

Tricentis

Ferrie Wolff

De-Risk & Accelerate the journey to the Intelligent Enterprise

 Tricentis

Why **SAP** Chose **Tricentis** as Its **Official** Testing Solution

Tricentis-SAP Partnership Value

Partnership OEM | Product Reselling | Co-Development | Premium Support

The Global Leader in Enterprise Testing Solutions

- Leader in Gartner Magic Quadrant
- Proven Results in the World's Biggest Brands
- Versatile Platform for Customers at Any Stage of SAP Modernization

Enterprise-Grade Platform for SAP Testing and Beyond

- Model-Based Automation for Resiliency and Scalability
- Risk-Based Approach That Minimizes Business Downtime
- Seamless Integrations for SAP and Non-SAP Testing

Modern, AI-Driven Technology for Easy Adoption

- AI-driven Impact Analysis for Fast, Safe Changes
- OnPrem and Cloud-Based Architecture
- No-Code, Business Friendly Platform for Easy Adoption

A high-angle aerial photograph of two skydivers in freefall over a coastal region. The skydiver in the foreground is in a spread-eagle position, while the second skydiver is slightly above and behind. The landscape below shows a coastline with turquoise water, sandy beaches, and brownish terrain. A faint rainbow is visible in the upper left portion of the sky.

Would **you** do this ?

Under what **conditions**?

What do you think you **need** to be **"ready"**?

Top Risks in Digital Transformation Projects

85%

SPEED

Delayed release

51%

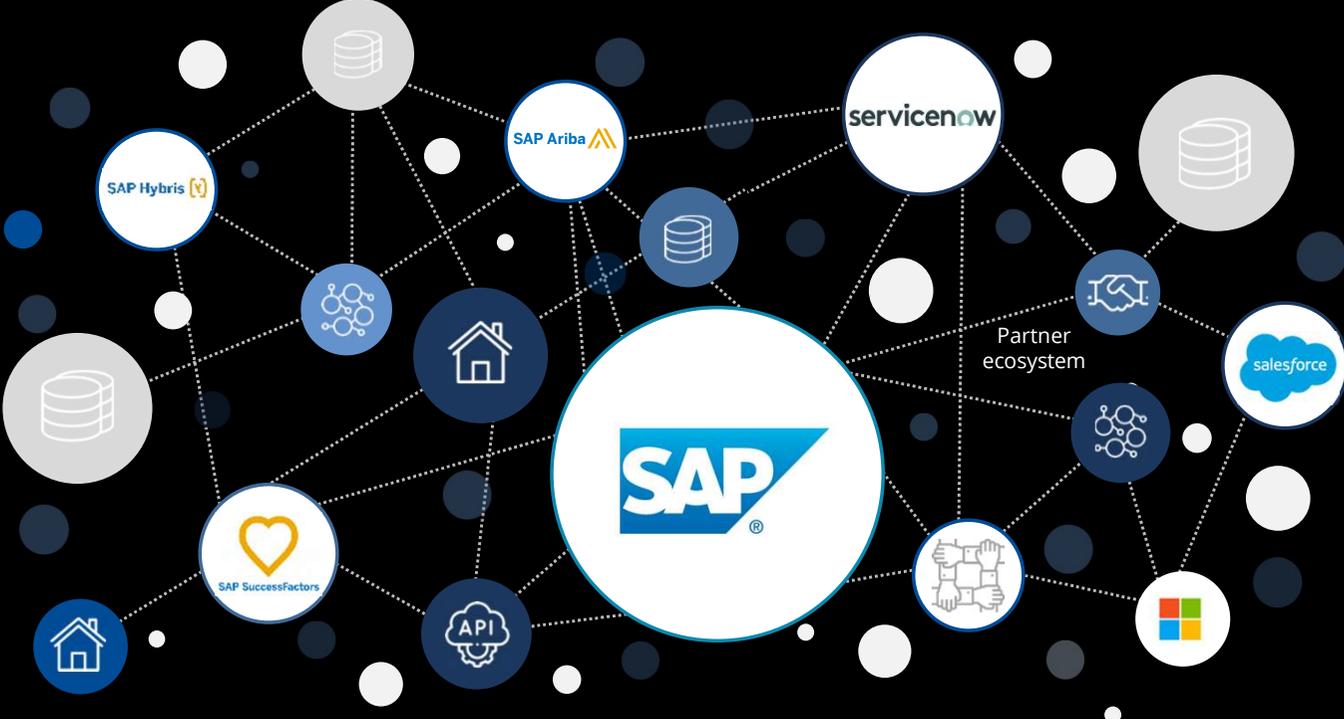
QUALITY

Business disruption

41%

COST

Exceed budget



Source: ASUG and Tricentis research, August 2020

What **accelerates** innovation?

Where is the risk?



📌 Change Impact Analysis

✂ LiveCompare

Does it work?



📌 Enterprise Continuous Testing

✂ Tosca 📌 Service Virtualization - OSV

Is the data correct?



📌 Enterprise Data Integrity Testing

✂ Tosca DI

Does it scale?



📌 Enterprise Performance Testing

✂ NeoLoad

1 Not knowing what has been impacted

2 High frequency of application changes

3 Availability of test data

4 Are the decisions we are making, correct?

5 **Slow** is the new **downtime**



Duke Energy

Duke delivers on transforming customer experience with the move to SAP S/4HANA

PROJECT BACKGROUND

- Transform the customer experience starting with streamlining internal billing systems for a universally optimized customer experience
- Duke's In-house testing would be a critical component to the project's success

COMPLICATIONS | CHALLENGES

- Consolidating 4 different billing applications into a single system
- Ensuring new SAP project did not negatively impact critical business processes
- Automating testing for multiple SAP applications –SAP for Utilities, SAP Marketing, SAP commerce cloud, ICU, C4C, Fiori and Customer recommendation engine

SUCCESSFUL OUTCOMES

- Test automation is viewed as high quality, high business value
- Advanced from waterfall to weekly SAP releases
- Defects discovered earlier, enabling faster and more efficient defect resolution

250

End-to-End Tests
Run Weekly

0

Defect
Releases

150

Unattended Tests
Run Nightly
(under 12 Mins)

Finished
7 months
earlier!

Vertical Leaders Get Value out of Tricentis Solutions

Retail



Life Sciences



Consumer Goods & Products



Manufacturing



Public Sector



Utilities



SPAR's ultimate goal:
— combine online and offline business to meet customer expectations as shopping habits rapidly evolve

Testing objectives go beyond test automation
— it's about optimizing the entire software delivery pipeline ensuring business stability and support rapid innovation.





Application Testing Solutions by Tricentis

Does it **work**?

