



# SAP Quality Assurance Solutions by Tricentis

What To Test? | Does It Work? | Does It Scale? Is the Data Correct?

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The continuous testing market leader with agile test management and advanced test automation optimized to support over 160+ technologies

Results



10X

Faster Testing



50%

Lower Costs



90%

Risk Coverage

Partners – 330,000



Tech Alliances



2020

Launch SAP OEM & SoIEx Transformational partnership

2016

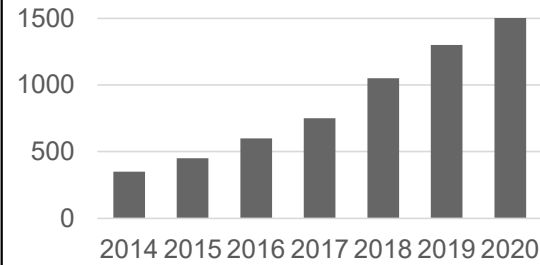
Insight Venture Partners Investment

2007

Founded



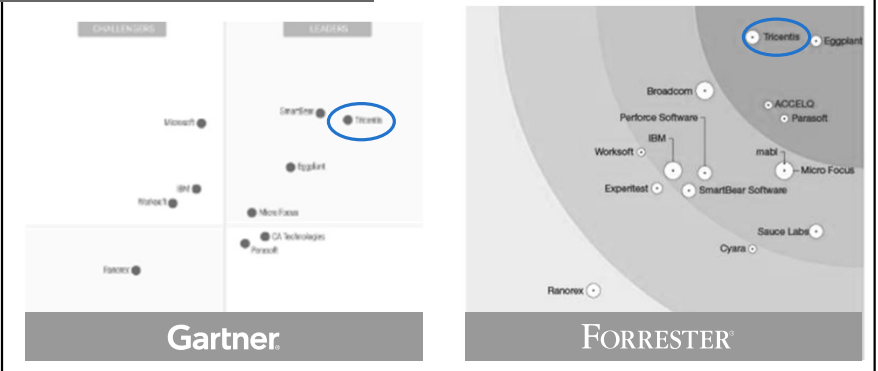
Customers



Greater than **3,500+** Customers Worldwide

8 of the top 10 Global Banks  
 6 of the top 10 Financial Services  
 4 of the top 10 Energy | Utilities  
 8 of the top 10 Insurance Companies  
 8 of the top 10 Telcos  
 8 of the top 10 Global Services

Analyst Recognition



# Why SAP Chose Tricentis as Its Official Quality Assurance Platform



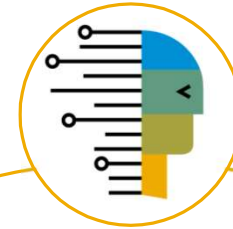
## The Global Leader in Enterprise Testing Solutions

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



## Enterprise-Grade Platform for SAP Testing and Beyond

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



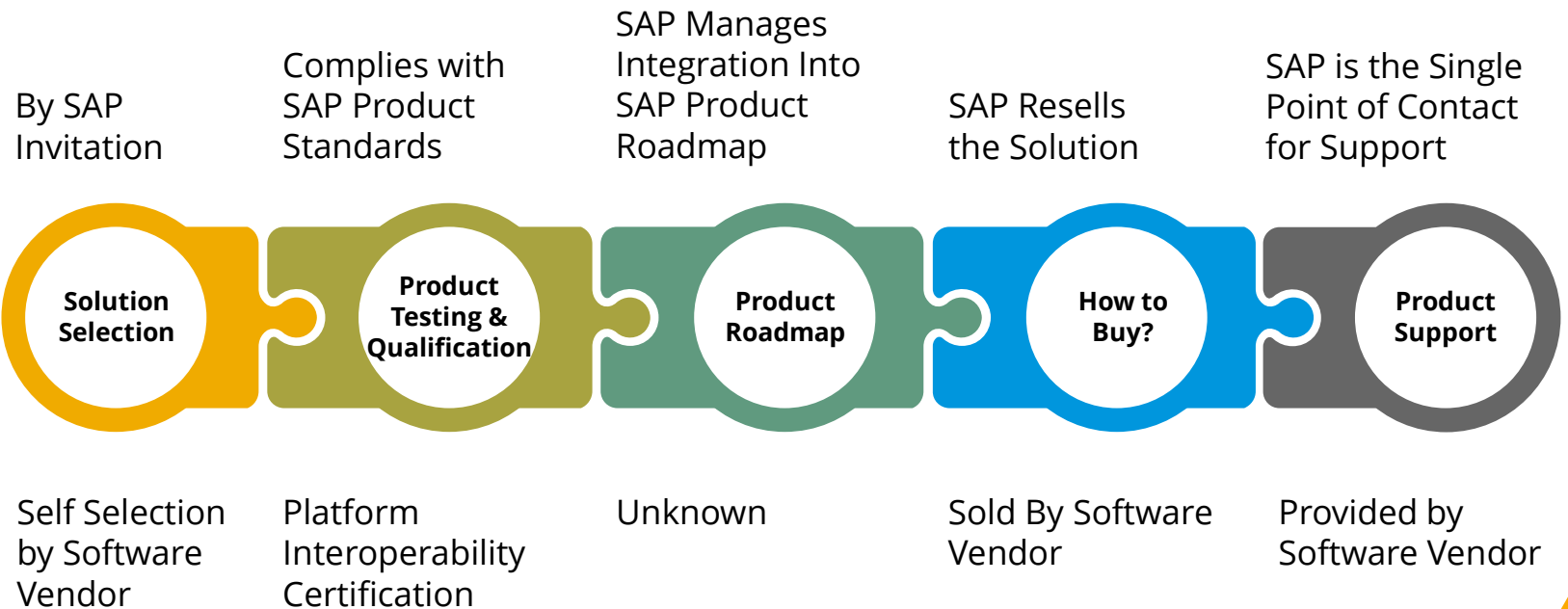
## Modern, AI-Driven Technology for Easy Adoption

- 7** AI-driven Impact Analysis for Fast, Safe Changes
- 8** Cloud and On-Prem Testing all within same platform
- 9** No-Code, Business Friendly Platform for Easy Adoption



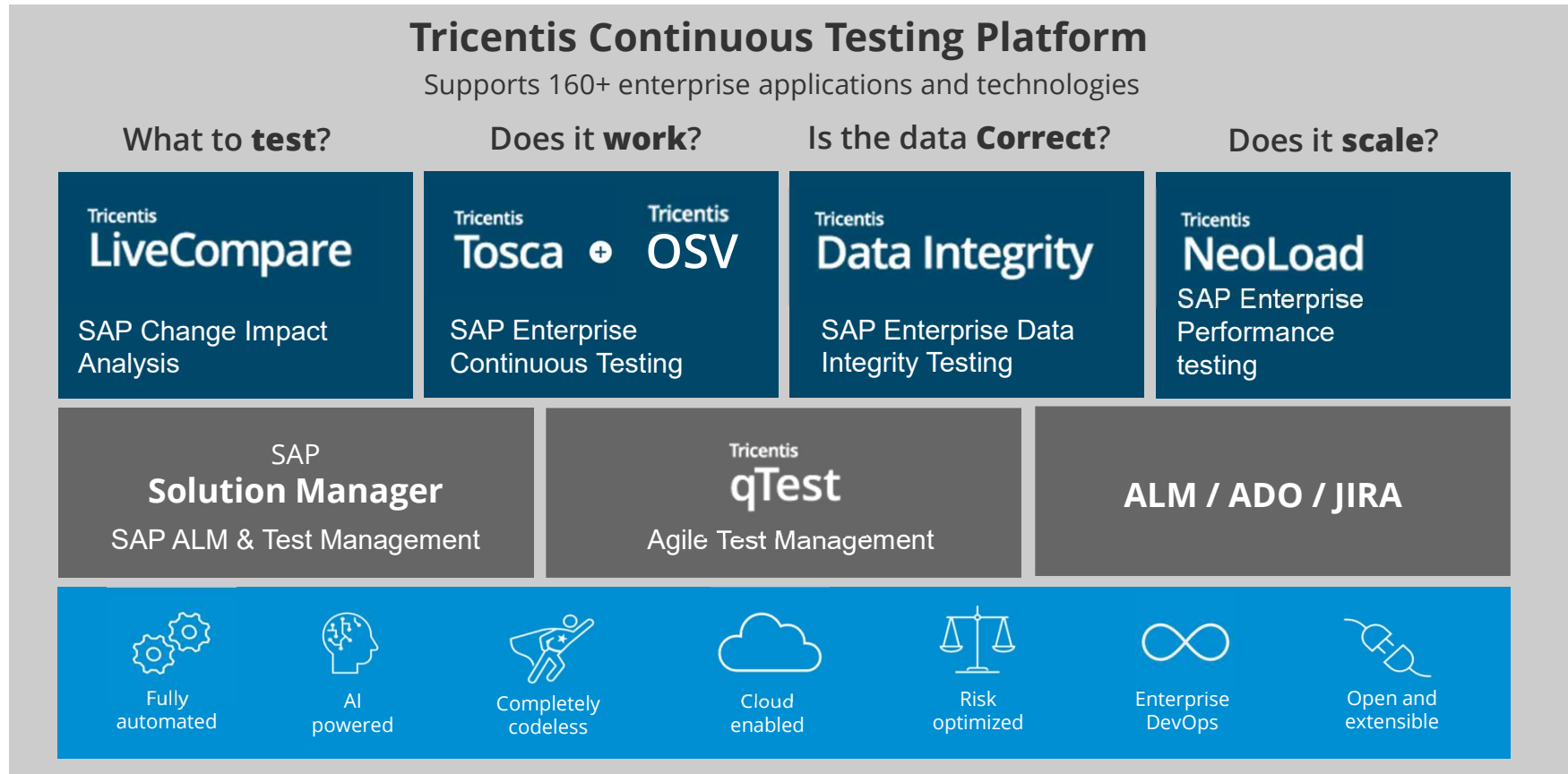
# SAP Ecosystem Offerings

Providing the right level of solution integration and support for customers



# Deliver **quality at speed** with Tricentis

It's all here.



