



W9

Test Automation

Wednesday, May 2nd, 2018

1:45 PM

Continuous Testing vs. Test Automation: Three Key Differences

Presented by:

Wayne Ariola

Tricentis

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Wayne Ariola


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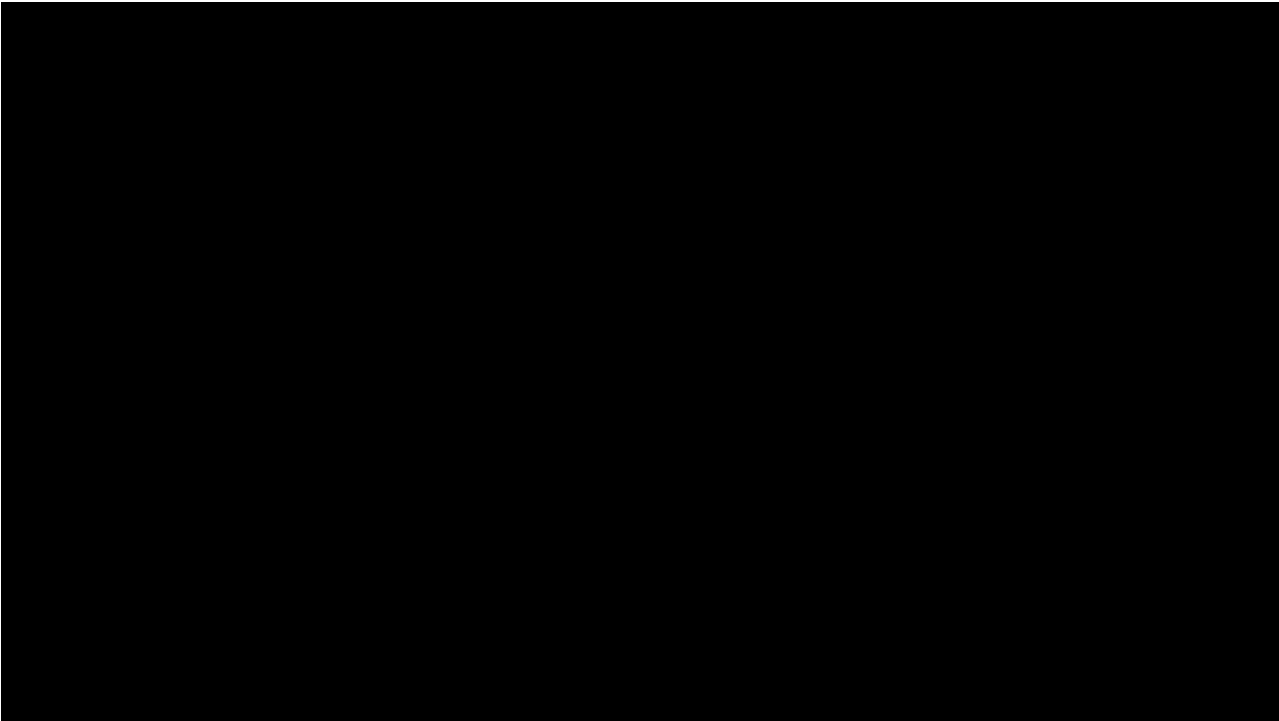
Known for his efforts to promote continuous testing, Wayne Ariola has contributed to the design of many innovative technologies and received several patents for his inventions. A recognized leader on topics such as service virtualization, SOA and API quality, software quality governance, and application security, Wayne is a frequent contributor to industry publications and author of Continuous Testing for IT Leaders. He has been a contributor to software testing for fifteen years and in the software industry for more than twenty.



Continuous Testing v. Test Automation

Wayne Ariola

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Agenda

- 1 What has Changed?
- 2 The three differences with **Continuous Testing**
- 3 Testing at the **Speed of DevOps**

How would you rate the success of test automation...

