

Where Testers & QA Fit in the Story of DevOps

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February 22nd, 2017

HOW TO WATCH THIS WEBINAR



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MAXIMIZING THE PRESENTATION



Click the icon in the top right of the presentation to make the slides full screen.



HOUSEKEEPING



- This webinar will be recorded and available on-demand tomorrow. You will get an email when it is available.
- Join the conversation on Twitter using the hashtag **#DevOpsTesting**
- Use the Q&A widgets to ask questions during the webinar.
- At the end of the webinar, you will be asked to take a short survey.

NEED TO LEAVE EARLY?

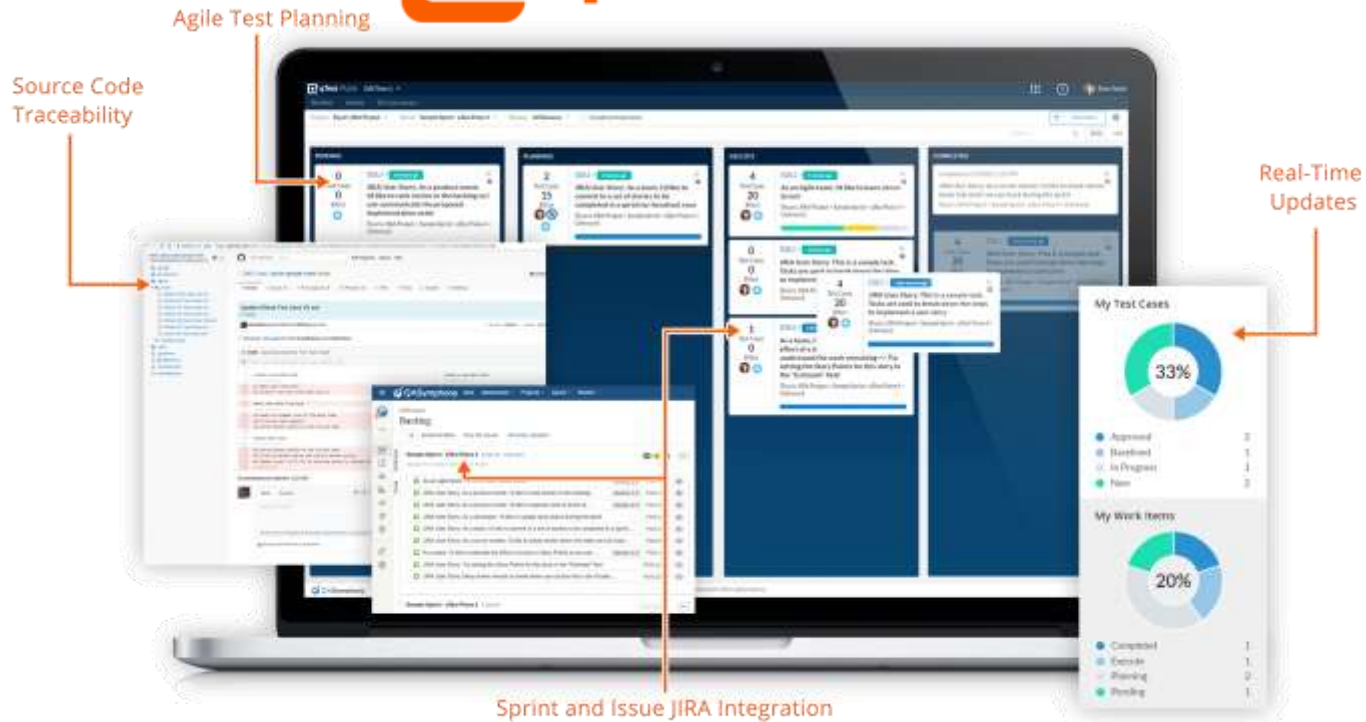


Survey

Webinar Survey

Answer these questions to provide your feedback on the webinar.

NEXT WEBINAR



WHAT?

Learn about our new continuous testing solution for teams practicing DevOps.

WHY?

CONTINUOUS DELIVERY, DEMANDS
CONTINUOUS QUALITY

WHEN?

March 1st, 2 – 3:00 PM
EST

UPCOMING: PAUL MERRILL



YOU'RE INVITED

Up-Coming Webinar:

"Test Automation 101: What Tests Should We Automate First?"

WHAT?

Best practices and steps to get started with test automation.

WHY?

Test automation is integral for reduced test maintenance and a faster time to market.

WHEN?

**March 8th, 2 – 3:00 PM
EST**

MARK YOUR CALENDARS!

WIN A FREE TICKET!



April 18-19, 2017 | QualityJam.com

Email marketing@gasymphony.com to be entered to win a free ticket.

OUR PRESENTERS



Sunil Sehgal
Managing Partner
TechArcis
@TechArcis

Sunil brings over 20 years of experience in business leadership, technology management and strategic initiatives and is an expert in Quality Assurance and Testing Solutions



Ryan Yackel
Product Marketing
QASymphony
@RyanYackAttack

With a deep interest in the emerging trends of testing needs, Ryan is dedicated to being the customer voice for all QASymphony products.

AGENDA

DevOps Movement

Is QA Dead?

