

# Test Automation on Web Applications

**PSTQB Sessions**

Beginners guide to Automated Tests

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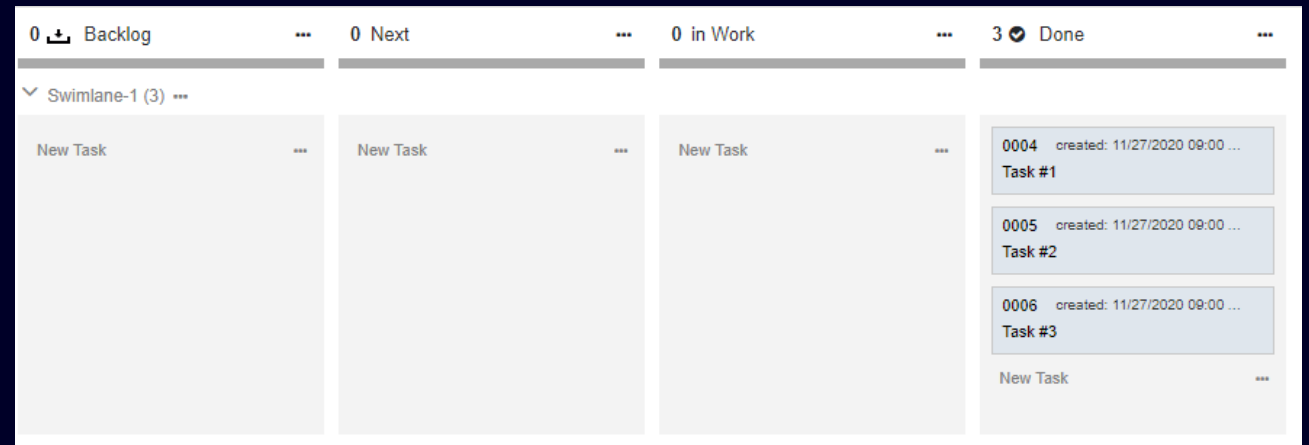
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# What

Data driven test cases  
Finished Work Packages  
SaaS Solution  
Customization



# Use Case #1

Field	Rule
Name	Optional
Username	Mandatory Unique Accepts uppercase and lowercase letters A to Z and a to z Accepts digits 0 to 9, provided that top-level domain names are not all-numeric Accepts hyphen -, provided that it is not the first or last character
Password	Mandatory Must have uppercase and lowercase character Must have a digit 0 to 9 Must have a printable character (!#\$%&'*+,-/=/?^_`{ }~)
Terms and Conditions	Mandatory Modal must be opened Checkbox must be checked

# Use Case #1

Name	Username	Password	Terms and Conditions
John	JohnRambo	FirstBlood82!	Terms are read and checkbox is ticked
Empty	johnrambo	firstblood82!	Terms are read and checkbox is not ticked
	johnrambo1	FirstBlood!	Terms are not read and checkbox is ticked
	johnrambo-1	FirstBlood82	Terms are not read and checkbox is not ticked
	-johnrambo	Empty	
	johnrambo-		
	johnrambo!		
	Empty		