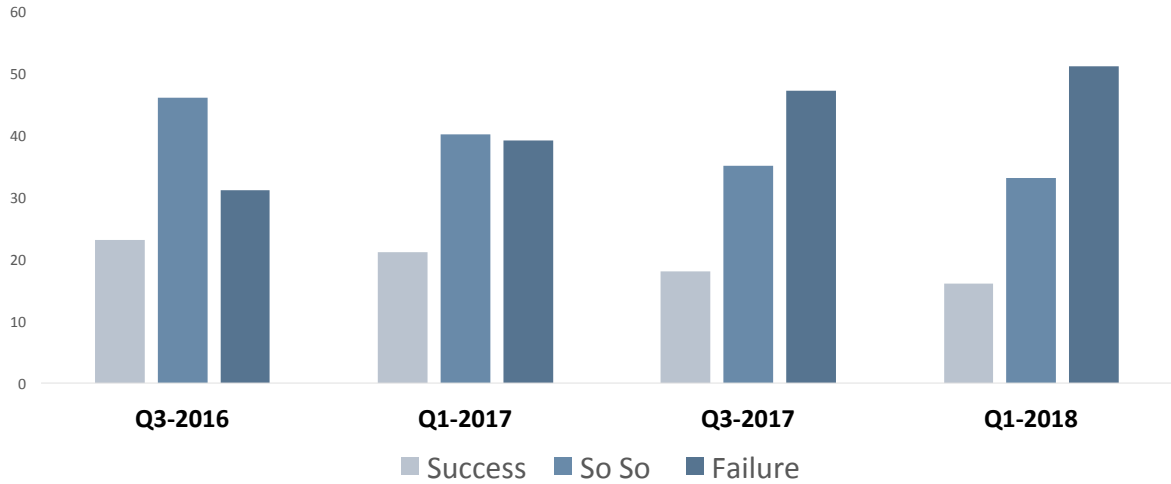
a **success story**

so so

a **failure**

?

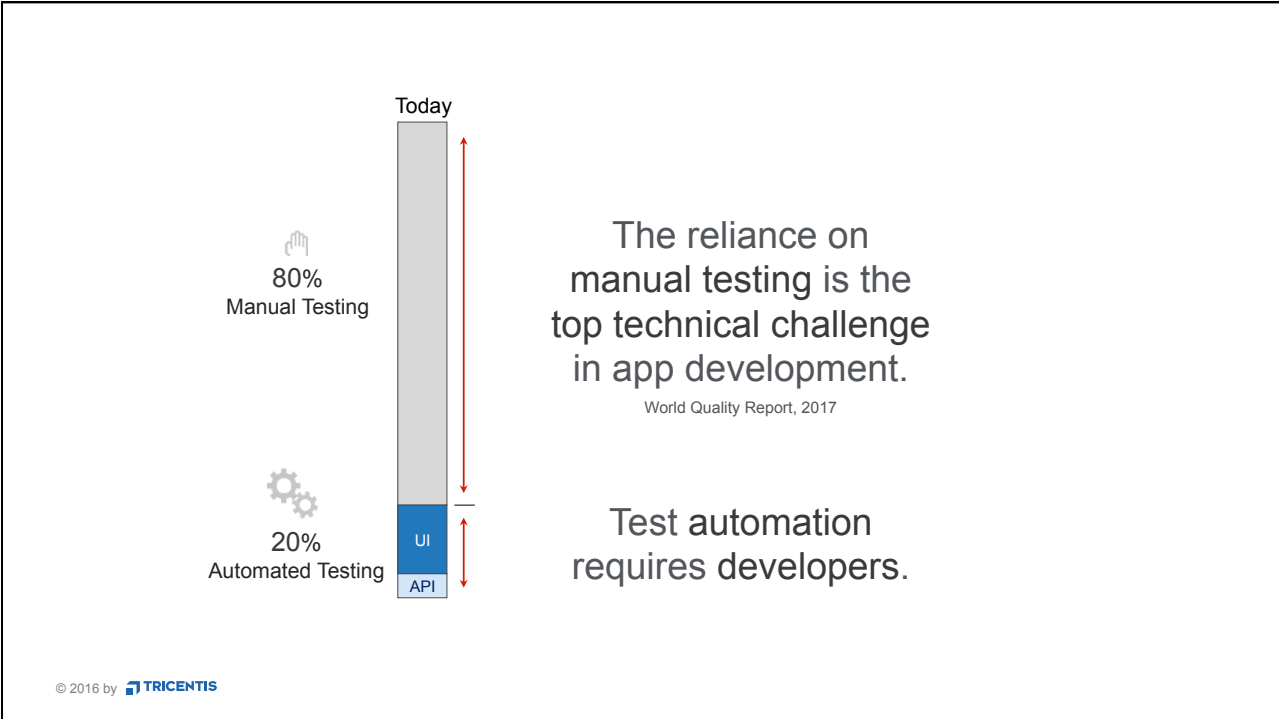
Rate the Success of Test Automation...



