SAP Enterprise Performance Testing by Tricentis

Bruno Duval – Senior Director Solutions Architect

SAP Solution Extensions

1

Lets set the scene…

What to test?

Smart Impact Analysis

—

Risk-based optimization

Tricentis LiveCompare

Does it work?

Intelligent Test Automation

—

App-native test automation

Tricentis Tosca

Does it scale?

Enterprise Performance Testing

Tricentis NeoLoad

Is the data correct?

End-to-end data testing

Tricentis Data Integrity

Is it ready?

Unified Test Management

—

Real-time Analytics

—

Security & compliance audit trail

Tricentis qTest

Why Performance Matters

The Challenge

SAP Transformation: SAP landscapes are rapidly transforming driving innovation and efficiency.

Integration Complexity: Increasing integration complexity for modernization initiatives

The Risks

Poor Business Process Performance disrupt operations, impact revenue, and damage reputation.

High-risk siloed or manual validation approaches increases risk, slows delivery, and adds high maintenance overhead.

Delays Drive Cost Overruns and unexpected cloud expenses.

Navigating Performance Risks in SAP Transformations

1

- **Unpredictable System Behavior**: Integrating diverse applications and transitioning to cloud or hybrid environments may lead to latency and scalability challenges.

2

- **High-Stakes Deployments**: Performance issues identified late in the process can cause delays, increase costs, and disrupt business operations.

3

- **Underutilized Optimization Opportunities**: Viewing transformation solely as a technical upgrade may result in missed chances to enhance system efficiency and user satisfaction.

Optimize the benefits of your technology stack
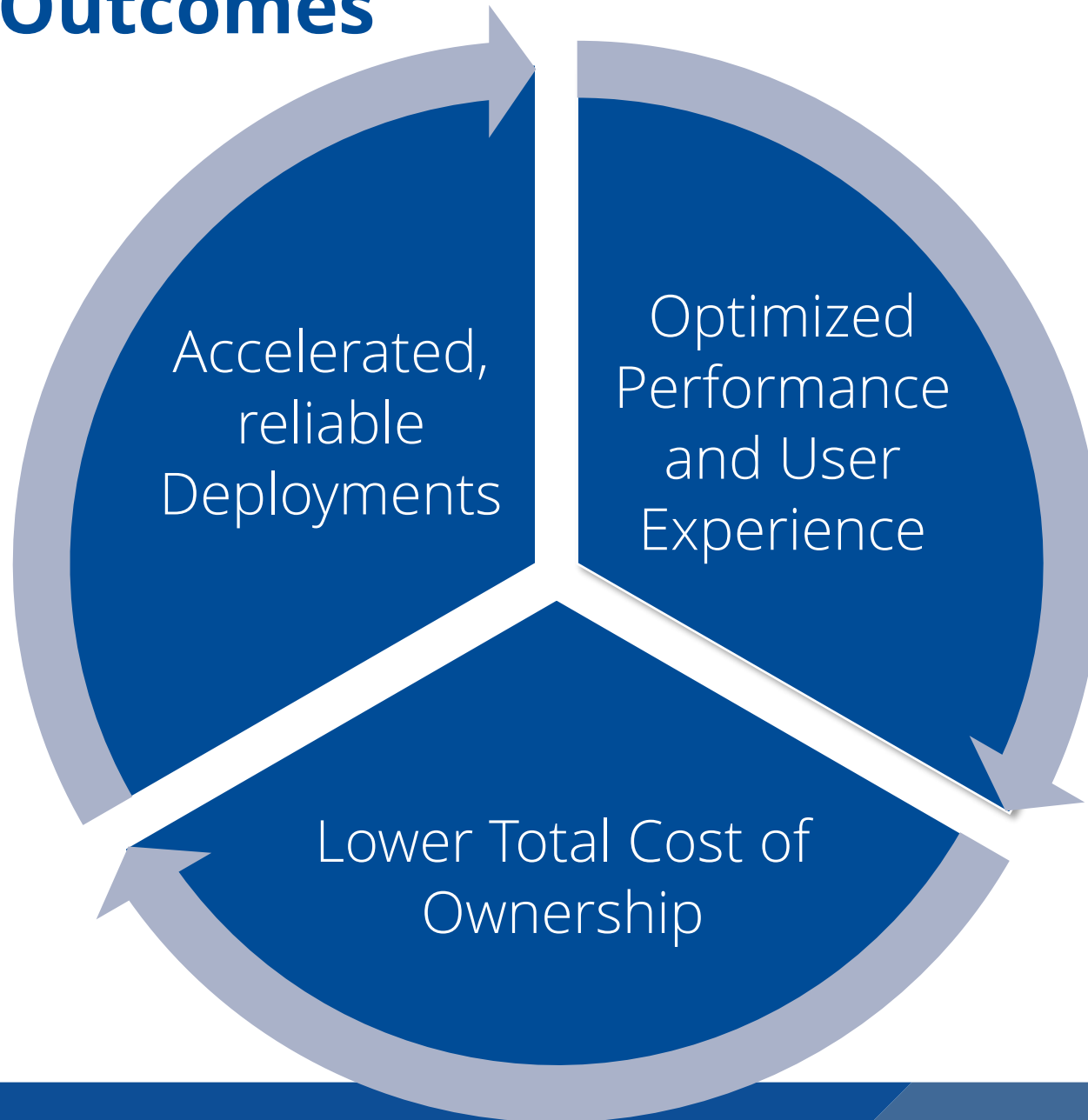
Your digital landscape is increasingly complex

