



Drive Continuous Delivery With Continuous Testing

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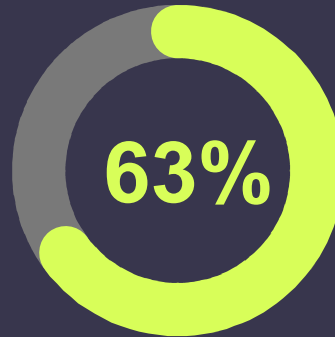
How Good are You at ...

Eliminating the barriers
between ideas and outcomes?



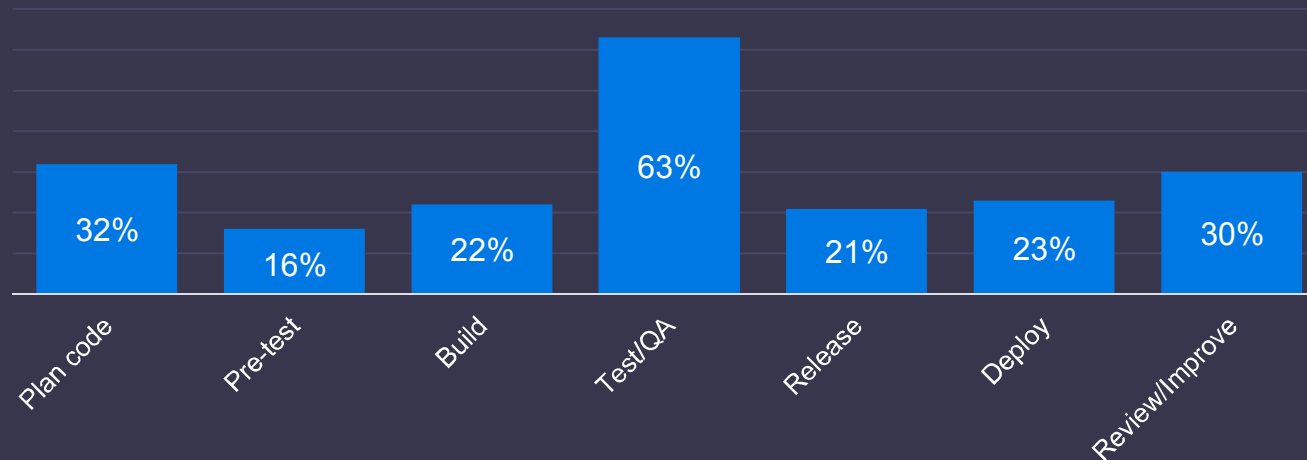
QA is STILL a Bottleneck... **Even** in DevOps Shops

A 2017 survey of **self-proclaimed DevOps practitioners** found that ...



...of delays were occurring at the **Test/QA stage** of the cycle.

“Where are the main hold-ups in the software production process?”

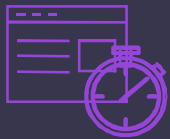


http://www.computing.co.uk/digital_assets/634fe325-aa28-41d5-8676-855b06567fe2/CTG-DevOps-Review-2017.pdf

Tangible Evidence

of the value **Continuous Testing** represents for Digital Business Leaders

SPEED



2.5x



more likely to have succeeded in left-shifting testing activity to requirements phase

1.5x



more likely to deliver **10x** faster iterations

1.9x



more confident in speed of delivery

QUALITY



2.6x



more likely to **reduce defects** by 50%+

2.4x



more confident in quality of output

ROI



3.9x



more likely to experience **rapid revenue growth**



"Continuous Testing as a Digital Business Enabler", 2017



Why is Quality So Hard to Achieve?

Testing hasn't really changed in the past 30 years, still using outdated methods to support Agile and DevOps.

„**Clear evidence** that you are unlikely to enjoy the full benefits of continuous delivery unless you **modernize your testing tools and practices.**”



63%

practitioners agree

Traditional testing methods are **often too complex and expensive** to use



79%

practitioners agree

Adoption of continuous testing is **much easier with the right tools**



72%

practitioners agree

Continuous testing requires a **major shift in mindset and culture**



“Continuous Testing as a Digital Business Enabler”, 2017



How do you build better apps, faster?

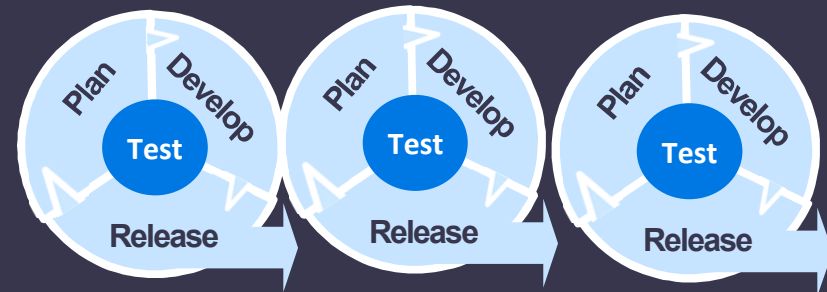
Continuous Testing

The Way We Look at Testing Needs to Change

~~Traditionally Testing has been an event in the SDLC~~



Testing practices need to be embedded in every step of the SDLC



Challenges to Achieving Continuous Delivery & Testing



Requirements

64% of total **defect cost originate** in the requirements analysis and design phase¹.