Let's Count

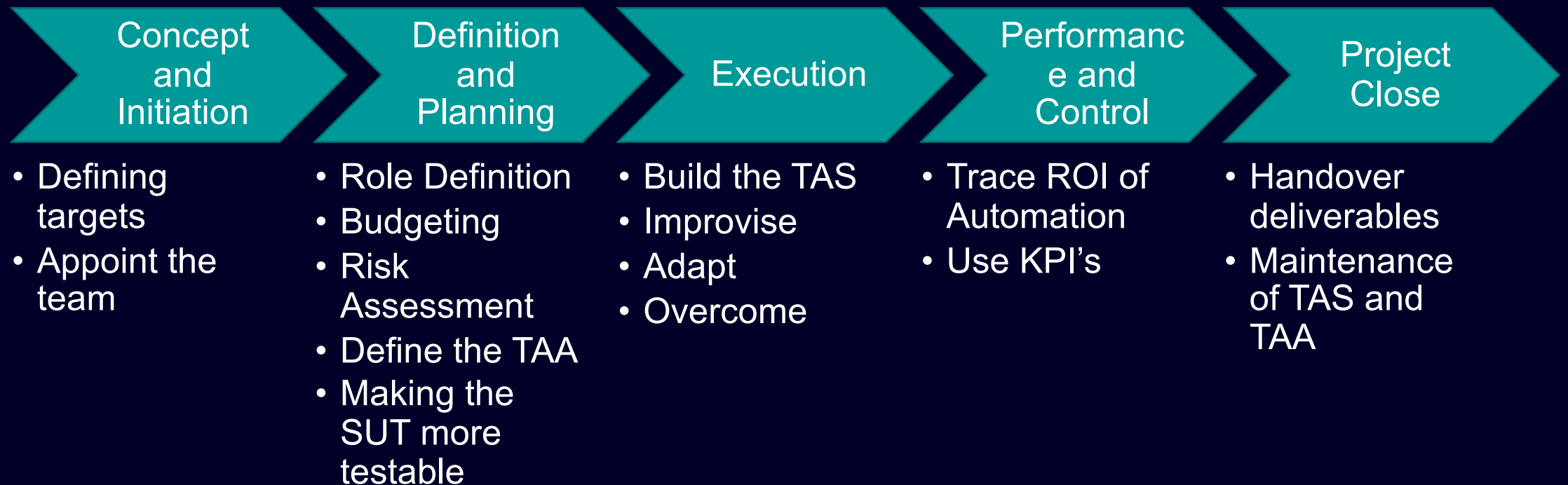
320

Test Scenarios



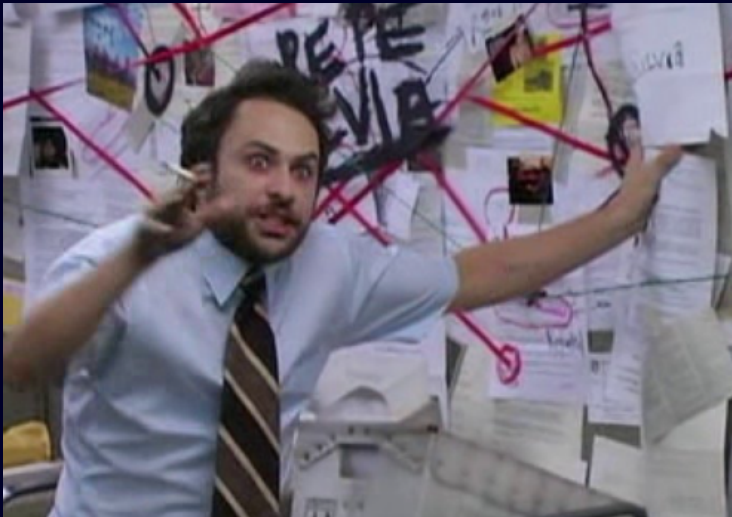


# When

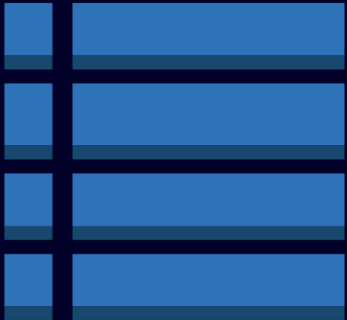


# How

Proof of Concept  
Capture and Playback  
Linear  
Structured  
Data Driven  
Never stop improving



```
driver.get("https://demoqa.com/text-box");  
driver.manage().window().fullscreen();  
driver.findElement(By.id("userName")).sendKeys("Big Bird");
```





# Proof of Concept

How testable by Automation the SUT is

Stability of the SUT

Tool Selection

Early Metrics

- Effort to build automated tests
- Effort to maintain automated tests
- Effort to execute tests manually
- ROI for Test Automation

# Test Automation Software

Time for a quick 1 question survey, go to [menti.com](https://menti.com)  
and use the code 55 43 35 4

# Free VS Paid Solutions

## Free

Low initial cost  
Requires more coding knowledge  
Community based support  
Usually limited to one technology  
A good starting point for PoC

## Paid

License costs  
User Friendly  
Official support  
Support for several technologies

