



# Continuous Testing Platform

Speed changes everything!

Ferrie Wolff | *Sr. Solution Architect EMEA*

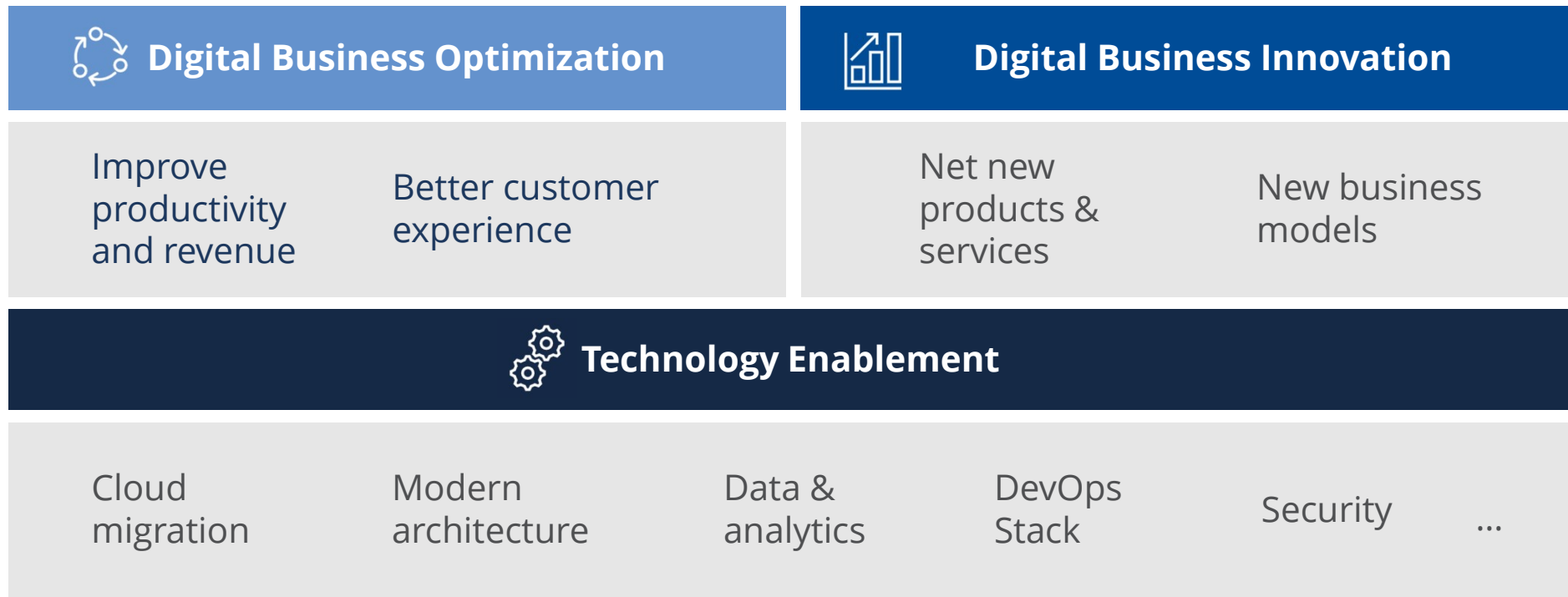


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# Success in **digital business**

depends on your ability to adapt and move faster



69% of Boards of directors have accelerated their digital business initiatives in response to COVID-19 disruption, Gartner 2021

# Market pressure to move faster

directly impacts the bottom line

54%

Struggle to keep up with **changing customer demands**

.....

56%

**Quality suffers** when fast development and delivery is prioritized

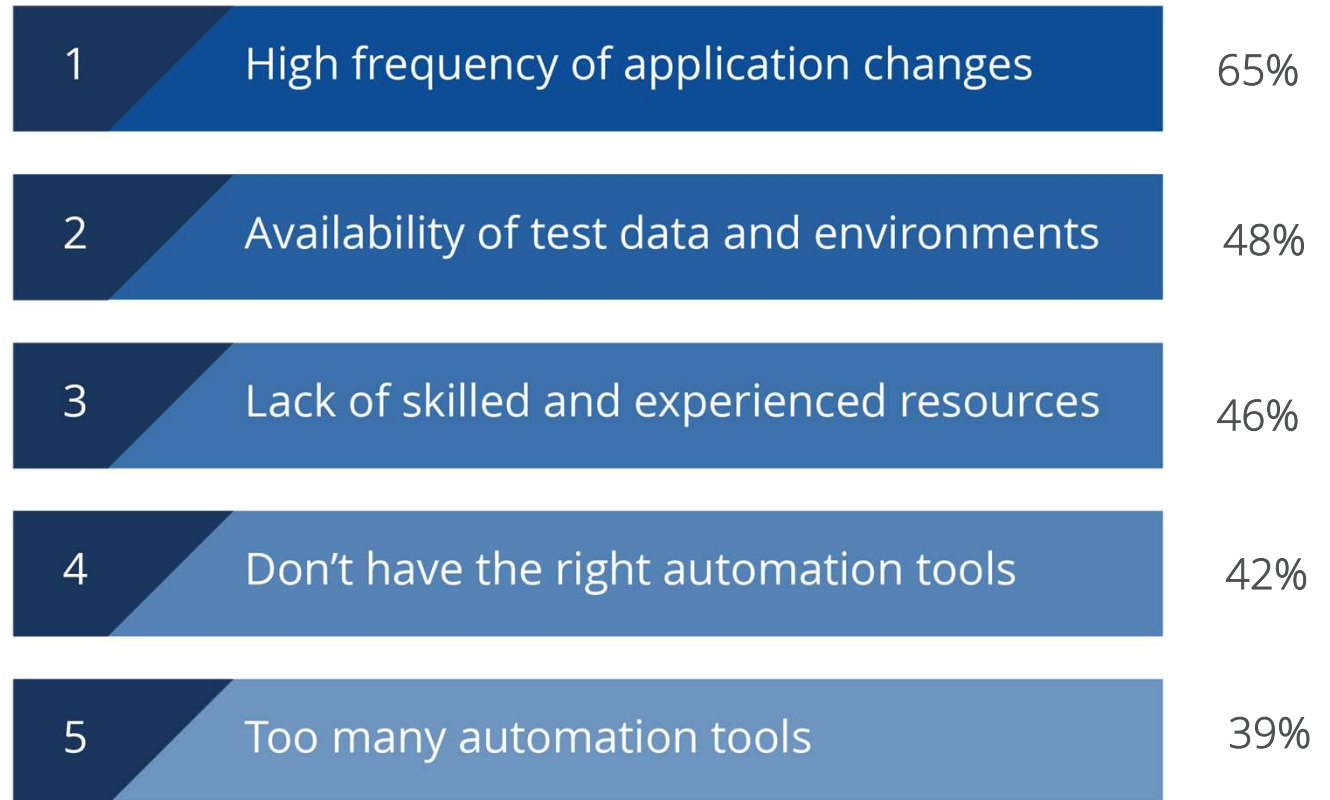
.....