Development

50% of developers time is spent **fixing and finding defects**²

80% of teams experience delays in development and QA due to **unavailable dependencies**³



Security

70x required manual pen test scan cost vs. automation¹⁰

30% of teams only security scan once per year⁹

50% more time spent on security defects in lower-performing teams⁸



QA / Testing

70% of all testing is still manual⁴

63% of testers admit they **can't test** across all the **different devices and OS versions**⁵

50% of time spent looking for **test data**⁶

79% of teams face **prohibitive restrictions, time limits or access fees** on needed 3rd party services³



Release

57% are dissatisfied with the **time it takes to deploy new features**⁷



Operations

Greater than **50%** production outages from configuration management

Ave. cost of downtime per minute = **\$4,700**

53% percent of visits are abandoned if a mobile site takes more than three seconds to load

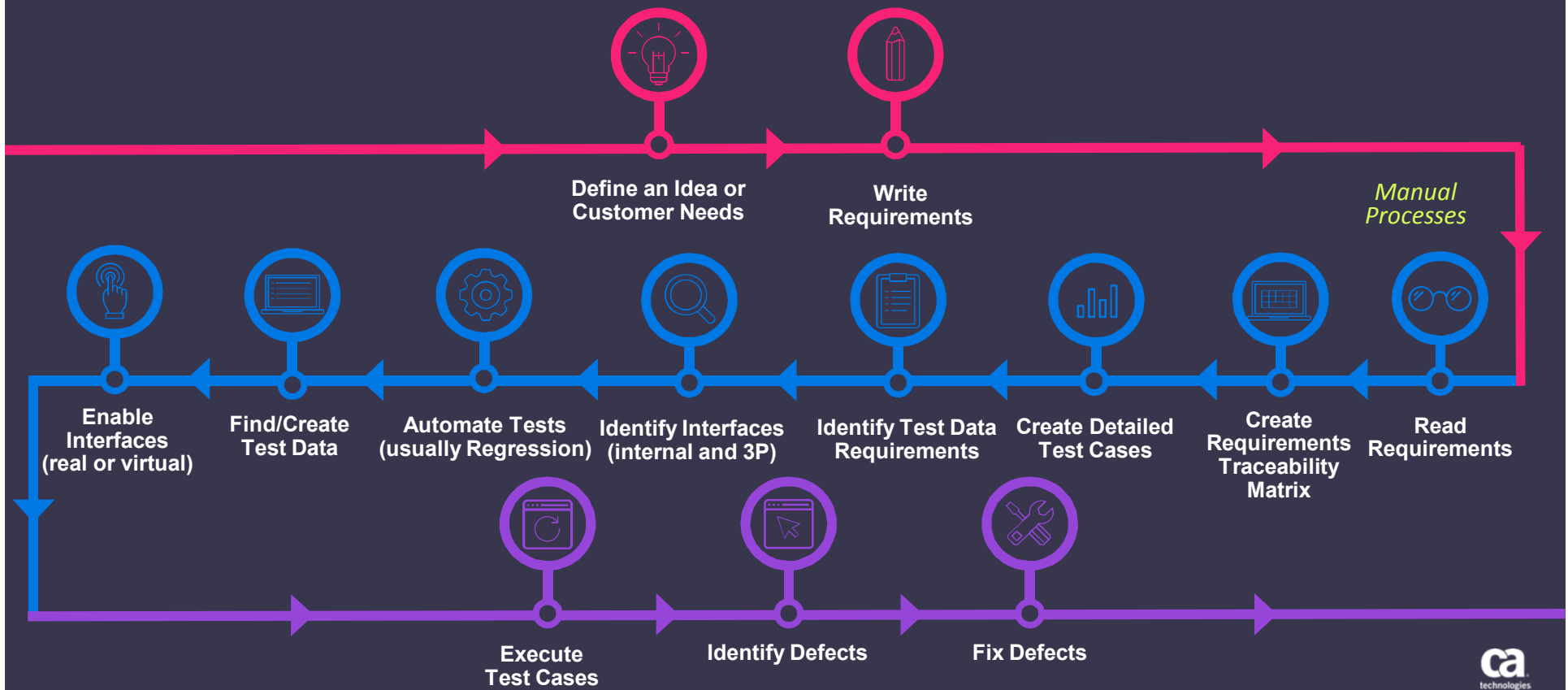




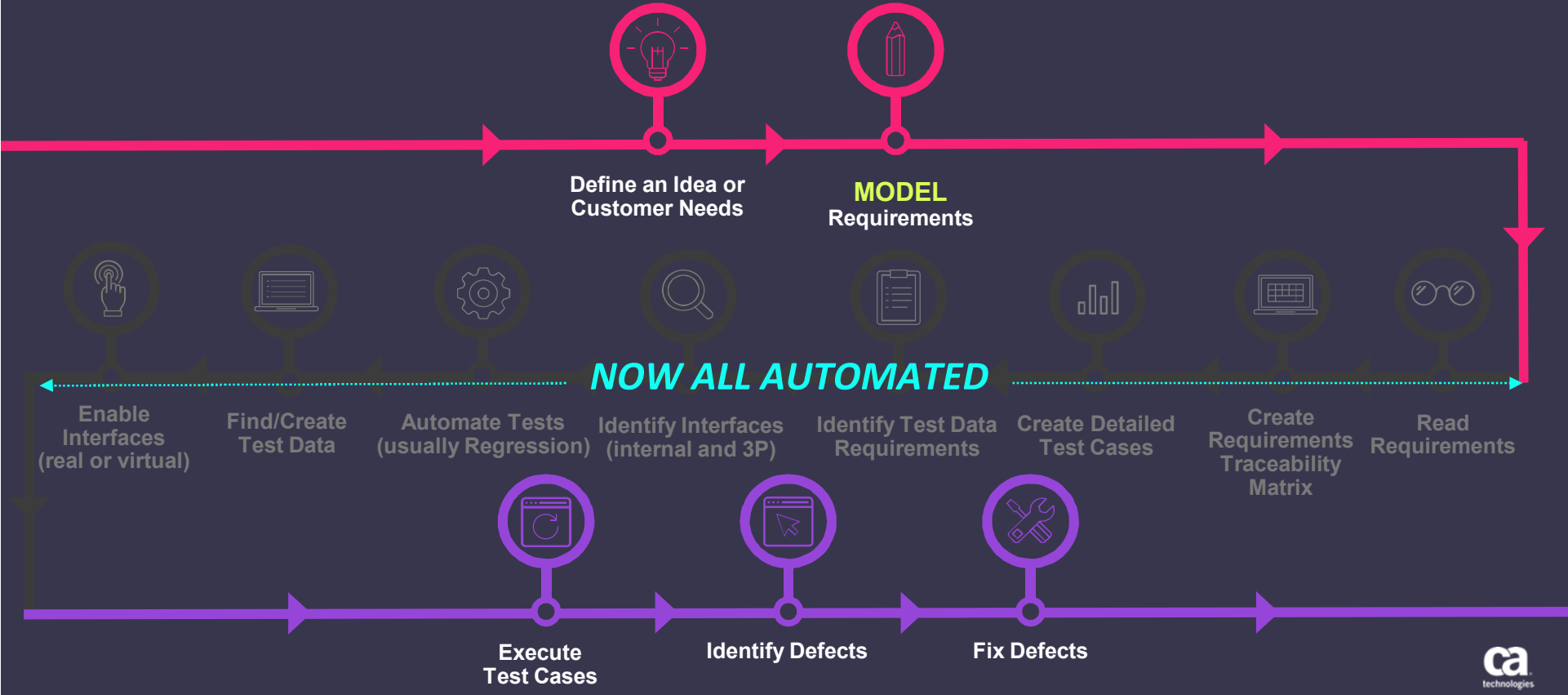
What is **Continuous Testing**?

The practice of enabling swift testing
across every domain of the SDLC to uncover and fix
unexpected behaviors as soon as they are injected

Why are Traditional Testing Activities a Bottleneck?



But Continuous Testing Changes the Game...



How do you build better apps, faster?

Continuous Testing & Delivery



CHALLENGE:

Struggling to keep pace with the demands of the business. Needed to deliver applications and updates more quickly, of higher quality and with fewer defects.

SOLUTION:

- CA Agile Requirements Designer
- CA Test Data Manager
- CA Application Test
- CA Release Automation

„CA Technologies offered a compelling solution with its integrated tools that provide **seamless, end-to-end test management**.... CA Technologies solutions were able to manage all the technologies used across our applications, **which other solutions were unable to do.**”



YouTube: „Stop - Agile DevOps in Waterfall Fashion Won't Work”

„With CA Technologies solutions, we **can identify & rectify defects more quickly and easily before they are released into production**. This will help us improve the speed and quality of software delivery.”