- Business process are composable
- Interconnected
- Wide variety of technology

Ensure scalable, high-performing, and resilient systems

- Ensure Deployment Stability
- Optimize System Performance
- Embed Continuous Testing
- Test Across the Enterprise

Key Business Outcomes

Accelerated, reliable Deployments

Optimized Performance and User Experience

Lower Total Cost of Ownership
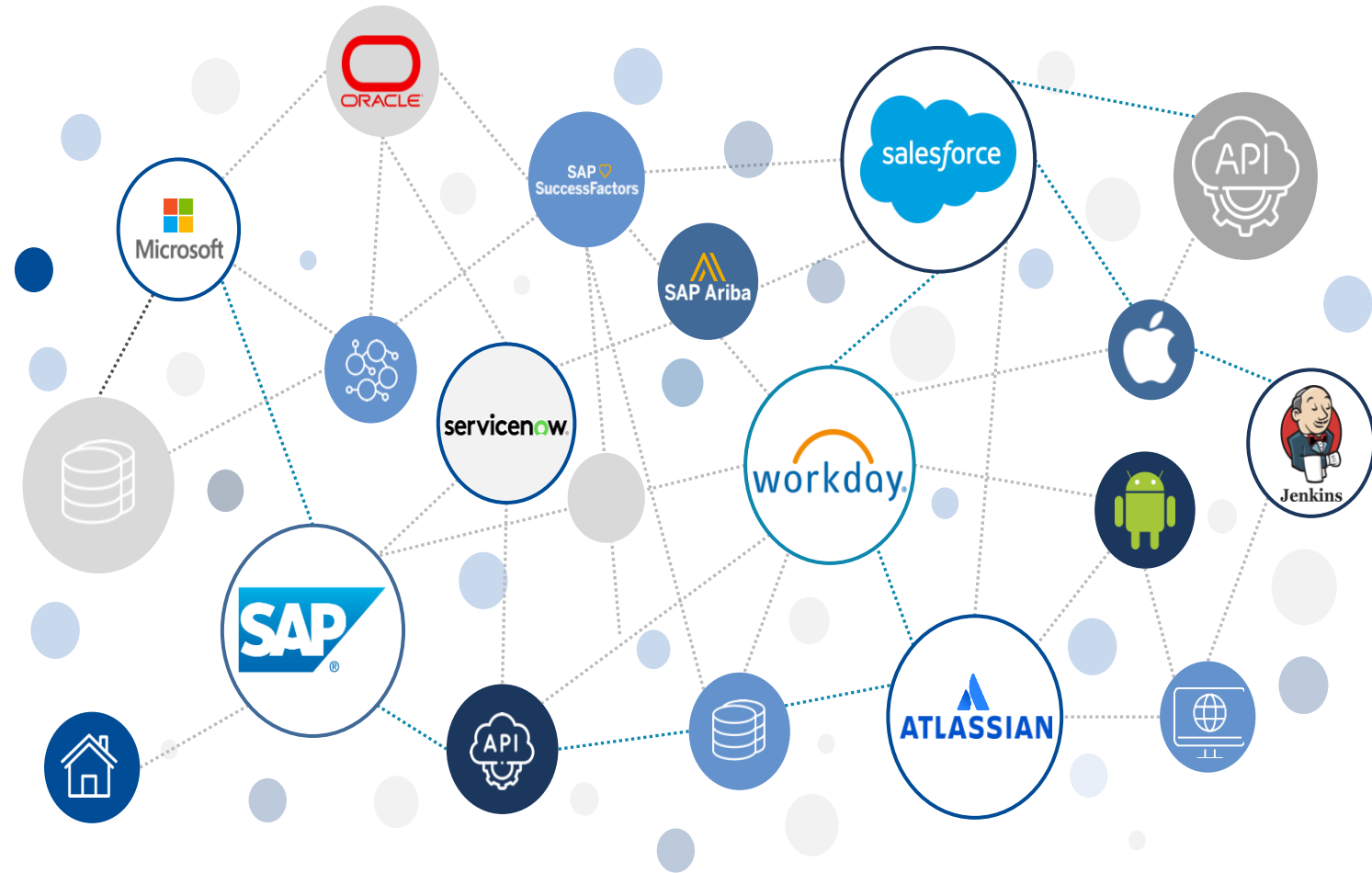
standardizes Performance Testing with