# Forrester Total Economic Impact Study on Tricentis

SAP application testing solutions by Tricentis automated organizations' SAP-related application testing for both functionality and performance. Benefits over three years include:

[Infographic Forrester TEI](#)  
[Forrester TEI report.](#)  
[Campaign link](#)



## 334%

ROI - Payback period <6months

## \$7.82M

Quantifiable benefits

## \$6.02M

Net present value after subscription costs

### These organizations reduced.....

- Testing scope by 84%
- Production Errors by 78%
- Testing costs by 25%
- Performance test maintenance costs by 99.4% and Performance testing time, via automation, by 99%
- Performance test related hypercare by 90%

### These organizations improved.....

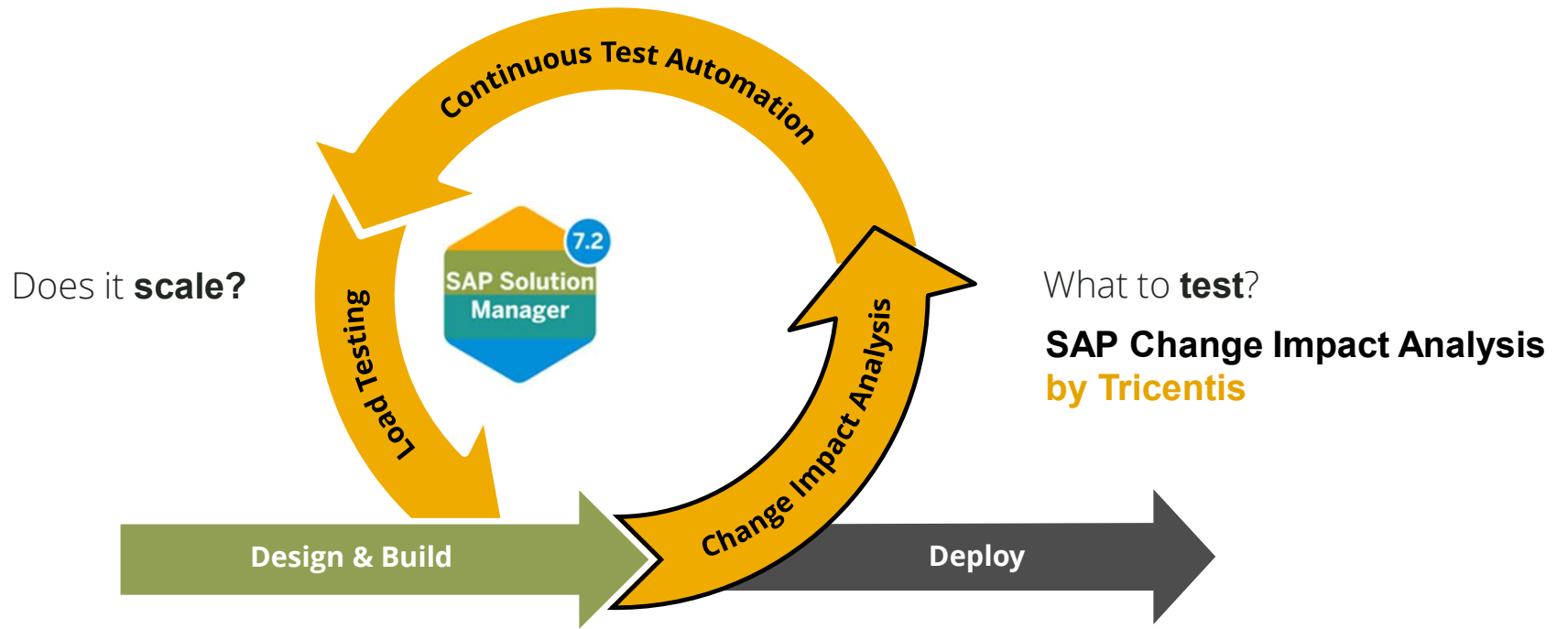
- Improved time to application release rate by 300%
- Increased frequency of performance testing by 1250%
- Accelerated their transition to next generation SAP platforms

Access the study via the blog [here](#)



# Application Testing Solutions by Tricentis

Does it **work**? Is the **Data** Correct?



# The challenge...



## Operational Changes

Scheduled Releases  
Daily & Weekly Transport Bundles  
Emergency Fixes  
Legal & Regulatory



## Project Changes

EHP Upgrades | Support Packs  
Roll-outs  
HANA Migrations  
HANA Upgrades Business Innovation



# Run a Smart Impact Analysis from inside CHARM

The screenshot displays the SAP Solution Manager IT Service Management interface for a Normal Change (ID: 8000001805, AAA). The interface is divided into several sections:

- Status Overview:** A process flow diagram showing stages: 1 Created, 2 In Development (highlighted), 3 To Be Tested, 4 Successfully Tested, 5 Preliminary Import Requested, 9 Imported into Production, and 10 Withdrawn.
- General Data:**
  - ID: 8000001805
  - Description: AAA
  - Developer: TGIROUARD
  - Tester: TGIROUARD
  - IT Operator: TGIROUARD
  - Change Manager: TGIROUARD
  - Current Processor: TGIROUARD
- Processing Data:**
  - Status: In Development
  - Priority: 3: Medium
- Implementation Data:**
  - Change Cycle / Phase: TEG\_MAR29
  - Type / ID: Phase Cycle
  - Scope: 8000001803
  - Landscape / Branch: SolutionManager72
  - Development: Development
  - Development Close: 00:00
  - Go-Live Date: 00:00
- Project Planning:**
  - Project Name:
  - Project Number:
  - Project Task:
  - Start Date:

The 'Actions' menu is open, showing the following options:

- Pass Normal Change to Test
- Withdraw Normal Change
- Transport into Sandbox System
- Create Project Management Task
- Create BPCA Analysis
- LiveCompare ChaRM Impact Analysis (highlighted)

# SAP Change Impact Analysis by Tricentis

**Analyzes your SAP systems and usage** to learn everything about your SAP landscape, including business processes, integrations, custom code, and security.

**Uses AI to determine the risks** in any change to your SAP system, factoring in landscape and usage data to pinpoint exactly **which objects need testing**.

**Finds matching test cases (and gaps)** when integrated with testing solutions such as SAP Enterprise Continuous Testing by Tricentis.