How to enable Testing in DevOps

Practical Tips to Get Started

Q & A

"Software is eating the world."
Marc Andreessen

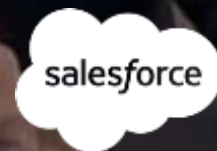
"Every business will be in software business."
Satya Nadella, CEO



"It's an application economy."

"Speed is the new currency of IT and businesses."

Marc Benioff, CEO



DEVELOPMENT HAS ACCELERATED...

Waterfall
1970

Agile
2000

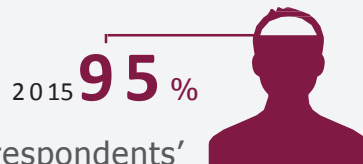
“If you don’t like change,
you will like irrelevance even
less. ”

DevOps
2010

- General Eric Shineki,
Chief of Staff, U.S. Army

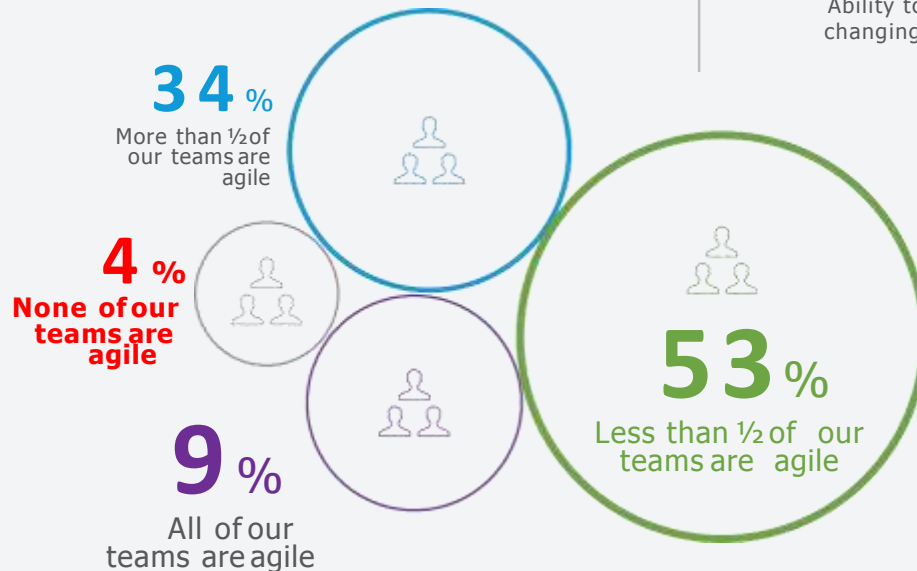
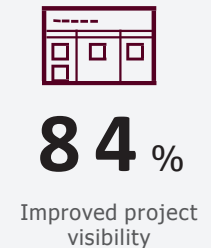
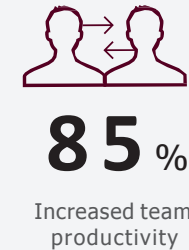
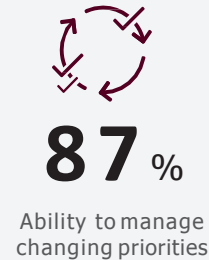
AGILE IS MAINSTREAM

HOW MANY?



&

TOP 3 BENEFITS



Percentage of Teams Using Agile

Only 4% of respondents work in a completely traditional / non-agile development organization.

Contrast this with the 2009 report, in which (31%) of the respondents worked where there were two teams or less practicing agile!

[illegible]