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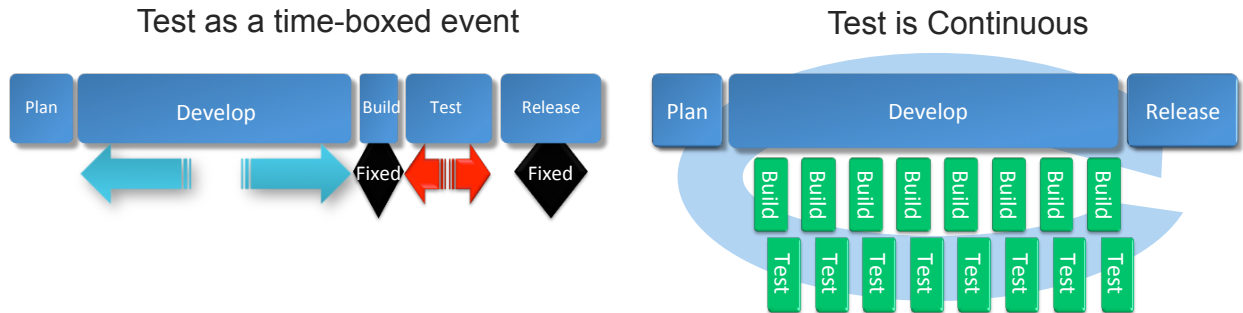
Test automation has not kept its promises.

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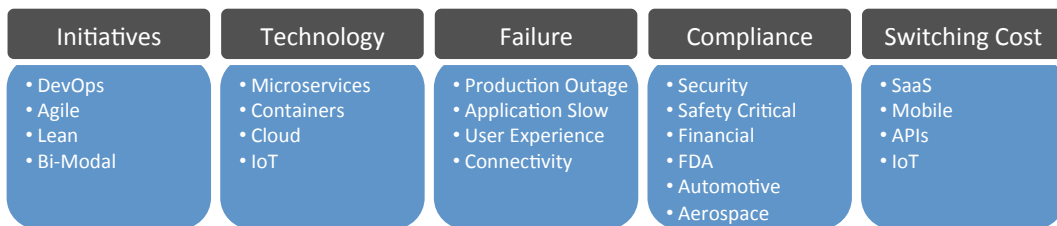