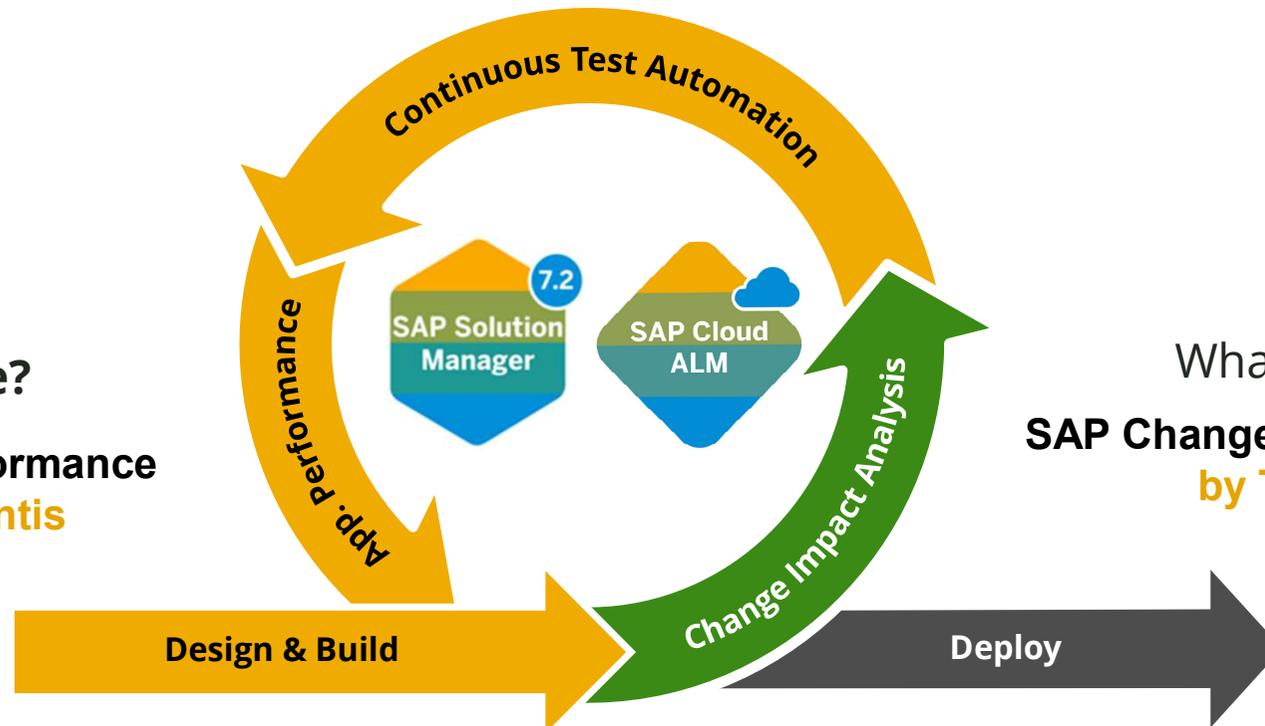
SAP Enterprise Continuous Testing
by Tricentis

Does it **scale**?

SAP Enterprise Performance
Testing by Tricentis

What to **test**?

SAP Change Impact Analysis
by Tricentis



Is the **data** correct?

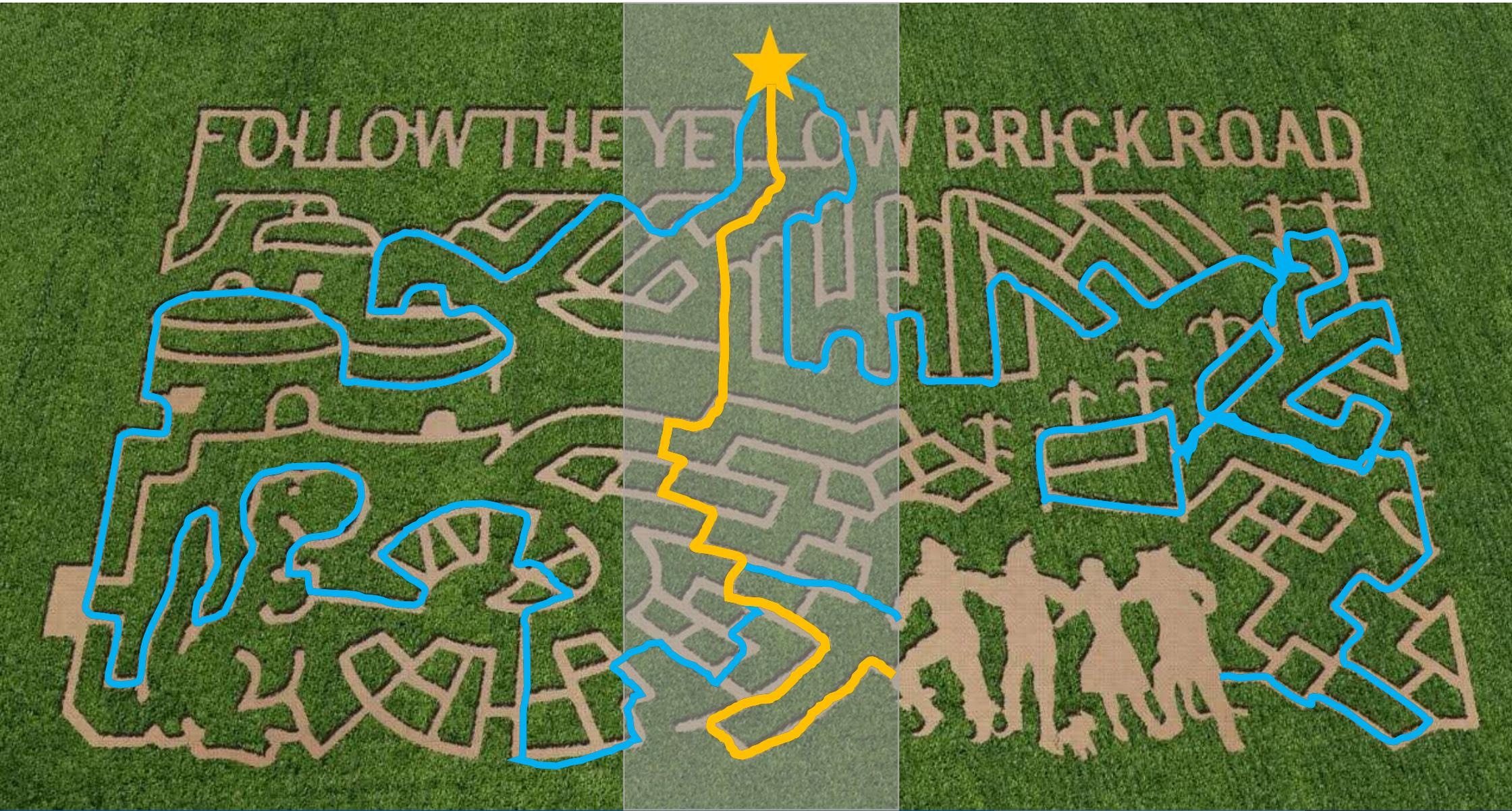
SAP Enterprise Data Integrity
Testing by Tricentis



