LiveCompare

Change Intelligence for SAP

Code Better

Test Smarter

Release Faster

Superior Quality

DevOps in 30 seconds...

- Modern way of developing and delivering software at high speed

- Maximizes automation, integration and collaboration between IT & business

- Automated chain of continuous software delivery from development, testing, deployment and continuous improvement

- End goal is to be able to rapidly deploy business value as soon as its ready instead of waiting weeks or months for next release

The Problem
Extremely difficult to adopt agile DevOps practices in SAP

- SAP tech stack is unique, traditional DevOps tool chain sets don't work in SAP

- SAP centric DevOps tool sets are siloed/fragmented that don't integrate

- Outdated test automation & management solutions, no longer fit for purpose

- Companies stuck in old traditional waterfall or semi waterfall methodologies

- Testing has remained the primary bottleneck in slowing the SAP change and release process down.

- IT struggles to keep pace with the high-volume frequency of changes demanded by the business, and the frequent upgrades required by SAP.

Key Questions
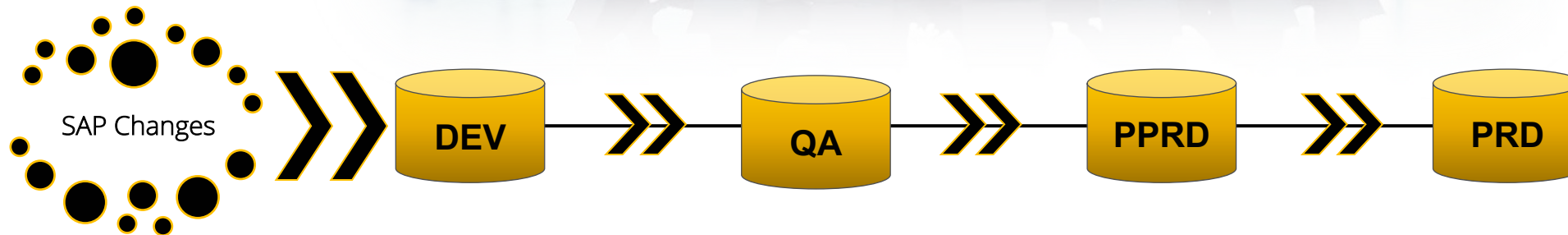
LiveCompare Introduction

LiveCompare is an AI-Powered Change Intelligence Platform to enable customers to facilitate a streamlined, more efficient, higher quality SAP change & release process.

Delivers real-time insights across the SAP delivery pipeline empowering SAP delivery teams to modernize their SAP change and release process leveraging data-driven insights to **Code Better, Test Smarter**, **Release Faster** with **Superior Quality**

Equips SAP project teams with the Intelligence they need to accelerate and de-risk SAP Transformational projects
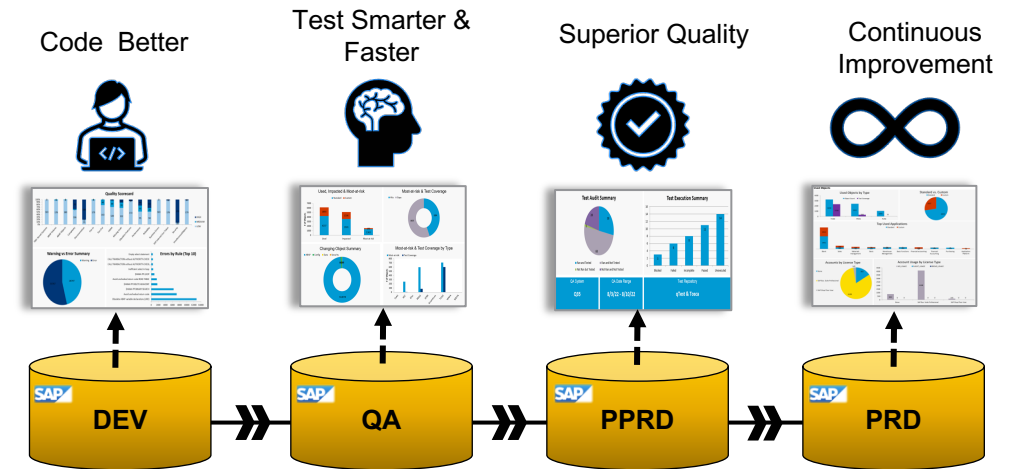
Intelligent Insights Powered by LiveCompare

ABAP Code Quality Analysis

- Shift left on quality
- Pinpoint coding issues early on SDLC
- Instant feedback for developers
- Data driven insights for commit approvals
- Governance over partner led development work
- Improved SAP application health
- Less production defects

Smart Impact Analysis

- Intelligent targeted testing
- 80% reduced testing efforts
- Faster test cycles
- Speeds up release cadences 2-3X
- Superior quality

SAP Test Coverage Insights

- Clear insights into test coverage in every release
- Prioritize time, resources and money in appropriate areas
- Track test coverage trends and monitor progress
- Eliminate duplicate test work
- Maximize ROI in test automation solutions

Test Audit

- Quality gate for deployment approvals
- Instant feedback for release managers
- improved business continuity
- Zero defect leakage

N+1 Transport Merge Comparison

- Perform Transport merges 80% faster
- Auto discover code and config conflicts for retrofitting
- Eliminate manual analysis & investigative work
- Deliver projects & releases faster
- De-risk transport merges

SAP Custom Code Management Insights

- Continuous visibility into custom code
- Manage, govern, optimize customizations
- Track trends and KPI's around custom code
- Eliminate Technical debt

SAP Root-Cause Analysis

- Debug Prod issues 80% faster
- Less resource involvement
- Minimize production downtime
- Improved business continuity

SAP System Synchronization

- Ensure code, config & data stays in sync
- Avoid defects cased by system discrepancies
- Reduced need for system refreshes
- Test data validation
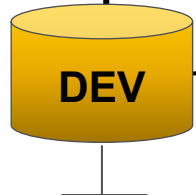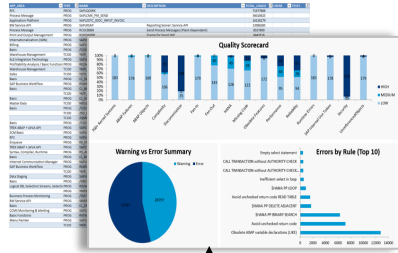
S/4 Readiness Assessment

- Compare existing ECC to target S/4
- Key insights to plan, scope and strategize
- Identify impact & test scope
- Retire dormant custom code
- Improve quality & performance of existing code
- Remediate existing code to be S/4 ready

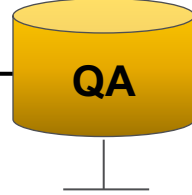Tricentis

SAP Change & Release Insights

ABAP Code Quality Inspection

Quality gate for commit approvals
Identify coding issues early in SDLC
Instant feedback for developers
Governance over partner led development work

DEV — Quality Gate

SAP Change Impact Analysis
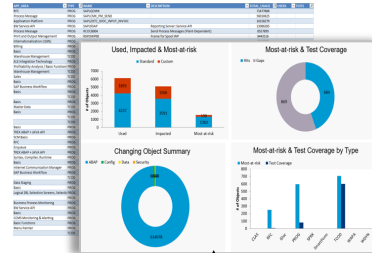
Intelligent targeted testing
80% reduced testing efforts
Faster test cycles
More frequent releases

QA

SAP Test Audit Inspection
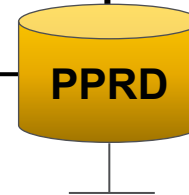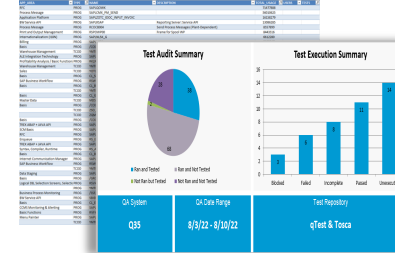
Quality gate for deployment approvals
Instant feedback for change release managers
improved business continuity
Zero defect leakage

PPRD — Quality Gate

SAP Test Coverage & Gap Insights
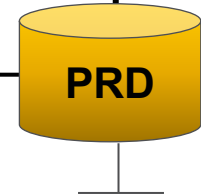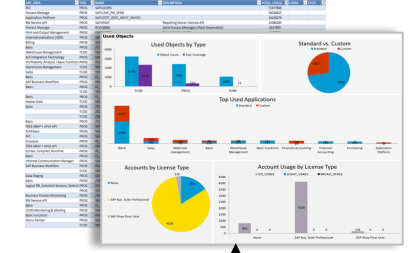
Overall test coverage & gaps visibility
Test creation planning & strategy
Track test coverage progress
Continuous Improvement