49%

Have **lost revenue** due to poor customer experience

FORRESTER®  
Sept. 2021

# Challenges in achieving high levels of automation



And that's never been more  
**challenging**

# Complex, dynamic enterprise IT landscapes

where every change has a ripple effect

## Applications

Development & modernization of commercial and homegrown apps

## Infrastructure

Modernization - cloud migration & platform upgrades

## Practices

CoE & DevOps



## Data

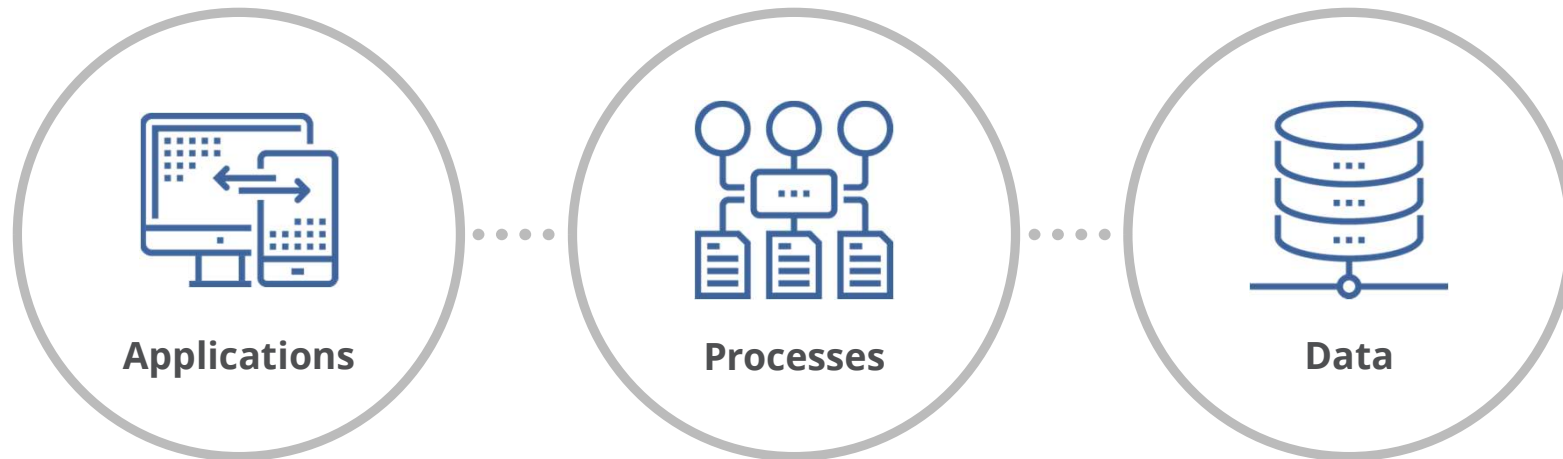
Complex data journeys with changing demands and models

## Process

Business process optimization and expansion

# And that means

you must deliver both **quality at speed** across all your...



...everywhere in your organization

# Testing transformation

requires a change in approach



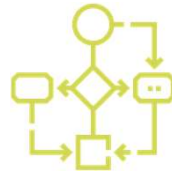
## A quality-first mindset

everywhere.



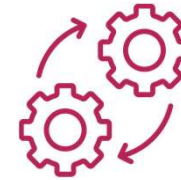
## Establish clear QA roles

to support the team.



## Streamline workflows

across teams, tools and projects.



## Automate all types of testing

with modern technologies.



## Optimize testing

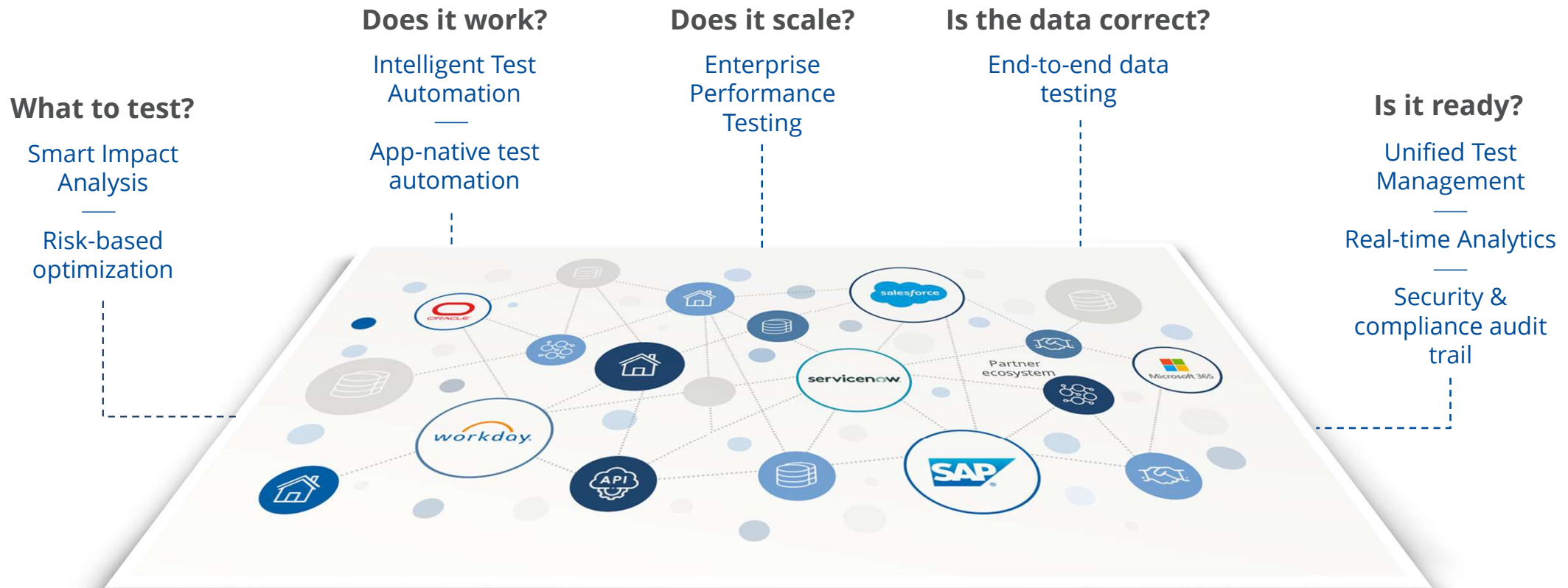
based on business risk.

[#continuous\\_testing](#)



# Adopt **continuous testing**

It's easier than you think

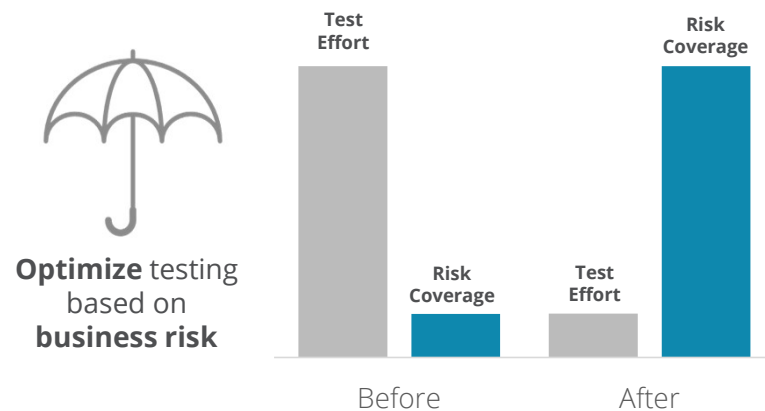


# What to test?

Cover more risk with less effort

## Tricentis capabilities

- Risk AI
- Risk-based test optimization



## Traditional testing

- Tracks # of tests, not risk covered
- Limited by domain knowledge of testers (especially with packaged apps)
- Lets defects slip into production