Drive **acceleration and cost avoidance** through test scope reduction

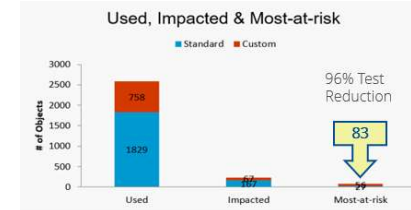


AI-Powered Impact Analysis for SAP

# Most at Risk Details & Drill Down

Test Scope

Changing Objects

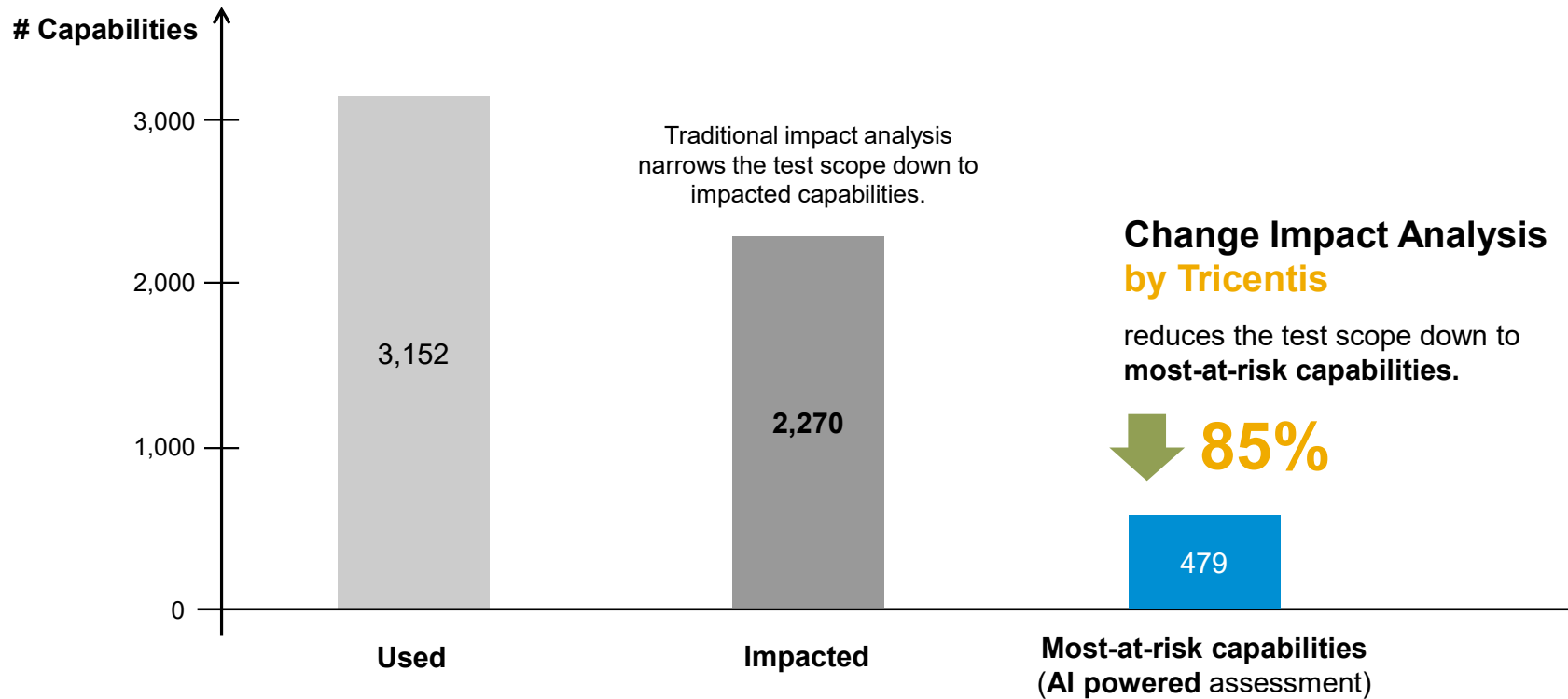


APP_AREA	TYPE	NAME	DESCRIPTION	USAGE	DEPTH	CHILD TYPE	CHILD_NAME	CHANGE_ID	DATE	USERS	USER	TOP_USAGE
Sales	PROG	ZACCR_PENETRATION_REPORT	ACCR Penetration F	30	0	New	New			2	PSIU	29
Sales	PROG	ZACCR_SUCCESS_METRICS	ACCR Run Success I	56	0	New	New			2	PSIU	55
Sales	TCOD	ZACCRMETRIC	ACCR Run Success I	63	1	PROG	ZACCR SUCCESS METRICS	ED3K908185	2018-01-22	2	VB4	4
Sales	TCOD	ZACCRPEN	ACCR Penetration F	40	1	PROG	ZACCR PENETRATION REPORT	ED3K908185	2018-01-22	3	VB4	4
Sales	TCOD	ZLOCKBOX_MATCH	Lockbox match for	1202	2	CLAS	ZCL LOCKBOX_MATCH	ED3K907989	2017-05-24	7	JRAMSAY	326
Sales	TCOD	ZLOCKBOX_MATCH	Lockbox match for	1202	2	CLAS	ZCL POS	ED3K908160	2018-01-17	7	JRAMSAY	326
Materials management	TCOD	ZLABEL	Print Labels with U	240	2	CLAS	ZCL UPC LABEL	ED3K908066	2016-05-11	5	YLE	80
Financial accounting	PROG	ZTMI_EXTRACTION	NIS-SAP Extraction	293	1	PROG	ZTMI EXTRACTION	ED3K908114	2018-01-11	1	PSIU	293
Financial accounting	PROG	ZTMI_EXTRACTION	NIS-SAP Extraction	293	1	TABL	ZTMI_LOG_INDEX	ED3K908114	2018-01-11	1	PSIU	293
Financial accounting	TCOD	ZGW_CLAIMS	Monthly Paid Clair	205	2	CLAS	ZCL FINANCE	ED3K907958	2017-05-16	2	KZHO	102
Financial accounting	TCOD	ZTMI_COMM_STATEMENT	TMI Monthly Comn	1	2	TABL	V_FAGL_SEGM	ED3K908179	2013-05-29	1	JNIT	1
Cross-Application	PROG	ZBATCH_RUNNER	Utility to run batch	227	1	PROG	ZBATCH RUNNER	ED3K907983	2018-01-03	2	PSIU	226
Cross-Application	PROG	ZFULFILLMENT_RENEW_CLEANUP	01.04.0026 Cleanu	112	0	New	New			2	PSIU	111
Cross-Application	PROG	ZRS_W_SALESDOCUMENT_CREATE	Wrapper report for	13	3	TABL	TVCPA	ED3K908009	2014-09-26	1	RSCO	13
Cross-Application	TCOD	ZFULFILL_CLEANUP	ZFULFILLMENT rene	167	1	PROG	ZFULFILLMENT RENEW_CLEANUP	ED3K908014	2018-01-08	2	JALDERSON	33
Cross-Application	TCOD	ZFULFILL_CLEANUP	ZFULFILLMENT rene	167	1	TCOD	ZFULFILL_CLEANUP	ED3K908014	2018-01-08	2	JALDERSON	33
Basis	PROG	SAPLZERPINTERFACE		1	1	FUNC	ZUPDATE ORDER LOG					
Basis	PROG	SAPLZERPINTERFACE		1	1	INCL	LZERPINTERFACEUXX					
Basis	PROG	SAPLZFG_BP		733	1	CLAS	ZCL CUSTOMER					
Basis	PROG	SAPLZFG_BP		733	1	FUNC	ZSD UPDATE ACCR IND					
Basis	PROG	SAPLZFG_BP		733	1	FUNC	ZSD UPDATE CUSTOMER					
Basis	PROG	SAPLZFG_BP		733	1	FUNC	ZHH UPDATE MEMBER					
Basis	PROG	SAPLZFG_BP		733	1	INCL	LZFG BPUX					
Basis	PROG	SAPLZFG_BP		733	1	FUNC	ZHH UPDATE JOIN ME					
Basis	PROG	SAPLZFG_D3		796	1	CLAS	ZCL DISPATCH					
Basis	PROG	SAPLZFG_D3		796	1	CLAS	ZCL MEMBERSHIP					