Incremental, Fast Deployments

Waterfall



3 to 9 months



Agile



2 to 6 Weeks

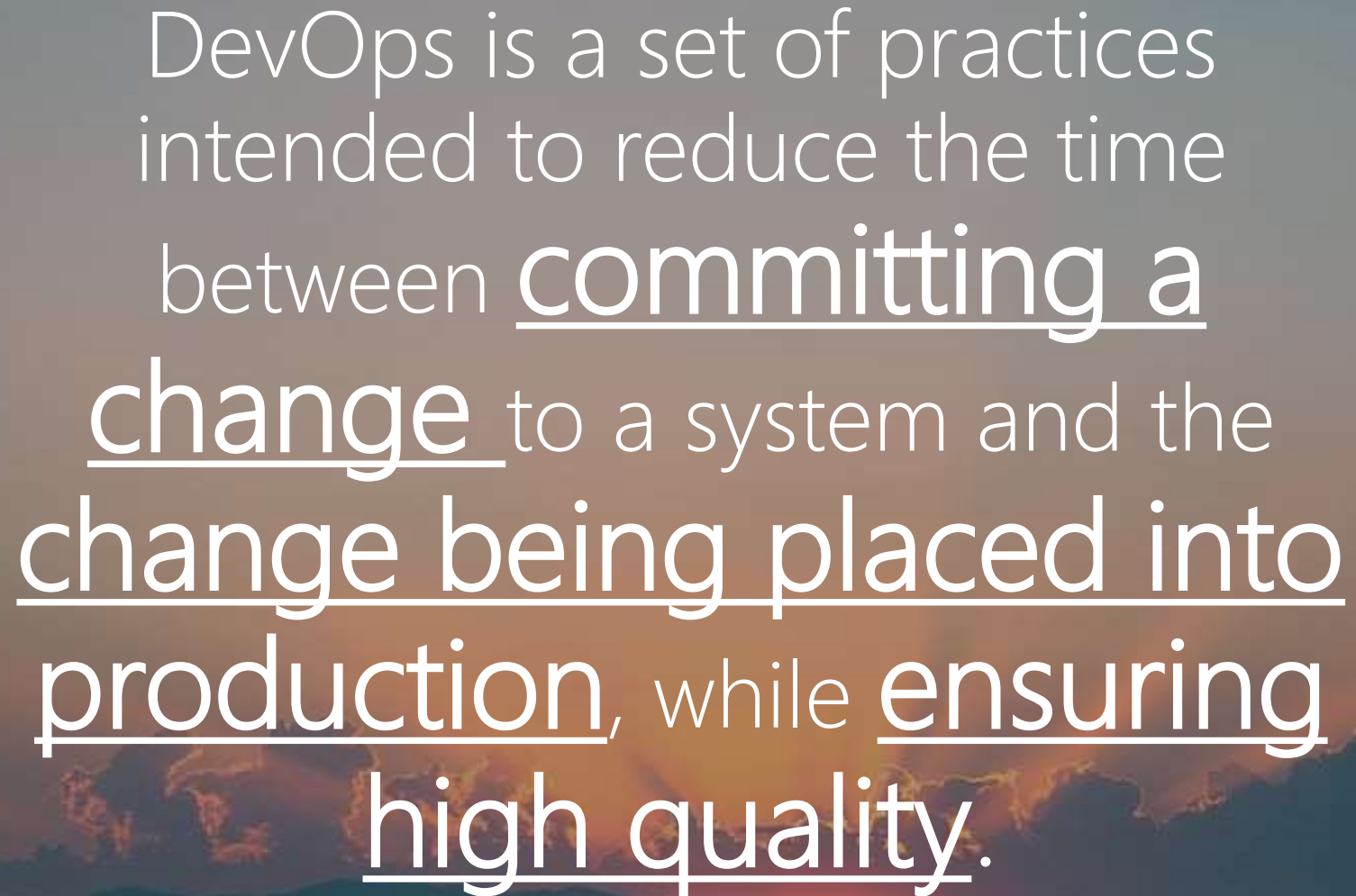


DevOps



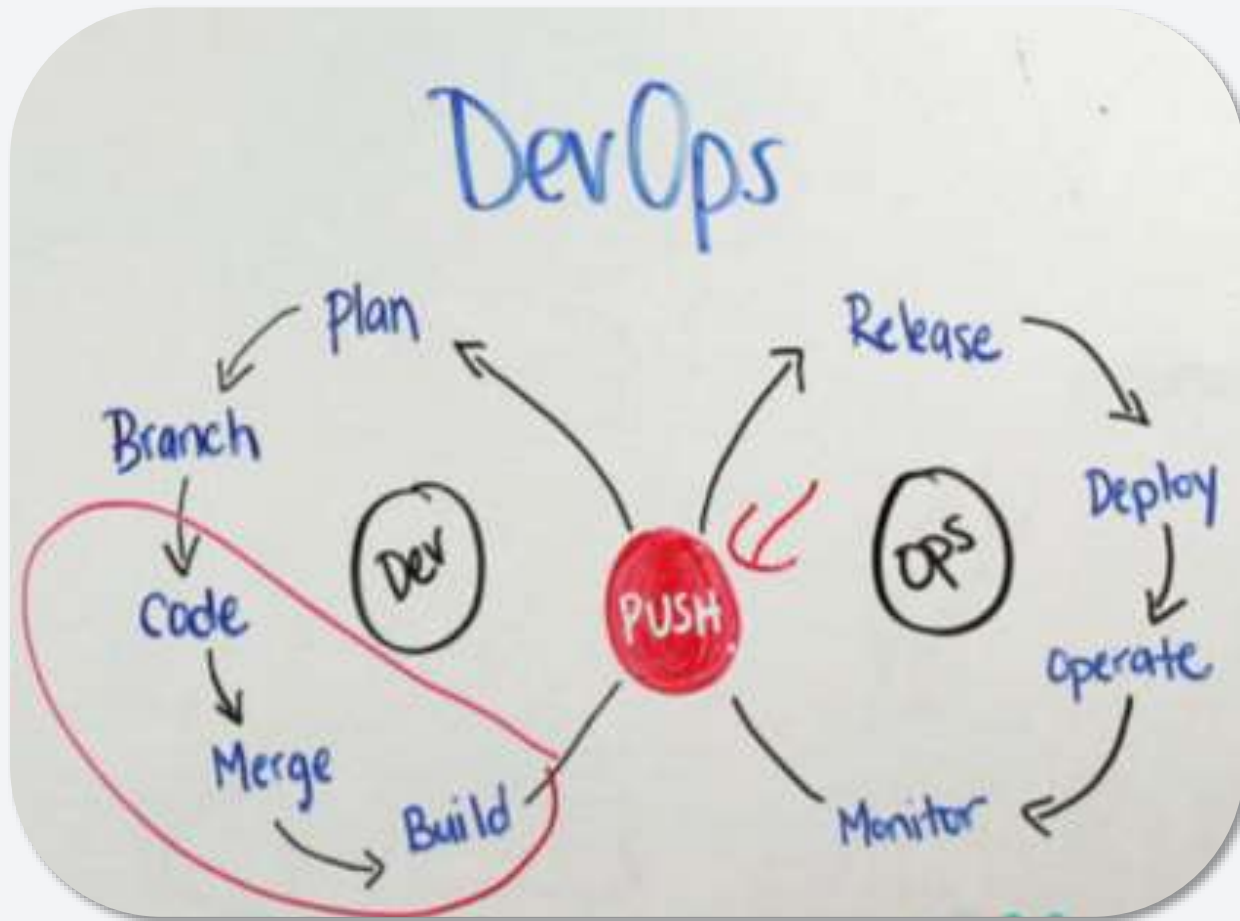
Hours to Days





DevOps is a set of practices intended to reduce the time between committing a change to a system and the change being placed into production, while ensuring high quality.