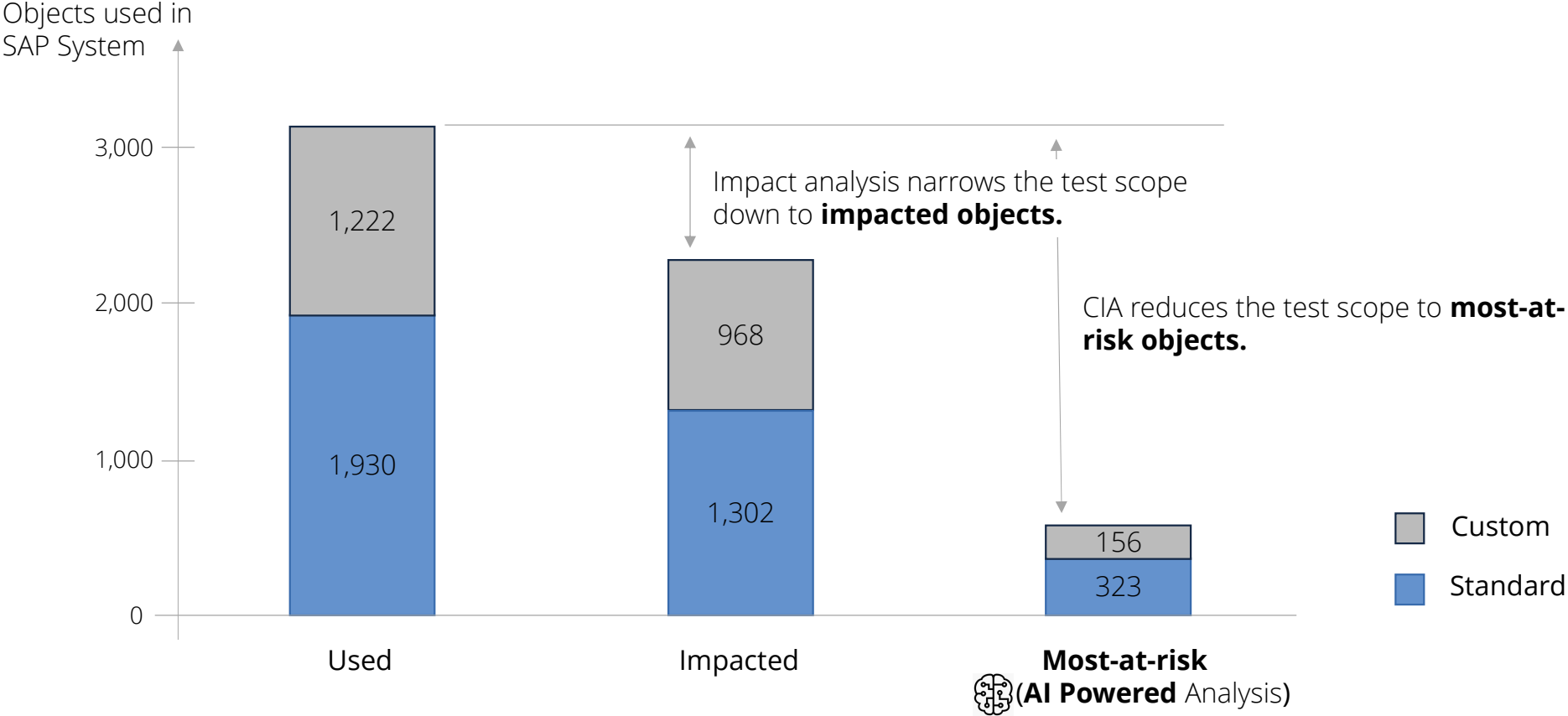
## Tricentis customers

- Achieve **90%+ business risk coverage**
- Get comprehensive risk assessments and test plans for packaged app changes
- Deliver **zero-defect** updates for only 15% of traditional test effort

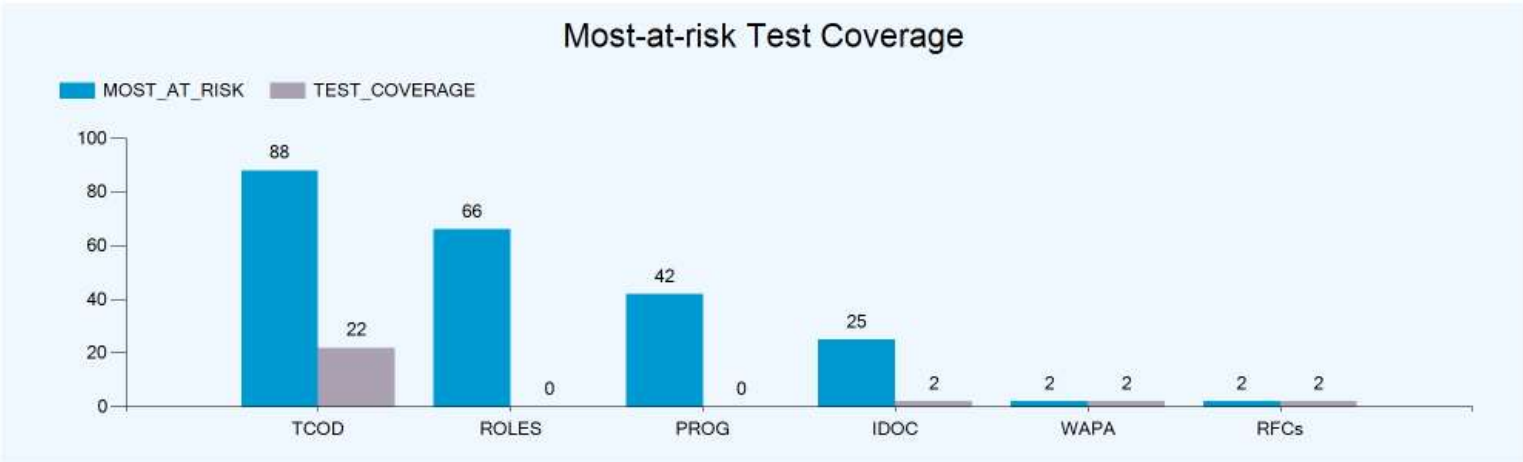
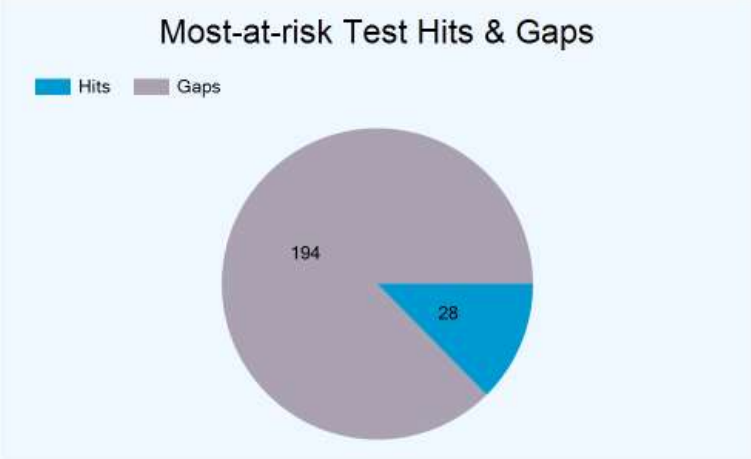
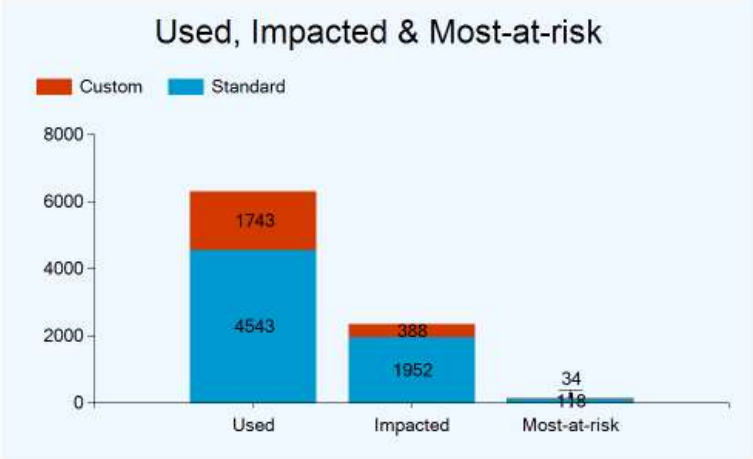
#test\_the\_right\_things

