The Executive Guide to Accelerating Digital Transformation with Enterprise Test Automation
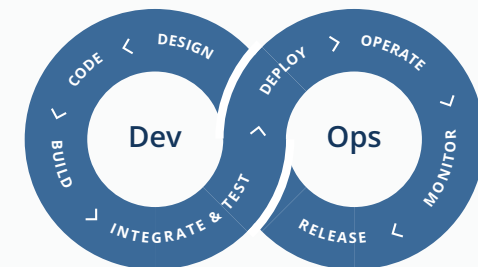
✖ Tricentis

Table of Contents

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
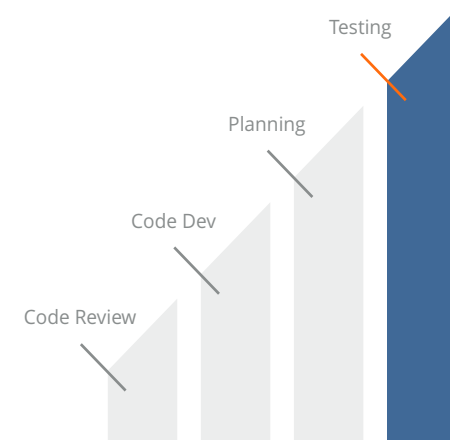
Source: GitLab, Global Developer Report, 2019

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.
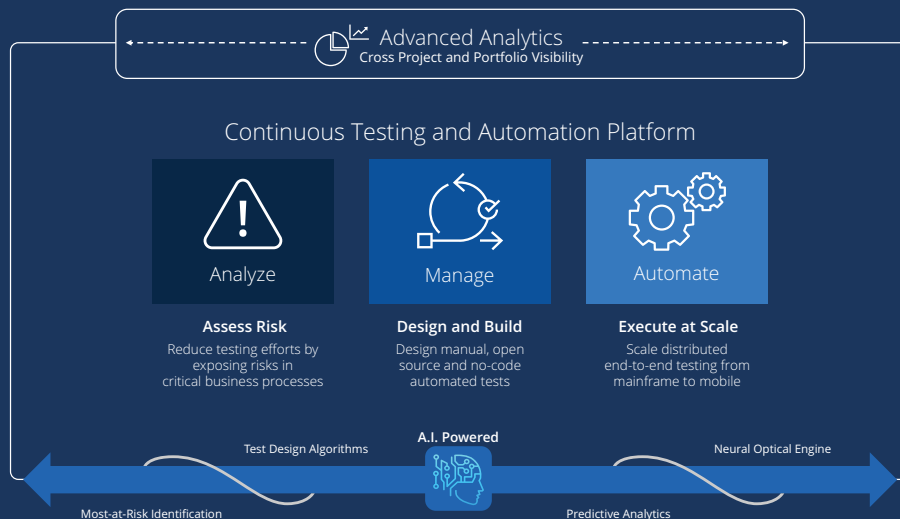
"Tricentis delivers the holy grail of software engineering, reducing risk while decreasing time of delivery."

—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*
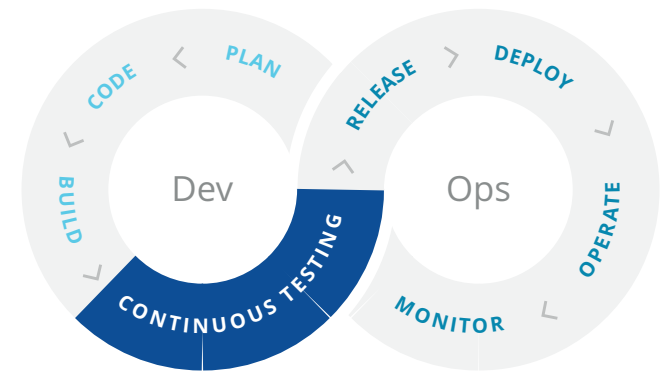
Digital transformation requires continuous testing.

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%
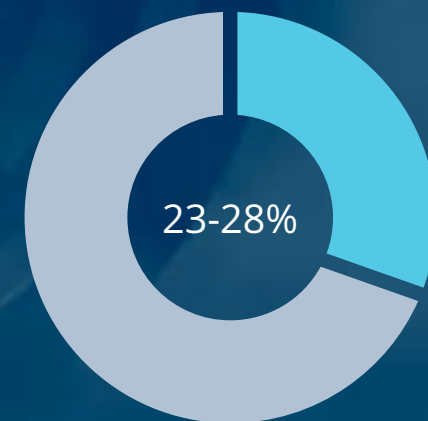
Source: Capgemini, World Quality Report 2019.