Process



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Technology and Disruption



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Top Tier Vendors



HPE Strategy Clear As Mud

<http://it-tna.com/2016/09/28/hpe-strategy-clear-as-mud/>

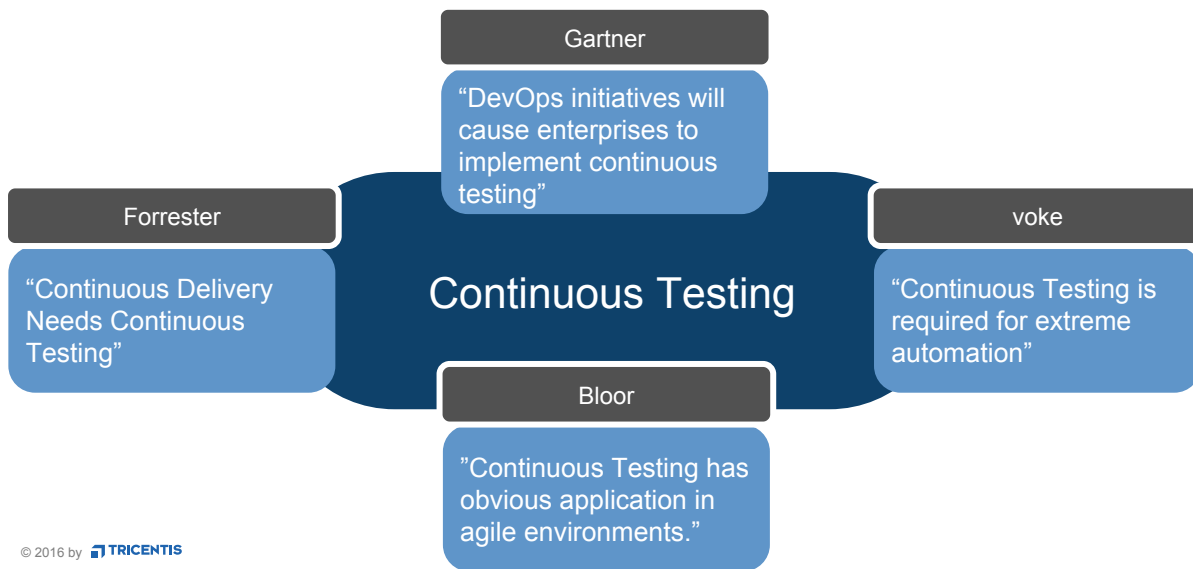
IBM Punts Development to HCL

http://www.theregister.co.uk/2016/10/03/ibm_hcl_software_outsourcing_deal/

Tricentis Delivering Continuous Testing at the Speed of DevOps

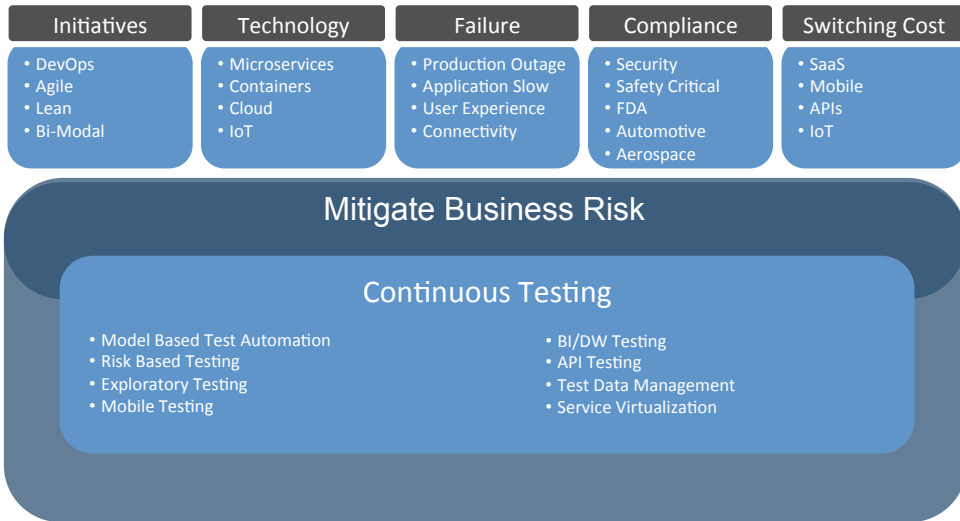
Source: Gartner (November 2017)

Analysts Align



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The Perfect Storm – Digital Disruption



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3 Key Differences Continuous Testing v. Test Automation

Wayne Ariola

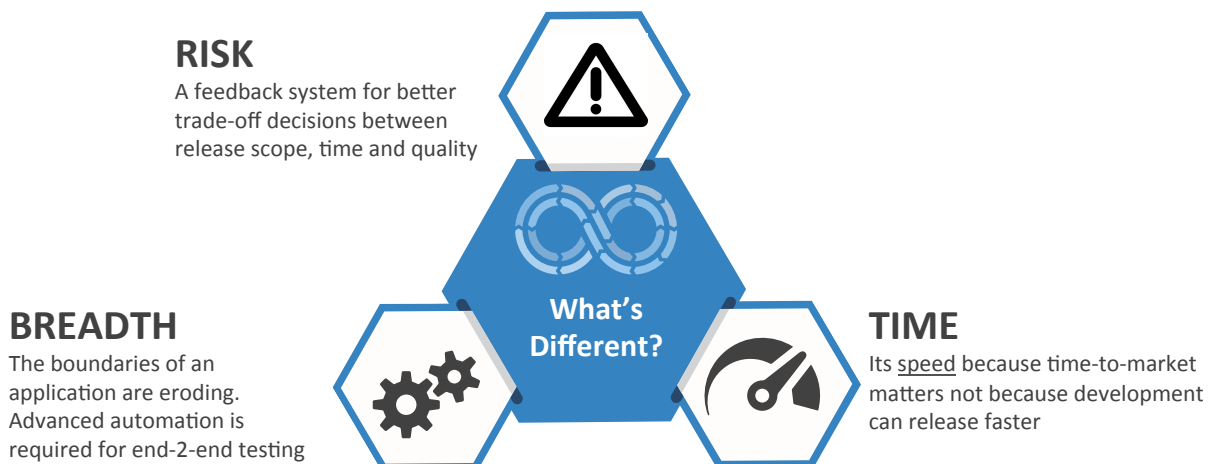
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What is Continuous Testing