PRD

Tricentis

Modernized SAP Change & Release Process
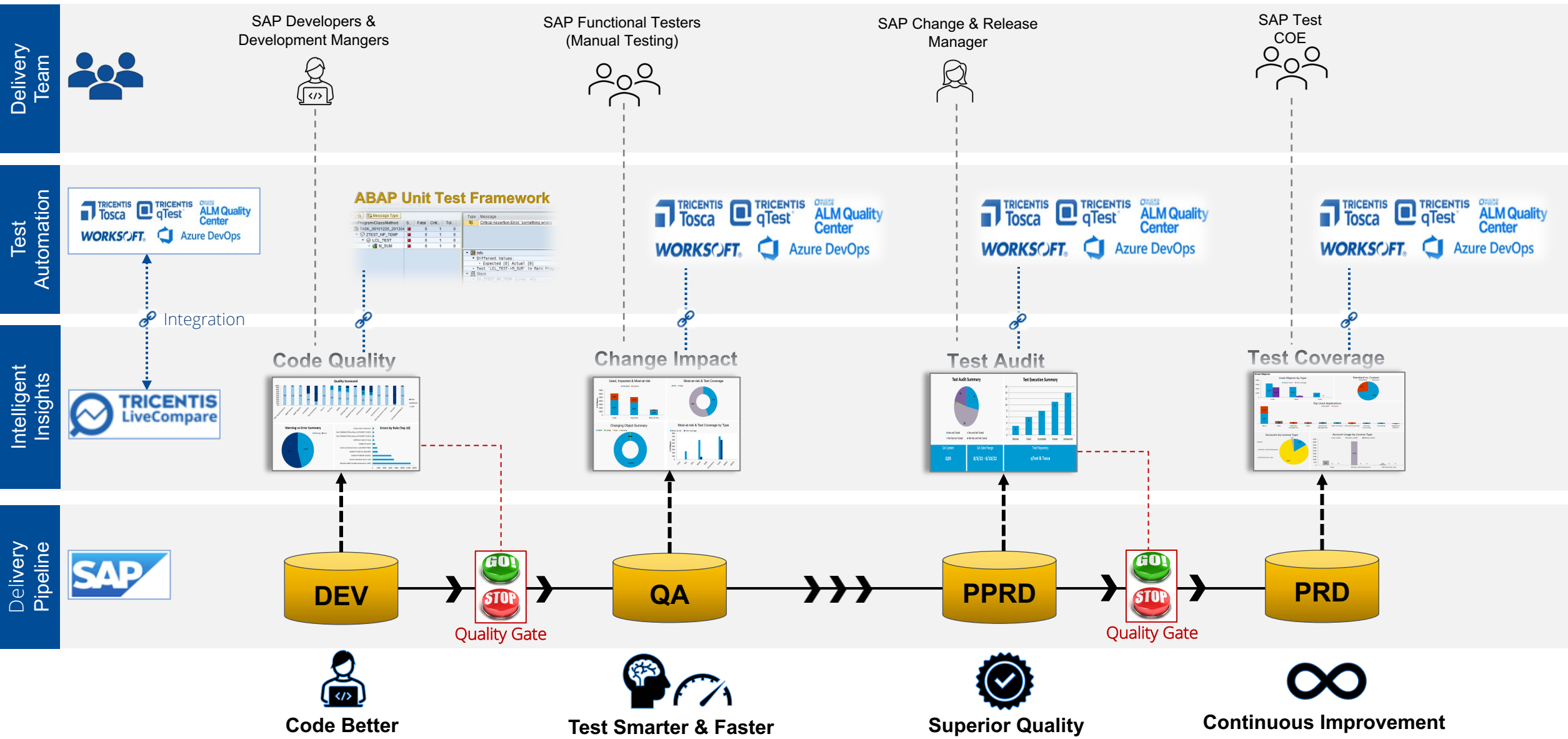
Orchestrating DevOps for SAP

AI-Powered Change Intelligence Platform that combines **Intelligence, Integrations, Automation** & **Governance** for facilitating a streamlined, more efficient, higher quality SAP change & release process.
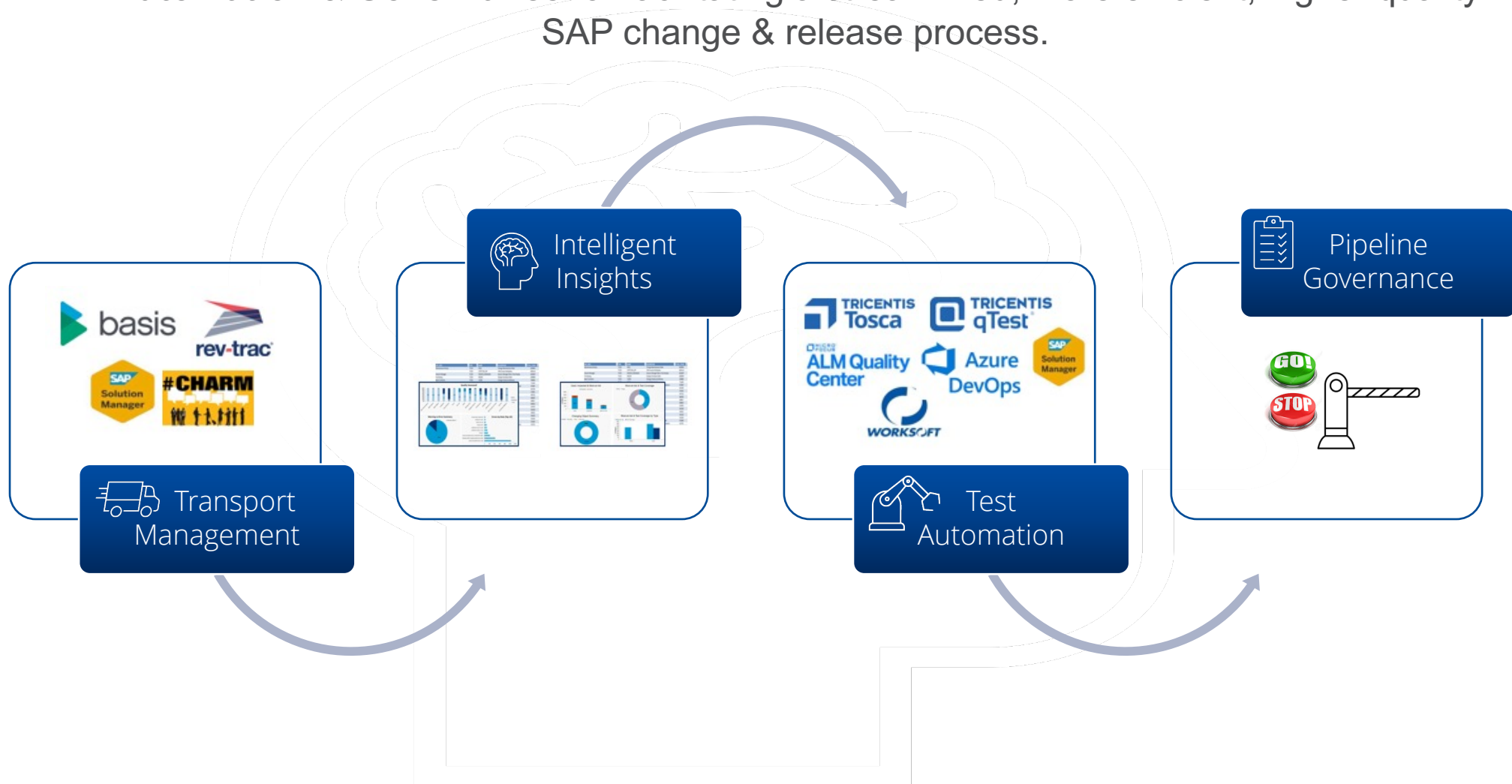
Automated Change & Release Process