Tricentis LiveCompare Tricentis Tosca

# Why Change Impact Analysis ?



# Smart Impact Analysis Dashboard

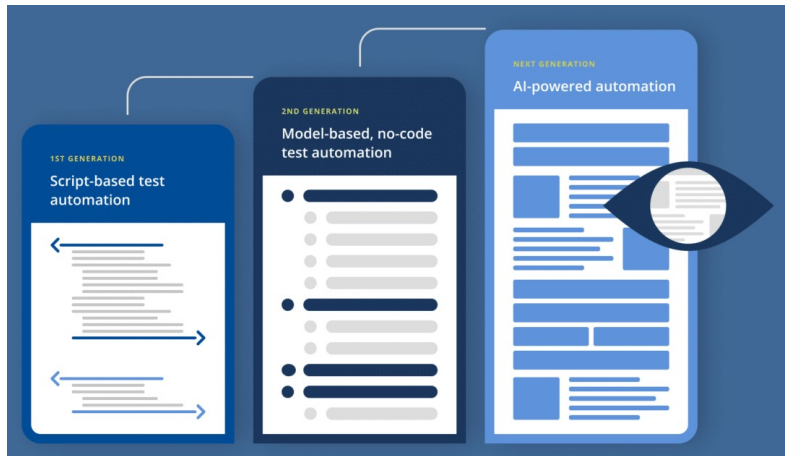


# Does it work?

Accelerate end-to-end testing of your entire digital landscape

## Tricentis capabilities

- AI-powered, codeless automation
- Test data & environment provisioning
- Application & End-to-end automation



## Traditional testing

- Manual testing is costly & resource-intensive
- Script-based approaches require technical resources to build and maintain
- Low automation rates of <20%

## Tricentis customers

- **Accelerate release cycles** and reduce test cycles times by **80%**
- Achieve **90%+ test automation rates**
- Boost release confidence and obtain business **risk coverage >85%**

#test\_smarter\_not\_harder

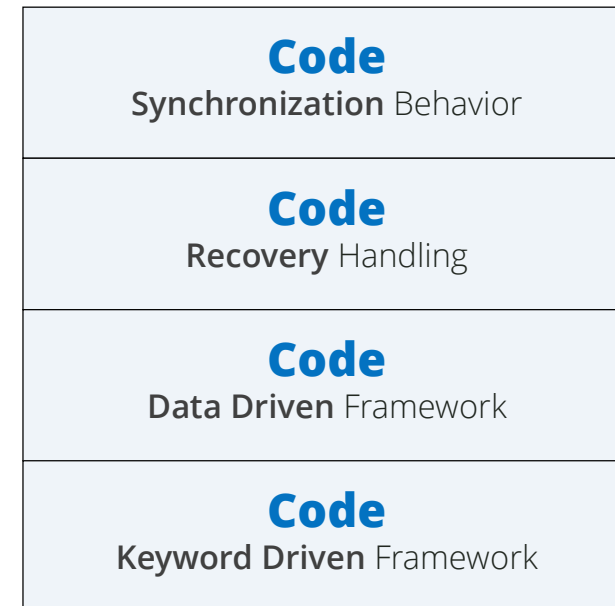
## Model-Based



|                             |            |        |
|-----------------------------|------------|--------|
| Enter Vehicle Data          |            |        |
| ab] Make                    | Audi       | Input  |
| ab] Engine Performance [kW] | 200        | Input  |
| ab] Year of Construction    | {Year}     | Input  |
| Number of Seats             | 5          | Input  |
| Fuel                        | Petrol     | Input  |
| ab] List Price [\$]         | 35.000     | Input  |
| ab] License Plate Number    | B-CD 123   | Input  |
| Usage                       | Private    | Input  |
| ab] Annual Mileage          | 10.000     | Input  |
| OK] Next                    | {CLICK}    | Input  |
| Enter Insurant Data         |            |        |
| Enter Product Data          |            |        |
| Start Date                  | 01/03/2016 | Input  |
| Insurance Sum [\$]          | 7Mio       | Input  |
| Payment Option              | Yearly     | Input  |
| OK] Next                    | {CLICK}    | Input  |
| Verify Quote Details        |            |        |
| Price List                  |            | Select |
| Insurance Sum               |            | Select |
| Gross Premium [\$]          | 1.535,22   | Verify |

Business Information

## Script-Based



```
Assert.AreEqual("1.535,22",
driver.FindElement(By.XPath("//table[@id='PriceList']/tbody/tr[10]/td[2]/b"))
.getAttribute("value"));
```

Do you see the **business** information?

# Our comprehensive approach to AI test automation

## Vision AI

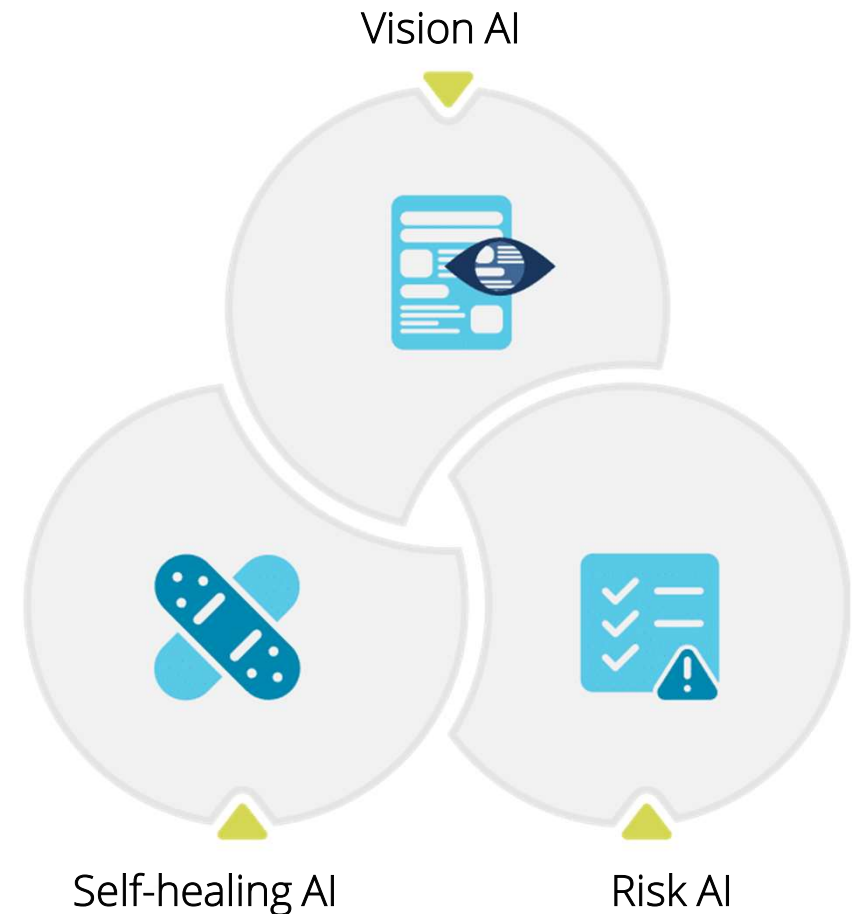
- Deep learning to understand & drive visual interfaces the same way humans do
- Introduced in Tosca 14
- Trained on 9M controls, 12.5M examples; and continuously learning