CA's Track Record Helping our Customers



Requirements

10X ✓

Faster in delivering test cases & automation¹

3 Month ✓

Improvement in new automation
And to **full in-sprint automation**



Development

50% ✓

Time reduction to replicate defects³

50% ✓

reduction in app dev/test cycle²

23% ✓

time to market improvement³

Early load testing to prep for an actual ✓

25 Million Users⁶



Security

3 Trillion ✓

Lines of code scanned

1 in 3 ✓

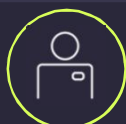
Fortune 100 firms choose Veracode

32M ✓

Security flaws fixed⁷

12,000 ✓

Developer remediation coaching sessions



QA / Testing

Reduce time needed to generate synthetic test data by **50%** ✓

90% ✓
availability for testing platforms³

1 x 500 ✓
throughput increase in testing⁴

35% ✓
cost reduction with 3rd party access fees³



Release

Decrease downtime from release failures by **80%** ✓

Reduce application deployment time almost **94%** ✓

Increase weekly deployments by **300%** ✓



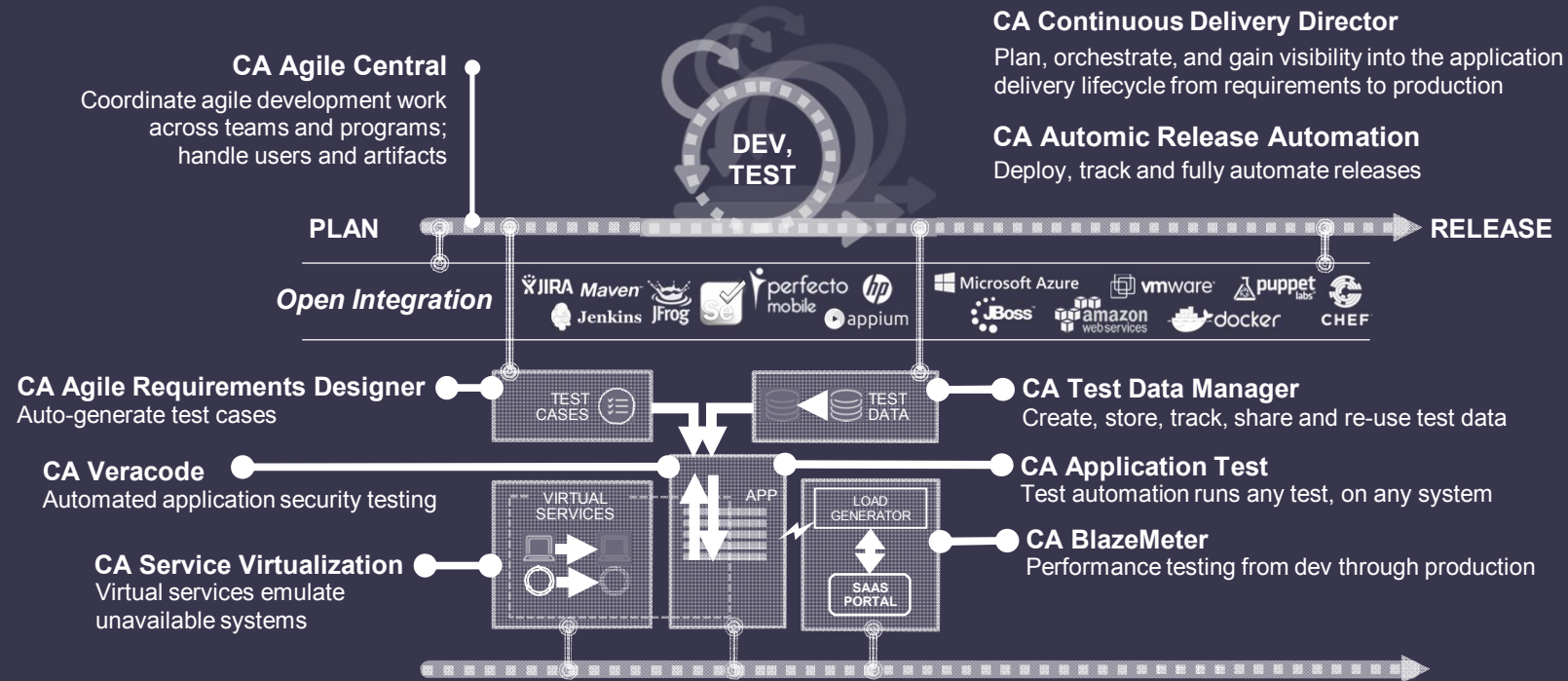
Operations

Up to **50%** greater app performance⁵ ✓



How do you build better apps, faster?

End-to-End Continuous Testing & Delivery from CA



THANK YOU