ABAP Code Quality Insights
Identifies issues in the code

Change Impact Analysis
Pinpoints what to test

Test Audit
Checks if it's been tested
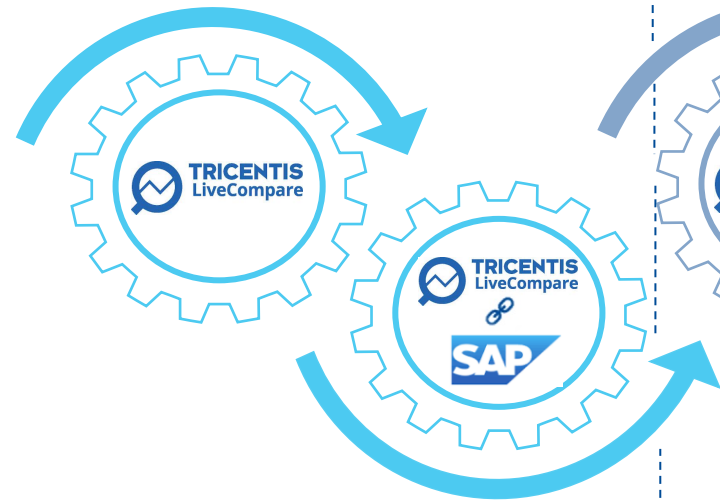
Unit Test Automation
Automates unit tests in SAP's
ABAP Unit Test Framework
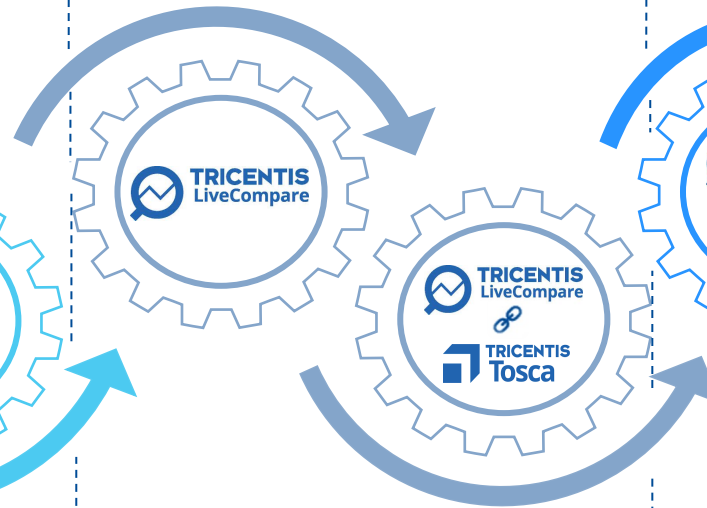
Functional Test Automation
Intelligently selects tests to run
auto executes the tests in Tosca
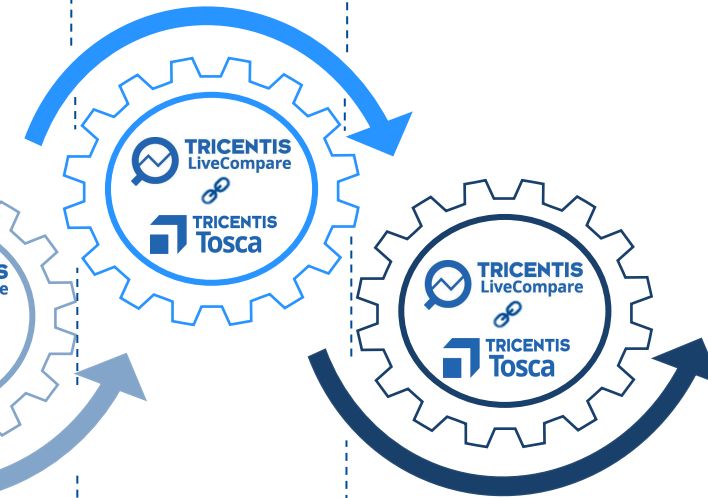
Test Coverage Insights
Uncovers test gaps and
prioritizes test creation

| SAP DEV | SAP QA | SAP PPRD | SAP PRD |

Tricentis

Business Value Summary

Current State

Outdated Testing Strategy

- Limited visibility into system impact & what should be tested
- Test everything approach
- Hard to keep pace with high volume & frequency of changes
- Slow testing cycles
- Resource intensive, costly & risky
- Lacks quality
- Extended & costly hyper care periods

Negative Business Impact

- Long wait times for new functionality & enhancements
- Missed SAP Project go-lives
- SAP Upgrades & Patches are avoided

Future State

Modernized Agile Testing Strategy

- Fact-based data driven insights on what needs to be tested
- Precision targeted testing
- Reduced testing scope – eliminate unnecessary testing
- Faster test cycles
- Release more frequently
- Superior quality
- Reduced & less costly hyper care periods

Positive Business Impact

- Quicker Time-to-Production for new functionality & enhancements
- Go-to-Market faster with SAP transformational projects
- Perform Upgrades more often in less time with lower costs

Tricentis

Architecture & Set-Up
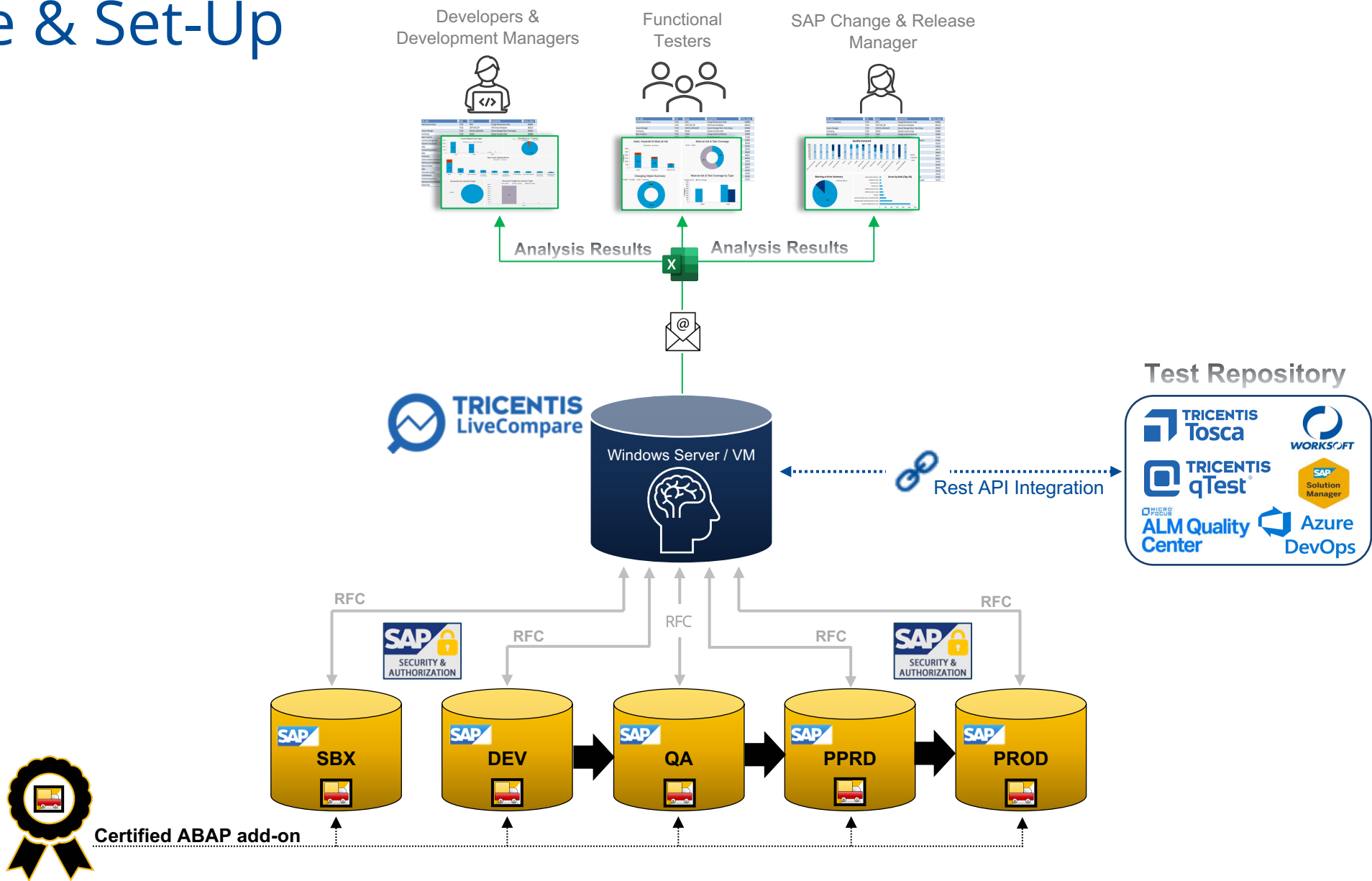
Change Impact Analysis