Continuous testing is the process of executing automated tests as part of the software delivery pipeline in order to obtain feedback on the business risks associated with a software release candidate as rapidly as possible.

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Continuous Testing – What's Different?

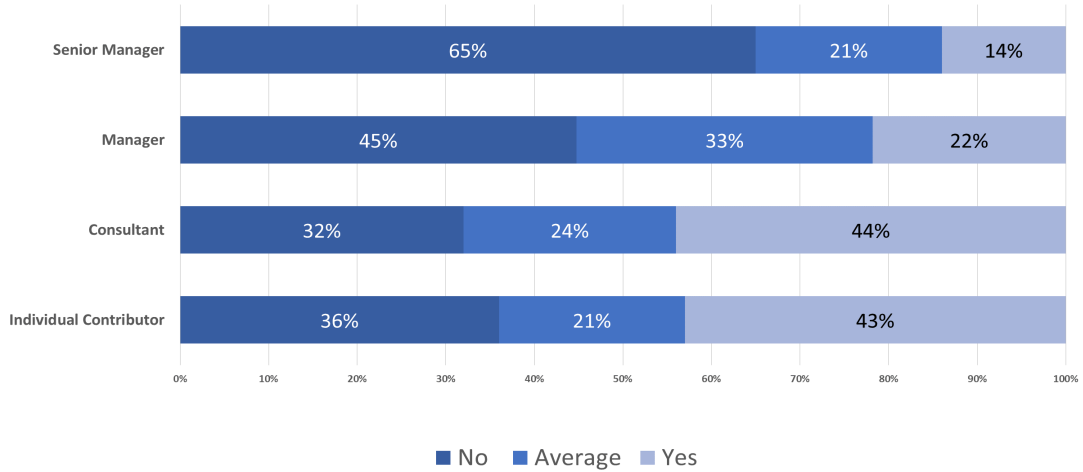


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Survey on Risk

2017 Survey on the Future Role of the Tester <https://www.surveymonkey.com/r/SWB7F3Q>

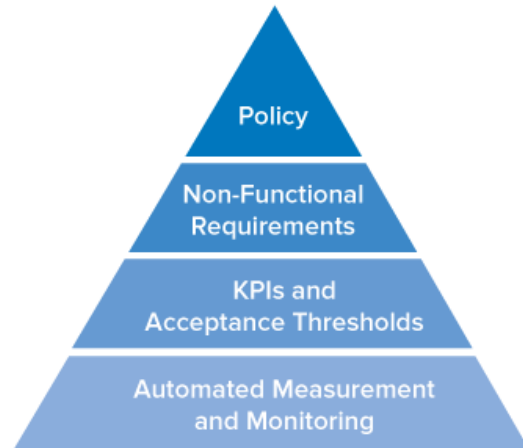
Do Tests Accurately Reflect Business Risk?