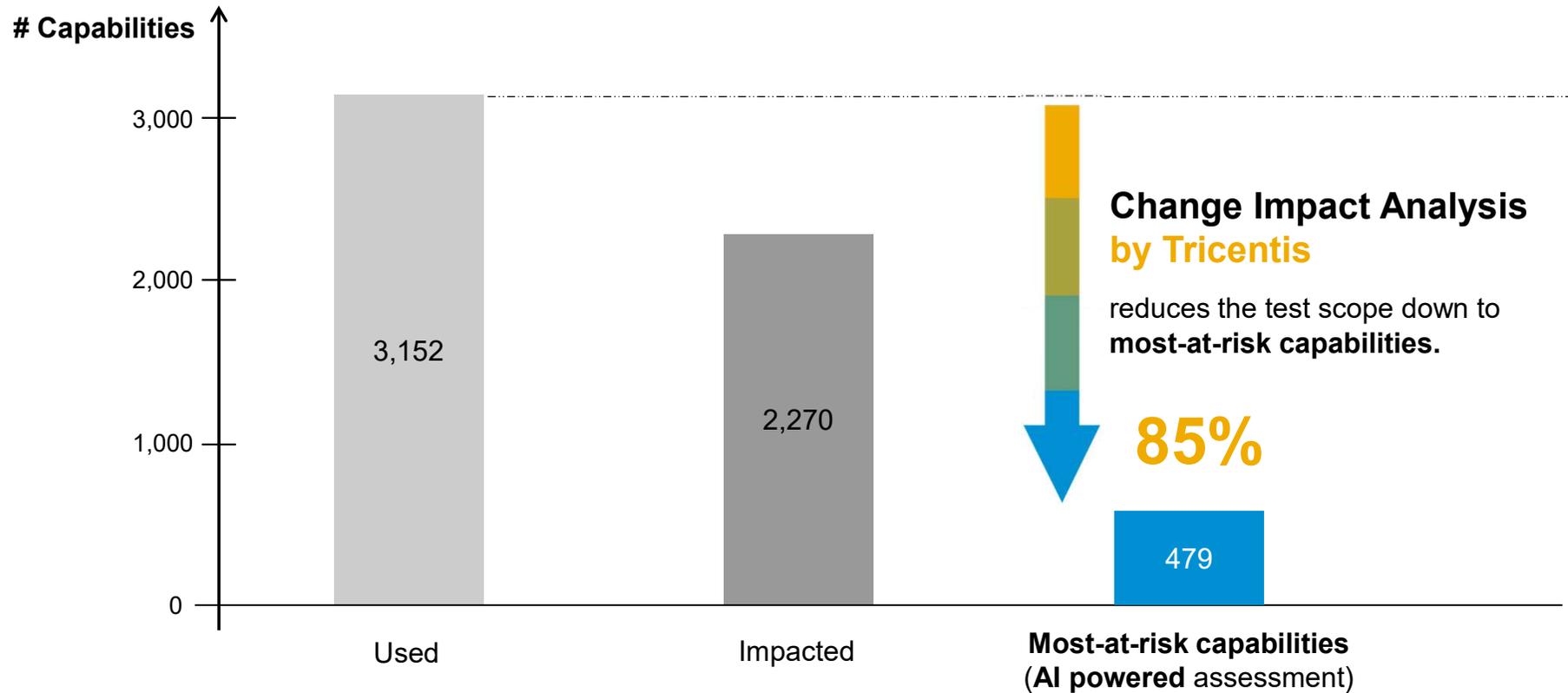
What is the most **direct** way out?



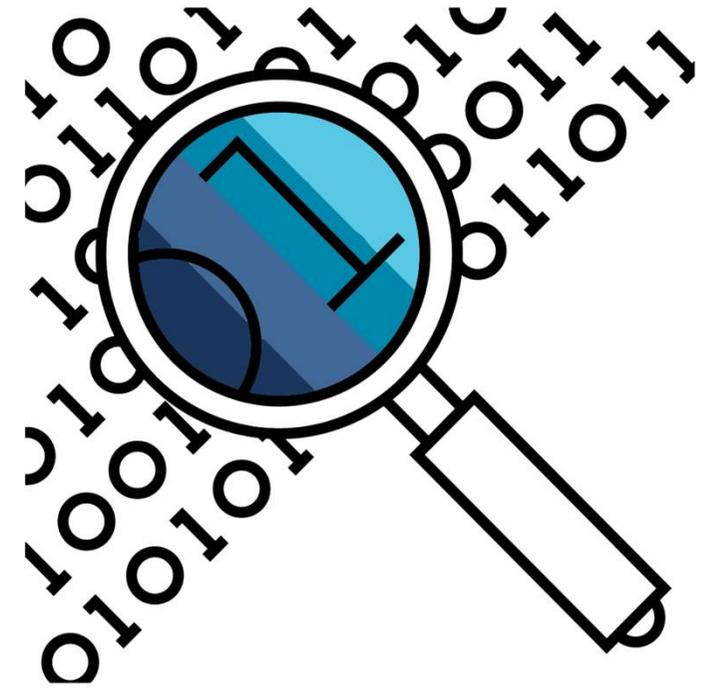
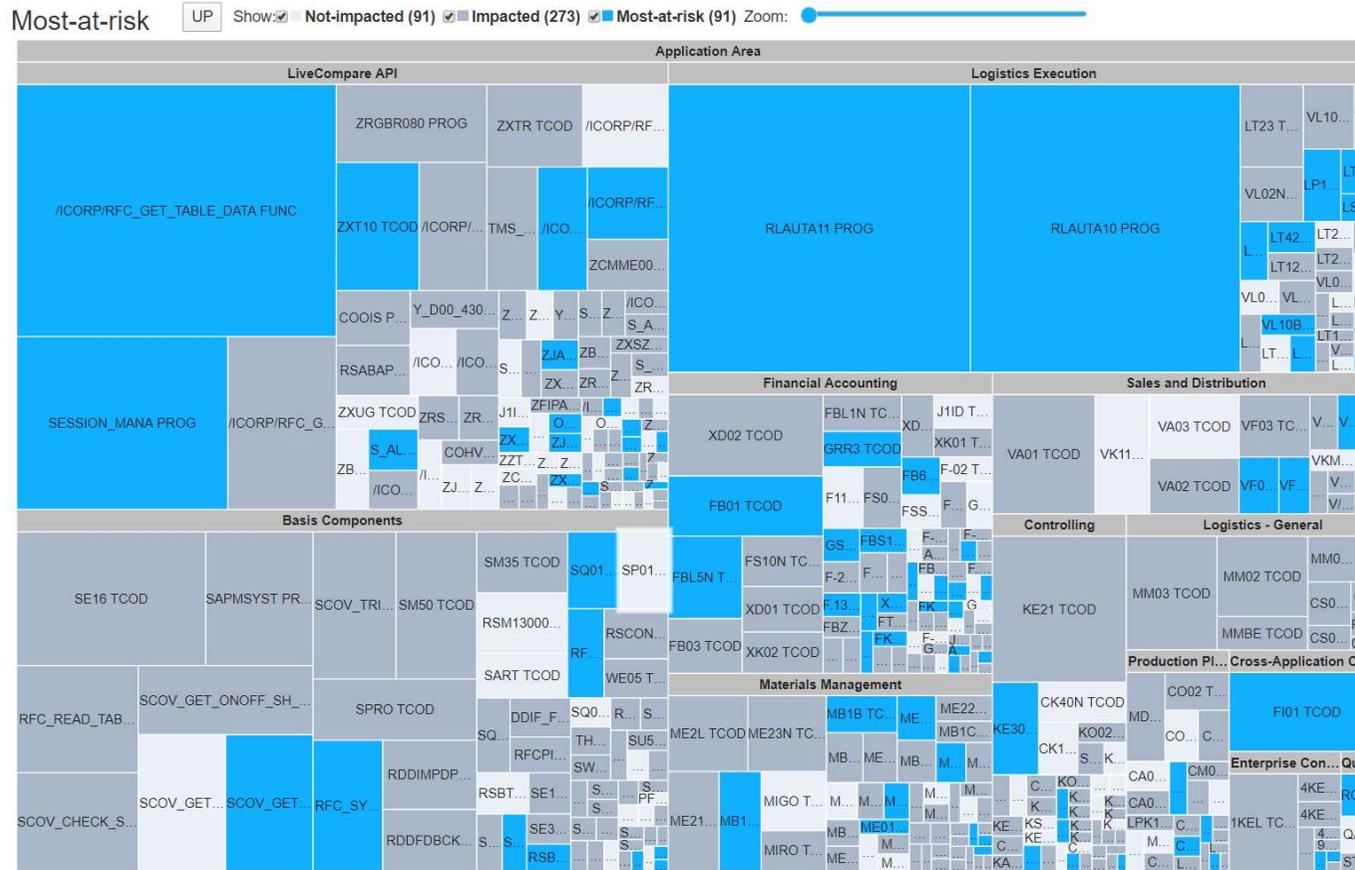
What is the most **direct path** out of the maze?