Impact Analysis & Test Coverage Summary

Impact Analysis

Test Coverage

Change Scope

Tricentis

Most at Risk Test Cope Summary

Used, Impacted & Most-at-risk

Legend: ■ Standard ■ Custom

	Standard	Custom
Used	1316	125
Impacted	975	115
Most-at-risk	163	83

246
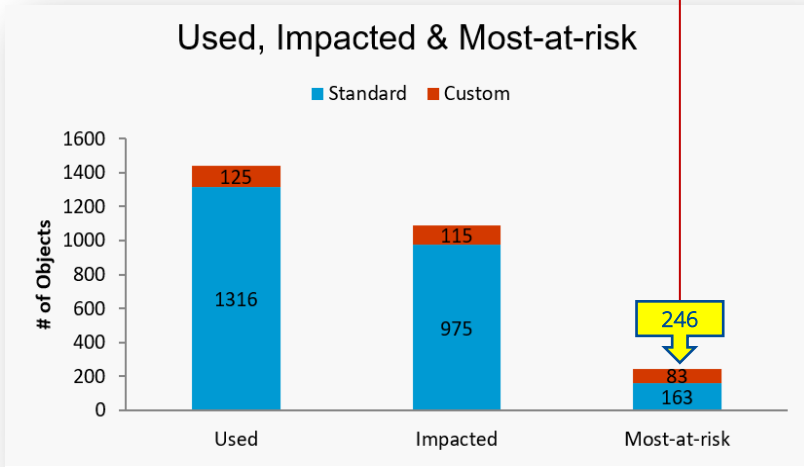
Test Scope

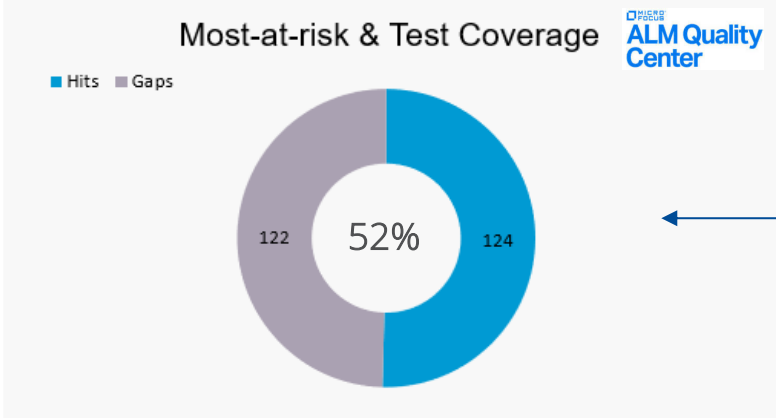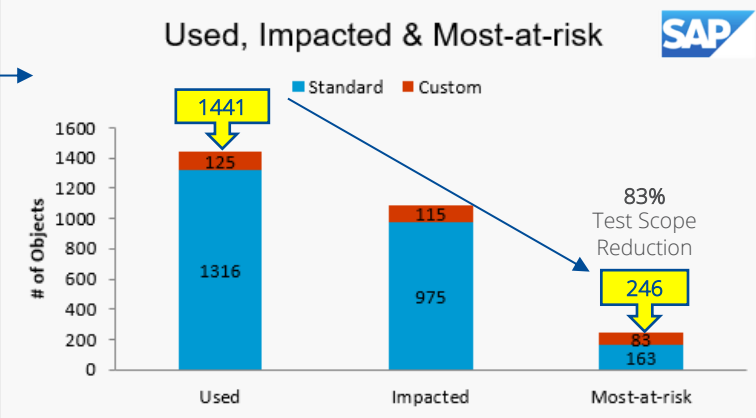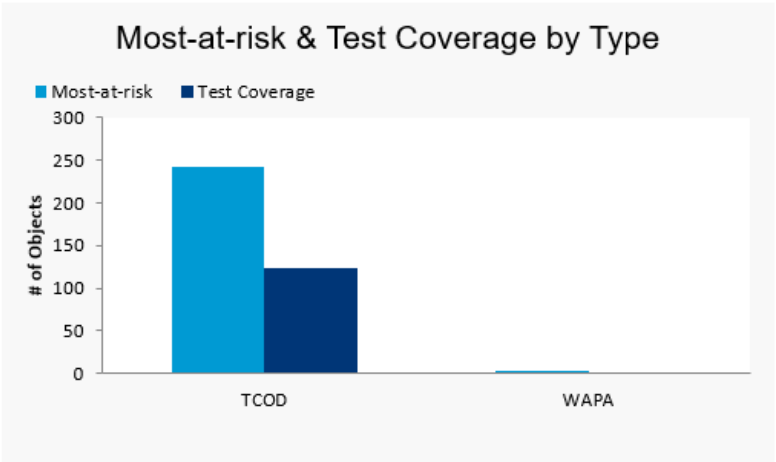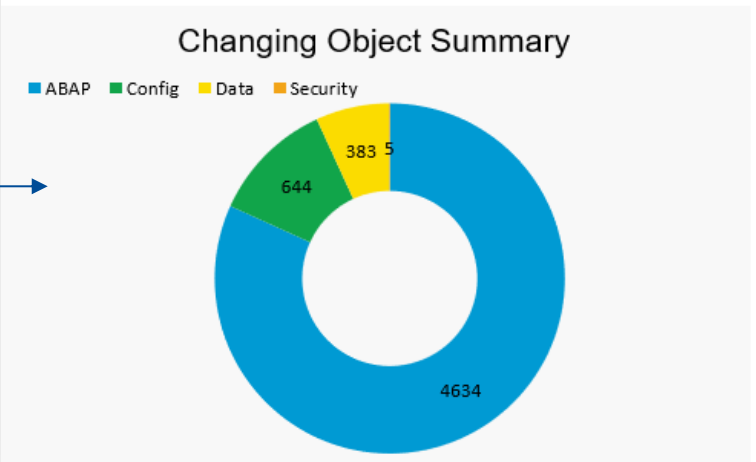| TYPE	NAME	STATUS	IMPACTFUL_OBJECTS	DESCRIPTION	USAGE	USERS	TESTS	CUSTOM
TCOD	VL01N	Most-at-risk	35	Create Outbound Dlv. with Order Ref.	2573995	93	43	
TCOD	VA01	Most-at-risk	16	Create Sales Orders	1555295	96	125	
TCOD	ME51N	Most-at-risk	1	Create Purchase Requisition	661819	95	20	
TCOD	ME23N	Most-at-risk	1	Display Purchase Order	370771	195	15	
TCOD	ME21N	Most-at-risk	1	Create Purchase Order	285205	72	16	
TCOD	VF03	Most-at-risk	1	Display Billing Documents	263858	212	29	
TCOD	ZGGLOTC_TRN_SLCOPT01	Most-at-risk	1	Settlement Cockpit Change	249891	74	47	Y
TCOD	FBL3N	Most-at-risk	1	G/L Account Line Items	247286	34	13	
TCOD	WCOCO	Most-at-risk	1		201842	57	87	
TCOD	FBR2	Most-at-risk	1	Post Document	141750	16		
TCOD	FB01	Most-at-risk	2	Post Document	140954	48	37	
TCOD	VF01	Most-at-risk	3	Create Billing Documents	127764	32	201	
TCOD	ZGBILLING_WRAPPER	Most-at-risk	1	Wrapper Program for Billing	113255	14	1	Y
TCOD	/DSD/RP_DYNDISP	Most-at-risk	1	Dynamic Transportation Planning	88436	27	4	
TCOD	ZGGLOTC_TRN_VISIT_PL	Most-at-risk	1	DSD Customers Frequency and Sequence	84936	8	15	Y
TCOD	/DSD/SL_MS_SETTLE	Most-at-risk	1	Perform Final Settlement	65696	1		
TCOD	VKM4	Most-at-risk	1	SD Documents	44300	18		
TCOD	ZGGLMTD_TRN_PROD_JDA	Most-at-risk	5	Production Method S4 to JDA	35429	55	6	Y
TCOD	VK12	Most-at-risk	4	Change Condition	30278	16	8	
TCOD	VK11	Most-at-risk	4	Create Condition	28576	14	29	
TCOD	ZGGL_OTC_TRN_VK11	Most-at-risk	12	Price Upload Program	25278	18	10	Y
TCOD	ZG_BLIND_SETTLEMENT	Most-at-risk	1	Tcode For Blind Settlement	24646	2		Y
TCOD	ZGROADNET_DELIVERY	Most-at-risk	2	Deliveries interface S4 to Roadnet	20456	11	3	Y
TCOD	FBL5N	Most-at-risk	1	Customer Line Items	18161	30	9	
TCOD	ZG_CREDIT_CONTROL	Most-at-risk	1	Tcode for ZGIOB_CREDIT_CONTROL	18013	3	17	Y
TCOD	/OPT/VIM_WP	Most-at-risk	1		16706	33	11	
TCOD	ZGGLOTC_TRN_VPLAN	Most-at-risk	1	Visit Plan Data to DSD	11619	7	21	Y
TCOD	BD21	Most-at-risk	2	Select change pointer	11592	1		
TCOD	VV32	Most-at-risk	1	Change output: Billing	11169	15		
TCOD	ME31K	Most-at-risk	1	Create Contract	11009	27	1	
TCOD	MIGO	Most-at-risk	1	Goods Movement	10820	63	120	
TCOD	ZGGLOTC_TRN_PRC_COND	Most-at-risk	8	Pricing Condition Interface	7079	5	15	Y
TCOD	ZG_TRN_LIS_EXC_HHC	Most-at-risk	2	Listing/ Exclusion Cond Rec to HHC	5365	3	30	Y
TCOD	F110	Most-at-risk	1	Parameters for Automatic Payment	4717	13	31	
TCOD	ZGSETTLEMENT_CONTROL	Most-at-risk	1	Settlement control report	4621	11	2	Y
TCOD	VOE4	Most-at-risk	1	Sales EDI Conversion	3357	3		
TCOD	ZGSORTED_PRINT	Most-at-risk	1	Print Program	3227	5	1	Y
TCOD	ZGMOV_VAN_STOCK	Most-at-risk	1	Move Van Stock to Next Day	2827	7	4	Y