## Self-healing AI

- Continue with an action when tests break (retry, resolve or use a different case)
- Available for script-based automation of web apps; planned for mobile apps

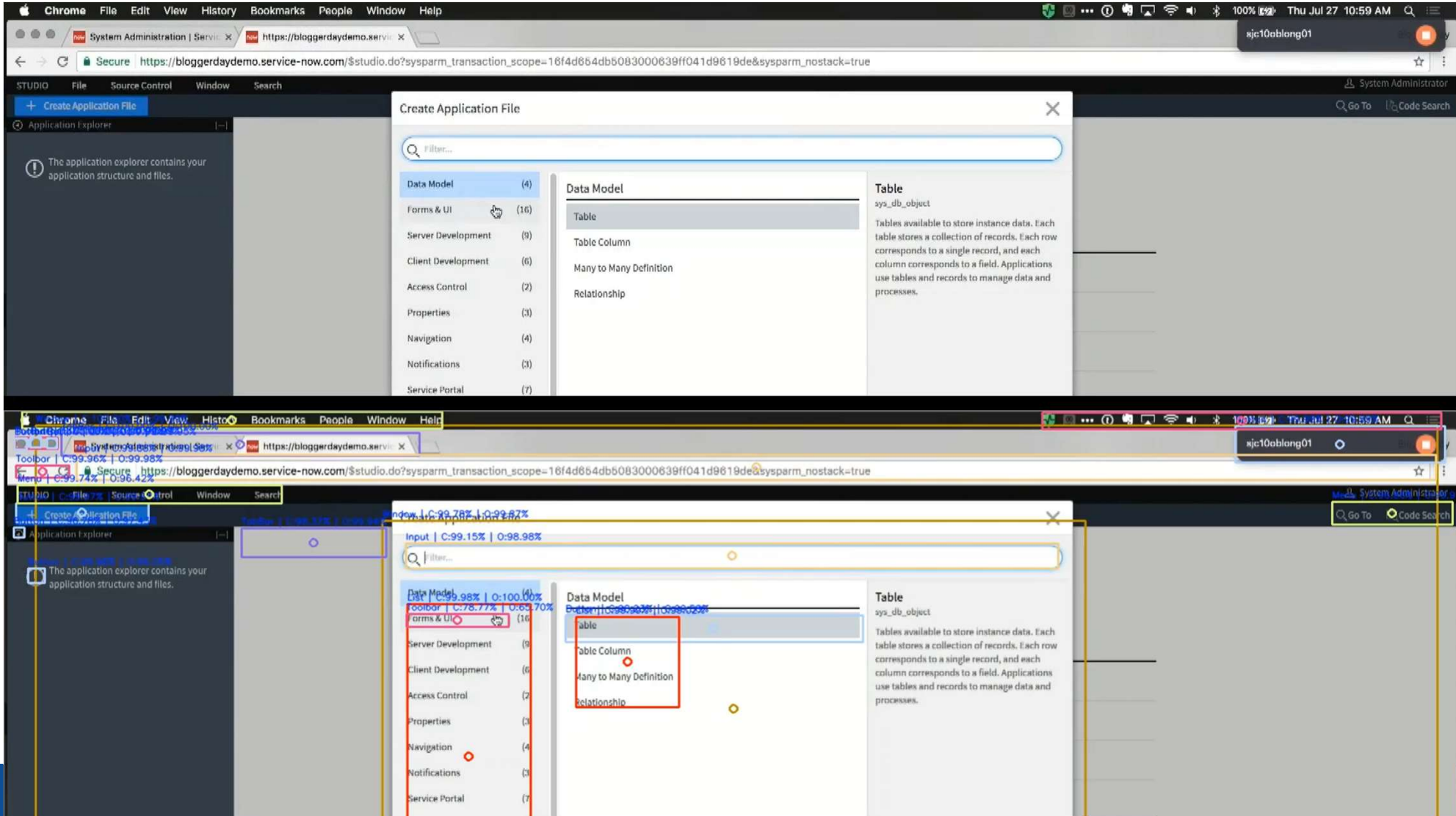
## Risk AI

- Predicting risk analytics of code changes and measuring code coverage
- Trained on 10's of MLOC of open source projects in GitHub
- Available today in LiveCompare for SAP; in early access for other applications



# Real Time object tracking

VisionAI can track controls on any technology in real time, enabling automation at the speed of sight





# Does it scale?

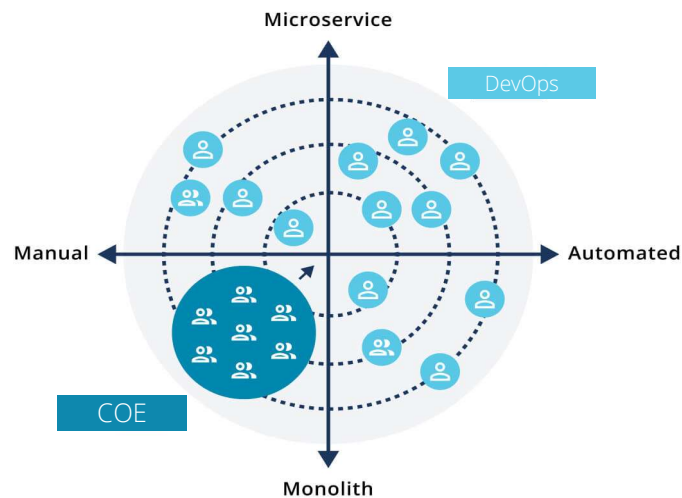
Continuous performance testing for microservice to monolith

## Tricentis capabilities

- As code & no code approaches for fast test design & maintenance
- Built-in CI pipeline integrations
- One click conversion of functional into performance tests

## Traditional testing

- Manual and slow
- Too late in the release cycle, issues difficult to find and more costly to fix
- Prevents continuous releases; leads to slow, buggy releases in production



## Tricentis customers

- Up to 80% faster test design & maintenance
- Keeps pace with releasing fast decreases production issues by up to 90%
- Few weeks learning curve, approachable for broad range of skills

#slow\_is\_the\_new\_downtime

PROJECT HOME VIEW TOOLS VERSIONING EXECUTIONLISTS API TESTING

Clipboard: Paste, Copy, Duplicate, Cut, Delete, Modify, Attach File, Create Folder, Create Object

ExecutionLists: Run, Jump to TestCase, Synchronize, Set result, Import test result, Clear Log, Open link