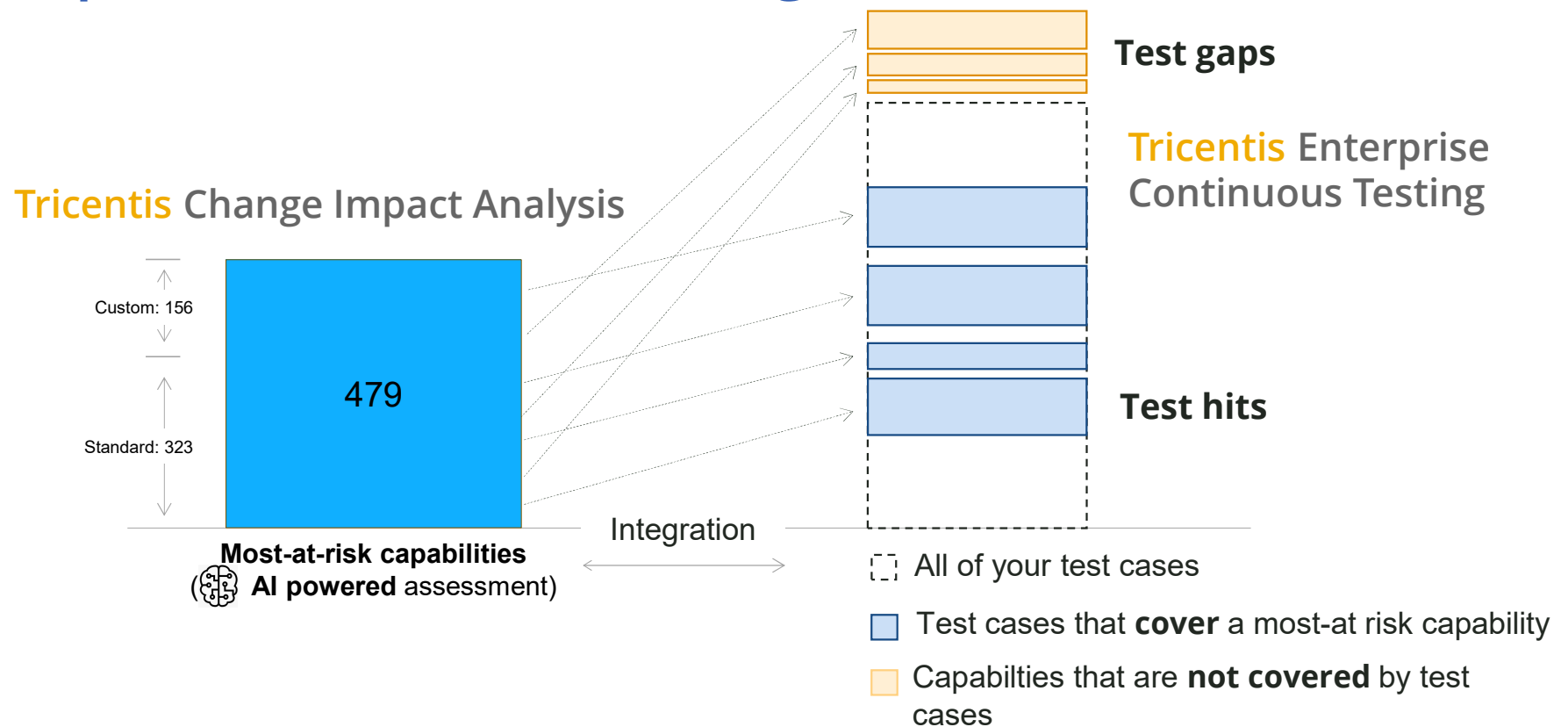
```

General  OK Header  OK Code
71 WHEN 'SUICID'
72 PERFORM SUICID_EDIT_PROG.
73 WHEN 'SAVE'.
74 PERFORM SAVE_DATA.
75 ENDCASE.
76 ENDPROGRAM.
77 FORM SELECT DATA_AND_INIT_STYLE.
78 DATA LT_FIELDS TYPE ODEFIELDS.
79 LS_CELLTAB TYPE LVC_S_STYLE.
80 LT_CELLTAB TYPE LVC_S_STYLE.
81 LV_INDEX TYPE SY-INDEX.
82 DATA(LS_STRUCT) =
83 CAST CL_ABAP_STRUCTDESCR( CL_ABAP_TYPERDESCR-DESCRIBER BY NAME 'ZTMI_ERR_SUSP' ).
84 LT_FIELDS = LR_STRUCT->GET_ODEF_FIELDS_LIST( P_INCLUDING_SUBSTRUCTURES = ADAP_TRUE ).
85 - IF GT_OUTTAB IS NOT INITIAL.
86   SELECT * FROM ZTMI_ERR_SUSP
87   INTO CORRESPONDING FIELDS OF TABLE GT_OUTTAB
88   WHERE TABLE_NAME = 'ZTMIERR' OR TABLE_NAME = 'ZTMIERRX'.
89   IF SY-SUBRC EQ 0.
90     DATA(LT_SUSP_TAB) = VALUE TTY_ERR_SUSP FOR LS_OUTTAB IN GT_OUTTAB WHERE ( TYPE =
91     ( CORRESPONDING #( LS_OUTTAB ) ) ).
92     DATA(LT_ORIG_TAB) = VALUE TTY_ERR_SUSP FOR LS_OUTTAB IN GT_OUTTAB WHERE ( TYPE =
93     ( CORRESPONDING #( LS_OUTTAB ) ) ).
94     ENDIF.
95     LOOP AT LT_ORIG_TAB INTO DATA(LS_ORIG_TAB).
96     LOOP AT LT_FIELDS ASSIGNING FIELD-SYMBOL( LS_FIELDS ) WHERE KEYFLAG C3 'X'.
97     LS_CELLTAB-FIELDNAME = CLS_FIELDS-FIELDNAME.
98     LS_CELLTAB-STYLE = CLS_OUT_AJLV_ORIG-MS_STYLE_DISABLED.
99     INSERT LS_CELLTAB INTO TABLE LT_CELLTAB.
100    ENDOLOOP.
101    INSERT LINES OF LT_CELLTAB INTO TABLE LS_ORIG_TAB-CELLTAB.
102    INSERT LT_ORIG_TAB-ORIG INTO LS_ORIG_TAB-CELLTAB.
103    ENDLOOP.
104     LOOP AT LT_FIELDS ASSIGNING FIELD-SYMBOL( LS_FIELDS ) WHERE KEYFLAG C3 'X'.
105     LS_CELLTAB-FIELDNAME = CLS_FIELDS-FIELDNAME.
106     LS_CELLTAB-STYLE = CLS_OUT_AJLV_ORIG-MS_STYLE_DISABLED.
107     INSERT LS_CELLTAB INTO TABLE LT_CELLTAB.
108     ENDOLOOP.
109     INSERT LINES OF LT_CELLTAB INTO TABLE LS_ORIG_TAB-CELLTAB.
110     INSERT LT_ORIG_TAB-ORIG INTO LS_ORIG_TAB-CELLTAB.
111     ENDLOOP.
112     ENDIF.
113   ENDIF.
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# Bring Acceleration & Cost Avoidance Through Test Scope Reduction



# Identify Test Coverage and Gaps in Tricentis Enterprise Continuous Testing

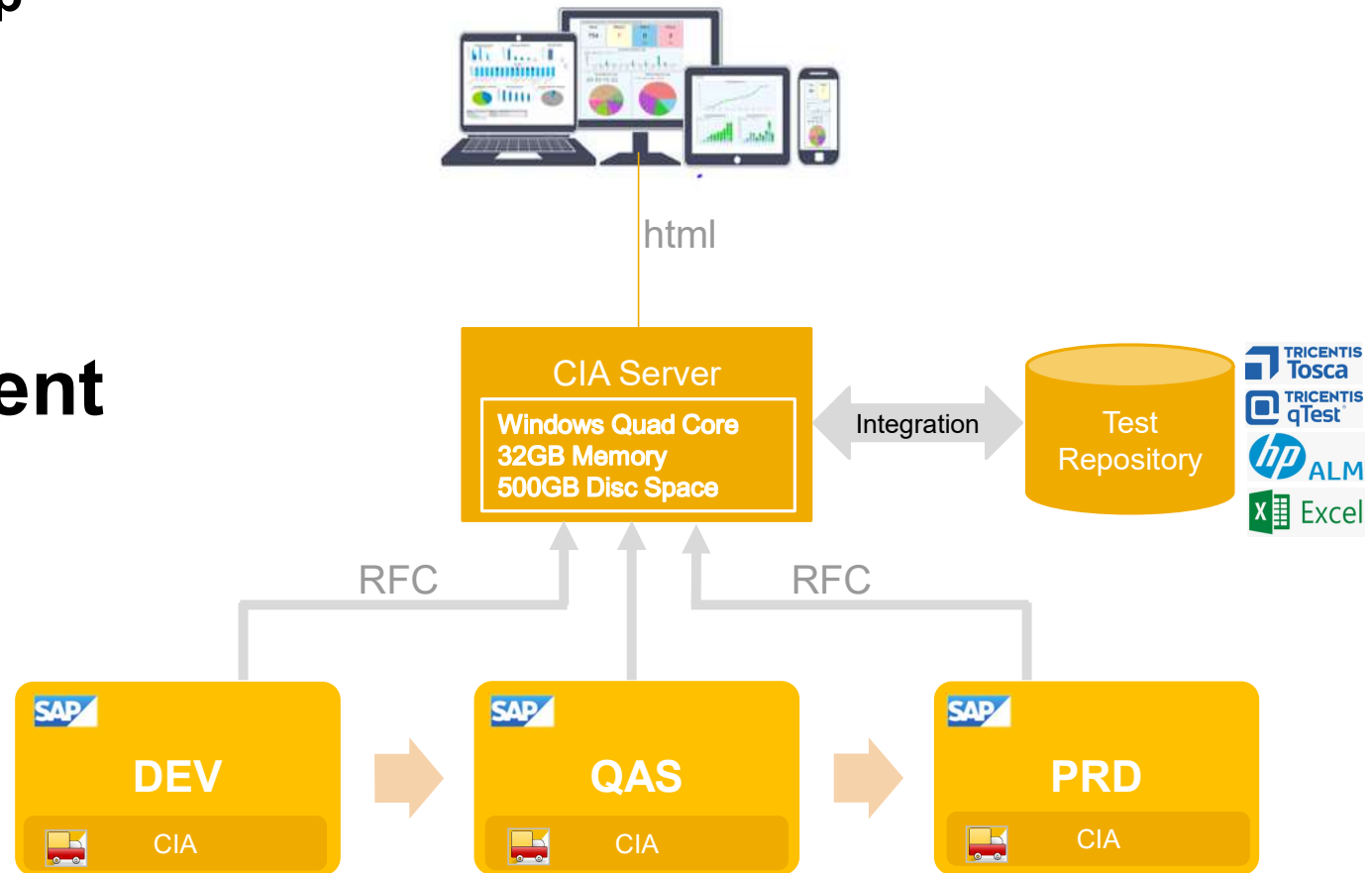


# CIA Architecture & Set-Up



# 1 Day Deployment

Rapid Time-to-Value





# Core Functionality & Use Cases



## SAP Change Impact Analysis

- Upgrades, Support Packs & EHP's
- S/4 Version Upgrades
- Major & Minor Change Releases
- Daily & Weekly Transports
- Legal & Regulatory Changes
- Digital Transformation Projects



## SAP Comparison Analytics

- System Synchronization