Most at Risk Drill Down

IMPACTED USERS

TYPE	NAME	COUNT	ACCOUNT	USER_TYPE
TCOD	VA01	94379	69703763	
TCOD	VA01	84372	69703764	
TCOD	VA01	80057	69703765	
TCOD	VA01	70670	69703766	
TCOD	VA01	29387	69703767	
TCOD	VA01	22049	69706414	
TCOD	VA01	18725	69703762	
TCOD	VA01	17981	69709722	
TCOD	VA01	13885	69709312	
TCOD	VA01	7239	69709505	
TCOD	VA01	6304	69709723	
TCOD	VA01	4443	69709574	
TCOD	VA01	4116	69703768	

TYPE	NAME	STATUS	IMPACTFUL_OBJECTS	DESCRIPTION	USAGE	USERS	TESTS	CUSTOM
TCOD	VL01N	Most-at-risk	35	Create Outbound Dlv. with Order Ref.	2573995	93	43	
TCOD	VA01	Most-at-risk	16	Create Sales Orders	1555295	96	125	
TCOD	ME51N	Most-at-risk	1	Create Purchase Requisition	661819	95	20	
TCOD	ME23N	Most-at-risk	1	Display Purchase Order	370771	195	15	
TCOD	ME21N	Most-at-risk	1	Create Purchase Order	285205	72	16	
TCOD	VF03	Most-at-risk	1	Display Billing Documents	263858	212	29	
TCOD	ZGGLOTC_TRN_SLCOPT01	Most-at-risk	1	Settlement Cockpit Change	249891	74	47	Y
TCOD	FBL3N	Most-at-risk	1	G/L Account Line Items	247286	34	13	
TCOD	WCOCO	Most-at-risk	1		201842	57	87	
TCOD	FBR2	Most-at-risk	1	Post Document	141750	16		
TCOD	FB01	Most-at-risk	2	Post Document	140954	48	37	
TCOD	VF01	Most-at-risk	3	Create Billing Documents	127764	32	201	
TCOD	ZGBILLING_WRAPPER	Most-at-risk	1	Wrapper Program for Billing	113255	14	1	Y
TCOD	/DSD/RP_DYNDISP	Most-at-risk	1	Dynamic Transportation Planning	88436	27	4	
TCOD	ZGGLOTC_TRN_VISIT_PL	Most-at-risk	1	DSD Customers Frequency and Sequence	84936	8	15	Y
TCOD	/DSD/SL_MS_SETTLE	Most-at-risk	1	Perform Final Settlement	65696	1		
TCOD	VKM4	Most-at-risk	1	SD Documents	44300	18		

CHANGING OBJECTS

CHANGE_ID	CHILD_TYPE	CHILD_NAME	CHILD_STATUS	DEPT	TYPE	NAME	DYNP
G1DK956091	ENHO	ZGGL_OTC_IENH_SET_VBAK_FLD_DIS		2	TCOD	VA01	1
G1DK956091	ENHO	ZGGL_OTC_IENH_SET_VBAK_FLD_DIS		2	TCOD	VA01	1
G1DK954155	ENHO	ZGIENH_COND_RATE_CHANGE		2	TCOD	VA01	1
G1DK955919	ENHO	ZGIENH_MV45AFZZ_SET_PARAMS		2	TCOD	VA01	1
G1DK955997	ENHO	ZGIENH_SO_BYPASS_INCOMP_CHECK		2	TCOD	VA01	1
G1DK955997	ENHO	ZGIENH_SO_INCOMPLETION_LOG		2	TCOD	VA01	1
G1DK954155	INCL	RV61A903		5	TCOD	VA01	1
G1DK953395	INCL	RV64A907		5	TCOD	VA01	1
G1DK961224	TABL	/DSD/VC_ORDER		8	TCOD	VA01	2
G1DK957395	TABL	T683T		3	TCOD	VA01	1
G1DK960469	TABL	T684G		5	TCOD	VA01	1
G1DK960469	TABL	T684S		5	TCOD	VA01	1
G1DK954155	TABL	TFRMT		4	TCOD	VA01	1
G1DK958381	TABL	TMS_C_SLS		4	TCOD	VA01	1
G1DK953811	TABL						1
G1DK946260	TABL						1
G1DK946079	TABL						1

ALM TESTS

Auto populate Test Lab

CODE DRILL DOWN

IMPACTED SCREENS

DYNP_NUM	DTXT
0101	Sales doc. Initial screen Create
4311	4.0: Subscreen: Header - Financial Accounting

Tricentis

16

Most at Risk Drill Down

TYPE	NAME	STATUS	IMPACTFUL_OBJECTS	DESCRIPTION	USAGE	USERS	TESTS	CUSTOM
TCOD	VK12	Most-at-risk	4	Change Condition	30278	16	8	
TCOD	VK11	Most-at-risk	4	Create Condition	28576	14	29	
TCOD	ZGGL_OTC_TRN_VK11	Most-at-risk	12	Price Upload Program	25278	18	10	Y
TCOD	ZG_BLIND_SETTLEMENT	Most-at-risk	1	Tcode For Blind Settlement	24646	2		Y
TCOD	ZGROADNET_DELIVERY	Most-at-risk	2	Deliveries interface S4 to Roadnet	20456	11	3	Y
TCOD	FBL5N	Most-at-risk	1	Customer Line Items	18161	30	9	
TCOD	ZG_CREDIT_CONTROL	Most-at-risk	1	Tcode for ZGIOB_CREDIT_CONTROL	18013	3	17	Y
TCOD	/OPT/VIM_WP	Most-at-risk	1		16706	33	11	
TCOD	ZGGLOTC_TRN_VPLAN	Most-at-risk	1	Visit Plan Data to DSD	11619	7	21	Y
TCOD	BD21	Most-at-risk	2	Select change pointer	11592	1		
TCOD	VV32	Most-at-risk	1	Change output: Billing	11169	15		
TCOD	ME31K	Most-at-risk	1	Create Contract	11009	27	1	
TCOD	MIGO	Most-at-risk	1	Goods Movement	10820	63	120	
TCOD	ZGGLOTC_TRN_PRC_COND	Most-at-risk	8	Pricing Condition Interface	7079	5	15	Y
TCOD	ZG_TRN_LIS_EXC_HHC	Most-at-risk	2	Listing/ Exclusion Cond Rec to HHC	5365	3	30	Y
TCOD	F110	Most-at-risk	1	Parameters for Automatic Payment	4717	13	31	
TCOD	ZGSETTLEMENT_CONTROL	Most-at-risk	1	Settlement control report	4621	11	2	Y
TCOD	VOE4	Most-at-risk	1	Sales EDI Conversion	3357	3		
TCOD	ZGSORTED_PRINT	Most-at-risk	1	Print Program	3227	5	1	Y
TCOD	ZGMOV_VAN_STOCK	Most-at-risk	1	Move Van Stock to Next Day	2827	7	4	Y