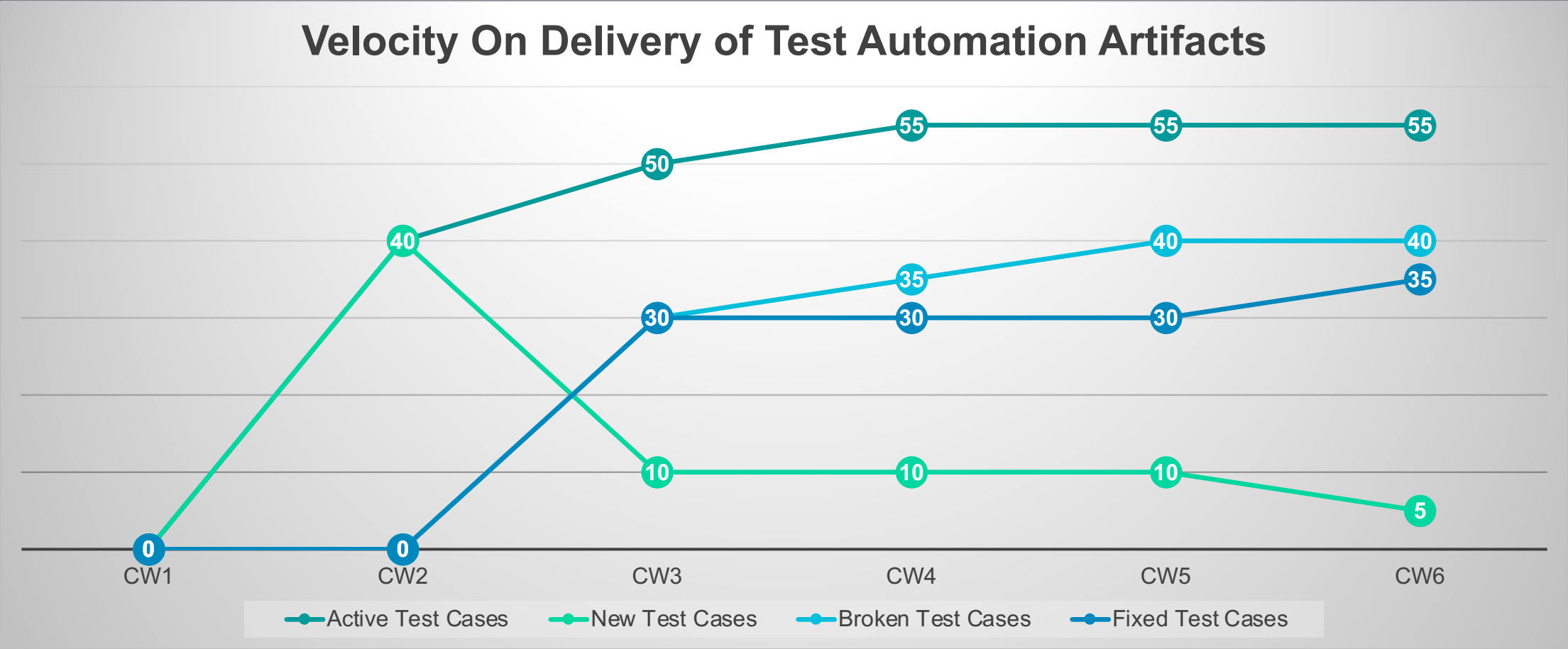
- SAP
- Web Portal
- .Net

Ready to use

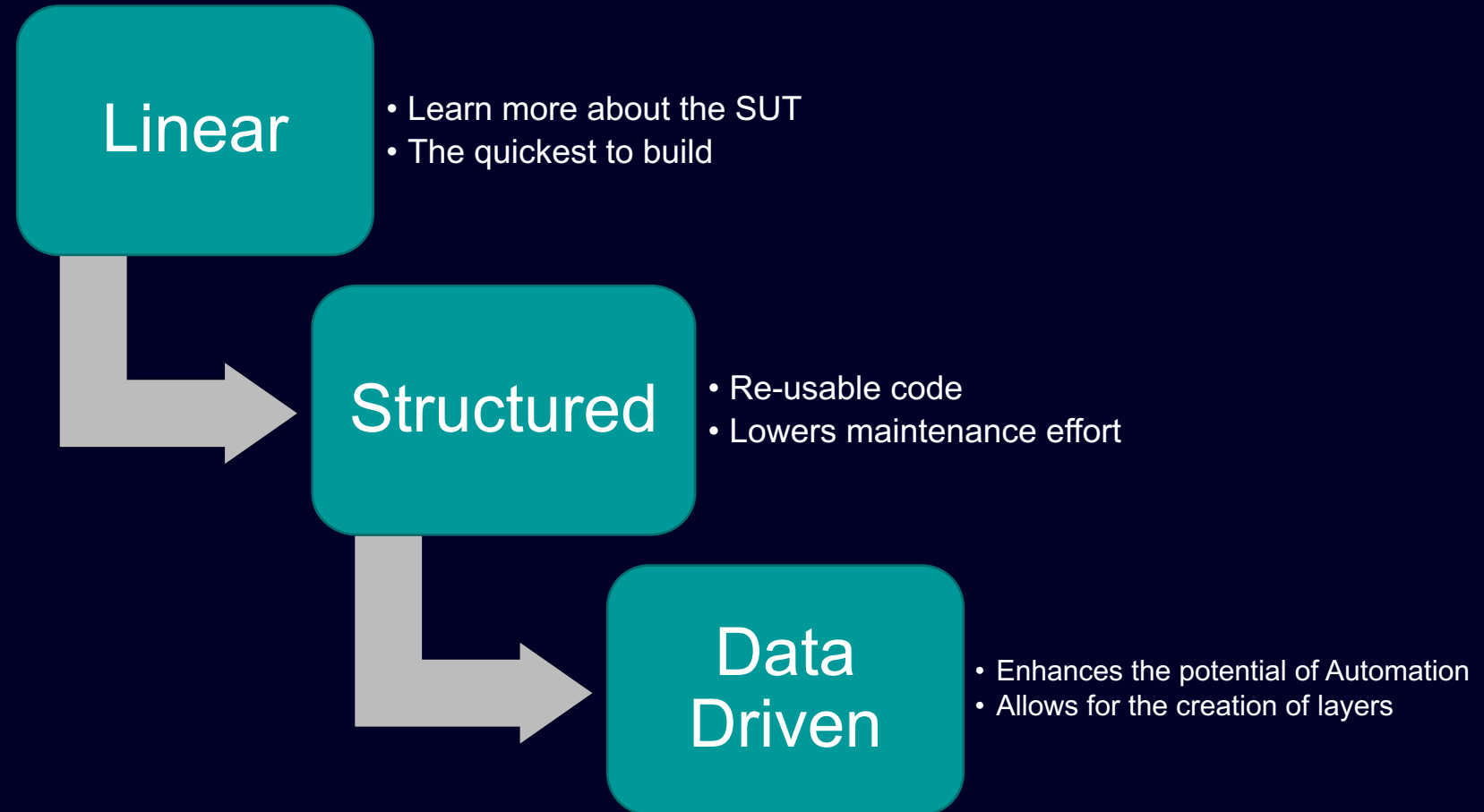
# | Selenium IDE

Let's get to work 😊

# Selenium IDE - Velocity



# Selenium WebDriver





## Prerequisites for this Project

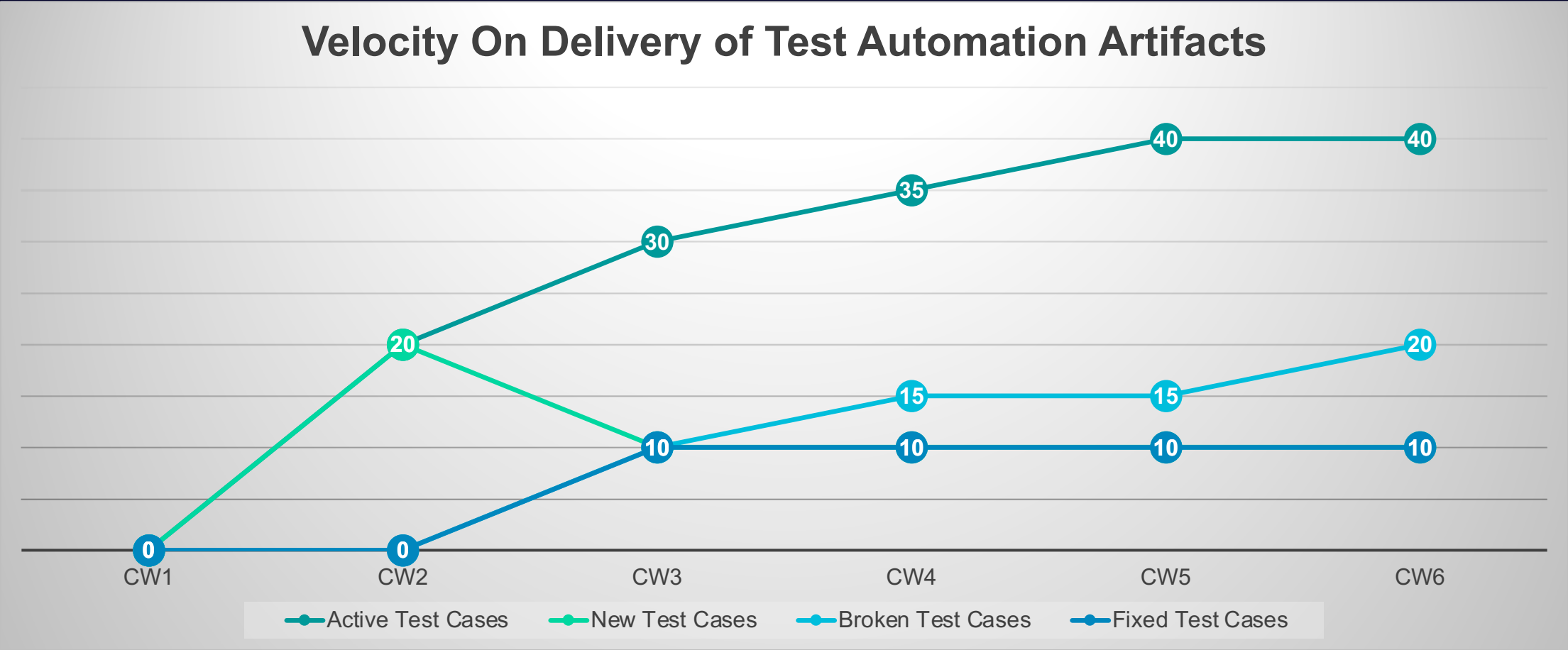
