This report identifies the test with the most incor...
 ie test it represents.















Load more tests

24 Mar 22:46

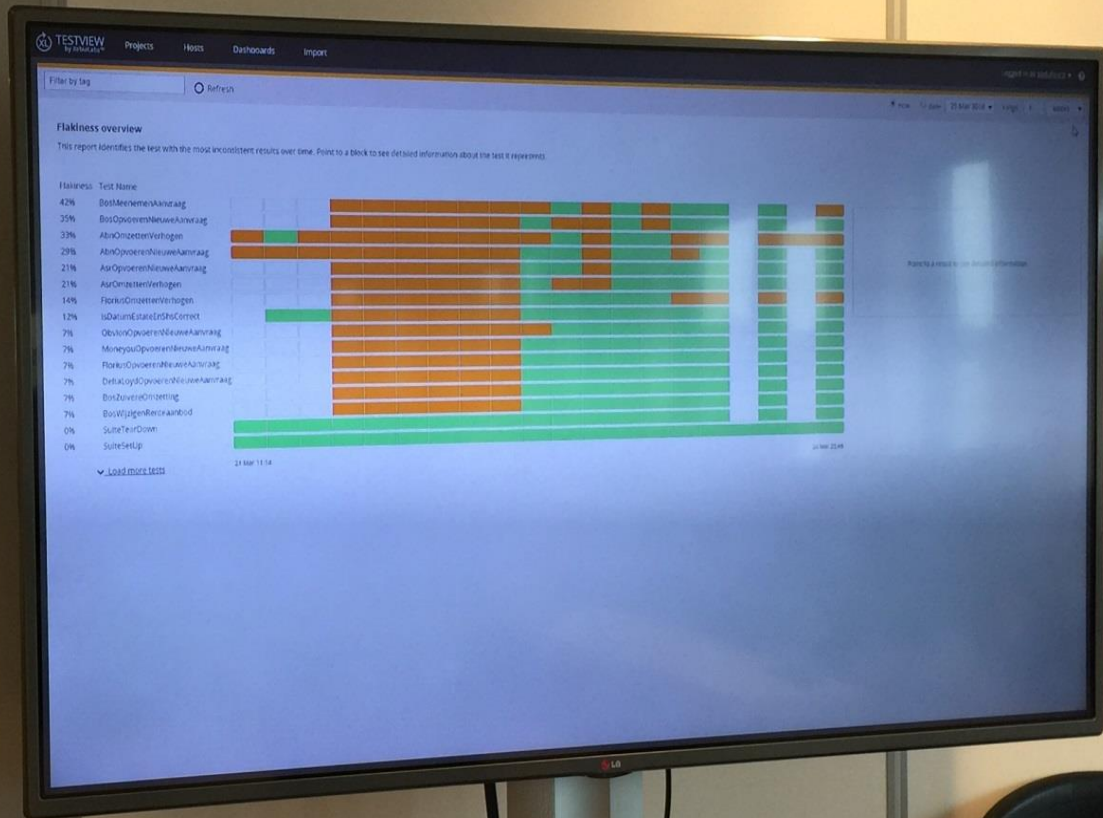
Visualise!

Status builds						
midoffice	19.5.00 😊	19.5.52 😊	19.5.54 ⚙️ 1 build actief	19.5.57 😊	20.0.00 1d 2 rood sinds: 1d 7h 5m	20.1.00 ⚙️ 1 build actief
interfaces	19.5.00 😊	19.5.52 😊	19.5.54 😊	19.5.57 😊	20.0.00 😊	20.1.00 😊

Testmonitor

TE02  Open	TE03 3d Opbouw	TE04 1 Open	TE05  Open	
TE09  Open	TE10  Opbouw	TE11  Open	TE12  Open	
TE16 2d Opbouw	TE17  Open	 TE18 19d 1 rood sinds: 19d 1h 26m	TE19  Open	
TE23  Open	TE24  Open	TE25  Open	TE26 1 Open	

Dit scherm toont de status van taken in Jenkins.

