The Executive Guide to Accelerating Digital Transformation with Enterprise Test Automation
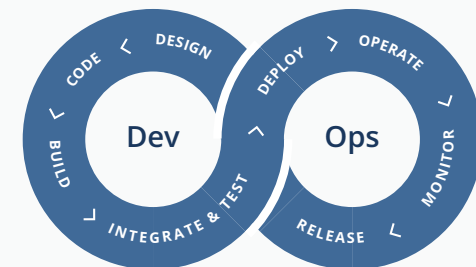
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Digital transformation in a changing world.

Today's enterprises are undertaking digital transformation to boost speed, agility, and innovation, while keeping a close eye on costs. To achieve this, they've moved to agile software development, embracing continuous delivery for front-end interfaces and back-end business applications. They want to develop software fast, iterate, and then move quickly into production, maintaining quality and reducing costs. Unfortunately, enterprises are woefully prepared for the automation that's required.

"As a CIO, you do not want to be the bottleneck that's slowing everything down. This means that you have to address testing and ensure it advances your digital transformation initiatives rather than holds them back."

—Jennifer Sepull, *CDO Air New Zealand*

Rapid, Automated Deployments

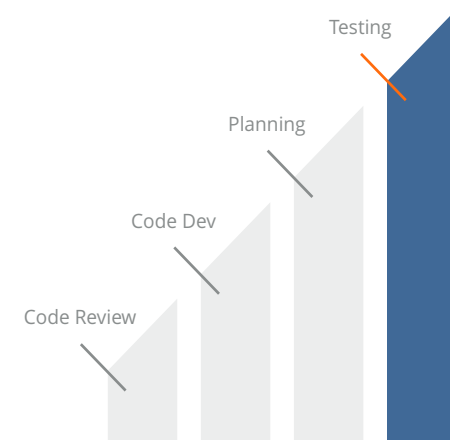Test Automation Effort: <20%

Source: Tricentis, Testing's Role in DevOps 2019.

Traditional software testing is broken.

The proliferation of agile and Dev Ops—combined with existing large-scale legacy apps—has created an environment that's diverse and disconnected. Some have attempted automation, but low achievement rates have forced organizations to default to time-consuming, costly, and error-prone manual testing.

Testing is the #1 barrier to speed and agility.

What impedes the delivery of innovative software?

Testing

Planning

Code Dev

Code Review

Source: GitLab, Global Developer Report, 2019

Complexity is the new normal.

Integrating best-of-breed tools into DevOps workflows isn't the answer, as they remain siloed, unable to scale or deliver cross-project visibility. Release schedules become jeopardized and productivity suffers. There is some open source-driven automation, but it doesn't address diverse apps or the complexity that comes with them. Agility stalls. Transformation stops.

"I know that software testers can make the CIO's survival rate higher—and they can also make the company more profitable, make it safer, and help it grow faster. If they make your testing faster and get your new apps out there, you can be more competitive. And if they can do that while lowering costs, that's remarkable."

—Robb Webb, *Global CIO (prev CIO of Ethihad, MetLife, Hilton, Equifax)*

Why testing remains the #1 barrier.

Main challenges in achieving high levels of automation

1	High frequency of application changes
2	Availability of test data and environments
3	Lack of skilled and experienced resources
4	Don't have the right automation tools
5	Too many automation tools

Source: Capgemini, World Quality Report 2019.

Tricentis testing and automation platform.

Tricentis offers a new and fundamentally different way to tackle software testing in these new environments. One that's totally automated, fully codeless, and intelligently driven by AI. And one that's designed to accelerate digital transformation from the get-go.
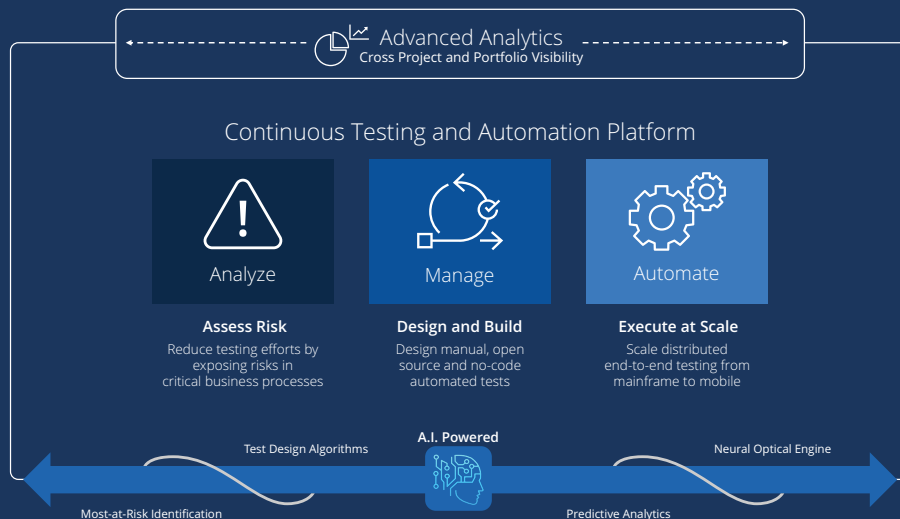
"Tricentis delivers the holy grail of software engineering, reducing risk while decreasing time of delivery."