IMPACTED USERS

TYPE	NAME	COUNT	ACCOUNT	USER_TYPE
TCOD	ZGGL_OTC_TRN_VK11	8981	69703944	
TCOD	ZGGL_OTC_TRN_VK11	3780	69703945	
TCOD	ZGGL_OTC_TRN_VK11	1271	69709594	
TCOD	ZGGL_OTC_TRN_VK11	643	69702678	
TCOD	ZGGL_OTC_TRN_VK11	374	69703946	
TCOD	ZGGL_OTC_TRN_VK11	149	FFS_R1U_DATY	
TCOD	ZGGL_OTC_TRN_VK11	127	FFS_R1U_DATU	
TCOD	ZGGL_OTC_TRN_VK11	110	FFS_R1U_OTC3	
TCOD	ZGGL_OTC_TRN_VK11	35	FFS_R1U_BDTI	
TCOD	ZGGL_OTC_TRN_VK11	31	69703765	
TCOD	ZGGL_OTC_TRN_VK11	31	69709644	
TCOD	ZGGL_OTC_TRN_VK11	31	FFS_R1U_OTCC	
TCOD	ZGGL_OTC_TRN_VK11	17	69704033	
TCOD	ZGGL_OTC_TRN_VK11	17	FFS_R1U_BDTA	
TCOD	ZGGL_OTC_TRN_VK11	10	FFS_R1U_OTC2	
TCOD	ZGGL_OTC_TRN_VK11	8	FFS_R1U_OTC8	
TCOD	ZGGL_OTC_TRN_VK11	5	FFS_R1U_OTCH	
TCOD	ZGGL_OTC_TRN_VK11	4	FFS_R1U_OTCD	

CHANGING OBJECTS

CHANGE_ID	CHILD_TYPE	CHILD_NAME	CHILD_STATUS	DEPTH	TYPE	NAME	DYNP
G1DK961271	DTEL	ZGDEL_CNTXT		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK961271	DTEL	ZGDEL_INTXT		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK961271	DTEL	ZGDEL_PRTXT		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK961271	INCL	ZGGL_OTC_INC_PRICE_UPLD_F01		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK961271	INCL	ZGGL_OTC_INC_PRICE_UPLD_TOP		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK961271	STRC	ZGGL_OTC_STR_CONTAINER2		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK961975	STRC	ZGSTR_COND_NON_KEY_FIELDS		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK948932	TABL	T681E		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK948932	TABL	T682I		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK954831	TABL	T685A		2	TCOD	ZGGL_OTC_TRN_VK11	
G1DK948932	TABL	TMC1D					
G1DK948932	TABL	TMC1T					

ALM TESTS TO RUN

NAME	TEST_NAME	TEST_PATH
ZGGL_OTC_TRN_VK11	AINT_EURW1_OTC_OM_SaleFromStockWithListingsExclusions_GB	Subject\Europe Wave 1 – Automation\AINT 1\OTC
ZGGL_OTC_TRN_VK11	AINT_EURW1_OTC_OM_SaleFromStockWithListingsExclusions_IE	Subject\Europe Wave 1 – Automation\AINT 1\OTC
ZGGL_OTC_TRN_VK11	AINT_EURW1_OTC_OM_SaleFromStockWithListingsExclusions_PL	Subject\Europe Wave 1 – Automation\AINT 1\OTC
ZGGL_OTC_TRN_VK11	ASIT2_EURW1_OTC_PR_Mass Upload new features-UK	Subject\Europe Wave 1 – Automation\ASIT2\OTC
ZGGL_OTC_TRN_VK11	T-202876_EURW1_OTC_ZGGLOTC_TRN_CHNG_LOG_Check Change Log Audit report	Subject\Europe Wave 1\OTC\Pricing & Rebates
ZGGL_OTC_TRN_VK11	T-212085_EURW1_OTC_ZGGL_OTC_TRN_VK11_Mass upload program for pricing	Subject\Europe Wave 1\OTC\Pricing & Rebates
ZGGL_OTC_TRN_VK11	TC_M_EURW1_OTC_PR_ZGGLOTC_TRN_VK11_Pricing Upload Program_E000225	Subject\Europe Wave 1\OTC\WRICEF Test Cases
ZGGL_OTC_TRN_VK11	TC_M_GT_OTC_PR_Create pricing upload,mass change functionality	Subject\Migrated from Global_Template\Global Template\INT3\SPRINT 8\OTC\PR
ZGGL_OTC_TRN_VK11	TC_M_GT_OTC_PR_Create pricing upload,mass change functionality	Subj
ZGGL_OTC_TRN_VK11	TC_M_GT_OTC_PR_Create pricing upload,mass change functionality	Subj

Auto populate
Test Lab

TABLE/CONFIG DRILL DOWN

Table Definition : KNA1

General | Header | Attributes

⊞ J_1IEXCO - Excise Commissionerate
⊞ J_1ICSTNO - Central Sales Tax Number
⊞ J_1ILSTNO - Local Sales Tax Number
⊞ J_1IPANNO - Permanent Account Number
⊞ J_1IEXCICU - Excise tax indicator for customer
⊞ AEDAT - (Obsolete) Last Changed On – do not use
⊞ USNAM - (Obsolete) Changed by the user – do not use
⊞ J_1ISERN - Service Tax Registration Number
⊞ J_1IPANREF - PAN Reference Number
⊟ GST_TDS (Only in SE1_900) - GST TDS Registration

Field Name	SE1_900	ZE1_900	Description
POSITION	0211		Position of the field in the table
OFFSET	002583		Offset of a field
LENG	000018		Length (No. of Characters)
INTLEN	000018		Internal Length in Bytes
DECIMALS	000000		Number of Decimal Places
DATATYPE	CHAR		ABAP Dictionary: Dynpro Data Type for Screen Painter
INTTYPE	C		ABAP data type (C,D,N,...)
CONVEXIT			Conversion Routine

⊟ J_3GETYP - Recipient Type

Field Name	SE1_900	ZE1_900	Description
POSITION	0212	0211	Position of the field in the table
OFFSET	002601	002583	Offset of a field
LENG	000002	000002	Length (No. of Characters)
INTLEN	000002	000002	Internal Length in Bytes

Tricentis

17

Change Impact Analysis

- Intelligent targeted testing

- 80% reduced testing efforts

- Faster test cycles

- Increase release cadences 2-3X

- Perform SAP upgrades more frequently in less time with lower costs and less risk