Bring Acceleration & Cost Avoidance Through Test Scope Reduction

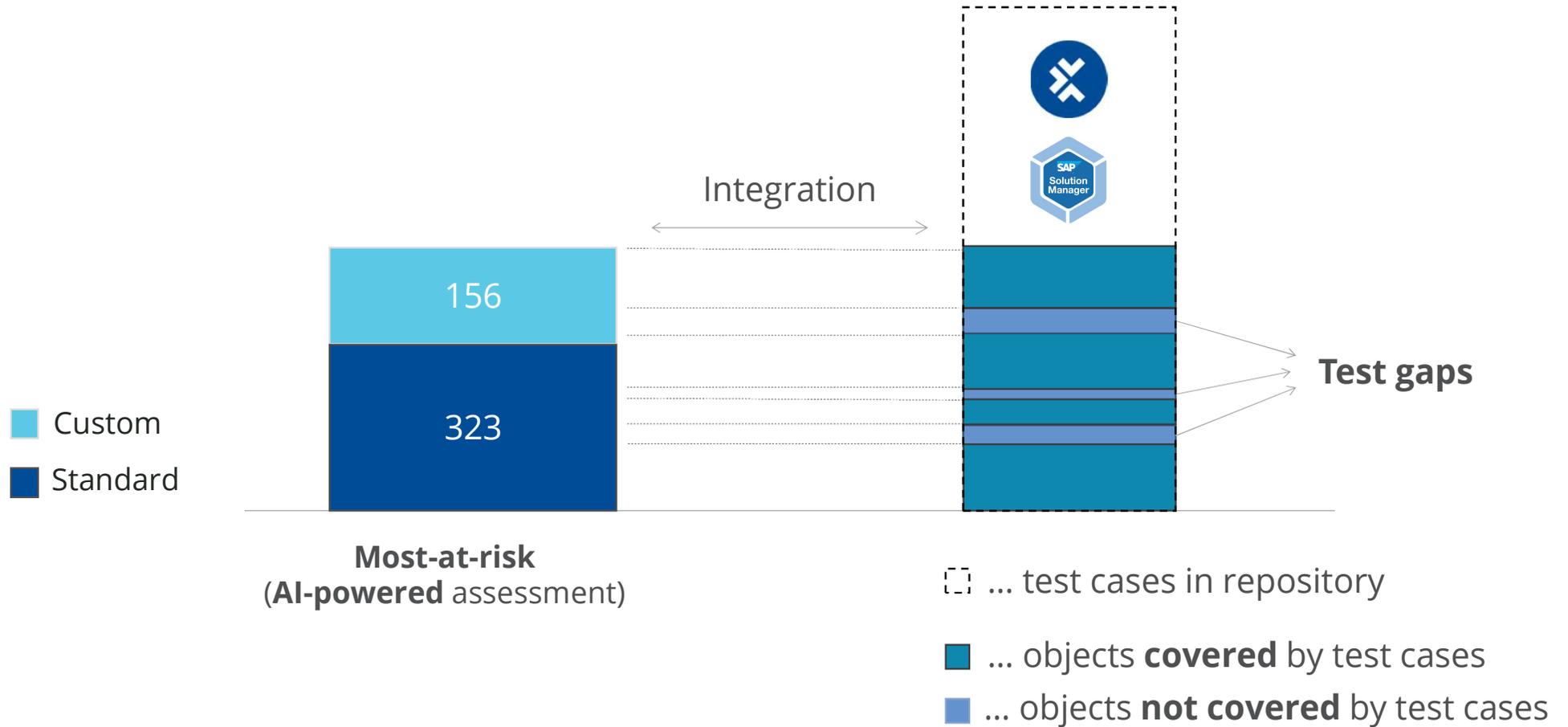


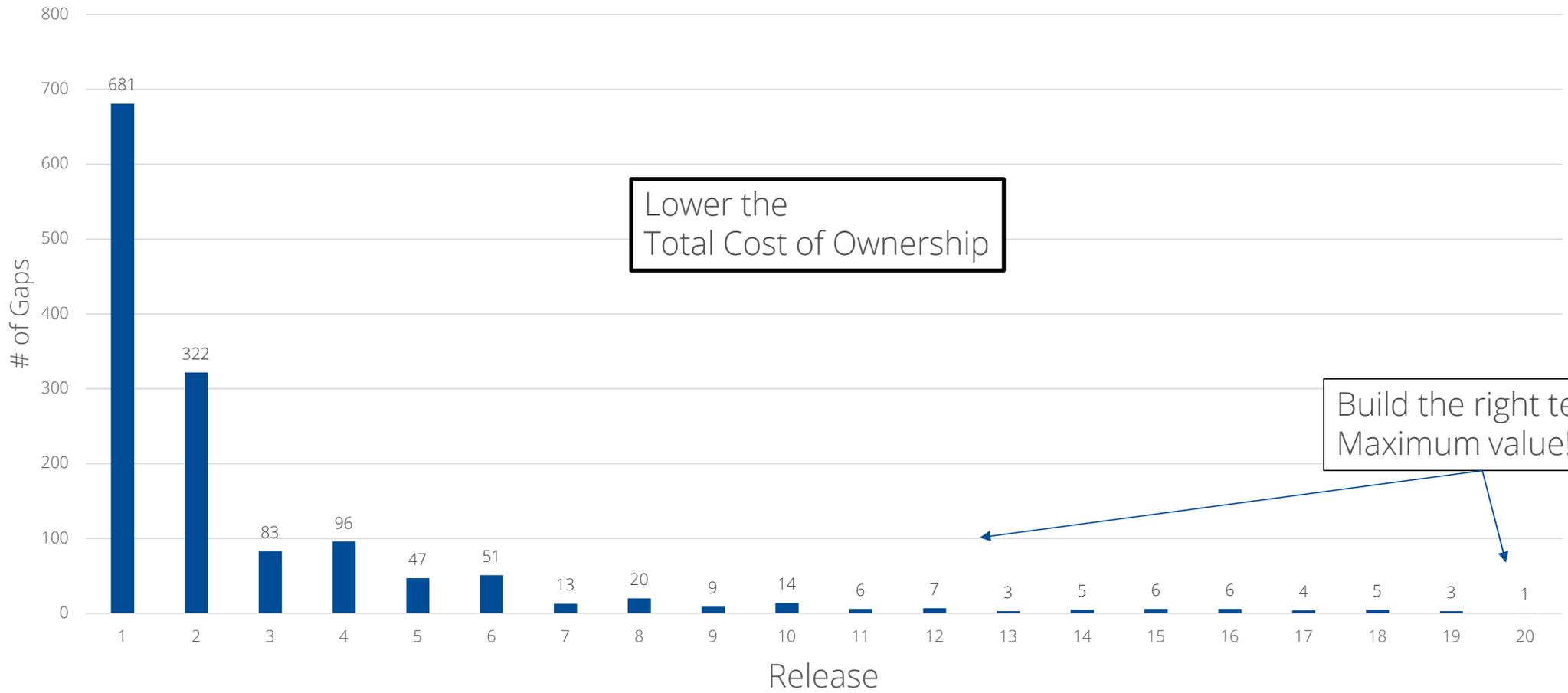
Most-at-Risk Capabilities – Visualize your focus for testing!



