

Agile Dev Better Software DevOps **WEST**

A TECHWELL EVENT

DT7

Non-Functional Testing for DevOps
Thursday, June 7th, 2018, 3:00 PM

Aligning Zero-Touch Nonfunctional Testing in DevOps Implementation

Presented by:

Subash Newton
HCI Technologies

Brought to you by:



350 Corporate Way, Suite 400, Orange Park, FL 32073
888-268-8770 · 904-278-0524 - info@techwell.com - <https://www.techwell.com/>

Subash Newton

HCL Technologies

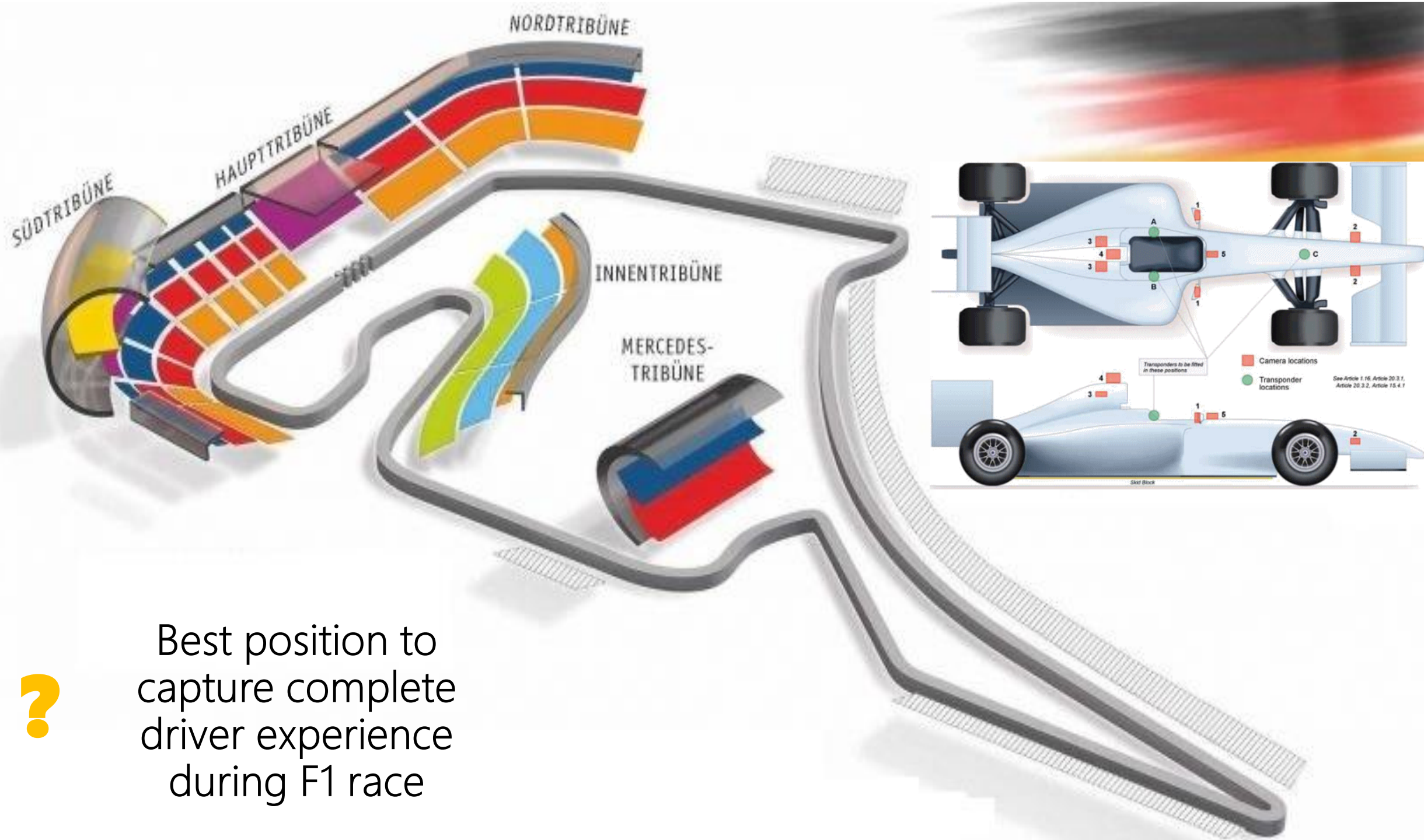
Subash Newton is a creative, results-driven, seasoned technology leader with around twenty years of proven IT industry experience. He specializes in architecting and providing technical solutions and delivery management for in-house and globally distributed customer environments. He currently holds the role of Practice Head—Specialized Testing with HCL Technologies, heading the nonfunctional testing and digital assurance portfolio. Aligning to market trends, Subash focuses mo