- Superior quality

SAP Usage Audit & Test Coverage Insights

SAP Usage & Test Coverage Insights
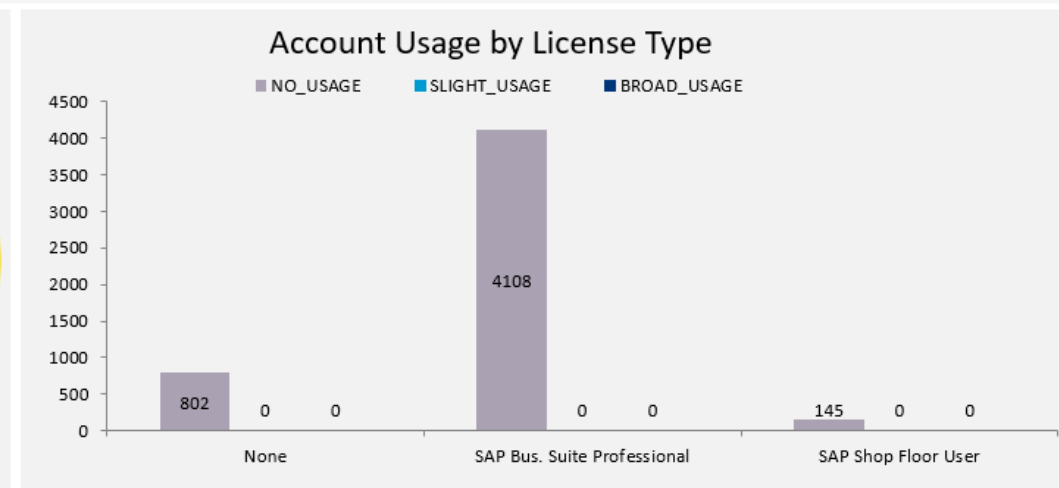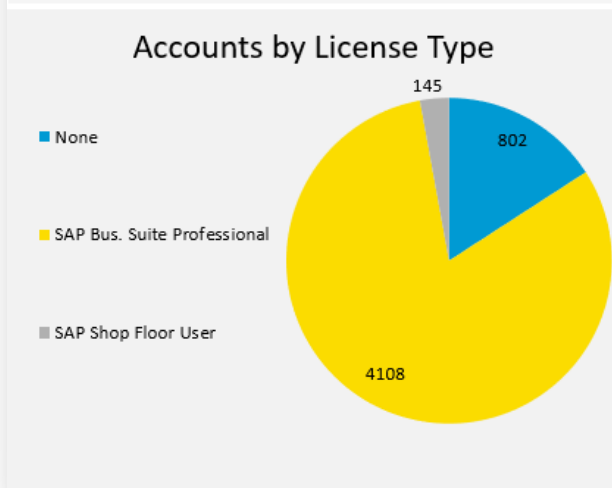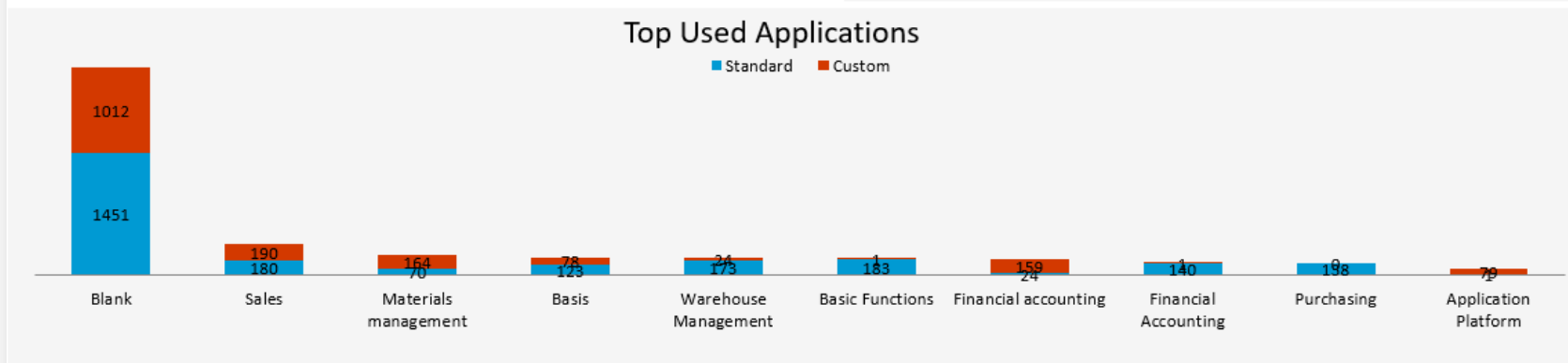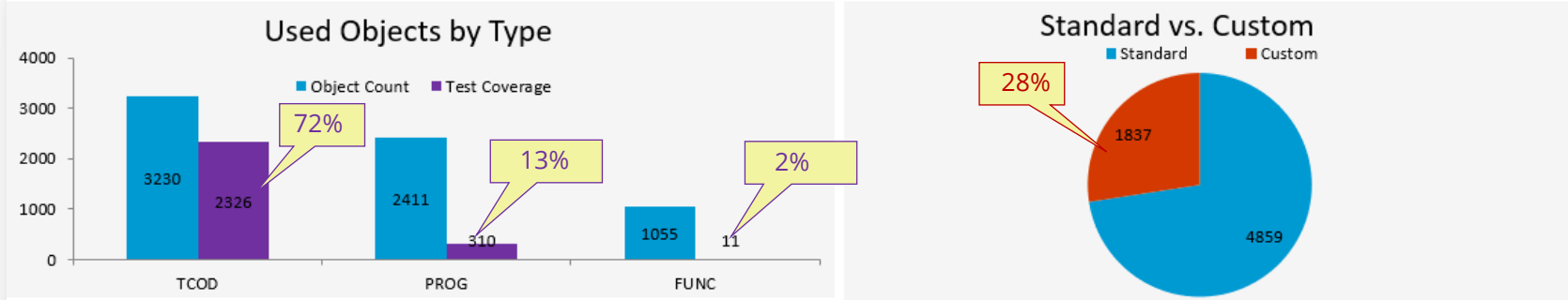
Test Coverage Summary

APP_AREA	TYPE	NAME	DESCRIPTION	TOTAL_USAGE	USERS	TESTS
RFC	PROG	SAPLQOWK		71477888		
Process Message	PROG	SAPLCMX_PM_SEND		56010625		
Sales	TCOD	VA02	Change Sales Order	42468918		3262
	TCOD	/COCKPIT/1	Process Director: Accounts Payable	17574129		3789
Application Platform	PROG	SAPLZOTC_IDOC_INPUT_INVOIC		16158279		
BW Service API	PROG	SAPLRSAP	Reporting Server: Service API	13086285		
Session Manager	TCOD	SESSION_MANAGER	Session Manager Menu Tree Display	11125979		29
Sales	TCOD	VA01	Create Sales Order	9963203		7969
Process Message	PROG	RCOCB004	Send Process Messages (Plant-Dependent)	8557899		
Print and Output Management	PROG	RSPOWP00	Frame for Spool WP	8443516		
Shipping	TCOD	VL02N	Change Outbound Delivery	7896601		6005
Shipping	TCOD	VL01N	Create Outbound Dlv. with Order Ref.	7895329		5413
Internationalization (I18N)	PROG	SAPLNLSK_G		6612280		
Inventory Management	TCOD	MB1B	Transfer Posting	6328596		1229
Inventory Management	TCOD	MIGO	Goods Movement	6205320		4952
Maintenance Task Lists	TCOD	IP10	Schedule Maintenance Plan	5106062		630
Purchasing	TCOD	ME23N	Display Purchase Order	5093556		3959
PPC	TCOD	ZPPPI_CALC_NET_YIELD	Calculate Net Yield	5038378		33
Inventory Management	TCOD	MB51	Material Doc. List	4818246		2187
	TCOD	YOTC_BAY_MANAGE	Bay Content Management Report	4744810		18
Inventory Management	TCOD	MB52	List of Warehouse Stocks on Hand	4621070		1437
Basic Functions	TCOD	VA05	List of Sales Orders	4351480		670
	TCOD	ZEWAY_TOOL	E-way Tool T-code	4345700		72
Purchasing	TCOD	ME21N	Create Purchase Order	4281529		4929
Browser-Based PI Sheet / Cockpit	TCOD	CO60	Find PI Sheet	4219176		368
Warehouse Management	TCOD	LS26	Warehouse stocks per material	3802105		836
Conditions	TCOD	VK11	Create Condition	3791282		407
	TCOD	YMTI_RF_GIGR	Tcode for YMTIE_RF_GIGR_DECLARATION	3440904		98
Material Master	TCOD	MMBE	Stock Overview	3359369		3730
Master Data	TCOD	MD04	Display Stock/Requirements Situation	3264284		1411