Change Impact Analysis is the **bird's eye view** identifying application areas that are **most-at-risk** from an update

Test Coverage Analysis





Customer usecase

9

SAP production
systems

9,000

Test scripts with an
alternative product

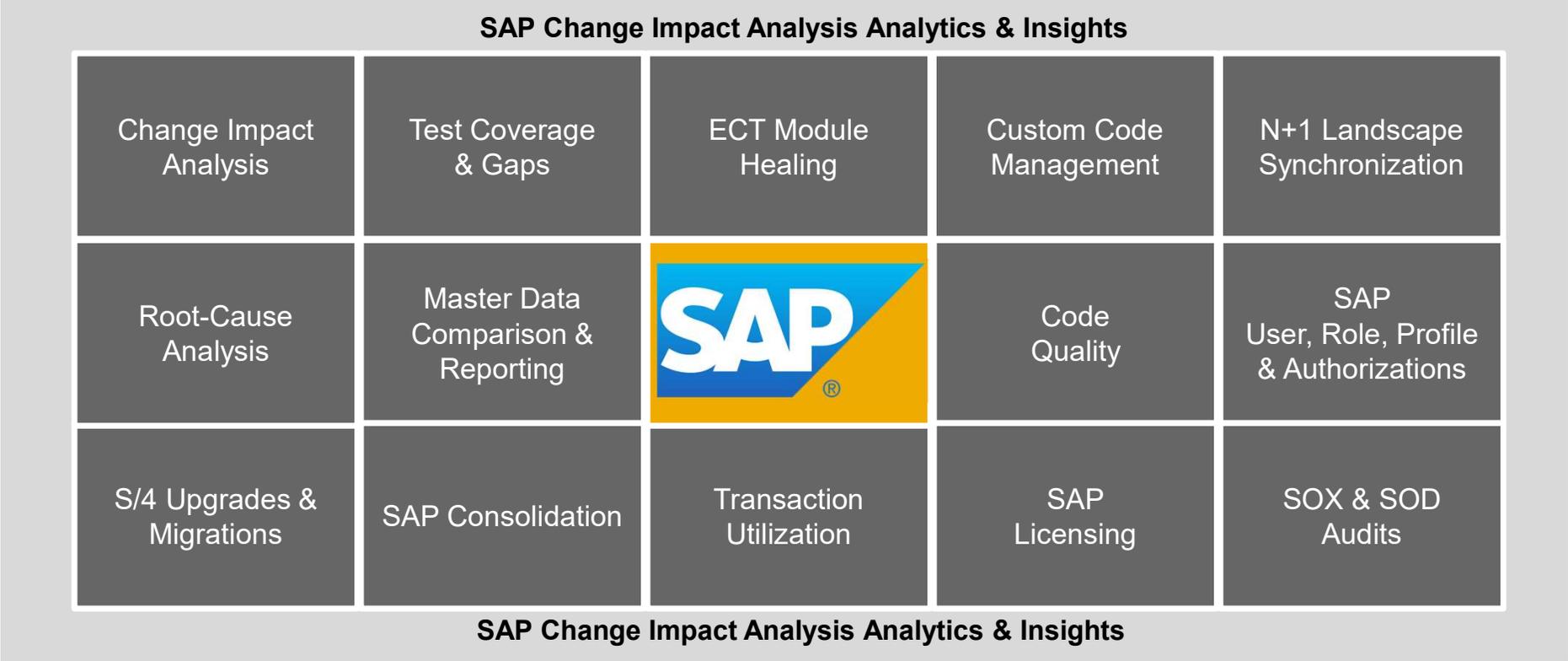
28,586

Q4
Release changes

8%

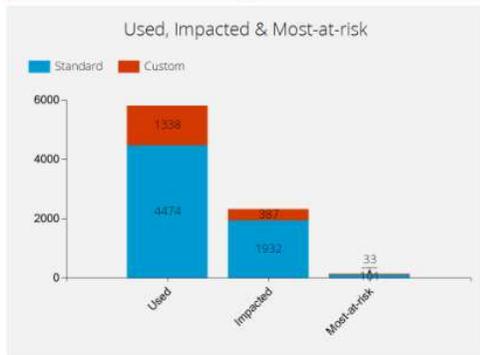
Test coverage with
an alternative
product

SAP Operations & Project Intelligence

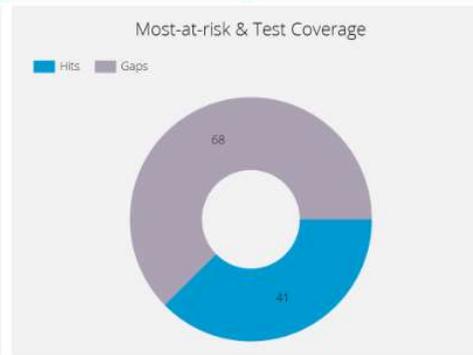


All in one solution for end-to-end SAP Application Lifecycle Management

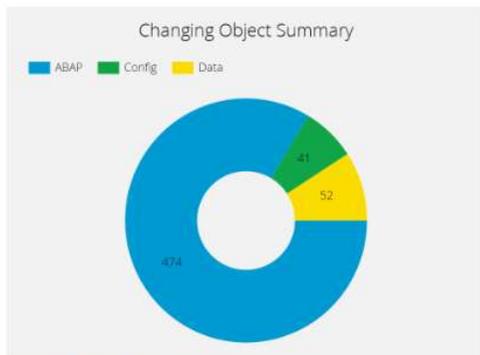
Analysis Date	Analysis System	Performance History	Test Repository
2023-02-16	SAP36	SAP37	SAP_Testing
		Aug 2021 - Nov 2021	



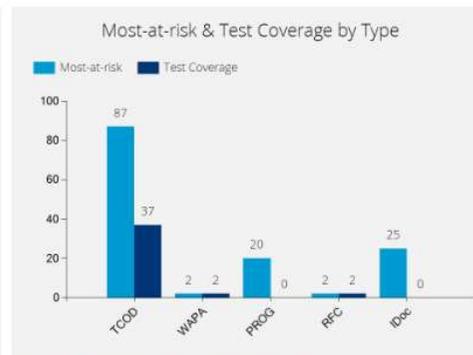
Used, Impacted & Most-at-risk Description



Most-at-risk & Test Coverage Description



Changing Object Summary Description



Most-at-risk & Test Coverage by Type Description

Additional Resources

- Smart Impact Analysis Details
- Analysis Input Data



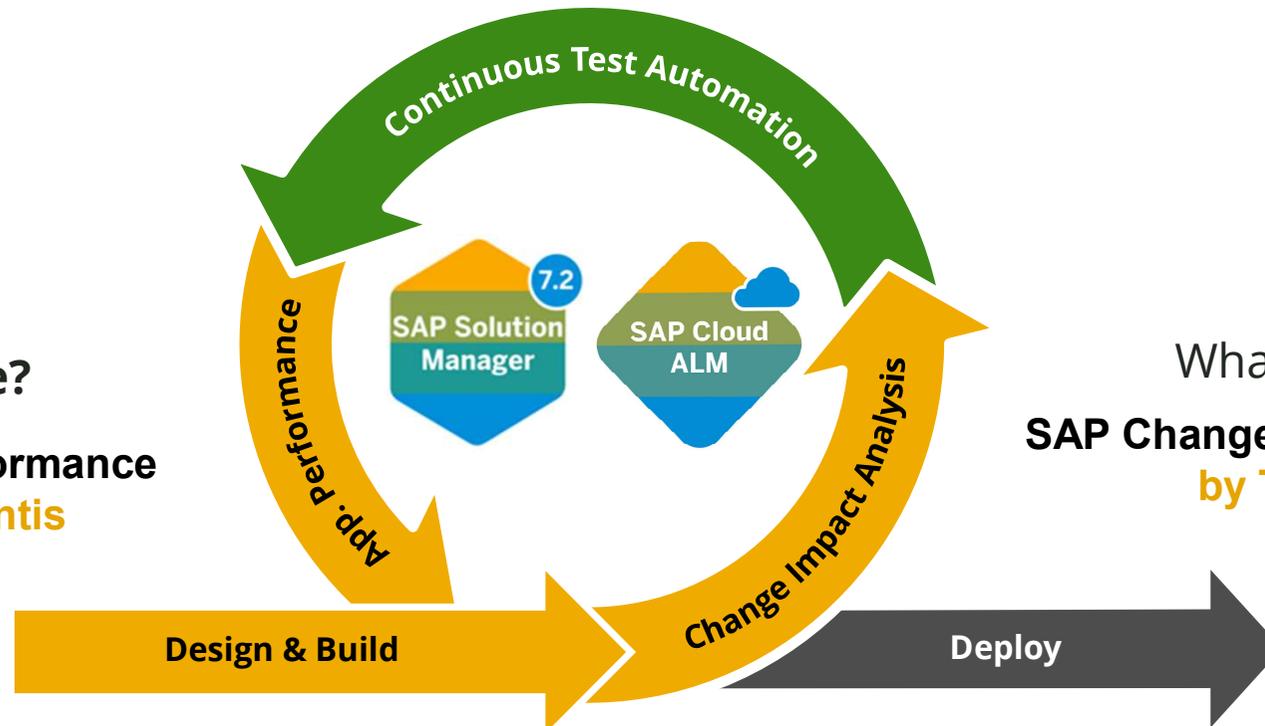
Application Testing Solutions by Tricentis

Does it **work**?