ZERO TOUCH

Non-Functional Testing!

In DevOps



Best position to capture complete driver experience during F1 race



“Let’s face it: Agile & DevOps is a fact of life. It is the super glue that binds together and non-functional testing is right at the center when we talk about scalability, availability, security, accessibility and predictability”

Without having an automated NFT strategy, we cannot catch up with Devops.



Workload Analysis

Load Scripting

Execution Schedules

Monitoring & Analysis



Threat Modelling

SAST & DAST

False positive analysis

Threat Classification & Reporting



Compliance Assessment

Accessibility Assessments

Analysis and Reporting

“How much automation can be done?”

“How fast should I complete?”

“What to do with Manual tasks?”



100% Automation

What challenges do we face

TYPICAL CHALLENGES

A graphic showing several blue silhouettes of people running or walking in a line, positioned behind the word 'CHALLENGES' in the title.

- Developers vs Testers
- Story changes
- Timelines
- Number of Tests
- Continuous feedback
- Compliance and roadblocks
- Tool diversity
- Skilled Resources





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Where do we start
&
What needs to be
automated



1

Auto Discovery

Req. changes | Code changes
Test Needs | Test Suites

2

SINGLE ASSET

Create single asset |
Execute once | Capture
all functional and non
functional metrics



3

REUSABLE

Use existing assets for creating other assets automatically

Build flexible and scalable assets for reuse across sprints and releases



Application Delivery

4

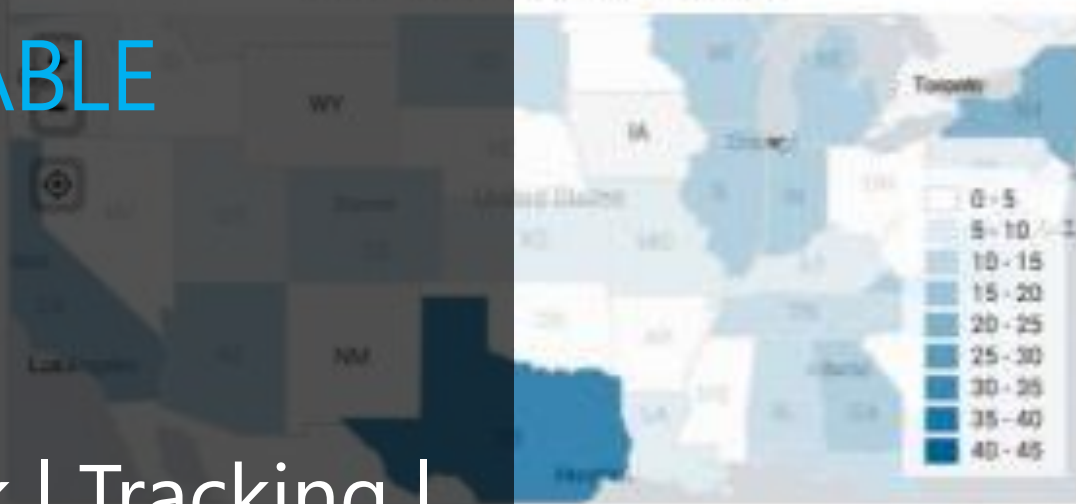
MEASURABLE



Operational Intelligence Carousel

Failed Transactions Security Events WebStore Map Customer Sentiment Weather

WebStore Sales by State (in thousands)