Baseline: Update Baseline

LC\_Demo Requirements TestCaseDesign TestCases Modules Execution x

- Y KO8G - Collective Processing
- Y VL02N - Single Document
- Y VLSP - Subsequent Outbound Delivery Split
- Y MB01 - PO Number Known
- Y MCBA - Plant
- Y ME9F - Print/Transmit
- Y IW42 - Overall Completion Confirmation
- Y MB26 - Picking
- Y CJ20N - Project Builder
- Y IW32 - Change
- Y MM01 - Create
- Y MIGO - Goods Receipt
- Y IW51 - Create (General)
- Y MD04 - Stock/Requirements List
- Y MB52 - Warehouse Stock
- Y IE03 - Display
- Y MMBE - General
- Y VT03N - Display
- Y MB5B - Stock for Posting Date
- Y CV03N - Display
- Y AS02 - Asset
- Y MM06 - Immediately
- Y ME28 - Collective Release
- Y ME2K - General
- Y MI24 - Physical Inventory List
- Y MRBR - Release Blocked Invoices
- Y VF01 - Create
- Order2Cash - WinGUI
- VA01 - Create Sales Order - EMEA
- VA01 - Create Sales Order - US
- VA01 - Create Sales Order - APAC
- ExecutionLists
- Exploratory Testing
- Interactive Testing
- Configurations
- TestEvents

Details Test configuration

| Name                          | Value    | ActionMode | LoginInfo                           | StartTime        | Duration  | Detail |
|-------------------------------|----------|------------|-------------------------------------|------------------|-----------|--------|
| VA01 - Create Sales Order ... |          |            |                                     |                  |           |        |
| 14.06.21 09:32:05             |          |            | Testcase was executed on system:    | 14.06.21 09:3... | 00:26.399 |        |
| SAP Logon                     |          |            |                                     | 14.06.21 09:3... | 00:04.754 |        |
| SAP Login                     |          |            |                                     | 14.06.21 09:3... | 00:01.103 |        |
| Fill in Password & E...       |          |            |                                     | 14.06.21 09:3... | 00:01.617 |        |
| Enter Tcode                   |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:00.729 |        |
| Create Sales Order: ...       |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:00.581 |        |
| Enter Button                  |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:01.091 |        |
| Order - Header                |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:00.755 |        |
| Enter Button                  |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:01.497 |        |
| Material Data                 |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:10.300 |        |
| Enter Button                  |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:01.512 |        |
| Order - Header - Ver...       |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:00.156 |        |
| Net value                     | 5.757,00 | Verify     | Verification was successful.        | 14.06.21 09:3... | 00:00.046 |        |
| Currency                      | EUR      | Verify     | Verification was successful.        | 14.06.21 09:3... | 00:00.016 |        |
| Save Button                   |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:01.329 |        |
| Buffer SAP Statusbar          |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:00.380 |        |
| Enter Tcode                   |          |            | System name: I03, Client: 800, L... | 14.06.21 09:3... | 00:00.482 |        |

Windows taskbar with icons for File Explorer, Edge, Chrome, and other applications. System tray shows date and time.

# Is the data correct?

Drive better business outcomes through data you can trust

## Tricentis capabilities

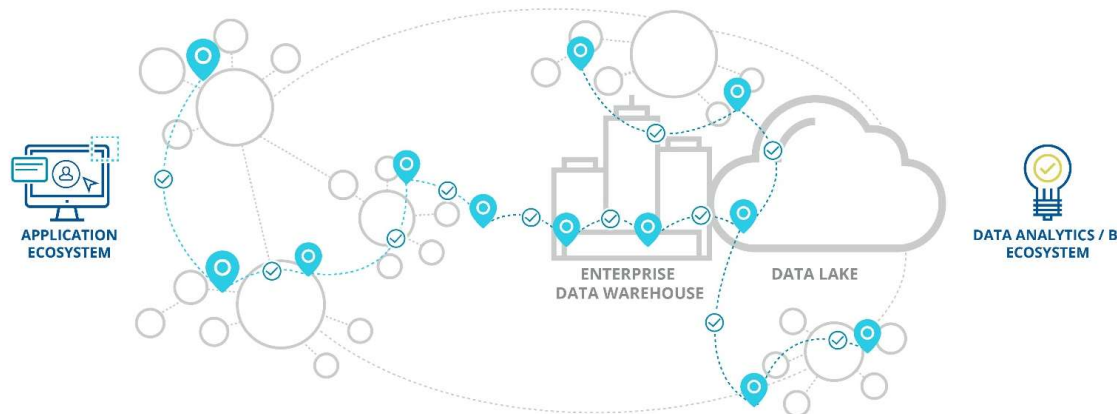
- Automated, end-to-end testing for any type of data and every data journey
- Tests tailored to catch errors on each step of the data journey
- Model-based test automation

## Traditional approach

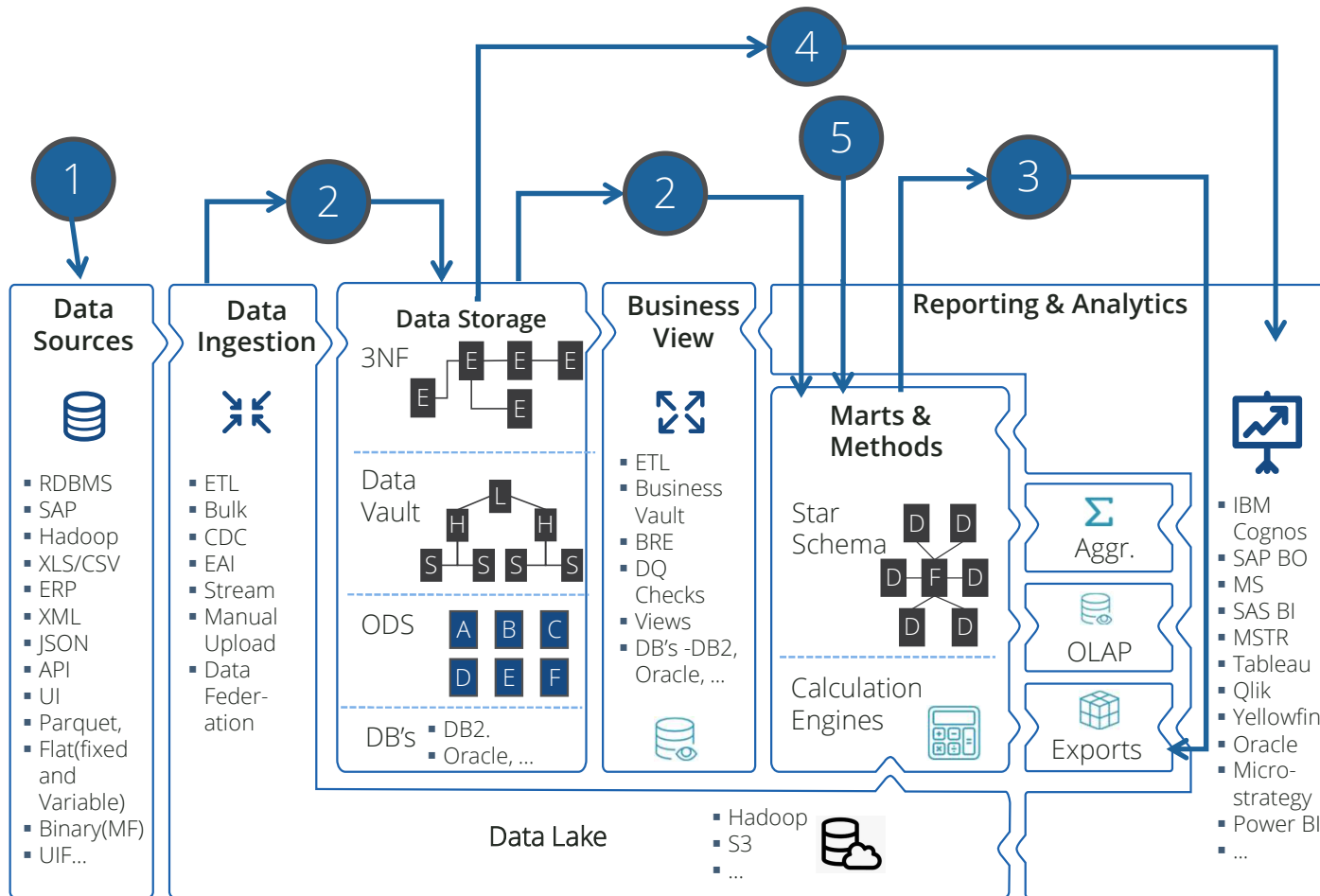
- Slow, “stare and compare” manual data testing that doesn’t scale
- Point data tools that leave dangerous data management gaps