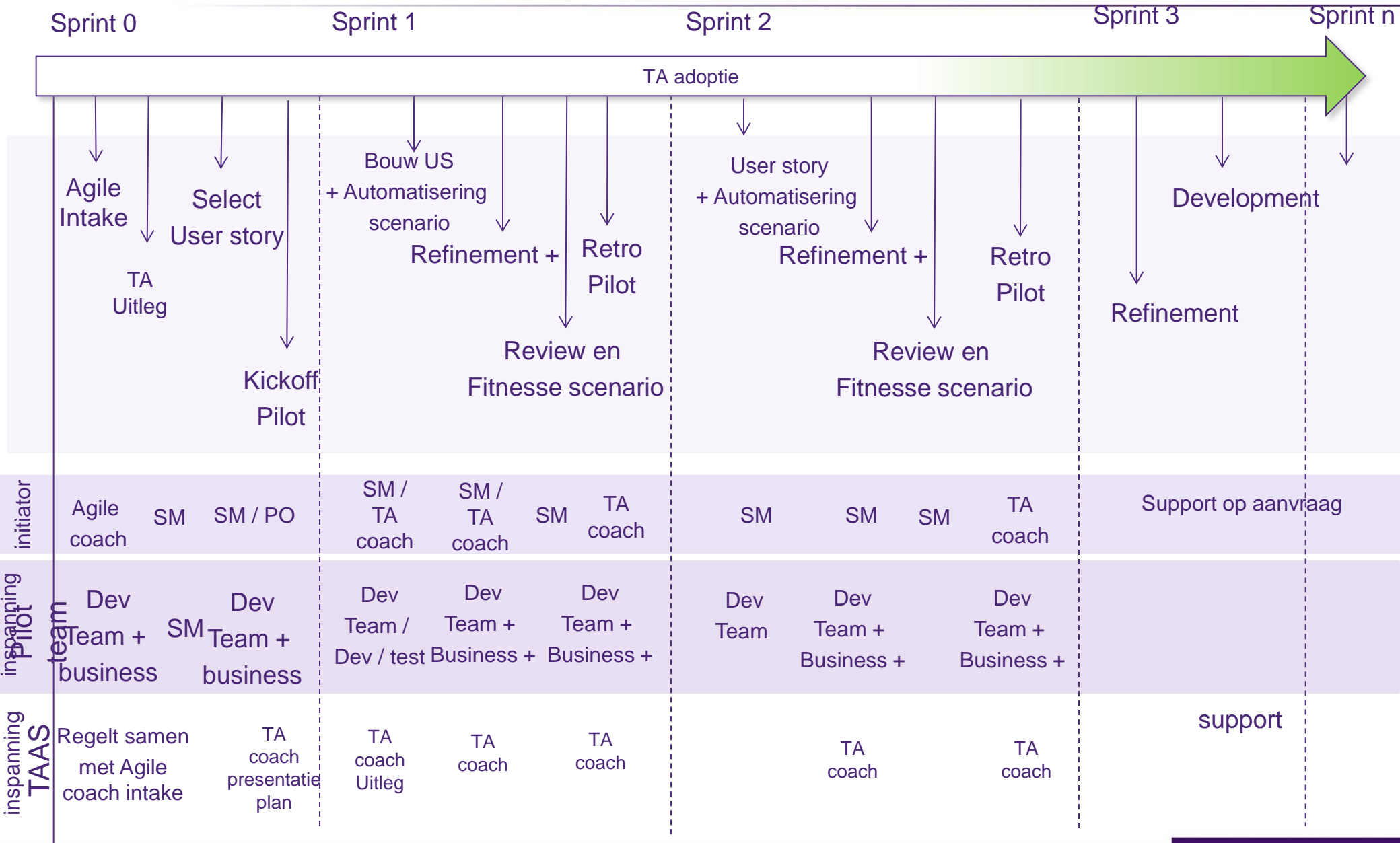


Test Automat

VALARTEPLANING 2



Test Automation 'praat[laa]t'



Deliver test environment from 1-2 weeks to 1 hour

Provisioning of servers from 1-2 days to 30 minutes

Deploying software from 1-2 weeks to 30 minutes

Integration from 2 months to 30 minutes

- Everyone training
- Wait until someone wants to start
- One coach
- Community of practice with “junior”
- Bottom up approach
- Ownership of Test automation in one team
- If time permits the team can pick it up
- Wait to be asked to try automation
- Automation is not easy
- Design patterns also apply for test code
- “Real” developer needed
- Agile mindset is not easy

What works for Stater

- Pilot teams “3 sprints”
- Open community
- Walk in sessions
- Training while being coached
- Discuss guidelines
- Sonar
- Development skills needed
- Place improvement on the backlog (20%)
- Start with a picture
- Don't tell them how to automate, explain what automation can do for you.
- Test automation is very useable to accelerate your manual testing
- Business/OPS at the driver seat
- Checks for the CD pipeline
- Support by management

VISIBILITY



- Extending the test coverage of automated test
- More teams using test automation.
- More ATDD
- Not all testers are developers.
- Collaborative code ownership
- OPS in the agile teams

Question?