- N+1 Landscape Management
- Troubleshooting & Debugging
- Data Quality & Governance
- Data Migration Validation
- SAP Consolidations & Mergers

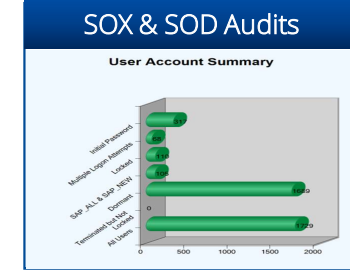
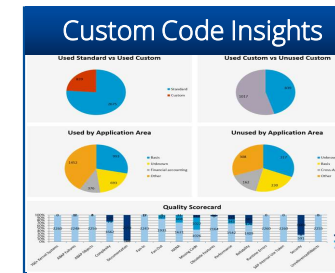
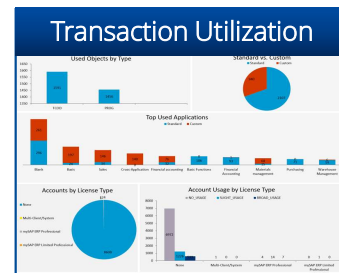
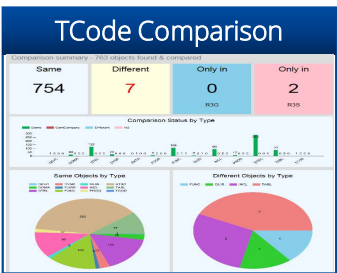
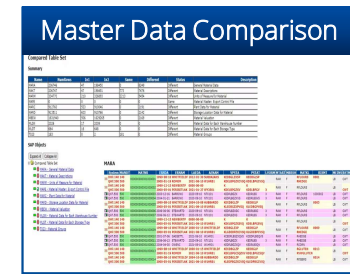
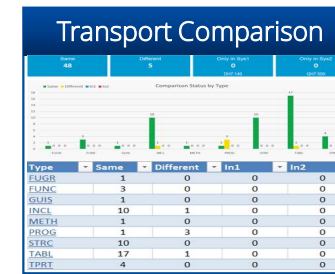
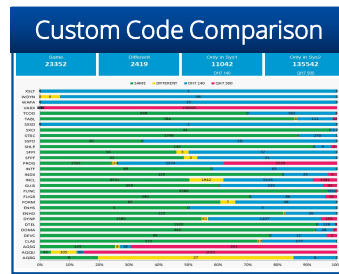
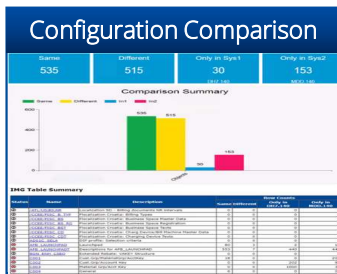
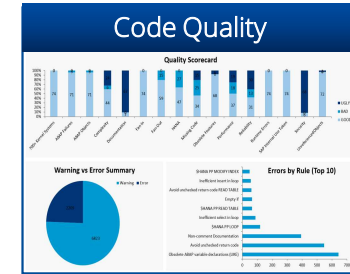
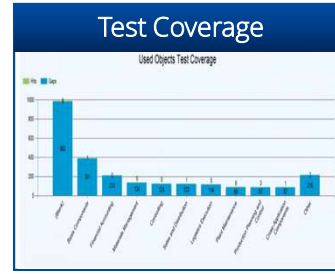
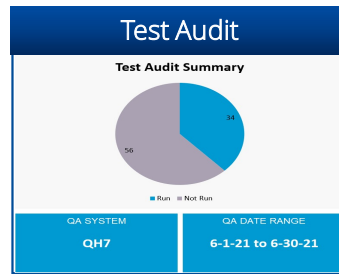
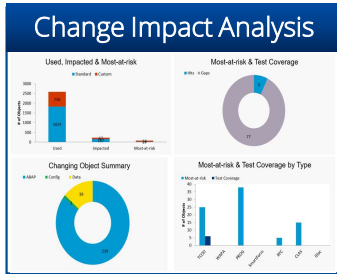


## SAP Audits & Insights

- Custom Code Management
- Code Quality
- Test Coverage
- Transaction Utilization
- SAP Licensing
- SOX & SOD Audits

Intelligent SAP insights for faster & better outcomes

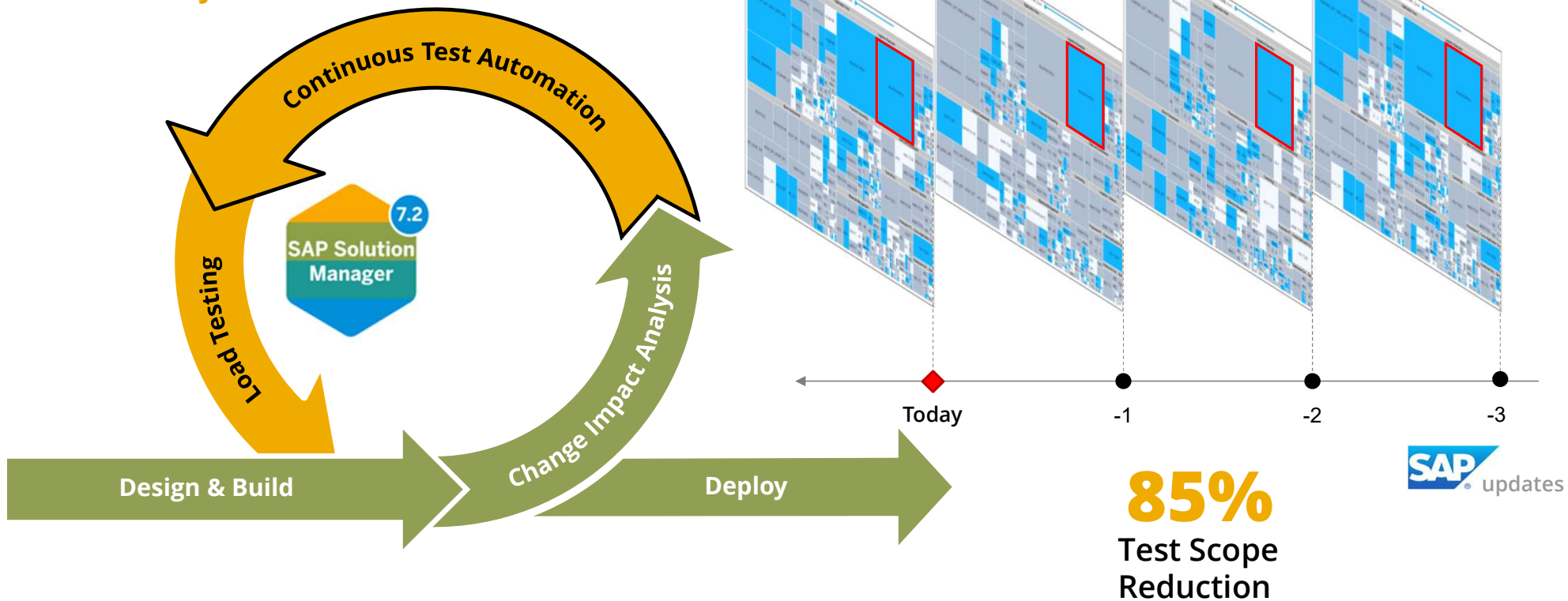
# Sample Deliverables





# SAP Application Testing Solutions by Tricentis

Does it work? **SAP Enterprise Continuous Testing by Tricentis**



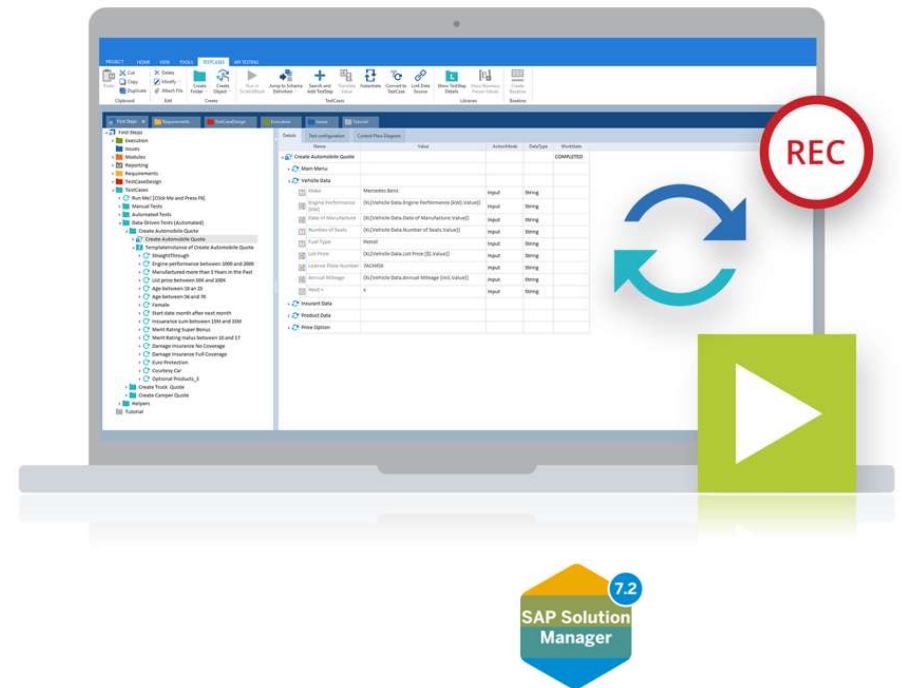
# SAP Enterprise Continuous Testing by Tricentis

**Comprehensive end-to end testing** with support for SAP and hundreds of other technologies and enterprise apps.

**On-demand test systems and test data** to end testing roadblocks.

**Risk-based testing** that aligns testing with business priorities to ensure critical business processes are always covered.

**Results:** 80% - 90% automation rates



**No-Code, Automated Continuous Testing**

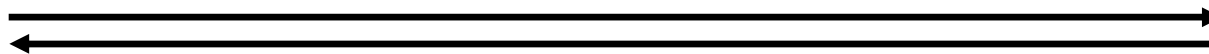
# Comprehensive Support for Enterprise Technologies



160+ Technologies Supported

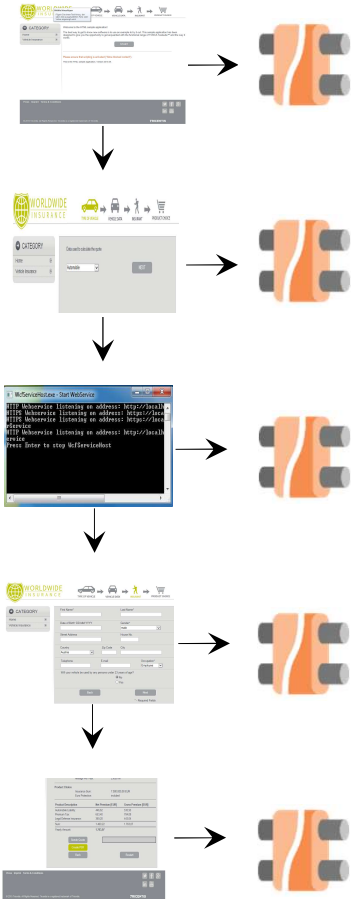


Enables easy testing across **any technology!**



# Model Based Testing

- XBROWSER
- MOBILE
- .NET, WPF
- JAVA
- SAP
- WIN32, C++, VB
- GUPTA
- POWERBUILDER
- DELPHI
- 3270, EMULATORS
- WORD, XL, ...
- PDF
- DATABASES
- FILE CONTENT
- WEBSERVICES, XML
- REST JSON



Name	Value
<b>Insurant Data</b>	
FirstName	Roman
LastName	Zednik
DateOfBirth	17.07.1972
Gender	male
Street	Leonhard-Bernstein-Strasse 10
Country	Austria
ZipCode	1220
City	Vienna
Next	(CLICK)

Name	Value
<b>Insurant Data</b>	
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<b>Input Parameters</b>	
FirstName	Roman
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City	Vienna
Next	(CLICK)

Name	Value	ActionMode	Data Type
<b>VA01 - Create</b>			
<b>Header Data</b>			
<b>Create Sales Order: Initial Screen</b>			
Order Type	OR	Input	String
Sales Organization	1000	Input	String