—**Terry Milholland,** *former CIO/CTO, IRS, EDS, and Boeing*

Speed changes everything.

Accelerate Digital Transformation with Continuous Testing and Automation

Using the Tricentis platform, you can release software faster. Accelerate delivery with improved test cycle times. Reduce costs by eliminating manual testing. And dramatically increase your software quality.
The result? Everything changes. Your business wins more business, eliminates bottlenecks, and creates fiercely loyal customers.
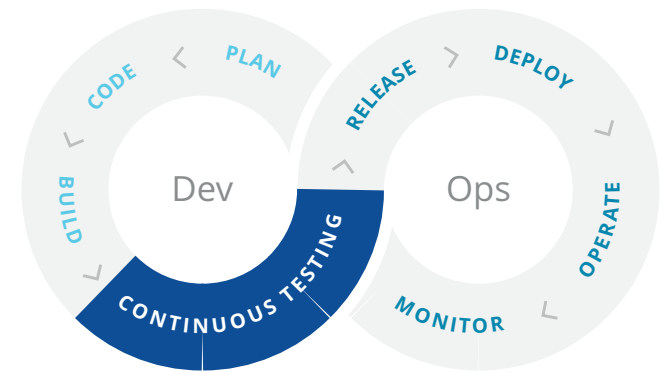
Fast track your software.

Leveraging artificial intelligence and the efficiencies of the cloud, you can accelerate software delivery by reducing test cycle times as much as 80%.

"We cannot have people spending their time on software testing tasks that can and should be automated. There is much higher-level work to do. We need future-oriented staff, and we can't afford to make them suffer by asking them to do needless manual testing."

—Andreas Kranabitl, *CIO SPAR*

Digital transformation requires continuous testing.
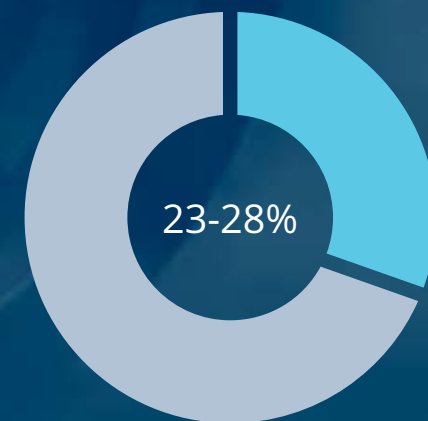
Reduce errors. Lower costs.

Our platform is AI-driven and codeless, helping you eliminate error-prone manual testing and achieve end-to-end test automation rates >90%.

"LiveCompare ensures we're testing the right things and spending resources in the right places....That has translated into a direct resource savings of 30-40%."

—Ray Berry, *Application Development Lead, The Coca-Cola Company*

Testing is 1/3 of total IT budgets.

Enterprise IT budget allocated on QA and testing

23-28%

Source: Capgemini, World Quality Report 2019.

Take quality to new heights.

Boost release confidence and obtain business risk coverage >85%. The quality of your software goes up. The stress of your day goes down.