## Tricentis customers

- Catch more data errors upfront
- Test at high volume and velocity
- Deliver higher quality analytical and operational data at scale



# End-2-End DWH/BI Testing



## 1 Pre-Screening

- Metadata Checks
- Format Checks

## 2 Vital Checks & Field Tests

- Completeness: Row Count, Min/Max, Avg, Sum Checks
- Correctness: Uniqueness, not null, Hash-Comparisons, Data Ranges
- Integrity: Relation, Domain

## 3 Reconciliation

- Row by row comparison
- Comparison of two data sets

## 4 Report Testing

- UI Automation
- Visual checks
- Content check for dimensions
- Security

## 5 Monitoring

- Track row counts
- Job run times
- Data distribution per column over time

# Is it ready?

Unified test management and analytics, from idea to production

## Tricentis capabilities

- Central repository for testing activities
- Integration and orchestration with any tool
- Powerful, customizable, shareable reporting



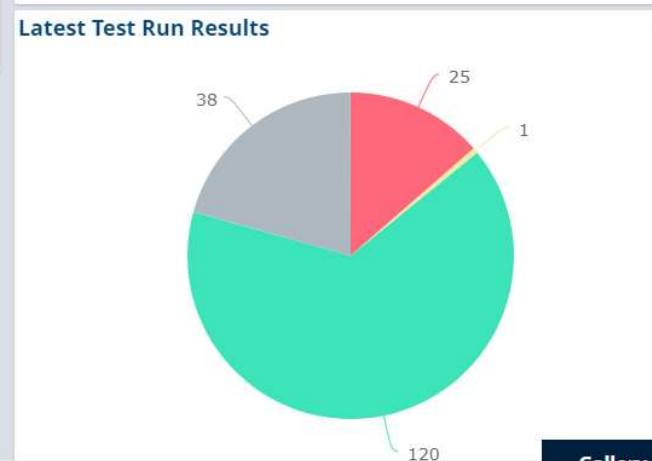
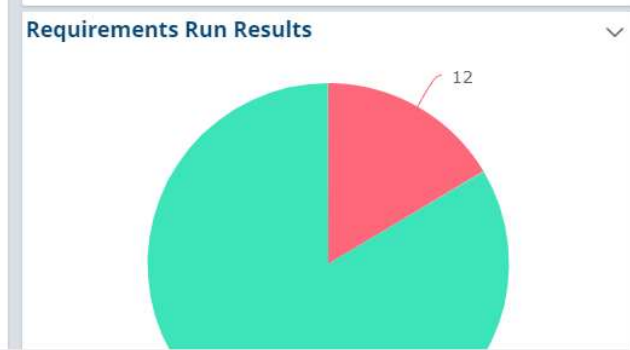
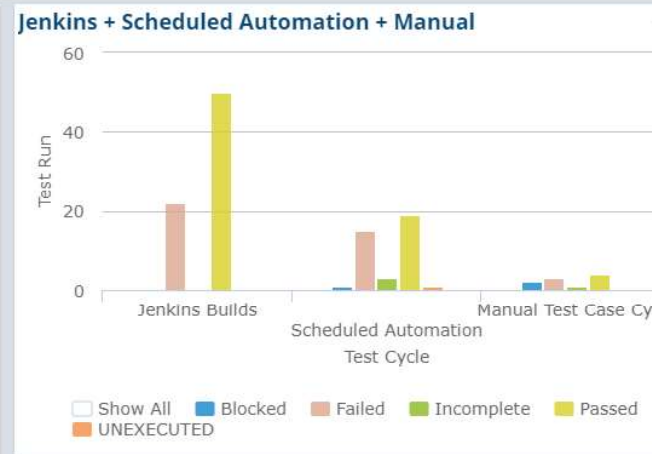
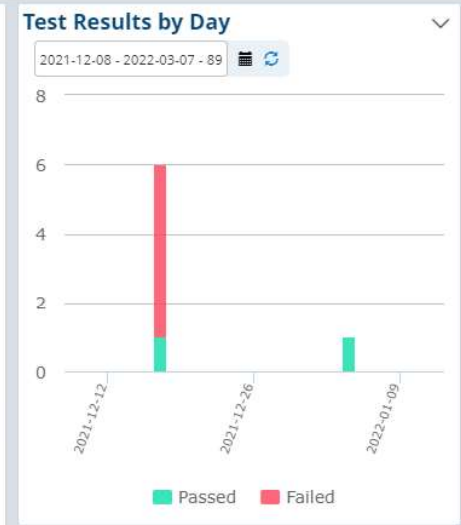
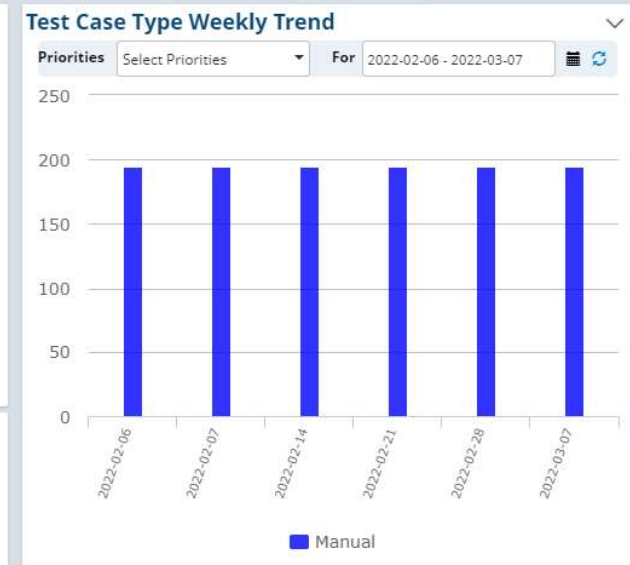
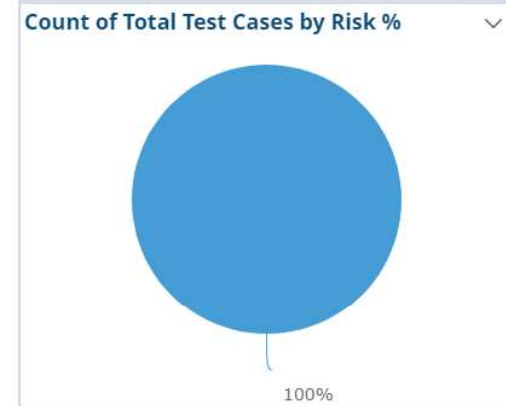
## Traditional testing