Continuous Performance Testing - Dell uses Tricentis Neoload already for 10+ years

Unique Performance Testing Platform for applications like Web, SAP GUI, SAP Hybris,...

Ranbir Singh, Management Information Systems Director, describes SAP as the "backbone of the business," accessed daily by 2,000 sales representatives, and managing the entire ordering flow. 35,000 orders per quarter are supported by the application.

SAP is business critical for Dell. Performance is business critical too for Dell.
Slow SAP processes or outages due to performance bottlenecks directly impact the business.
The volume of SAP testing currently represents 120 performance tests per year.

RESULTS

+24%
Resource efficiency

-40%
Script Design

-30%
Script Maintenance

https://www.tricentis.com/case-studies/dell-adopts-neoload-sap-gui-one-stop-shop-performance-testing

Tricentis

How it works
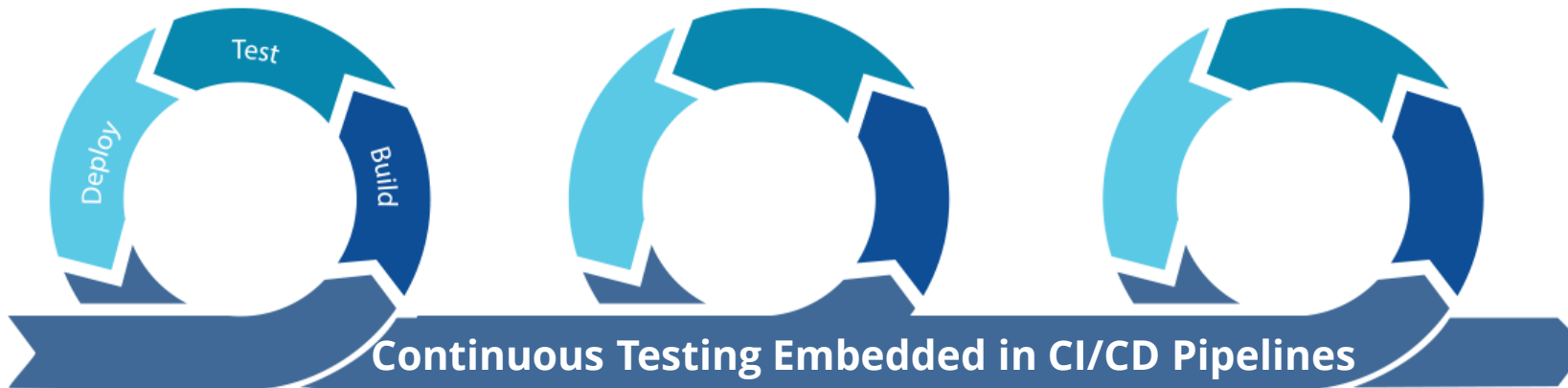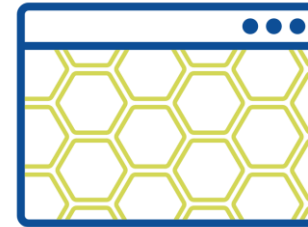
Continuous Performance Testing

API Testing

- Test a component

Integration Testing

- Test a system
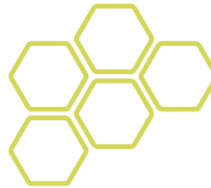
Application Testing

- Test pre-prod

Test
Deploy
Build

Continuous Testing Embedded in CI/CD Pipelines
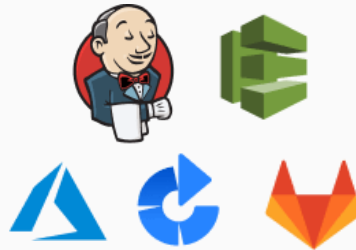
Tricentis