SAP Enterprise Continuous Testing
by Tricentis

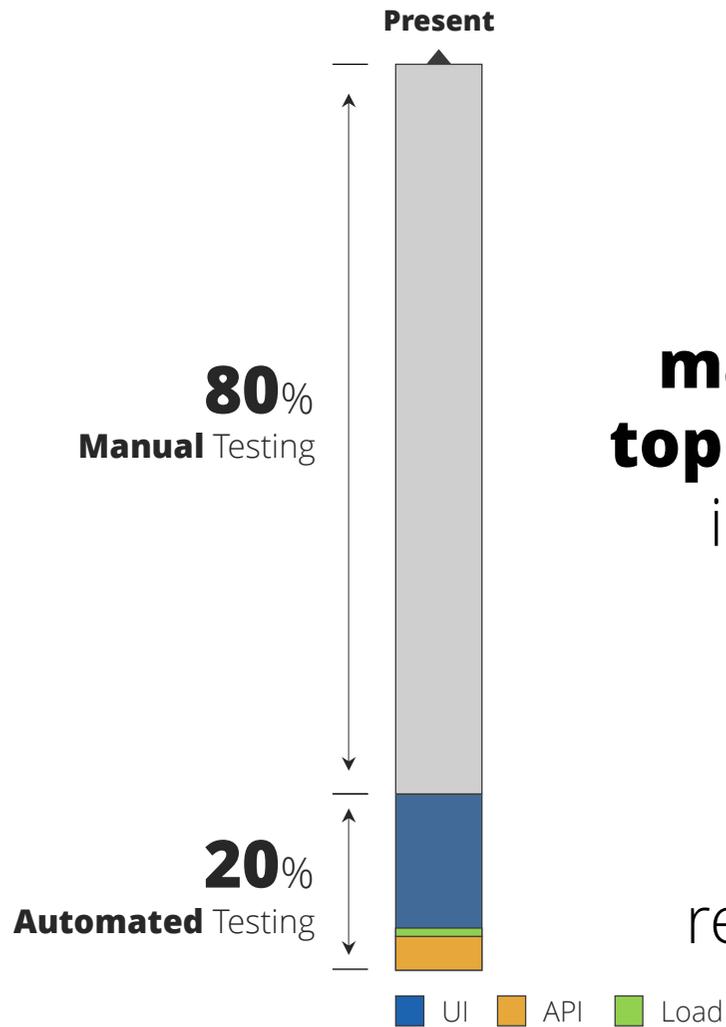
Does it **scale**?
SAP Enterprise Performance
Testing by Tricentis

What to **test**?
SAP Change Impact Analysis
by Tricentis



Is the **data** correct?

SAP Enterprise Data Integrity
Testing by Tricentis

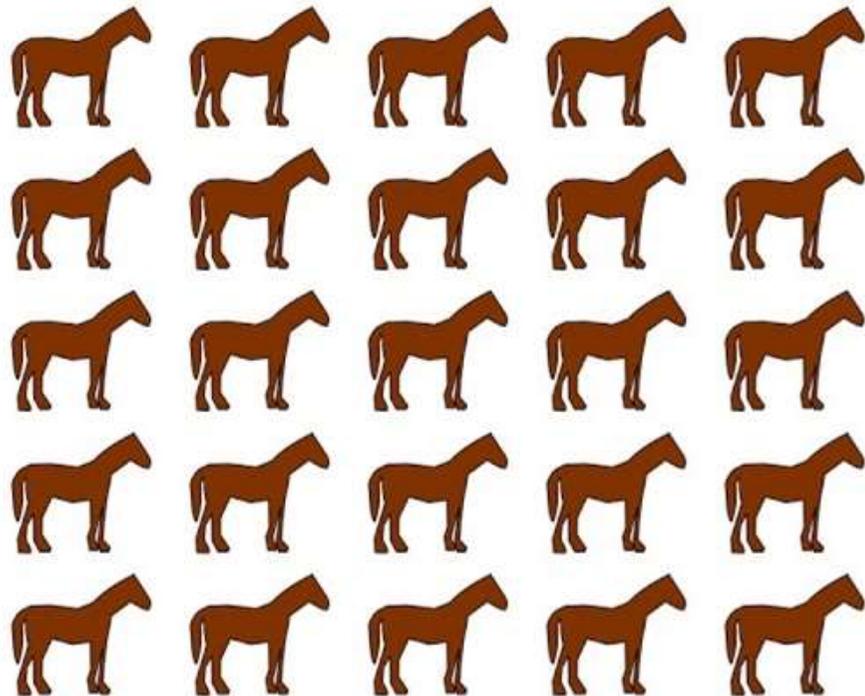


★
The reliance on
manual testing is the
top technical challenge
in app development
World Quality Report

★
Test **automation**
requires **developers**

Details		Test configuration	Control Flow Diagram	
		Name	Value	ActionMode
▲		Create Sales Order		
▲		Initial Screen		
▶		Start VA01		
▲		Create Sales Order: Initial Screen		
		Order Type	ZOR	Input
		Sales Organization	AU01	Input
		Distribution Channel	02	Input
		Division	01	Input
		Sales Office	AU01	Input
		Sales Group	A01	Input
▶		Enter		
▶		Sales order header		
▶		Enter Order Material in item Overview Tab...		
▶		Change Document Date, Save and Close Sa...		

Can You Solve The 25 Horses Puzzle?



There are 25 horses. What is the minimum number of races needed so you can identify the fastest 3 horses? You can race up to 5 horses at a time, but you do not have a watch.