Distribution Channel	12	Input	String
Division	00	Input	String
Sales Office	1010	Input	String
Sales Group	110	Input	String
<b>Enter Header data</b>			
<b>Material Data</b>			
<b>Position: Material</b>			
All items		Input	String
Action	M-08		
Column	Material		
Row	#1		
<b>Position: Quantity</b>			
All items		Input	String
Action	5		
Column	Order Quantity		
Row	#1		
<b>Position: Unit</b>			
<b>Enter</b>			
<b>Save</b>			
<b>SAP Statusbar - Check Results</b>			
<b>Sap basic menu</b>			

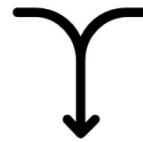


# Test Data Optimization

## All Combinations



<b>Sales Organization</b>		<b>Material/Product</b>		<b>Customer Type</b>		<b>Order Type</b>
14	×	15	×	5	×	2



**Total Test Cases: 2,100**

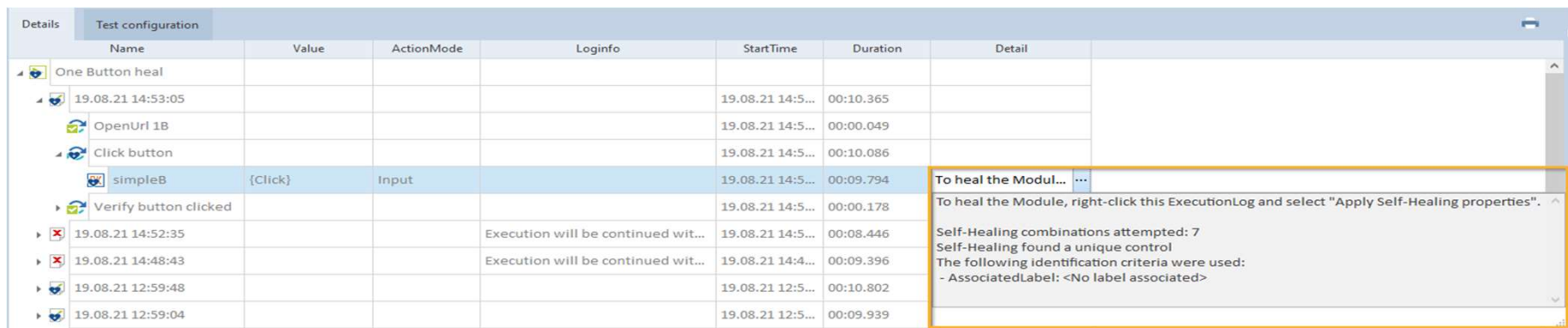


# Tosca Self Healing

## Self-healing Test Cases

Self-healing Mode allows you to execute your TestCases without failing even if a control in your system under test has changed. Tosca then tries to find a similar control in the system under test.

This ensures more stable test runs, reduces manual effort, and allows you to identify changed controls. When you use Tosca XScan, Tosca Rescan, or the Recorder, Tosca automatically adds the steering parameter **SelfHealingData** to your HTML controls.



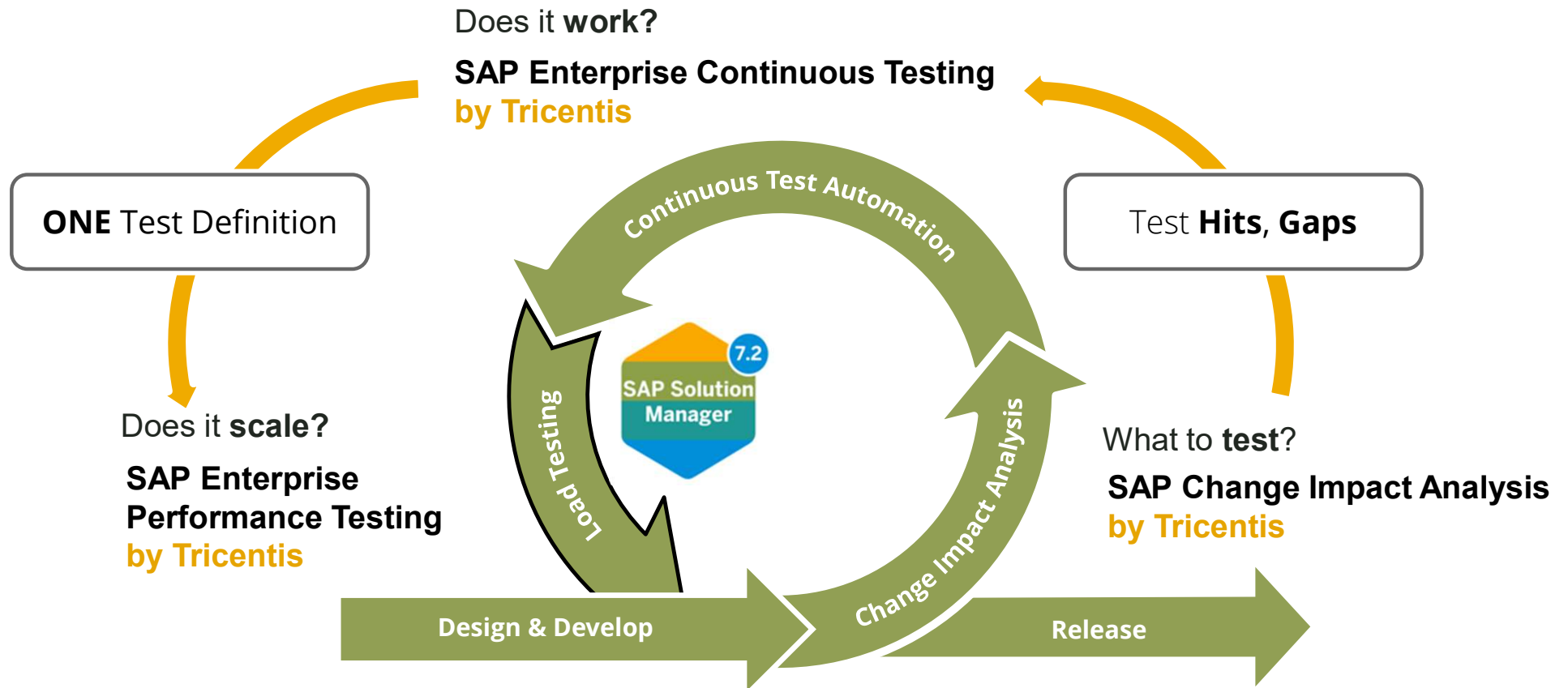
The screenshot shows the 'Test configuration' window in Tosca. It contains a table with columns: Name, Value, ActionMode, Loginfo, StartTime, Duration, and Detail. The table lists several test steps, including 'One Button heal', 'OpenUrl 1B', 'Click button', 'simpleB', and 'Verify button clicked'. The 'simpleB' step is highlighted in blue. A yellow box highlights a message in the 'Detail' column for the 'simpleB' step, which reads: 'To heal the Modul... To heal the Module, right-click this ExecutionLog and select "Apply Self-Healing properties". Self-Healing combinations attempted: 7 Self-Healing found a unique control The following identification criteria were used: - AssociatedLabel: <No label associated>'. The table also shows several failed steps with red 'X' icons and the message 'Execution will be continued wit...'. The 'Detail' column for these failed steps is empty.

Name	Value	ActionMode	Loginfo	StartTime	Duration	Detail
One Button heal						
19.08.21 14:53:05				19.08.21 14:5...	00:10.365	
OpenUrl 1B				19.08.21 14:5...	00:00.049	
Click button				19.08.21 14:5...	00:10.086	