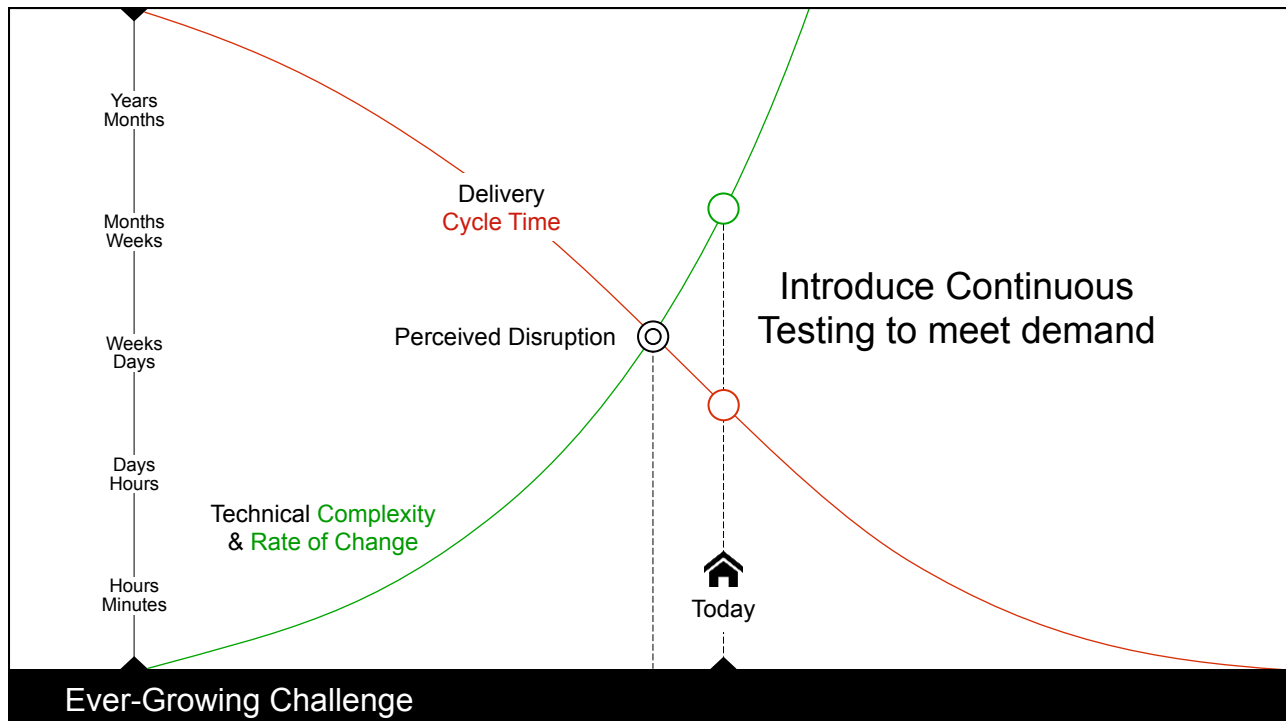
Does the release candidate have an acceptable level of risk?