WHERE IS THE TESTING?



WHERE IS THE TESTING?



How DevOps is Killing QA



BY ASAF YIGAL ON JUNE 7, 2016 — 10 COMMENTS



If you work in software quality assurance (QA), it's time to find a new job.

The Day the QA Department Died

| Posted by [Eli Lopian](#) on Sep 24, 2012. Estimated reading time: 8 minutes | [11](#) [Discuss](#)

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WHY THE PUSH BACK?

“Testers can’t work in a true CI/CD environment.”
“Developers can just be testers...”
“If it’s not automated, it’s not real DevOps...”

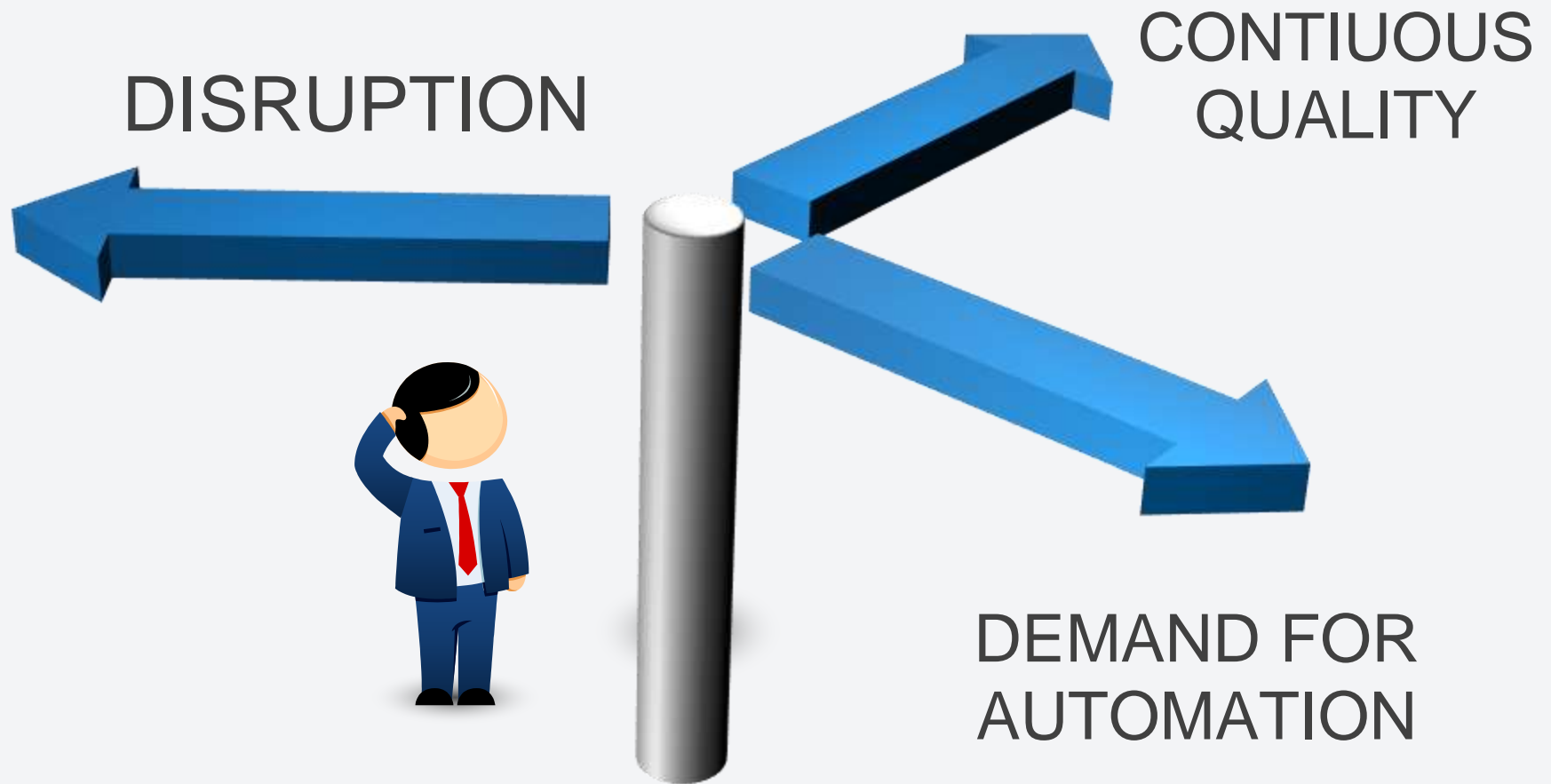


TESTING IS ALIVE IN AGILE / DEVOPS

- 82% - [Manual testing](#)
- 78% - [Unit testing](#)
- 67% - [User acceptance testing](#) in sprints
- 66% - [Functional regression test automation](#)
- 54% - [Functional test automation](#)
- 43% - [Exploratory testing](#)
- 42% - [Test data](#) management – Production data sub-settings, etc.
- 32% - [Test data](#) management – Masking, Obfuscation
- 25% - [Test data](#) management – Synthetic Generation
- 24% - [Test-Driven Development](#) (TDD)
- 19% - [Service virtualization](#)
- 14% - [Behavior-Driven Development](#) (BDD)