simpleB	{Click}	Input		19.08.21 14:5...	00:09.794	To heal the Modul... To heal the Module, right-click this ExecutionLog and select "Apply Self-Healing properties". Self-Healing combinations attempted: 7 Self-Healing found a unique control The following identification criteria were used: - AssociatedLabel: <No label associated>
Verify button clicked				19.08.21 14:5...	00:00.178	
19.08.21 14:52:35			Execution will be continued wit...	19.08.21 14:5...	00:08.446	
19.08.21 14:48:43			Execution will be continued wit...	19.08.21 14:4...	00:09.396	
19.08.21 12:59:48				19.08.21 12:5...	00:10.802	
19.08.21 12:59:04				19.08.21 12:5...	00:09.939	



# Application Testing Solutions by Tricentis

Making the Enterprise Apps Testing story complete





# SAP Enterprise Performance Testing

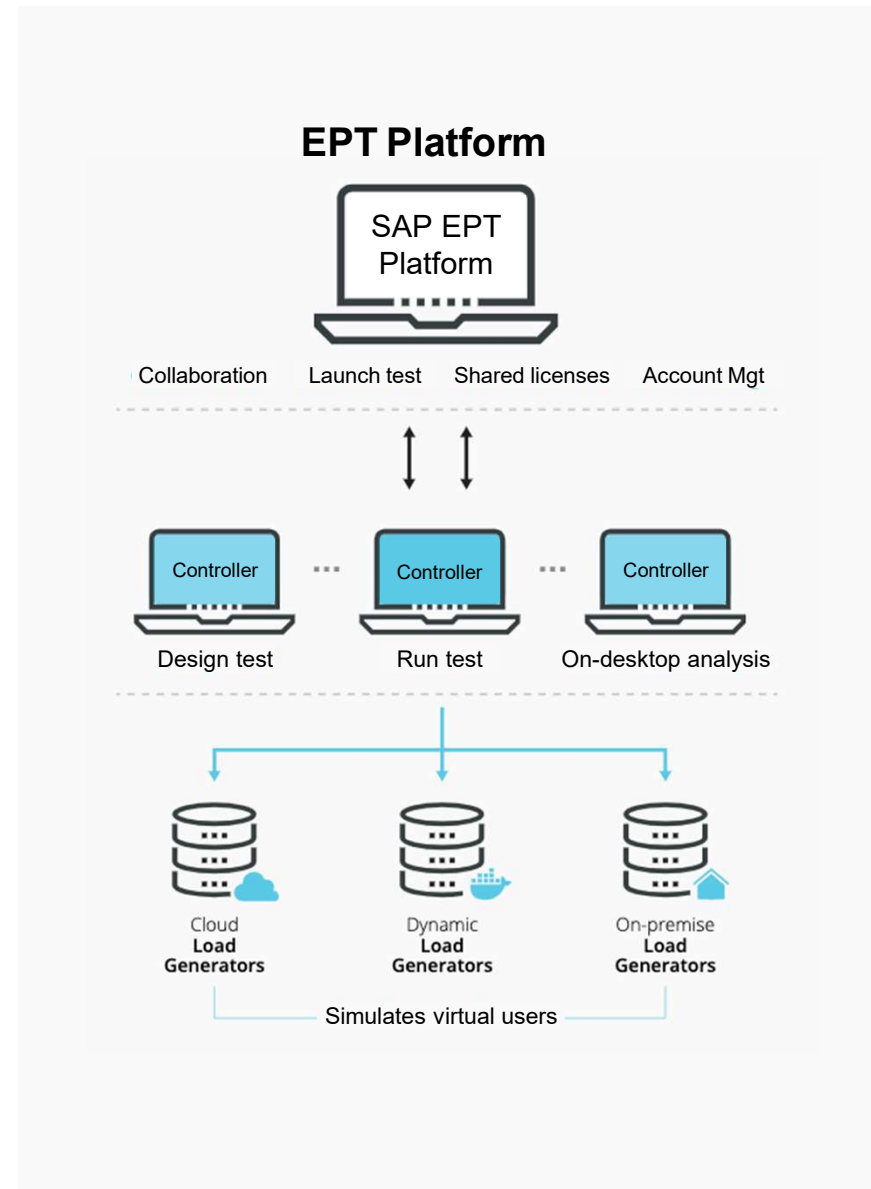
## Key Capabilities

**Packaged Apps and Web Technologies** - EPT supports what you test so that you can simulate business processes, from simple API calls to complex application behaviors. EPT supports web and mobile technologies and protocols such as **SAP GUI** and Citrix.

**No-code performance testing** - Loops, conditions and other drag & drop controls simplify test design creation, and JavaScript can still be used for extremely advanced cases.

**API Testing** - EPT provides SOAP/Web Services support with options for REST and WSDL API testing. And EPT enables you to easily import Swagger/OpenAPI file or URL to quickly get a EPT performance test scenario that matches the API definitions.

**Reuse Functional Tests as Performance Tests** - Convert existing functional test scripts to performance test scripts to accelerate performance test design and maintenance. EPT converts Selenium and ECT functional tests.



# ONE Test Definition

## Enterprise Continuous Testing & Enterprise Performance Testing

The image displays two software interfaces side-by-side, illustrating the conversion of a test definition from Tosca Commander to NeoLoad. A yellow arrow labeled "Convert to EPT" points from the Tosca Commander interface to the NeoLoad interface.

**Tosca Commander (Left):** The interface shows a test case named "Create Sales Order" with a control flow diagram. The diagram includes steps such as "SAP Login", "Start VA01 transaction", and "Create Sales Order: Initial Screen". The "Start VA01 transaction" step is highlighted with a yellow arrow pointing to the NeoLoad interface.