IDE  
JDK  
Maven



# | Linear Approach

<https://github.com/marionobre/testautomation>

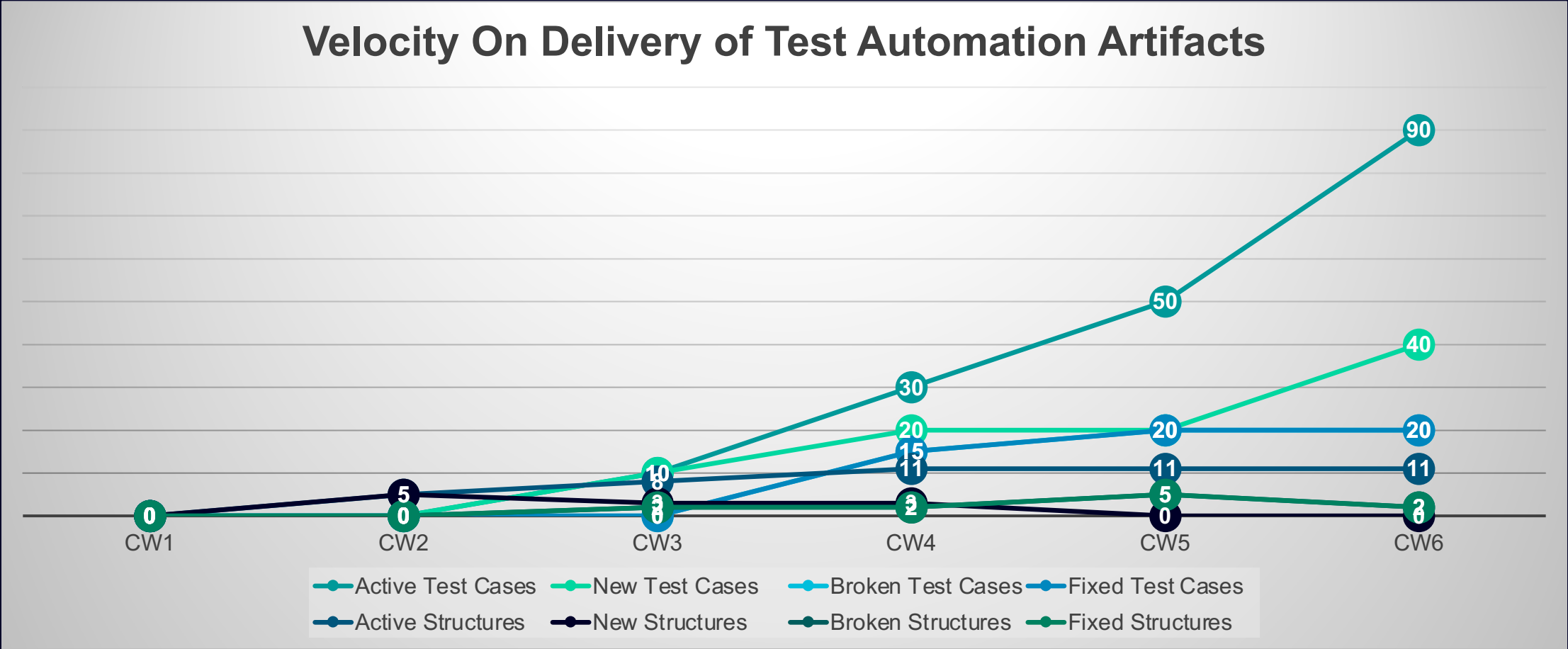
# Linear Approach - Velocity



# | Structured Approach

<https://github.com/marionobre/testautomation>