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.
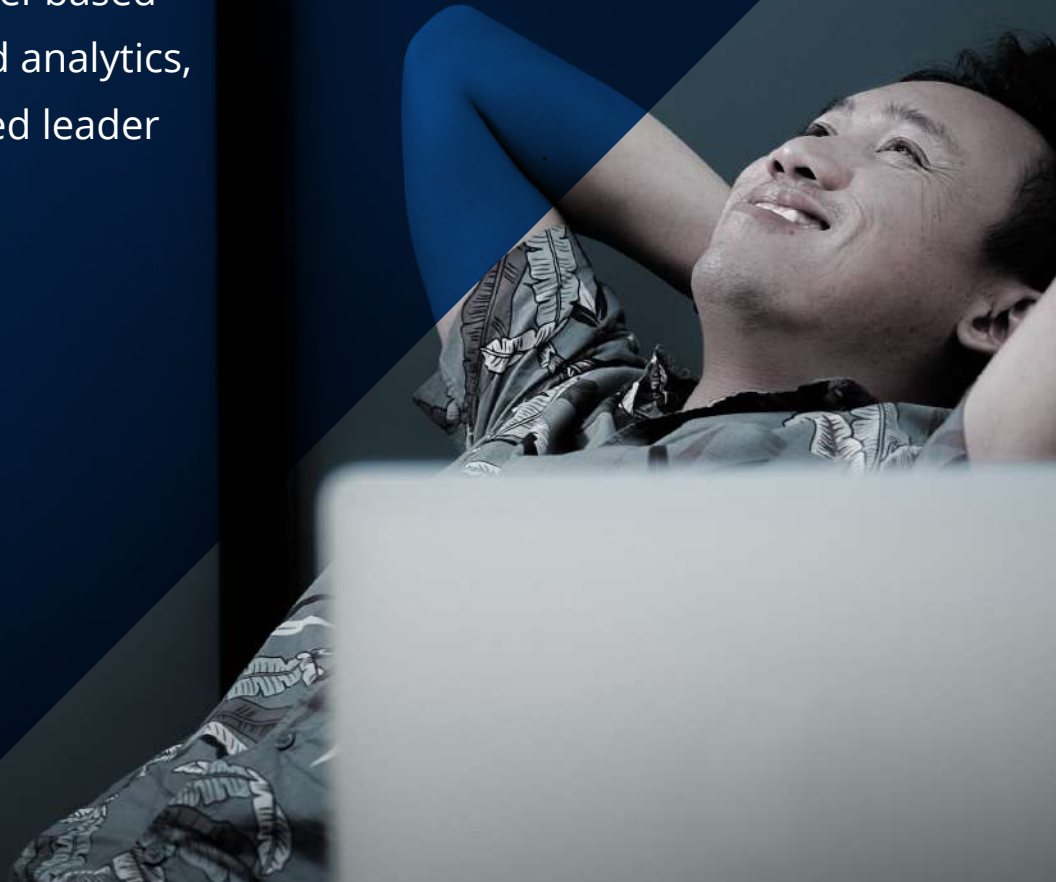
How Vodafone accelerated S/4HANA implementation

THE SITUATION

- Vodafone was transitioning to one of world's largest SAP S/4HANA implementations in just 10 months
- HP/MicroFocus UFT lacked support for modern technologies and processes
- Test automation was slow and difficult, did not scale

THE NEED

- Dramatically speed up testing to meet S/4HANA migration needs
- Ensure that ongoing SAP updates don't disrupt core business processes

WHY TRICENTIS

- Model-based test automation makes test automation accessible and resilient
- Support for their old and new SAP platforms
- Full end-to-end business process testing across their SAP and non-SAP systems

Snapshot

E2E test automation across SAP, web, mobile, APIs	**81%**
Faster test automation testing time	**200%**
Days of working time saved in year 1	**400**
Test automation across S/4HANA	**70%**

Moet Hennessy - Louis Vuitton ensures fast, flawless eCommerce rollouts with qTest projects