**NeoLoad (Right):** The interface shows a test definition named "VA01" with a list of actions. The actions include "ThinkTime", "SetText GuiTextField (Order Type)", "SetText GuiTextField (Sales Organization)", "SetText GuiTextField (Distribution Channel)", "SetFocus GuiTextField (Distribution Channel)", "Click GuiButton (Enter (Enter))", "ThinkTime\_1", "SetText GuiTextField (Sold-To Party)", "ThinkTime\_2", "SetText GuiTextField (Ship-To Party)", "SetText GuiTextField (GuiTextField - RV45A-MABNR)", "SetText GuiTextField (GuiTextField - RV45A-KWMENG)", "SetFocus GuiTextField (GuiTextField - RV45A-KWMENG)", "Click GuiButton (Save (Ctrl+S))", "Read GuiStatusBar (StatusBar)", "ThinkTime\_3", "SetText GuiOkCodeField (okcd)", "Click GuiButton (Enter (Enter))\_1", and "ThinkTime\_4". The "ThinkTime" action is highlighted with a yellow arrow pointing from the "Start VA01 transaction" step in Tosca Commander.

**Settings (Right):** The settings panel shows the "Definition" section with "Name: VA01" and "Description:". The "Settings" section has "Play all elements sequentially" selected. The "Pacing" section has "No pacing" selected.



# Application Testing Solutions by Tricentis

Making the Enterprise Apps Testing story complete

Is the Data Correct?

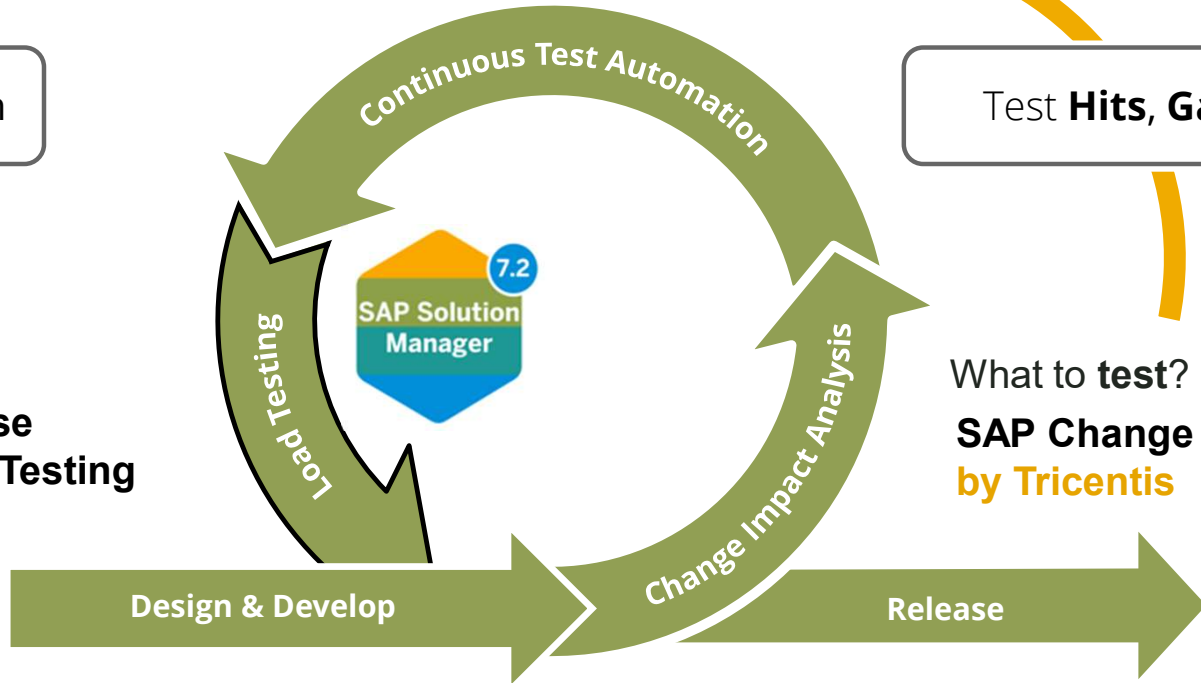
**SAP Enterprise Data Integrity Testing**  
by Tricentis

**ONE** Test Definition

Test **Hits, Gaps**

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

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



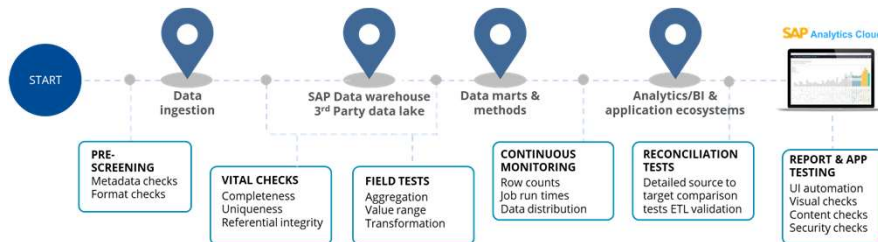
# Is the data correct?

Drive better business outcomes through data you can trust

## SAP Enterprise Data Integrity Testing (EDIT) by Tricentis

### 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 (**root cause**)
- Model-based test automation for data at scale



Easy To Use Wizard-driven test creation

### Key Benefits

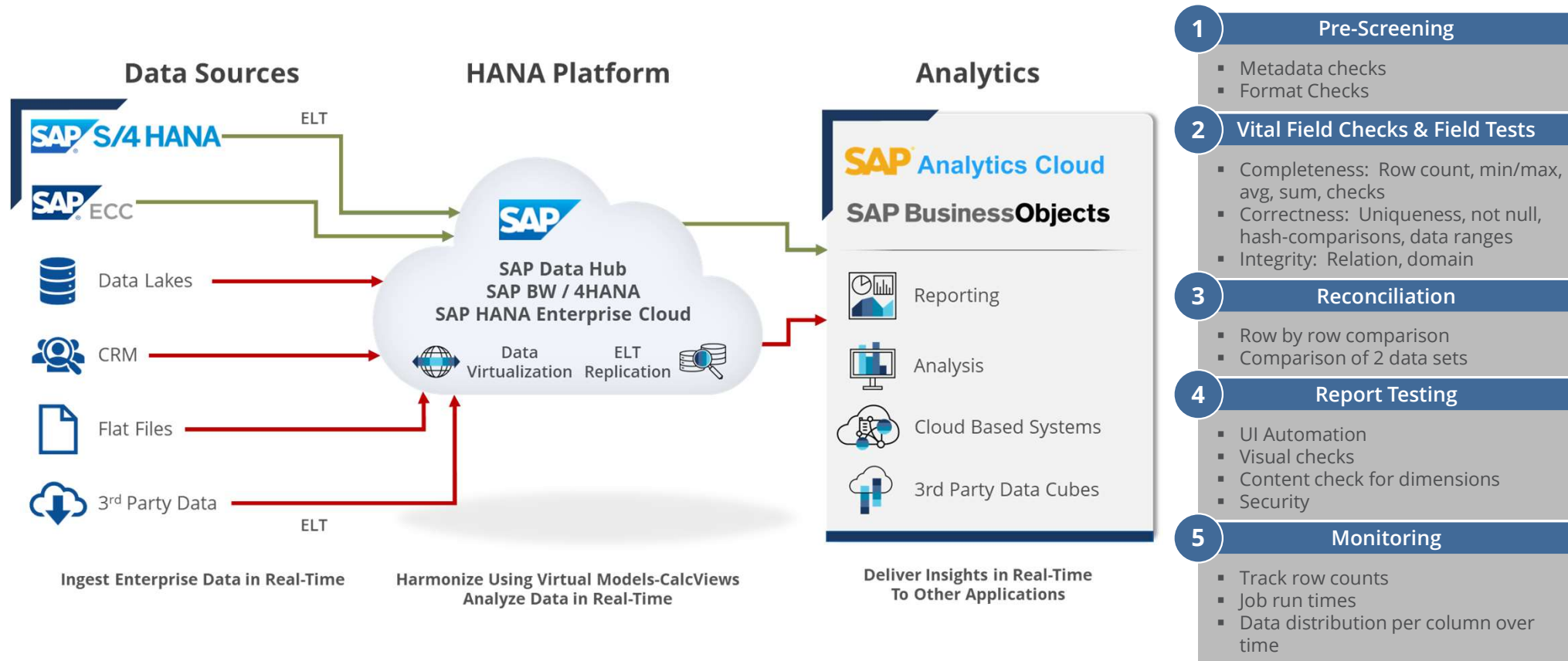
- Comprehensive data testing across **SAP & 3rd-party technologies**
- Actionable reporting (Analytics: Financial & Project, Compliance)
- Customizable risk thresholds
- Low-code/no-code automation
- Integration with DataOps and DevOps tools

### Business Value

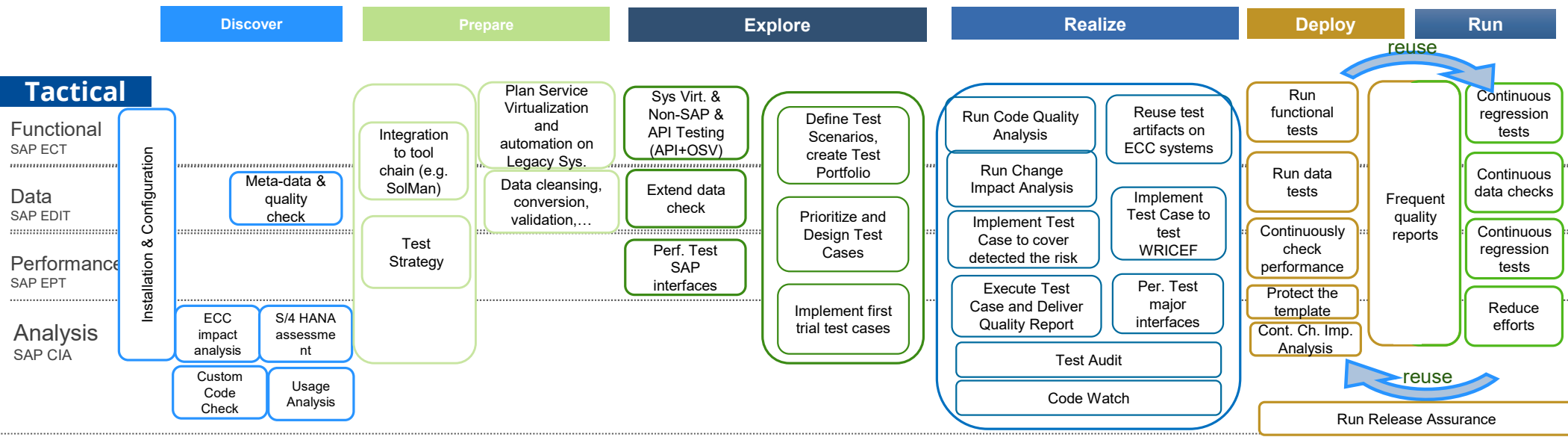
- Trustworthy BI reports leading to optimal decision making
- Operational excellence across data-driven business processes
- Accurate AI/ML model predictions
- Regulatory compliance and mitigated risk

# The race is on to find data errors

To trust data in production, you MUST test end-to-end in the test environment



# Tricentis in S/4 HANA Migration Project



## How to establish a Continuous Testing Organization to be able to do those activities continuously

**Strategic Enablement**  
Tricentis Advisory





**Thank You**