"I have more automation in my coffee maker than most enterprises have in their testing processes. This [lack of automation] is not only expensive; it also holds back innovation."
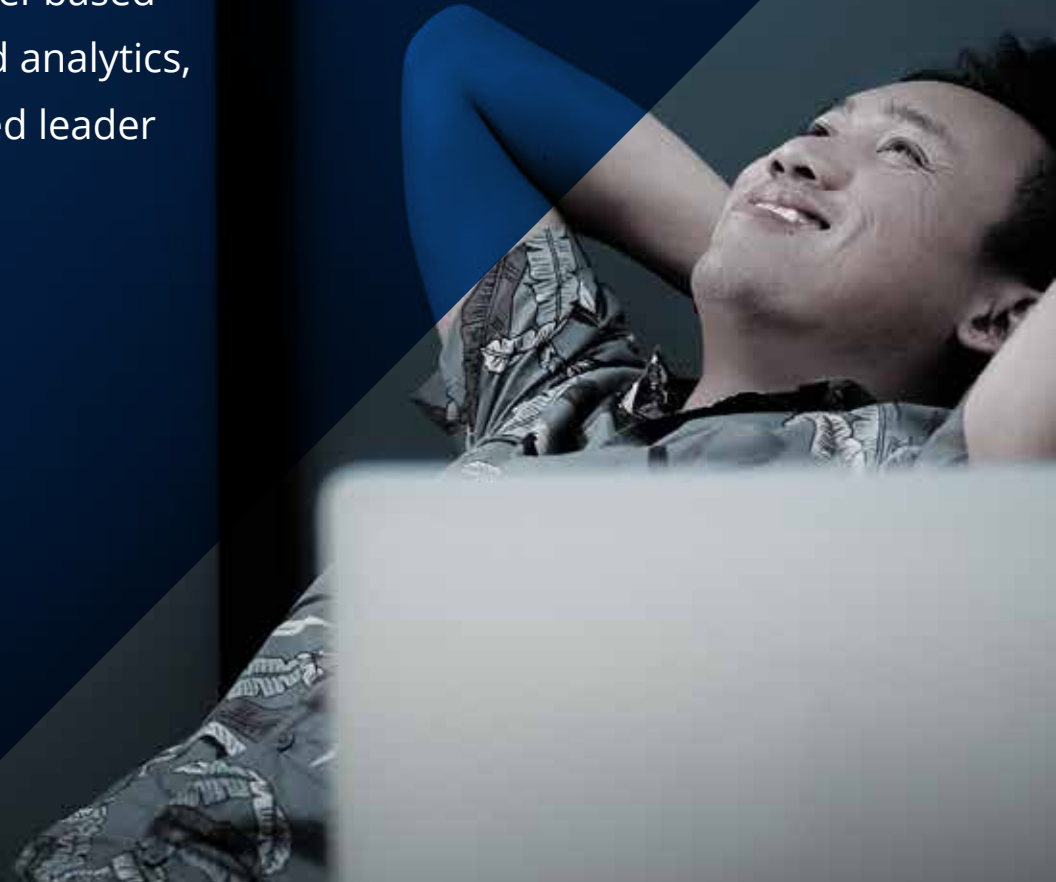
—Clark Golestani, *previously Merck President of Emerging Businesses and Global CIO, presently the Managing Director of C Sensei Group*

Enterprise grade. Enterprise proven.

Our end-to-end automation platform is built for the enterprise from the ground up. Whether it's model-based automation or complete enterprise reporting and analytics, you'll rest easy knowing Tricentis is the undisputed leader with over 1,800 customers around the world.

How one of the world's largest food processors accelerated delivery to S4Hana.

THE SITUATION

- Massive SAP/S4 Hana transformation project. Customer had 2% test automation rates with over 350+ licenses of HP and Worksoft
- Expanding, complex infrastructure of shared system components with SAP
- Become more Agile and DevOps focused

THE NEED

- Test automation for SAP from ECC, Fiori and Hana to APIs and custom apps
- Convert Manual Testers to Automation Specialist

WHY TRICENTIS

- Ease of use
- Complex (yet maintainable) regression tests across multiple endpoints
- Extensive platform and protocol support
- Total cost of ownership

Snapshot

Usual business risk coverage	**38%**
with Tosca	**75%**
Usual testing cost	**$44,030,954**
with Tosca	**$18,539,370**
Speed to market	**+759%**
ROI with Tosca	**+58%**
Break even period	**6 Mos.**

CASE STUDY

How a large, global technology manufacturer more than tripled their releases.

THE SITUATION
- Desperately needed help managing and supporting SAP packs and custom releases

THE NEED
- Impact analysis tied directly to test automation efforts and integration with ALM solution

WHY TRICENTIS
- Smart impact analysis
- Code quality analysis
- Ongoing transactional usage analysis
- User usage statistics/analysis—our ability to identify who is doing what and who isn't
- Ability to seamlessly integrate with Solution Manager's ChaRM

Snapshot

Number of releases using LiveCompare	**+350%**
Custom testing (reduction)	**99%**
Defects eliminated	**200+**

How a Fortune 500 global banking and payments company reduced testing costs by 90%.

THE SITUATION

- Millions of dollars invested in applications designed to help business leaders understand and leverage data
- Reporting errors lead to low to zero adoption
- QA leaders were challenged to fix the problem by transforming the end-to-end data testing process without any existing tools, people, or processes for data testing in place

THE NEED

- Test automation for end-to-end data testing process
- Support for complex technology stacks—from 40-year-old mainframes to cloud
- Handle massive amounts of data (from 40 billion transactions processed annually), many different sources of data, and many transformations between source and report

WHY TRICENTIS

- Reusable, scalable tests without wrestling with SQL or scripting
- Thousands of hours of manual effort saved per month
- Improved user adoption and productivity as a result of improved data quality

Snapshot

Time to market increase using Tosca BI/DWH	**+90%**
Cost of testing (reduction)	**90%**
Records compared	$**200M**

Tricentis

2570 W El Camino Real, Suite #540
Mountain View, CA 94040
+1 650 383 8329
sales@tricentis.com