Natively integrated performance testing

As a force multiplier to existing tools, data and outcomes

Tricentis Tosca

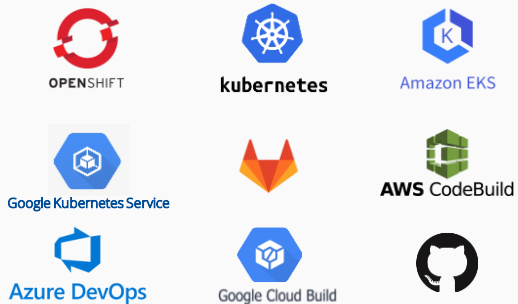**Functional testing**

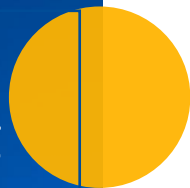**Continuous integration**
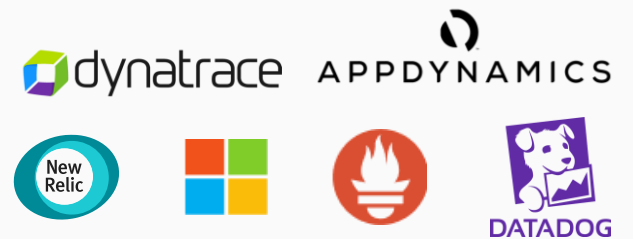
Performance monitoring

Kubernetes & cloud CI

SAP **Tricentis Tosca**

SAP testing

Open API & SDK

Enterprise Performance Testing

Benefits

Self-Healing Codeless Test Design
Drag & drop interface | Auto-correlation

Comprehensive SAP Coverage
SAP GUI | Fiori | IDocs, | RFC | more...

Continuous Business Assurance
CI/CD | Agile | Rapid feedback

Cloud Cost Optimization
Prevents over-provisioned cloud capacity

The Performance Testing Advantage

New Test Creation
For new test designs, the average time savings is **60%** over scripted tool like JMeter and LoadRunner

60%

Test Maintenance
For test maintenance, average time savings is **90%** compared to scripted tools like JMeter and LoadRunner