*Forrester, The 2015 State Of Agile Development

THREE FACTORS AT PLAY



THRIVING IN DISRUPTION

Quality and Convenience Drives “Customer Success”



Product Innovation and Development is Changing

Software Development is also changing and embracing Automation

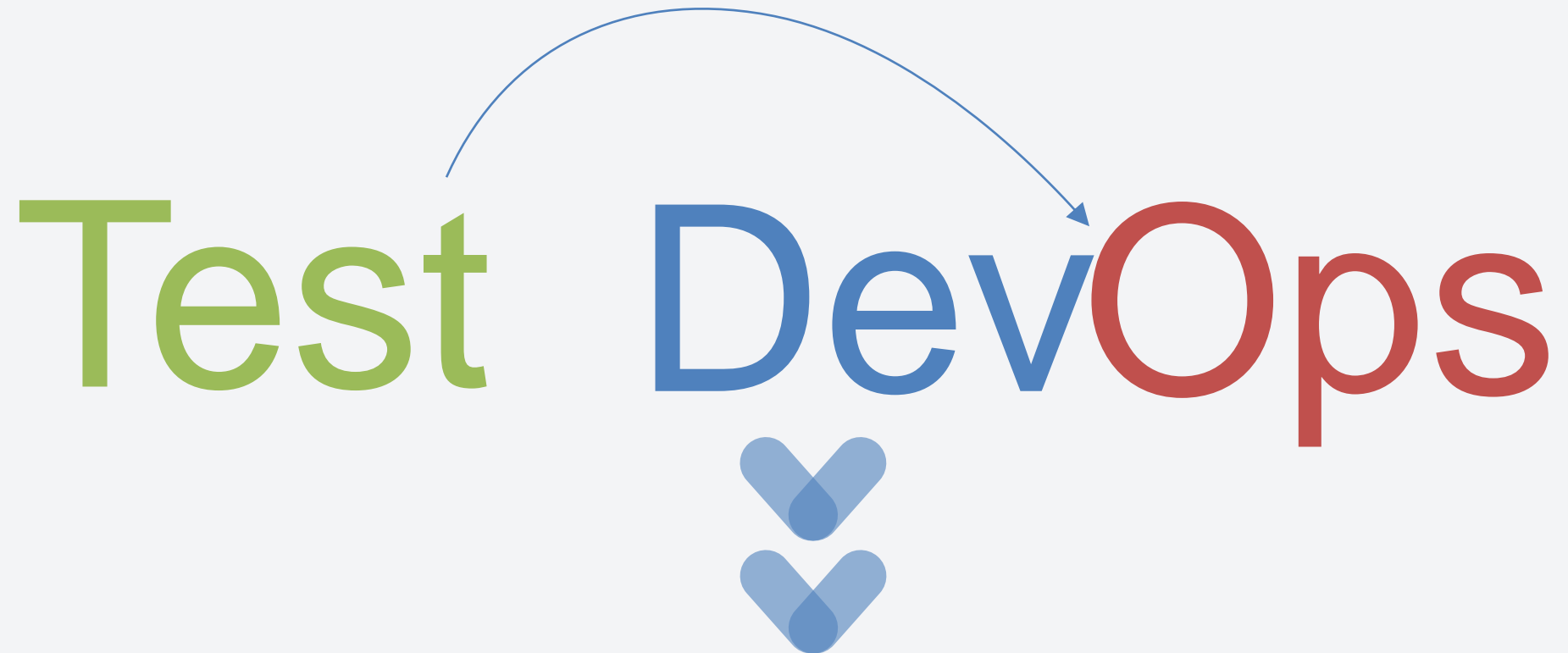


Agile and DevOps is the new norm

But, how to drive “Continuous” Quality at Speed in this Disruption?



PUTTING “TEST” IN “DEVOPS” = “DEVTESTOPS”



Enabling “Continuous Quality”

UNDERSTANDING “CONTINUOUS” TERMINOLOGY

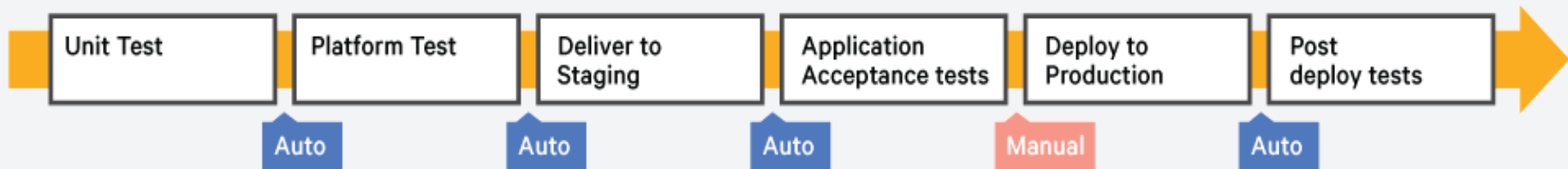
Process of delivering software updates to users on a nearly constant basis.