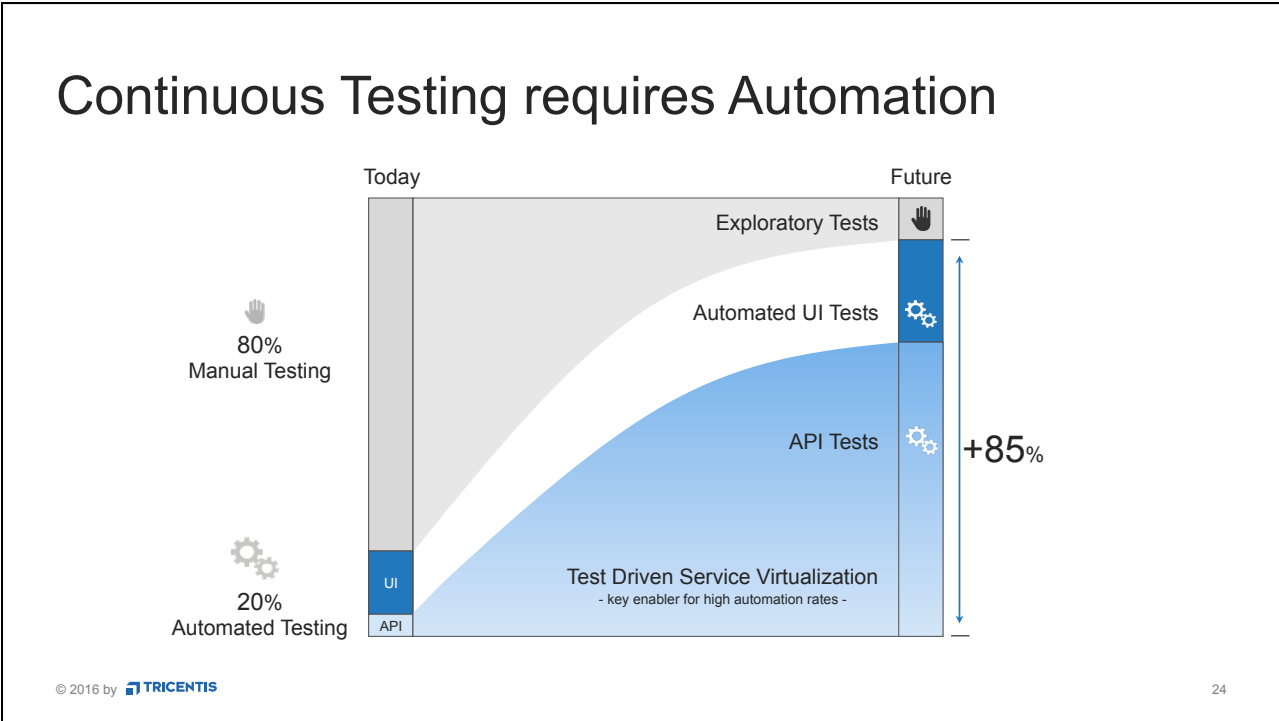
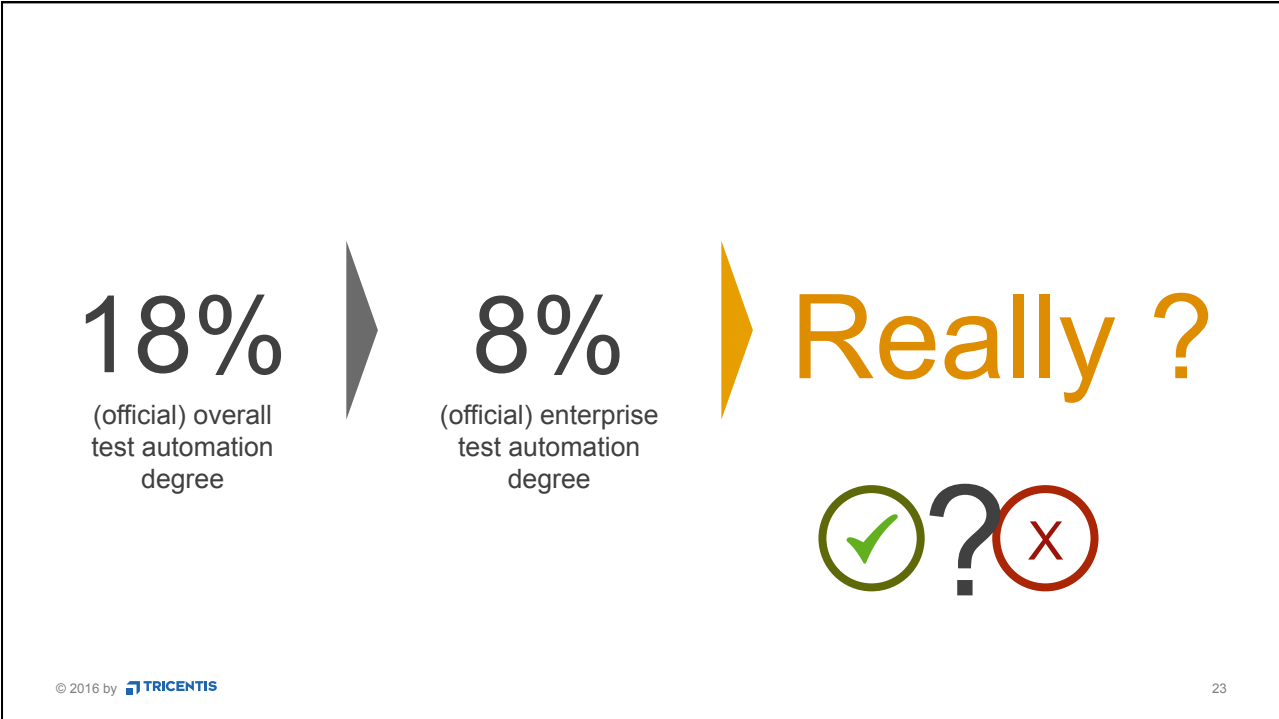
How to Achieve Quality @ Speed

- Business risks drive quality activities
- Teams collaborate on risk definition
- Risk definition drives test case design
- Execution prioritized per risk definition
- Acceptance criteria visible and measured
- Results of quality activities are visible and translated for all levels of business



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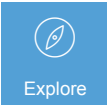
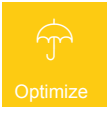