90%+

TIME SAVED

*Reduced performance test maintenance costs by
99.4%

*Increased frequency of performance testing
12.5 to 25x

* Forrester Study: Total Economic Impact of Tricentis for SAP

Accelerate Performance Testing

Accelerate all steps
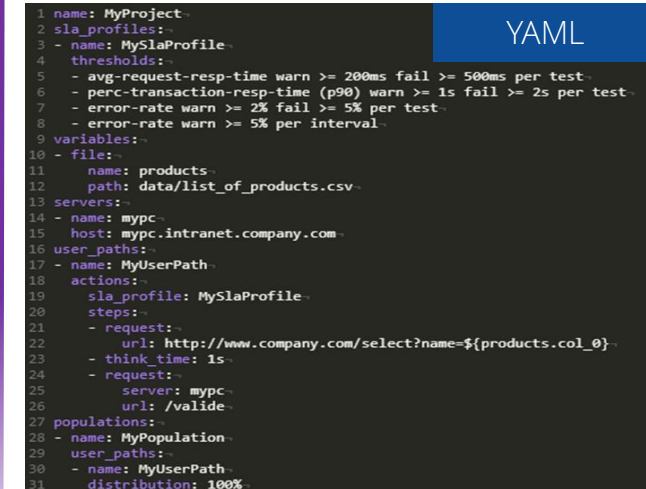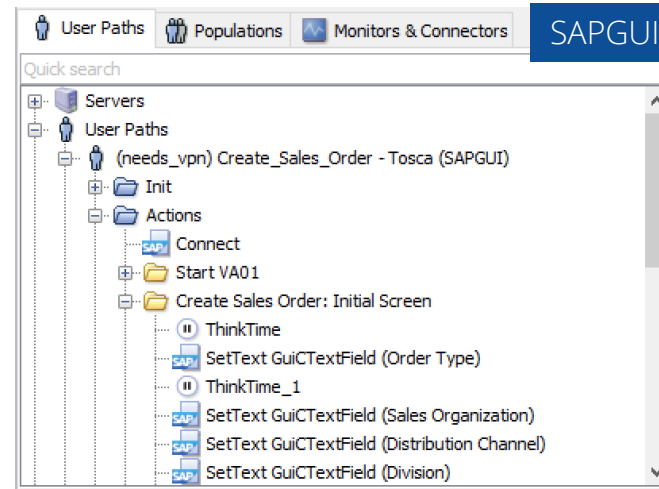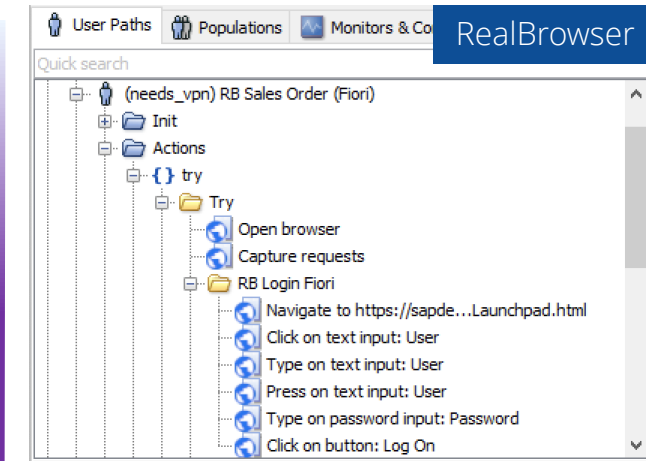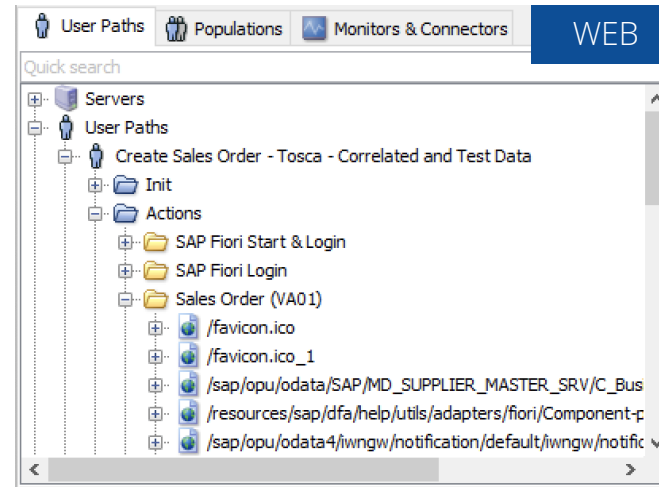
- **Design**
  - Visual Test Editor
  - Drag and Drop logic
  - Frameworks, Dynamic Detection
  - Real Browser
  - Files, databases, Dynamic data
  - Content, size, speed validation
  - Service Level Agreements
  - Monitoring or APM integration
  - User path maintenance automated
  - Import test cases from 3rd parties

- **Runtime**
  - Real time insight
  - Infrastructure dynamic (Cloud or containers)
 - Linux or Windows LG

- **Analysis**
  - Real time insight
  - Collaboration
  - Integration with 3rd parties