# Structured Approach- Velocity

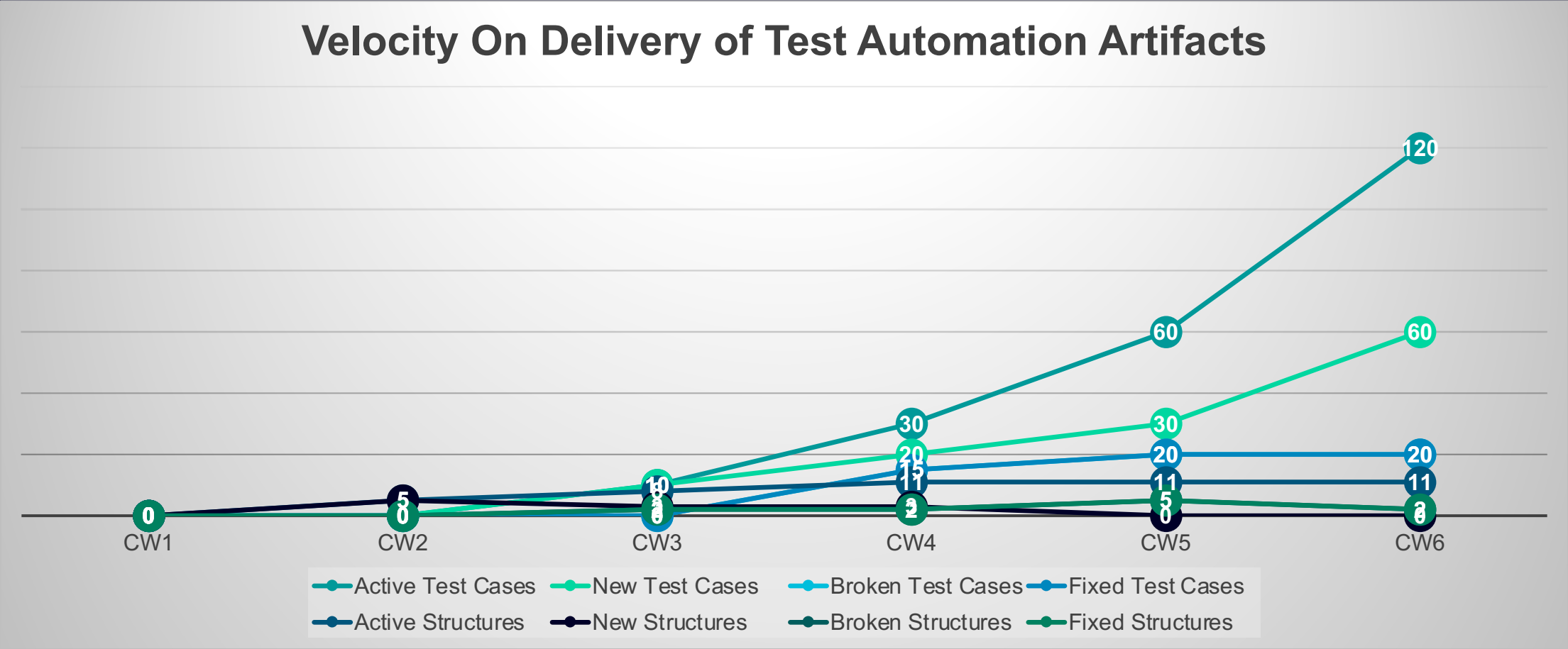


# | Data Driven Approach

<https://github.com/marionobre/testautomation>



# Data Driven Approach- Velocity



# | Contact

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# Disclaimer

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# Glossary

- KPI – Key Performance Indicators
- ROI – Return of Investment
- SUT – System under test
- TAA – Test Automation Architecture
- TAS – Test Automation Solution