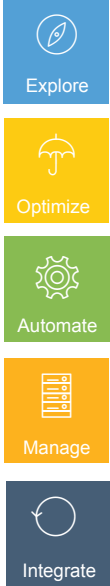
Key Testing Practices for Continuous Testing

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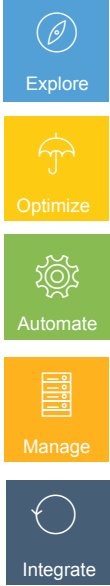
-  Explore Session Based Exploratory Testing
-  Optimize Risk Based Prioritization
Test Case Design
-  Automate UI- and API based test automation
-  Manage Active Test Data Management
Test Driven Service Virtualization
-  Integrate CT Integration (CI, CD)

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Introduce Session Based Exploratory Testing

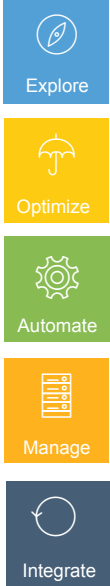
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Session Based Exploratory Testing

All testing starts with a Risk Based Prioritization

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The diagram consists of five vertically stacked colored squares, each containing an icon and a label: a blue square with a leaf icon labeled 'Explore', a yellow square with an umbrella icon labeled 'Optimize', a green square with a gear icon labeled 'Automate', an orange square with a list icon labeled 'Manage', and a dark blue square with a circular arrow icon labeled 'Integrate'.


Session Based Exploratory Testing


Risk Based Prioritization
Optimize your risk coverage: Test Case Design

Automate

Manage

Integrate

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The diagram consists of five vertically stacked colored squares, each containing an icon and a label: a blue square with a leaf icon labeled 'Explore', a yellow square with an umbrella icon labeled 'Optimize', a green square with a gear icon labeled 'Automate', an orange square with a list icon labeled 'Manage', and a dark blue square with a circular arrow icon labeled 'Integrate'.

Session Based Exploratory Testing


Risk Based Prioritization
Test Case Design

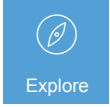
UI- and API based test automation

Automate

Manage

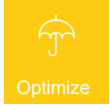
Integrate

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Explore

Session Based Exploratory Testing



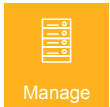
Optimize

Risk Based Prioritization
Test Case Design




Automate

UI- and API based test automation




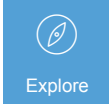
Manage

Prevent false+: Active Test Data Management



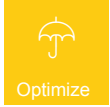
Integrate

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Explore

Session Based Exploratory Testing



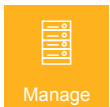
Optimize

Risk Based Prioritization
Test Case Design



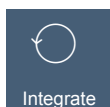
Automate

UI- and API based test automation




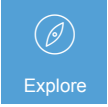
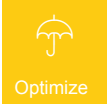


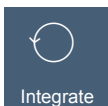
Manage


Active Test Data Management
**Provide stable infrastructure: Test Driven Service
Virtualization**

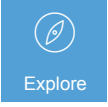
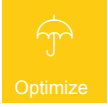






Integrate

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-  Session Based Exploratory Testing
-  Risk Based Prioritization
Test Case Design
-  UI- and API based test automation
-  Active Test Data Management
Test Driven Service Virtualization
-  CT Integration (CI, CD)

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-  Session Based Exploratory Testing
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-  UI- and API based test automation
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Key Points of Continuous Testing

<https://www.tricentis.com/what-is-continuous-testing/>



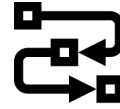
- Primary goal is assessing business risk coverage



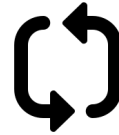
- Establishes a safety net that helps the team protect the user



- Always on, stable test environment



- Seamlessly integrated into the software delivery pipeline and DevOps toolchain



- Delivers actionable feedback appropriate for each stage of the delivery pipeline

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Q&A

- Continuous Testing vs Test Automation Paper
<https://www.tricentis.com/resource-assets/continuous-testing-vs-test-automation/>
- What is Continuous Testing (w/ 14 Key Points)
<https://www.tricentis.com/what-is-continuous-testing/>
- Survey – The Role of "Tester" in the New Digital Age
<https://www.surveymonkey.com/r/SWB7F3Q>

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