IT Operations



Speed | Feedback | Tracking | Auto Analysis | Optimization

Security

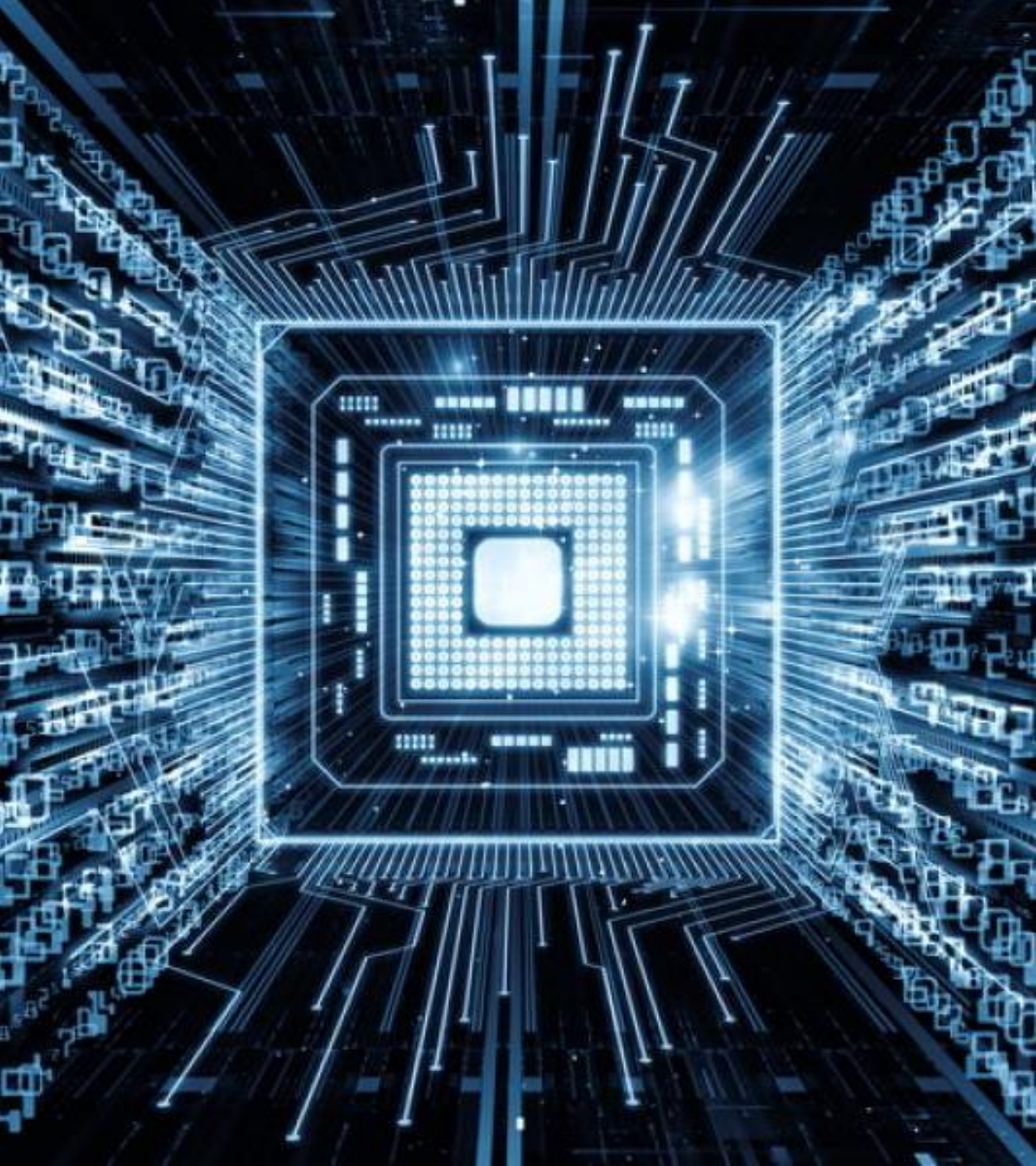


Business Analytics



Internet of Things





5

TOOL, TECHNOLOGY & RESOURCE AGNOSTIC

Tool agnostic frameworks | Technology independent assets | Open for use by anybody | Easy to understand | No coding need