Integrated with Tosca/ECT

- Transferring Functional Tests to Neoload
  - More than just pressing play (▶) and clicking record (⬤)
  - Neoload GUI Design API means Transactions are carried across
    - New recordings…
    - Userpath update…
  - More to come?
    - Neoload execution of Tosca Test Cases
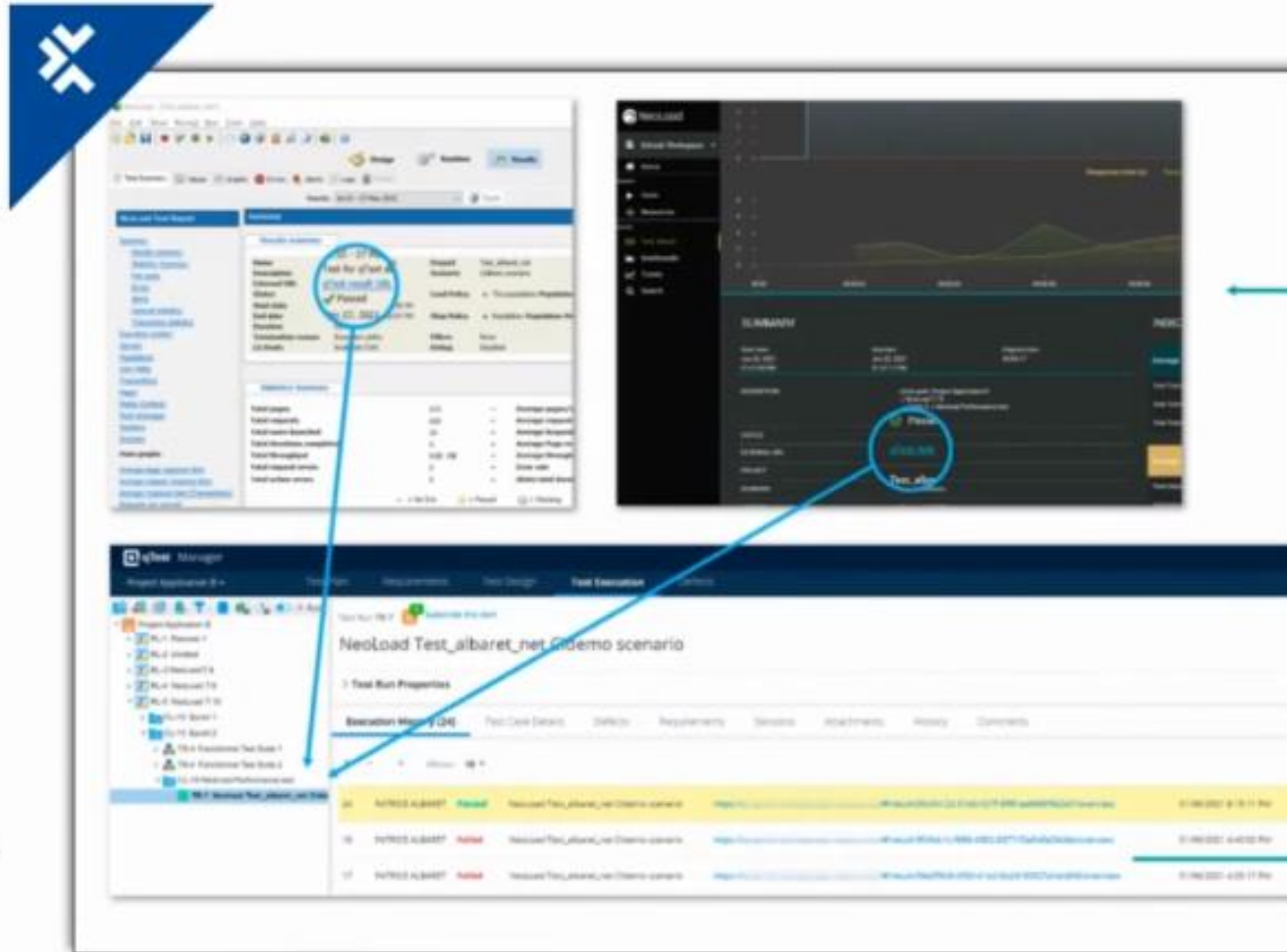   - Browser Rendering Timings
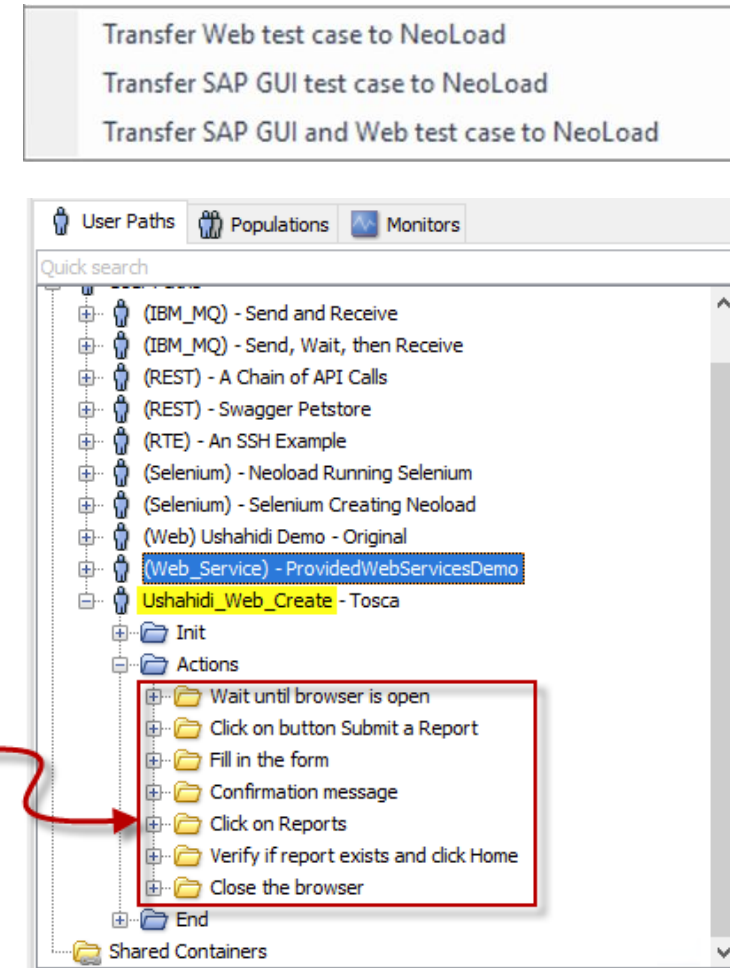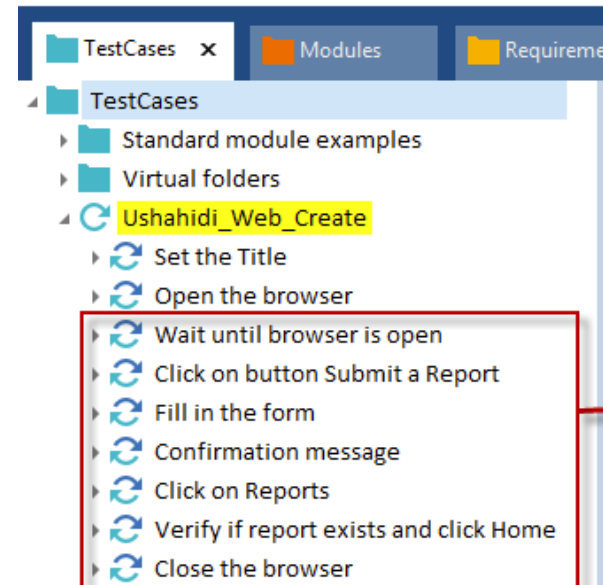
Integrated with Tricentis qTest