LVMH

Snapshot

Faster testing cycles	**4x**
Reduction in testing costs	**75%**
Test asset reuse	**85%**

THE SITUATION

- Ambitious digital expansion goals required more (and faster) eCommerce launches
- Disconnect between stakeholders led to misunderstandings and rework
- Tests were recreated from the ground up for every new rollout
- Testing processes used to ensure high quality consumed considerable resources

THE NEED

- Fully integrate into CI/CD and provide faster feedback to developers
- Create reusable test cases across various launches with requirements traceability
- A clear view of results across web, mobile, Salesforce eCommerce, ERPs, WMS, CRM and more

WHY TRICENTIS

- 90% test asset reuse for existing brands and 70% test asset reuse for new brands
- Rollout kits codify best practices for repeatable and rapid testing
- BDD support improves collaboration, and reduces misunderstandings
- 10,000 automated test cases run nightly and report into qTest from a variety of tools

Mercedes-Benz Otomotiv sets new benchmark for testing data integrity

THE SITUATION

- Increasing amount of data was being collected through a variety of systems and interfaces
- Data was manually reviewed with spot checks as it was loaded into the SAP BW data bank
- Zero tolerance for data loss or corruption upon transfer

THE NEED

- Identify and address data problems upon introduction for billions of data columns
- Expose subtle issues the naked eye would overlook
- Integrate automated data testing into the CI/CD pipeline

WHY TRICENTIS

- Billions of data columns testing with only ~150 automated test scenarios
- Hundreds of thousands of data rows checked in just a minute
- Reduced testing costs while expanding test scope
- Increased confidence and speed of SAP BW updates that derive more value from company data

Snapshot

Data rows checked in one minute	**400K**
Lower testing costs	**100%**
Data rows tested w/ ~150 tests	**1b+**

How Tyson gained speed, cut risk, and saved millions on their journey to S/4HANA

THE SITUATION
- Massive SAP S/4HANA 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

THE NEED
- Test automation for SAP from ECC, Fiori and S/4HANA to APIs and custom apps
- Convert Manual Testers to Automation Specialist
- Become more Agile and DevOps focused

WHY TRICENTIS
- Ease of use
- Comprehensive regression tests across SAP and non-SAP systems
- Extensive platform and protocol support
- Total cost of ownership

Snapshot

Time to market acceleration	**8x**
Risk reduction	**75%** **(was 38%)**
Cost savings	**58%** **($44M > $18M annually)**

Guardian Life Insurance transforms QA with qTest to streamline AWS + API migration

Guardian®

Snapshot

Fewer defects	**29%**
Faster testing cycles	**30%**
Cost reduction	**31%**

THE SITUATION

- 200+ applications needed to migrate to AWS cloud in 12 months
- Mix of Agile and Waterfall processes within the organization
- 140+ application and infrastructure updates checked monthly
- Extensive API development supported digital roadmap of products
- ALM testing solution was slow and costly

THE NEED

- Real-time metrics and visibility into core KPIs
- Flexibility to adopt best-in-class tooling
- Extend testing without increasing costs

WHY TRICENTIS

- 38% increase in project capacity
- Defects exposed earlier via "shift left" focus
- Centralized management of best-of-breed toolset (Selenium, NeoLoad, AppDynamics...)
- Real time metrics at program, project, and enterprise level

SPAR accelerates Agile testing for SAP eCommerce projects

THE SITUATION

- Needed to unite ecommerce + "brick and mortar" business to meet customer expectations
- Deploying 100+ updates to production every year, each with extensive testing
- Modernizing SAP B2C ecommerce environment required extensive end-to-end testing

THE NEED

- Automate end-to-end testing across a diverse application stack (SAP + Non-SAP, on-prem + cloud)
- Simplify test data management and test environment constraints that limit test automation

WHY TRICENTIS

- Seamless integration of automated regression testing into the deployment process
- Faster testing of complex, end-to-end scenarios (from hours to < 2 minutes)
- Automated feedback on the state and stability of the SAP B2C system improves confidence in releases

Snapshot

Increase in test automation speed	**800%**
ROI completed in 1 year	**100%**
Automated tests	**184k**

2570 W El Camino Real, Suite #540

Mountain View, CA 94040

+1 650 383 8329

sales@tricentis.com