- Siloed and disconnected teams
- Disparate tools and processes
- Rigid, time-consuming reporting

## Tricentis customers

- Test faster with fewer defects
- Drive consistency and scale expertise
- Establish complete traceability
- Streamline Agile and DevOps workflows
- Collaborate across the business
- Integration with automation
- Realtime integration with Jira / AzureDevops

Tricentis  
qTest



# Create value for your business

when you transform testing from cost center to competitive advantage

Smart impact analysis



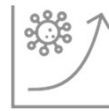
↓ **85%**  
testing effort

Intelligent test automation



↑ **90%**  
automation rate

Enterprise performance testing



↓ **95%**  
maintenance effort

End-to-end data testing



↓ **100%**  
cost avoidance

Unified test mgmt. & analytics



↑ **30%**  
project capacity

**10x** faster release cycles

**40%** cost reduction

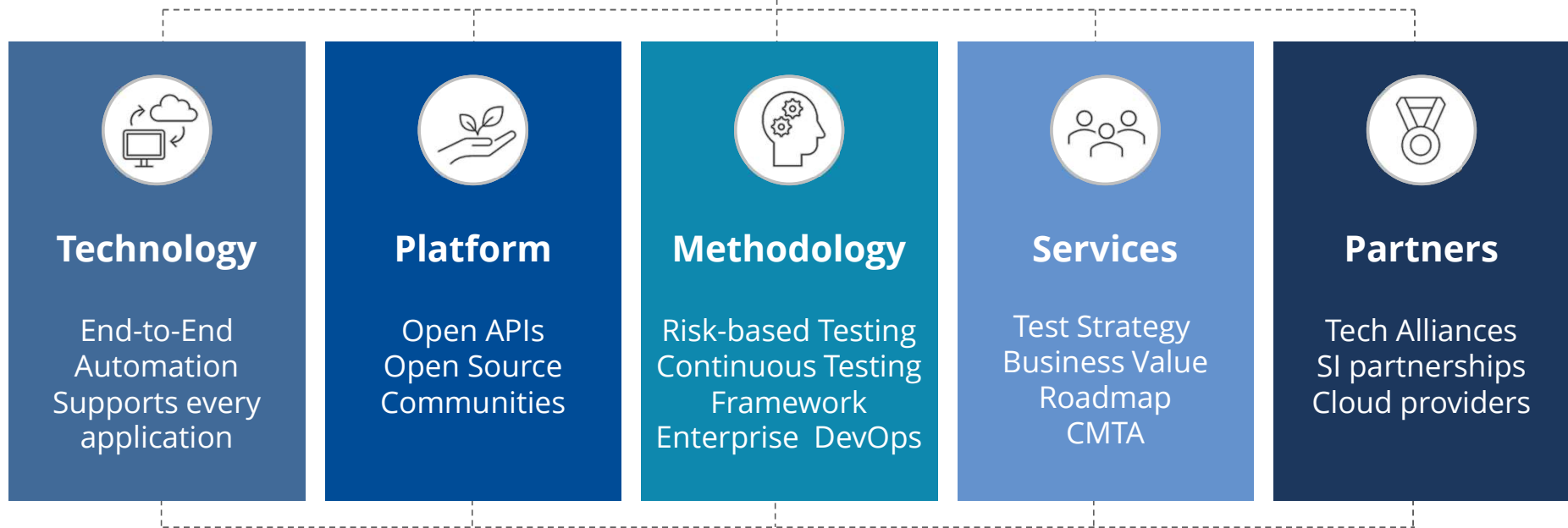
**90%** risk coverage

# What makes Tricentis **unique**

It's a combination of several differentiators



Enabling every organization to deliver quality software at speed





# We are Tricentis.

The global leader in Continuous Test Automation



Named leader in industry  
analyst vendor ratings

**2,100+**  
customers

Installed base  
world-wide

**100,000+**  
certified

Tricentis test  
automation engineers



Strategic Alliances & Partnerships

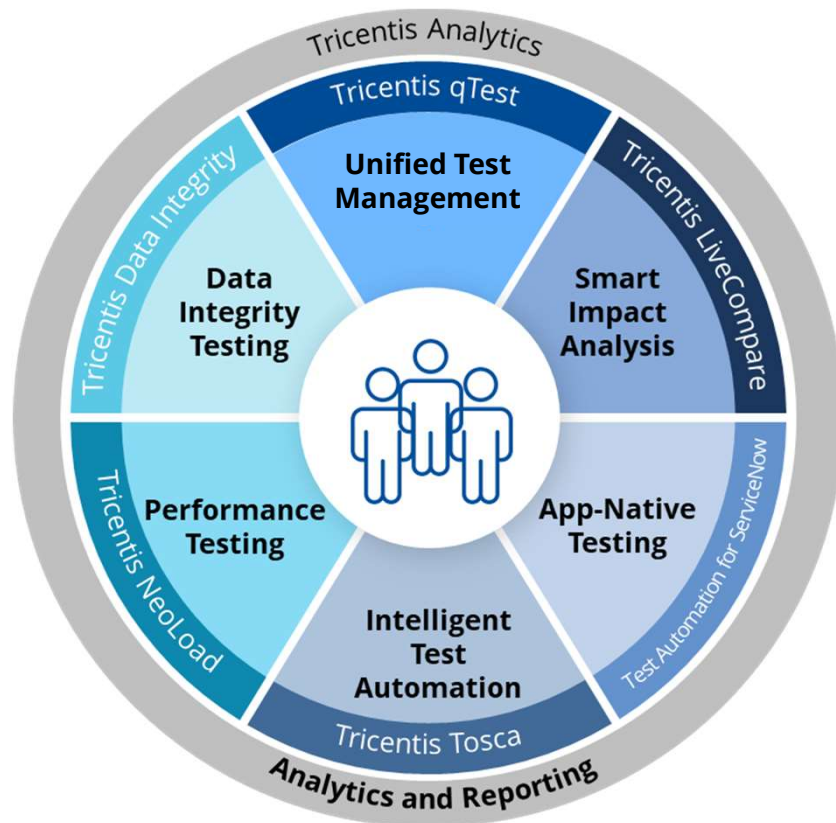


Thank you!

[f.wolff@tricentis.com](mailto:f.wolff@tricentis.com)

[www.tricentis.com](http://www.tricentis.com)

# The Tricentis Platform Difference



- **Full testing lifecycle**  
*a common information model enables developers, testers, and business users to collaborate on a common set of test cases, plans, data, and artifacts for use across all phases of testing, from unit to performance.*
- **Real-time analytics**  
*get comprehensive visibility and insights for all your testing activities in one place with our reporting and data warehouse integrations.*
- **Traceability**  
*trace production deployments all the way back to business and functional requirements with our best-in-class Jira and DevOps ecosystem integrations.*
- **AI-powered**  
*advanced ML technologies such as Vision AI, Self-healing AI and Risk AI enable teams to test smarter, faster, and reduce the business risk of application changes.*
- **Open platform**  
*the Tricentis platform supports and orchestrates a broad range of open-source and commercial technologies*