Journey towards Zero Touch Automation

1

Auto Discovery

2

Single Asset

3

Reusable

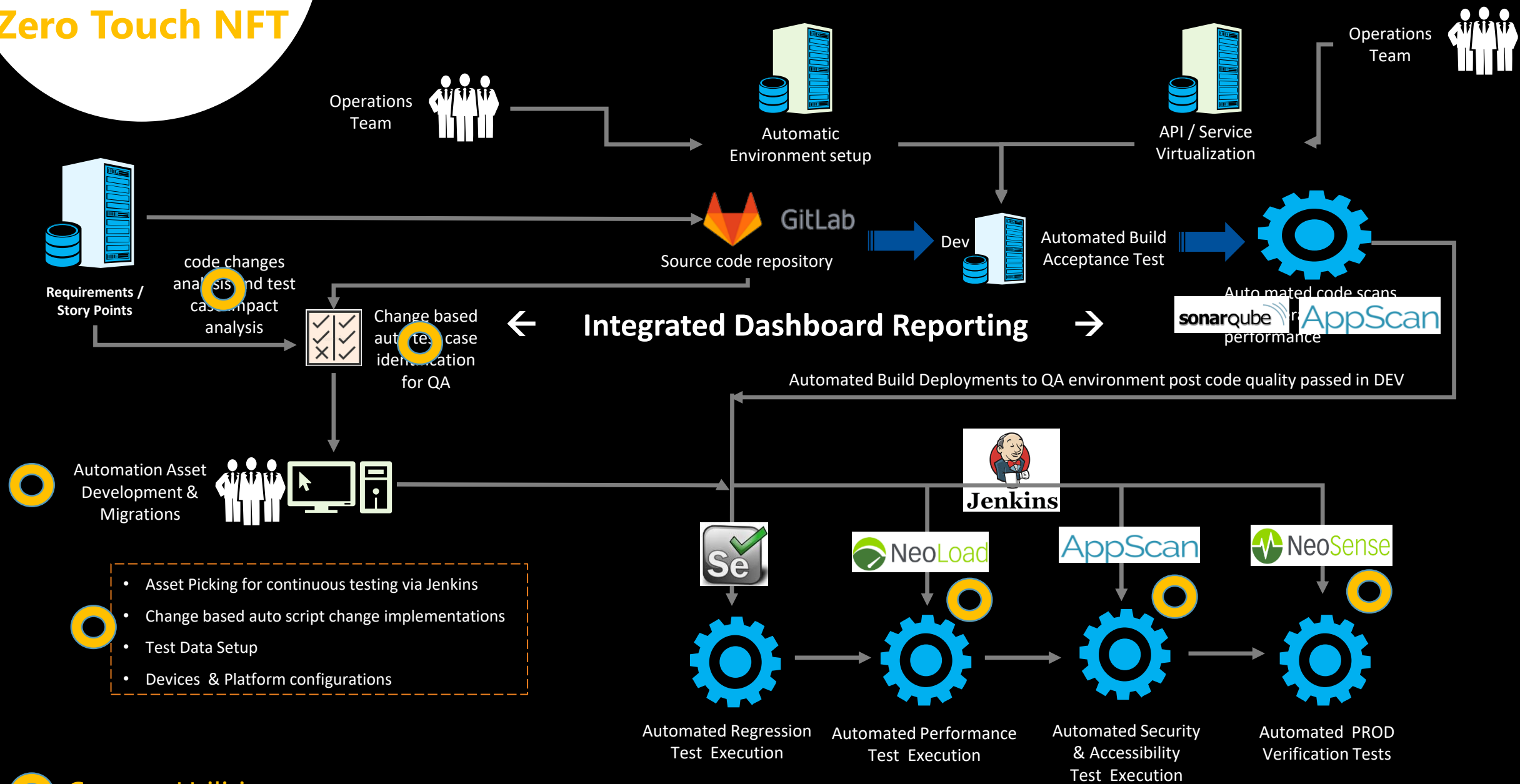
4

Measurable

5

Tool, Technology
& Resource
Agnostic

Aligning to Zero Touch NFT



 **Custom Utilities**



Q&A

Subash.Newton@hcl.com

LinkedIn : <https://in.linkedin.com/in/Subash-Newton>



Subash Newton

THANK YOU