Groups

	5th	4th	3rd	2nd	1st
1st					
2nd					
3rd					
4th					
5th					

1st

2nd

3rd Ranks

4th

5th

First race all horses and order by **rank**

5 races

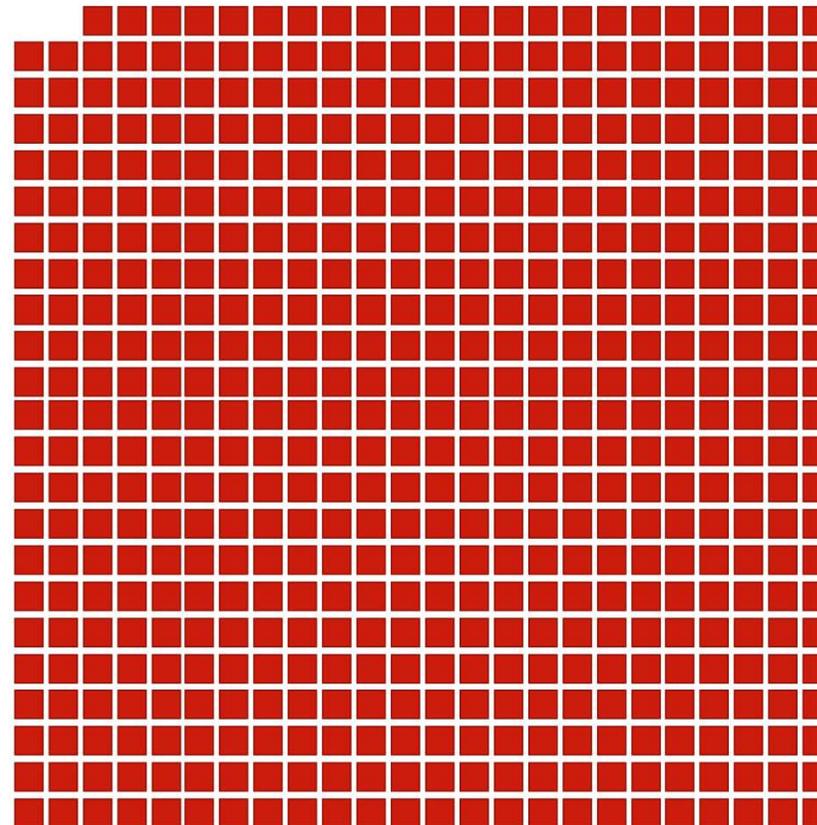
Race the winners from each group, order by **groups**

6 races

Race all horses except the **fastest** and the first 2 will be 2nd and 3rd

7 races

No Optimisation



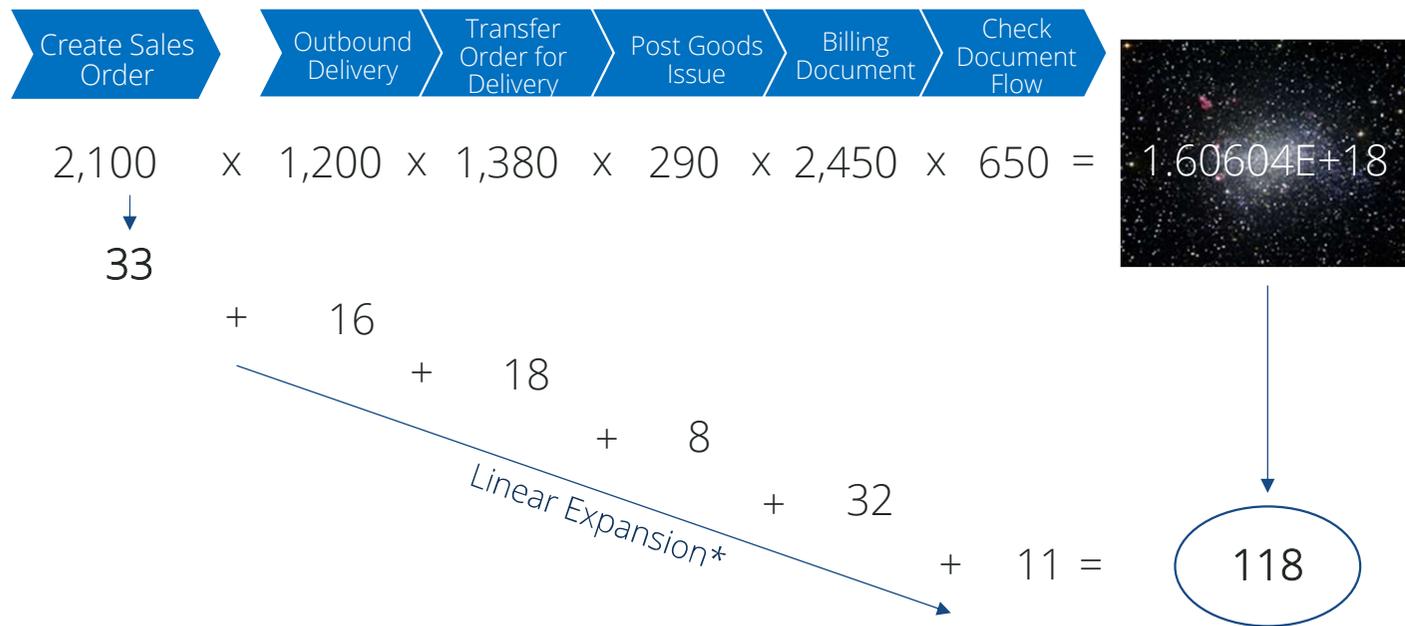
■ = 10 races

No time to test all combinations!



Sales Organization	14
	x
Material/Product	15
	x
Customer Type	5
	x
Order Type	2
	=
<i>Total # Test Cases</i>	2,100

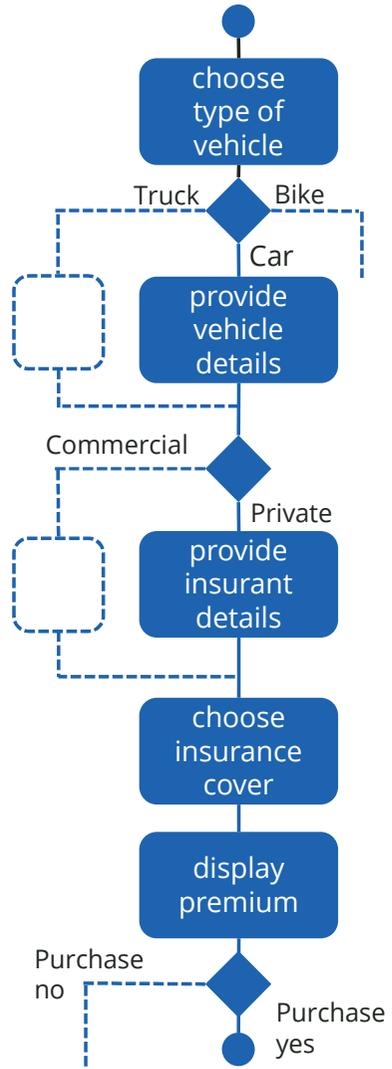
No time to test all combinations!



Our customers max out risk coverage whilst minimizing test efforts.