Continuous Integration

Continuous Integration means the constant integration of changes to an application at all stages of the delivery chain.

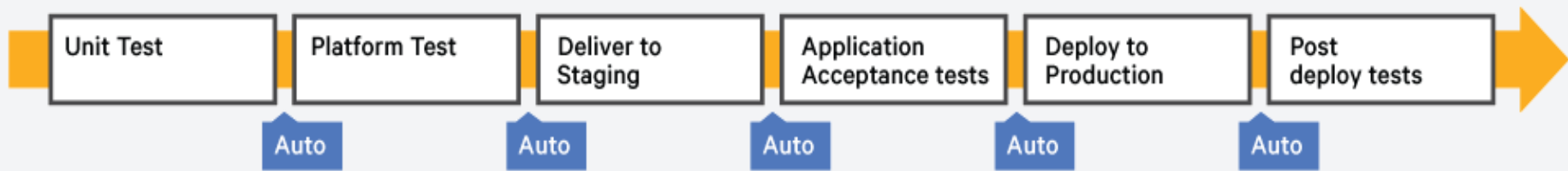
Continuous Delivery

Code can be rapidly and safely deployed to production by delivering every change to a production-like environment



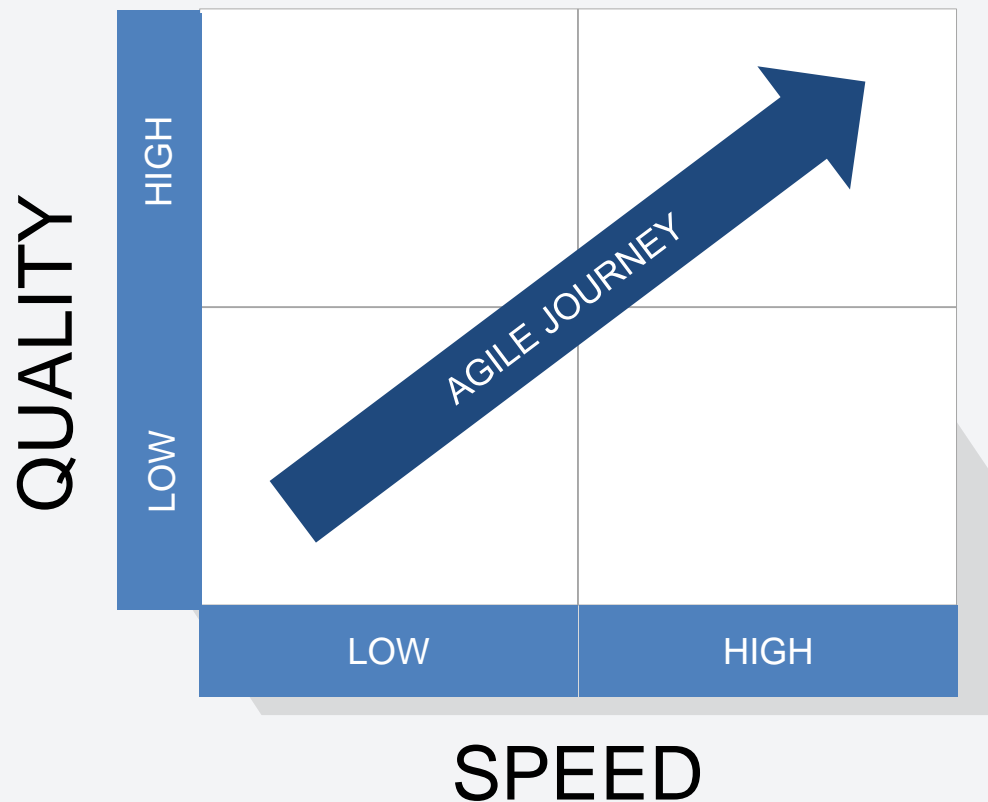
Continuous Deployment

Continuous deployment is the next step of continuous delivery



HOW ARE WE ENABLING DEVTESTOPS?