Tricentis qTest + Tricentis NeoLoad

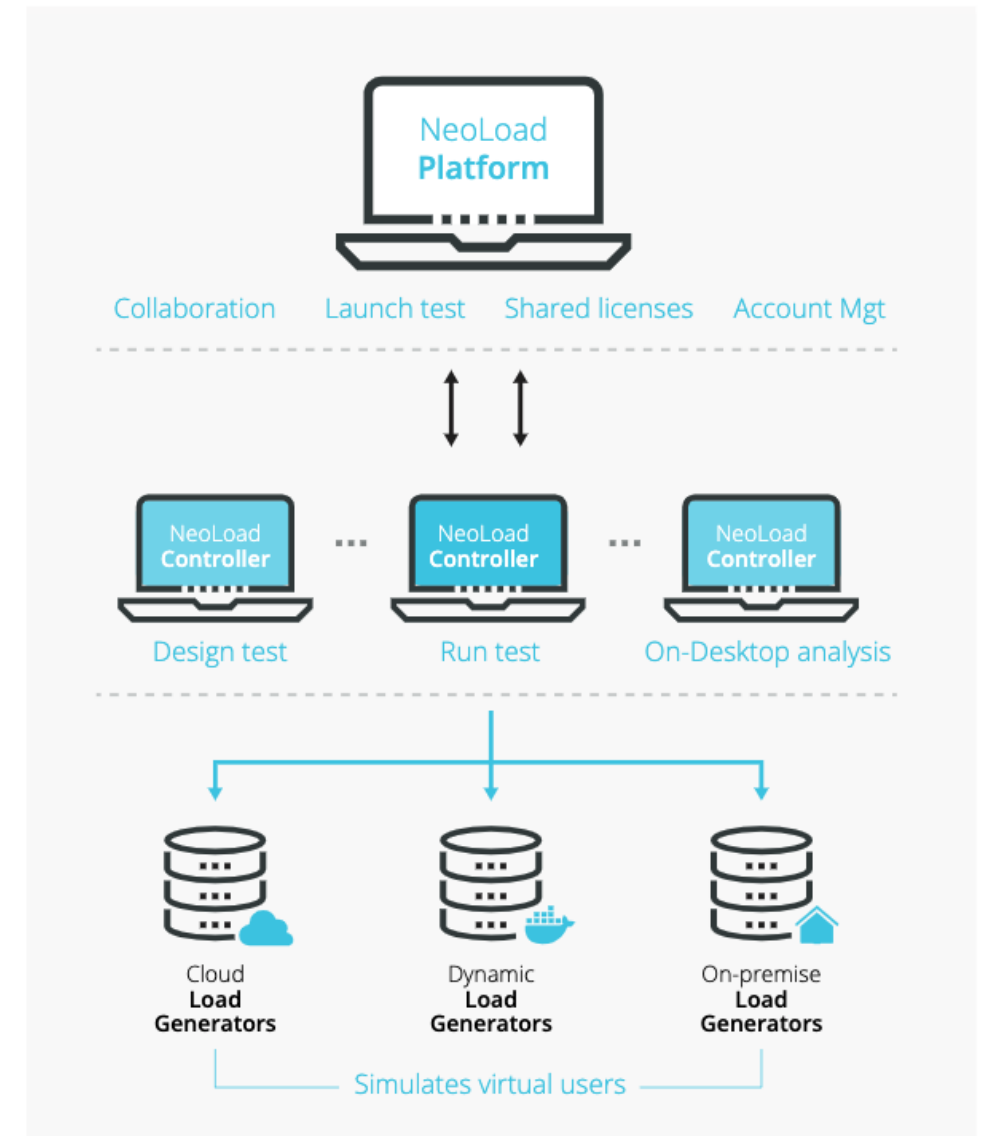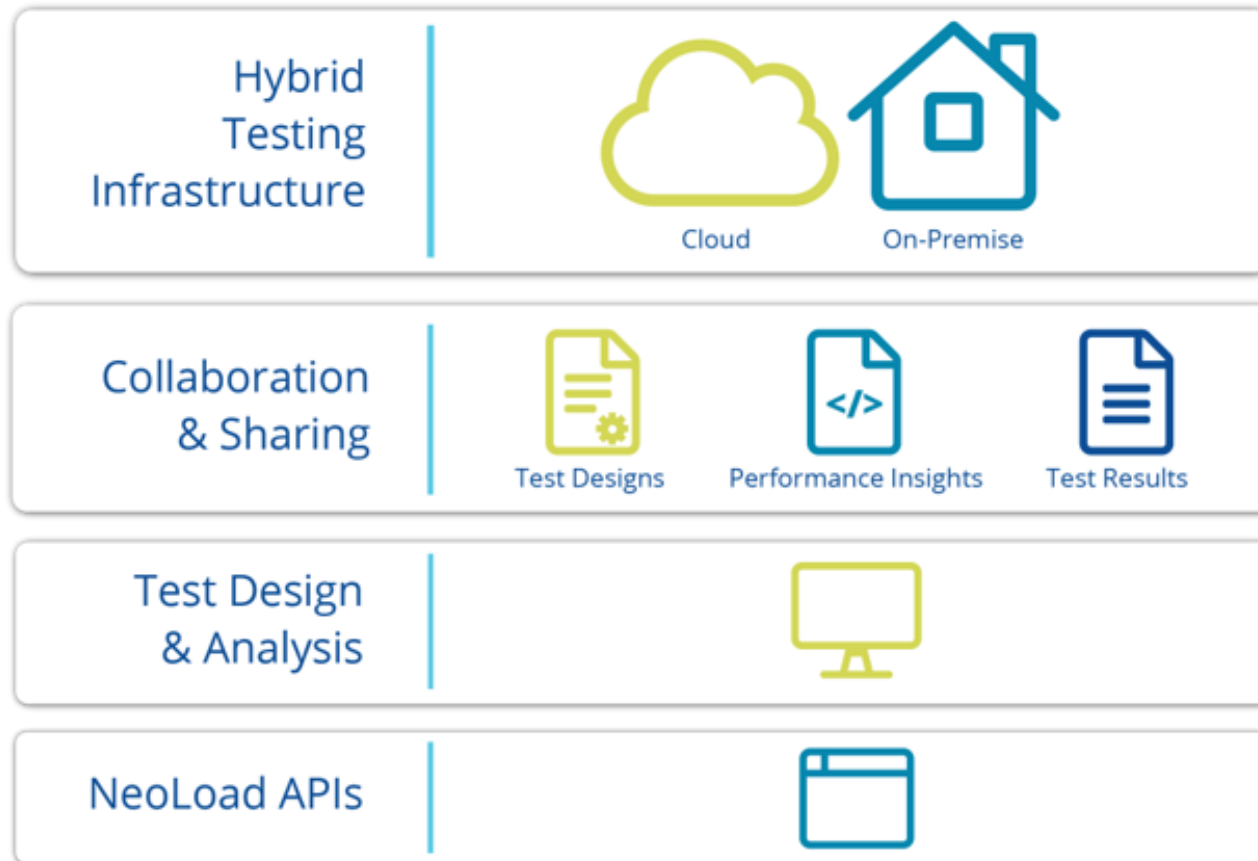Put performance testing in context, and get a complete, holistic view of quality

- Out-of-the-box integration
- Two-way visibility into performance testing and overall release readiness
- Single, holistic view of quality

Integrate qTest and NeoLoad for a centralized view of quality, accessible to all your teams and stakeholders

Tricentis

NeoLoad platform

Demonstration

SAP Solution Extensions