* ... awarded by the scientific community

Get a Quote



Name	Instance Usage	<input checked="" type="checkbox"/> StraightT...	<input type="checkbox"/> <75	<input type="checkbox"/> 125-200	<input checked="" type="checkbox"/> >200	<input checked="" type="checkbox"/> EMPTY	<input checked="" type="checkbox"/> INVALID	<input checked="" type="checkbox"/> 75	<input checked="" type="checkbox"/> 125	<input checked="" type="checkbox"/> 126
<input checked="" type="checkbox"/> Get a Quote		<input checked="" type="checkbox"/> StraightT...	<input type="checkbox"/> <75	<input type="checkbox"/> 125-200	<input checked="" type="checkbox"/> >200	<input checked="" type="checkbox"/> EMPTY	<input checked="" type="checkbox"/> INVALID	<input checked="" type="checkbox"/> 75	<input checked="" type="checkbox"/> 125	<input checked="" type="checkbox"/> 126
<input checked="" type="checkbox"/> Instances										
<input checked="" type="checkbox"/> Make*	100%	<input checked="" type="checkbox"/> BMW	<input checked="" type="checkbox"/> BMW	<input checked="" type="checkbox"/> BMW	<input checked="" type="checkbox"/> BMW	<input checked="" type="checkbox"/> BMW	<input checked="" type="checkbox"/> BMW	<input checked="" type="checkbox"/> BMW	<input checked="" type="checkbox"/> BMW	<input checked="" type="checkbox"/> BMW
<input checked="" type="checkbox"/> Engine Performance [kW]*	100%	<input checked="" type="checkbox"/> 75-124	<input type="checkbox"/> <75	<input type="checkbox"/> 125-200	<input checked="" type="checkbox"/> >200	<input checked="" type="checkbox"/> EMPTY	<input checked="" type="checkbox"/> INVALID	<input checked="" type="checkbox"/> 75	<input checked="" type="checkbox"/> 125	<input checked="" type="checkbox"/> 126
<input checked="" type="checkbox"/> Instances										
<input type="checkbox"/> <75	1									
<input checked="" type="checkbox"/> 75-124	44									
<input type="checkbox"/> 125-200	1									
<input checked="" type="checkbox"/> >200	1									
<input checked="" type="checkbox"/> EMPTY	1									
<input checked="" type="checkbox"/> INVALID	1									
<input checked="" type="checkbox"/> 75	1									
<input checked="" type="checkbox"/> 125	1									
<input checked="" type="checkbox"/> 126	1									
<input checked="" type="checkbox"/> Date of Manufacture*	100%	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...
<input checked="" type="checkbox"/> Number of Seats*	100%	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 5
<input checked="" type="checkbox"/> Fuel Type*	100%	<input checked="" type="checkbox"/> Petrol	<input checked="" type="checkbox"/> Petrol	<input checked="" type="checkbox"/> Petrol	<input checked="" type="checkbox"/> Petrol	<input checked="" type="checkbox"/> Petrol	<input checked="" type="checkbox"/> Petrol	<input checked="" type="checkbox"/> Petrol	<input checked="" type="checkbox"/> Petrol	<input checked="" type="checkbox"/> Petrol
<input checked="" type="checkbox"/> List Price [\$]*	100%	<input checked="" type="checkbox"/> 50000	<input checked="" type="checkbox"/> 50000	<input checked="" type="checkbox"/> 50000	<input checked="" type="checkbox"/> 50000	<input checked="" type="checkbox"/> 50000	<input checked="" type="checkbox"/> 50000	<input checked="" type="checkbox"/> 50000	<input checked="" type="checkbox"/> 50000	<input checked="" type="checkbox"/> 50000
<input checked="" type="checkbox"/> Annual Mileage [mi]*	100%	<input checked="" type="checkbox"/> 10000	<input checked="" type="checkbox"/> 10000	<input checked="" type="checkbox"/> 10000	<input checked="" type="checkbox"/> 10000	<input checked="" type="checkbox"/> 10000	<input checked="" type="checkbox"/> 10000	<input checked="" type="checkbox"/> 10000	<input checked="" type="checkbox"/> 10000	<input checked="" type="checkbox"/> 10000
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<input checked="" type="checkbox"/> Date of Birth*	100%	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...
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<input checked="" type="checkbox"/> Occupation*	100%	<input checked="" type="checkbox"/> Employ...	<input checked="" type="checkbox"/> Employ...	<input checked="" type="checkbox"/> Employ...	<input checked="" type="checkbox"/> Employ...	<input checked="" type="checkbox"/> Employ...	<input checked="" type="checkbox"/> Employ...	<input checked="" type="checkbox"/> Employ...	<input checked="" type="checkbox"/> Employ...	<input checked="" type="checkbox"/> Employ...
<input checked="" type="checkbox"/> Start Date*	100%	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...	<input checked="" type="checkbox"/> 01/01/...
<input checked="" type="checkbox"/> Insurance Sum*	100%	<input checked="" type="checkbox"/> 10.000...	<input checked="" type="checkbox"/> 10.000...	<input checked="" type="checkbox"/> 10.000...	<input checked="" type="checkbox"/> 10.000...	<input checked="" type="checkbox"/> 10.000...	<input checked="" type="checkbox"/> 10.000...	<input checked="" type="checkbox"/> 10.000...	<input checked="" type="checkbox"/> 10.000...	<input checked="" type="checkbox"/> 10.000...
<input checked="" type="checkbox"/> Merit Rating*	100%	<input checked="" type="checkbox"/> Bonus 2	<input checked="" type="checkbox"/> Bonus 2	<input checked="" type="checkbox"/> Bonus 2	<input checked="" type="checkbox"/> Bonus 2	<input checked="" type="checkbox"/> Bonus 2	<input checked="" type="checkbox"/> Bonus 2	<input checked="" type="checkbox"/> Bonus 2	<input checked="" type="checkbox"/> Bonus 2	<input checked="" type="checkbox"/> Bonus 2
<input checked="" type="checkbox"/> Damage Insurance*	100%	<input checked="" type="checkbox"/> Full Co...	<input checked="" type="checkbox"/> Full Co...	<input checked="" type="checkbox"/> Full Co...	<input checked="" type="checkbox"/> Full Co...	<input checked="" type="checkbox"/> Full Co...	<input checked="" type="checkbox"/> Full Co...	<input checked="" type="checkbox"/> Full Co...	<input checked="" type="checkbox"/> Full Co...	<input checked="" type="checkbox"/> Full Co...
<input checked="" type="checkbox"/> priceTable	48%									
<input checked="" type="checkbox"/> Price per Year (\$)	48%									
<input checked="" type="checkbox"/> Silver	50%	<input checked="" type="checkbox"/> \$500	<input checked="" type="checkbox"/> \$400	<input checked="" type="checkbox"/> \$600				<input checked="" type="checkbox"/> \$500	<input checked="" type="checkbox"/> \$550	<input checked="" type="checkbox"/> \$600
<input checked="" type="checkbox"/> Gold	50%	<input checked="" type="checkbox"/> \$600	<input checked="" type="checkbox"/> \$500	<input checked="" type="checkbox"/> \$700				<input checked="" type="checkbox"/> \$600	<input checked="" type="checkbox"/> \$650	<input checked="" type="checkbox"/> \$700
<input checked="" type="checkbox"/> Platinum	50%	<input checked="" type="checkbox"/> \$700	<input checked="" type="checkbox"/> \$600	<input checked="" type="checkbox"/> \$800				<input checked="" type="checkbox"/> \$700	<input checked="" type="checkbox"/> \$750	<input checked="" type="checkbox"/> \$800

Auto generate...
 Orthogonal Arrays
 Linear Expansion
 Pairwise Tests
 All Combinations
 Negative Tests
 Boundary Tests

FORRESTER

The Total Economic Impact™

SAP Application Testing Solutions by Tricentis

Through customer interviews and data aggregation, Forrester concluded that SAP application testing solutions by Tricentis have the following three-year financial impact.

Tricentis Business Assurance Quantified Benefits

Total Benefits:

\$7.8 million



“

When you put it all together, the benefits are clear: less test condition, less effort, less errors.

ERP principal test manager, telecommunications

BENEFITS

Accelerate innovation and software release cycles.

Reduce risks to critical business processes.

Increase transparency and support real-time insights.

Lower costs by reducing manual test efforts and complexity.

Empower business users and better decision-making.

Source: "The Total Economic Impact of SAP Application Testing Solutions by Tricentis," Forrester Consulting, 2021.

334%

ROI and six months payback

300%

Improvement in application release rate

84%

Reduction in testing scope, and 78% reduction in production errors

99.4%

Reduction in performance test maintenance costs

FORRESTER





Thank You

The **MUST HAVE** quality assurance solution for:

- SAP transformations
- SAP migrations
- Digital transformation



Videos to watch and share..

[Video: Several Case Studies – Tricentis \(2:59min\)](#)

[Video: SAP Quality Assurance Solution by Tricentis \(2:30 min\)](#)

[Video: How HP uses SAP Enterprise Continuous Testing by Tricentis and SAP Change Impact Analysis by Tricentis \(2:51 min\)](#)

[Video: Automating Application Testing with SAP Application Testing Solutions by Tricentis \(7:47 min\)](#)



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Thank you.

Contact information:

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Tricentis solutions

The Tricentis SAP partnership

Tricentis and SAP have joined forces to help enterprises speed up testing with an AI-driven, end-to-end continuous testing platform.