Achieve Continuous Quality with Speed



1



Clear Focus on DevTestOps

2



Automation at Speed of Dev

3



Right Test Infrastructure for Dev and Test Teams

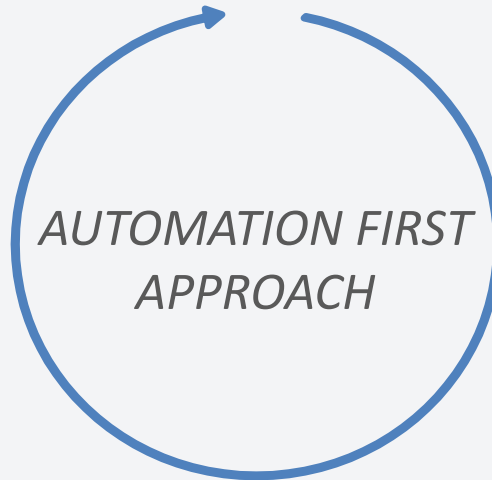
FOCUS TIPS FOR TESTERS



PAIR UP



*AMAZON TWO
PIZZA RULE*



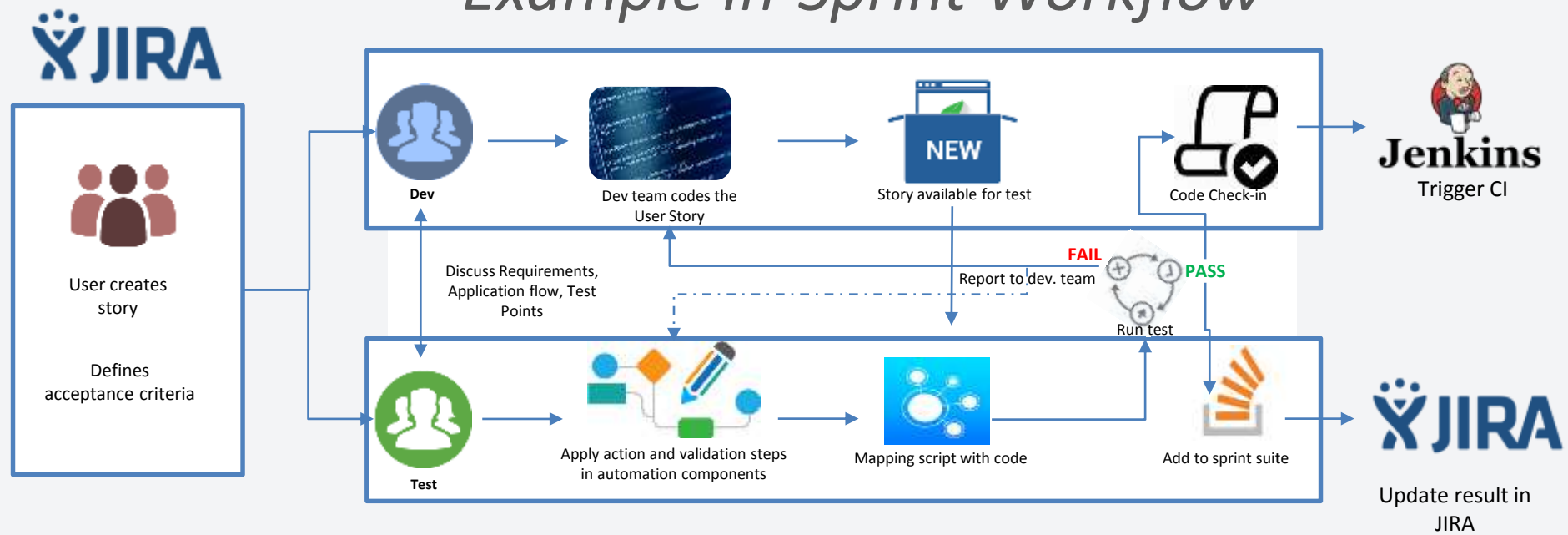
THINK SMALL, REAL SMALL



GET SMART

TEST AUTOMATION AT SPEED OF DEV

Example In-Sprint Workflow



1

Day-Zero Test automation for in-Sprint User stories is the only way Agile Testing can be scaled

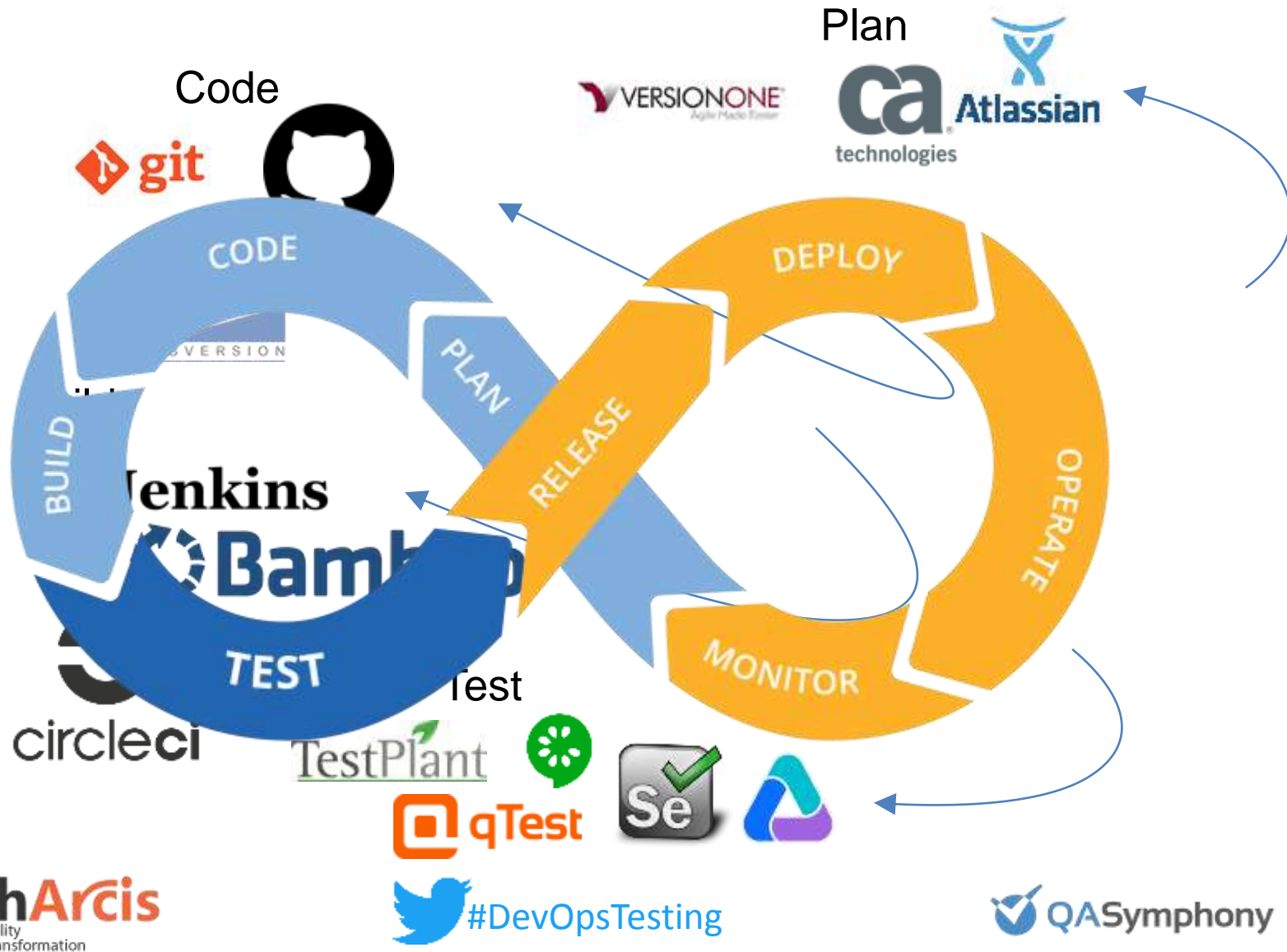
2

Test automation consistency and maintenance is hard to achieve in real world

3

Always tie test automation to source code branch that is being developed.

INFRASTRUCTURE FOR DEVTESTOPS





GETTING PRACTICAL

PROACTIVITY VOLUNTEER

**“We are going to
start a pilot
DevOps project
with...”**



**“I
VOLUNTEER!”**



ATTEND CONFERENCES

🕒 11:00 a.m. - 11:45 a.m.

Adam Satterfield | Role of the Tester in
the World of DevOps



🕒 04:45 p.m. - 05:30 p.m.

Angie Jones | How to Get Automation
Included in Your Definition of Done



LISTEN AND LEARN TEST AUTOMATION



The Gauge website features a dark background with a grid of 3D cubes. The title 'Why Gauge is better for Testers' is centered at the top. Below it, four key features are highlighted with icons: 'Simple Syntax' (code icon), 'Get Started Fast' (rocket icon), 'Your Environment Your Tools' (gears icon), and 'Data Driven Execution' (bar chart icon). Each feature has a brief description of its benefits.

gauge

Get Started Contribute Documentation

Why Gauge is better for Testers

- Simple Syntax**
Write test specifications in Markdown. Gauge won't enforce a structure - write in a way that works for you. Generate readable documentation in the format of your choice.
- Get Started Fast**
Gauge is lightweight and easy to get started. Install and initiate with a single command.
- Your Environment Your Tools**
Automate in your favourite programming language and work in the IDE of your choice, across platforms. Gauge supports C#, Java, Ruby, IntelliJ and Visual Studio out-of-the-box.
- Data Driven Execution**
Easy test with large data sets, while keeping specifications highly readable. Gauge reads test data from text, CSV, and more.



The website for Joe Colantonio, 'Automation Awesomeness', features a header with navigation links: ARTICLES, PODCAST, PRODUCTS, HP, OPEN-SOURCE, and ABOUT. A search bar is on the right. The main content area has a large red headline 'Automation Testing Made Awesome' and a paragraph about the difficulty of automation testing. A sign-up form with fields for 'First Name' and 'Email' and a 'FREE UPDATES' button is present. The background shows a man (Joe Colantonio) sitting in a library.

JOE COLANTONIO
AUTOMATION AWESOMENESS

TEST TALK

ARTICLES PODCAST PRODUCTS HP OPEN-SOURCE ABOUT

Search

Automation Testing Made Awesome

Automation testing, like all development efforts, is difficult. Most projects don't succeed. You can do better! I'll show you how to succeed with all your testing efforts. Also after interviewing 100+ engineers I've found 10 quick test automation tips you can use right now. Sign up below and I'll send them to you.

First Name Email

FREE UPDATES



The Cucumber School advertisement features a laptop displaying code. The text 'cucumber school' is prominently displayed, with 'cucumber' in white and 'school' in orange. Below it, the tagline 'Become a Cucumber expert at your own pace' is shown. At the bottom, there are two buttons: 'Buy it now' and 'Watch first lesson for free'.

cucumber school

Become a Cucumber expert at your own pace

Buy it now Watch first lesson for free

TAKEAWAYS FOR THE TESTERS

- Testing and QA is not Dead.
- Testing certainly is changing and Testing professionals have to step up and embrace the change (DevTestOps).
- Learn to do basic coding and embrace automation.
- Staying with manual testing is not going to be fun.
 - Learn TDD/BDD Frameworks like Gauge and Cucumber
- Distributed teams with QA embedded in the sprint teams is the new normal.
- So called independent QA teams are fading away. QA Managers have to become hands on and enable DevTestOps



Questions?



Thank You

TRUE AGILE AND DEVTESTOPS EXPERIENCE