Tests

|	TOKEN	TEST_ID	TEST_NAME	TEST_PATH
Information System				
Financial Accounting	YOTC_BAY_MANAGE	40441	LogOps_N_APAC_BOF-Back of Factory with QI material_AU_Logops	Subject\Regression Inventory\APAC\SAP\LogOps\Warehouse Management\Manage Stocks
Results Recording	YOTC_BAY_MANAGE	103243	LogOps_N_APAC_BOF-Back of Factory with QI material_AU_Logops	Subject\SAP Releases\2020-11 AMEA-Nov-CN\CRF 10215 - CloudNEXT Wave 7\06 UAT - Test Cycle 1\Log Ops\Australia\SAP_WM_
Financial Accounting	YOTC_BAY_MANAGE	192909	MTI_E_APAC_CRF11651_QM-Inspection lot generation for Process order using Z004 (Positive Release) inspection type	Subject\SAP Releases\2023-05 GLOBAL AMEA MEU May Major Release\AMEA\CRF 11651 - Gourmet Food Integration - Australia\0
General Ledger Acco	YOTC_BAY_MANAGE	168946	LogOps_N_APAC_BOF-Back of Factory with QI material_AU_Logops	Subject\SAP Releases\2022-06 GLOBAL AMEA MEU Jun Major Release\CRF 10969 - Project Armstrong - MEU/AMEA/Global SAP Up
Transportation	YOTC_BAY_MANAGE	168945	LogOps_N_APAC_BOF-Back of Factory without QI Material_AU_Logops	Subject\SAP Releases\2022-06 GLOBAL AMEA MEU Jun Major Release\CRF 10969 - Project Armstrong - MEU/AMEA/Global SAP Up
Billing	YOTC_BAY_MANAGE	175483	MTI_N_APAC_Back Of Factory	Subject\SAP Releases\2022-06 GLOBAL AMEA MEU Jun Major Release\CRF 10969 - Project Armstrong - MEU/AMEA/Global SAP Up
Warehouse Manage	YOTC_BAY_MANAGE	174493	LogOps_N_APAC_BOF-Back of Factory without QI Material_AU_Logops	Subject\SAP Releases\2022-06 GLOBAL AMEA MEU Jun Major Release\CRF 10969 - Project Armstrong - MEU/AMEA/Global SAP Up
Purchasing	YOTC_BAY_MANAGE	30132	LYOTC_BAY_MANAGEMENTU02	Subject\Additional TestPlan Folders\Migration\Major Releases\2018-05 May Release\AMEA\APAC SAP EHP Upgrades -CRF 1448\
Inventory Managem	YOTC_BAY_MANAGE	91529	MTI_N_APAC_Back of Factory	Subject\Regression Inventory\APAC\E2E - SAP/NSA\MTI\BOF(xPD)
Billing	YOTC_BAY_MANAGE	91528	MTI_N_APAC_Back of Factory	Unattached
Billing	YOTC_BAY_MANAGE	196070	RTR-CRF11651-AMEA-CDD3085 - Gourrmet Food Integration - Australia	Subject\SAP Releases\2023-05 GLOBAL AMEA MEU May Major Release\AMEA\CRF 11651 - Gourmet Food Integration - Australia\0
Billing	YOTC_BAY_MANAGE	31389	LYOTC_BAY_MANAGEMENTU03	Subject\Additional TestPlan Folders\Migration\Major Releases\2018-05 May Release\AMEA\APAC SAP EHP Upgrades -CRF 1448\
Billing	YOTC_BAY_MANAGE	103244	LogOps_N_APAC_BOF-Back of Factory without QI Material_AU_Logops	Subject\SAP Releases\2020-11 AMEA-Nov-CN\CRF 10215 - CloudNEXT Wave 7\06 UAT - Test Cycle 1\Log Ops\Australia\SAP_WM_
Inspection Lot Comp	YOTC_BAY_MANAGE	40442	LogOps_N_APAC_BOF-Back of Factory without QI Material_AU_Logops	Subject\Regression Inventory\APAC\SAP\LogOps\Warehouse Management\Manage Stocks
	YOTC_BAY_MANAGE	170076	MTI_N_APAC_Back of Factory	Subject\SAP Releases\2022-06 GLOBAL AMEA MEU Jun Major Release\CRF 10969 - Project Armstrong - MEU/AMEA/Global SAP Up
	YOTC_BAY_MANAGE	194243	WM_E_APAC_CRF11651_YOTC_BAY_MANAGE	Subject\SAP Releases\2023-05 GLOBAL AMEA MEU May Major Release\AMEA\CRF 11651 - Gourmet Food Integration - Australia\0
	YOTC_BAY_MANAGE	180661	MTI_N_APAC_Back Of Factory	Subject\SAP Releases\2022-10 AMS Oct Major Release\CRF 11456 - CTO SAP OS/DB Upgrades October 2022\05 Integration Testing
	YOTC_BAY_MANAGE	30934	LYOTC_BAY_MANAGEMENTO01	Subject\Additional TestPlan Folders\Migration\Major Releases\2018-05 May Release\AMEA\APAC SAP EHP Upgrades -CRF 1448\

Tricentis

Test Coverage (Most Covered)

WORKSOFT

APP_AREA	TYPE	NAME	DESCRIPTION	TOTAL_USAGE	USERS	TESTS
Inventory Management	TCOD	MIGO	Goods Movement	5480	7	884
Sales	PROG	SAPMV45A	Sales Order Processing		4	461
Workbench Utilities	TCOD	SE16	Data Browser	660	14	186
Sales	TCOD	VA03	Display Sales Orders	304	5	160
Billing	TCOD	VF02	Change Billing Documents	222	2	130
Billing	TCOD	VF01	Create Billing Documents	261	1	124
User and Authorization Management	TCOD	SU3	Maintain Users Own Data	19	6	111
Inventory Management	TCOD	MB1A	Goods Withdrawal	1	1	107
Sales	TCOD	VA02	Change Sales Orders	778	6	101
Basic Functions	TCOD	V_V2	Updating Sales Documents by Material	3934	1	88
Purchasing	TCOD	ME23	Display Purchase Order	28	1	87
Purchasing	TCOD	ME23N	Display Purchase Order	645	9	87
Enqueue	TCOD	SM12	Display and Delete Locks	27	4	79
Shipping	TCOD	VL02N	Change Outbound Delivery	453	4	76
Shipping	PROG	SAPMV50A	General Delivery Module Pool		5	71
Table Maintenance Tool	TCOD	SM30	Call View Maintenance	447	11	66
Financial Accounting	TCOD	FB03	Display Document	788	6	58
Master Data	TCOD	MD04	Display Stock/Requirements Situation	220	3	58
Routing	TCOD	CA02	Change Routing	11856	2	58
Purchasing	TCOD	ME22N	Change Purchase Order	309	4	53
Sales	TCOD	VA01	Create Sales Orders	1119	6	53
Master Data	PROG	SAPMM61R	MRP List		2	51
Overhead Cost Controlling	TCOD	KSB1	Cost Centers: Actual Line Items	26	1	51
Billing	TCOD	VF03	Display Billing Documents	191	3	48
Shipping	TCOD	VL03	Display Outbound Delivery	13	1	47
Shipping	TCOD	VL03N	Display Outbound Delivery	213	7	47
Dialog SAP-GUI	TCOD					
Logistics Invoice Verification	TCOD					
Material Master	TCOD					
Production Orders	TCOD					
Output Determination	PROG					
Inventory Management	TCOD					
Print and Output Management	TCOD					
Inventory Management	TCOD					
Production Orders	PROG					
Shipping	TCOD					
Inventory Management	PROG					
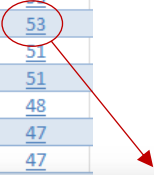
TOKEN	TEST_ID	TEST_NAME	TEST_PATH
VA01	290285	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/ozminkowwm/ZA01_CreateSalesOrderWithReference
VA01	298538	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/ozminkowwm/Regression scripts/credit memo- nafta
VA01	304350	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/1.ZA01_RefTo_
VA01	304550	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ZA01_CreateFormalQuote_Ref2QuickQuote
VA01	304596	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ZA01_CreateFormalQuote_RefToQuickQuote_BelowMOQ_EMEA
VA01	304653	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ZA01_CreateFormalQuote_RefToQuickQuote_BelowMOQ_NAFTA
VA01	304716	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ZA01_CreateFormalQuoteVC
VA01	304773	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ZA01_CreateQuickQuoteNonVC_BelowMOQ
VA01	304830	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ZA01_CreateQuickQuoteVC
VA01	305276	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ToBeDone/ZA01_CreateQuickQuoteVC
VA01	305337	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ToBeDone/ZA01_CreateQuickQuoteNonVC_BelowMOQ
VA01	305393	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ToBeDone/ZA01_CreateFormalQuoteVC
VA01	305449	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ToBeDone/ZA01_CreateFormalQuote_RefToQuickQuote_BelowMOQ_NAFTA
VA01	305503	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ToBeDone/ZA01_CreateFormalQuote_RefToQuickQuote_BelowMOQ_EMEA
VA01	305558	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/ToBeDone/ZA01_CreateFormalQuote_Ref2QuickQuote
VA01	305942	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/1.RefTo/ZA01_CreateSalesOrder_RefToContract_EMEA
VA01	305991	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/1.RefTo/ZA01_CreateSalesOrder_RefToContract_NAFTA
VA01	306115	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/1.RefTo/ZA01_CreateSalesOrder_RefToFormalQuote_BelowMOQ_EMEA
VA01	306175	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/1.RefTo/ZA01_CreateSalesOrder_RefToFormalQuote_BelowMOQ_NAFTA
VA01	306234	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/X. Sandbox/debowskip/1.WiP/ZA01/1.RefTo/ZA01_CreateSalesOrder_RefToQuote_HE
VA01	307344	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/B. Corning Optical Communications/01. Production Support (Gold Copy)/01.02. TCodes/Components/SAP/ZA/ZA01_CreateQuickQuoteNonVC_BelowMOQ
VA01	307393	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/B. Corning Optical Communications/01. Production Support (Gold Copy)/01.02. TCodes/Components/SAP/ZA/ZA01_CreateFormalQuote_RefToQuickQuote_BelowMOQ_NAFTA
VA01	307458	SendVKey "Enter" to Z_SD_VA01:9000 Window while Wait For Result is "True"	Root/Process/B. Corning Optical Communications/01. Production Support (Gold Copy)/01.02. TCodes/Components/SAP/ZA/ZA01_CreateSalesOrder_RefToFormalQuote_BelowMOQ_NAFTA

Tricentis

Test Creation Prioritization

WORKSOFT

APP_AREA	TYPE	NAME	DESCRIPTION	TOTAL_USAGE	USERS	TESTS
	TCOD	ZCCMS	CCMS Interface	54911	1	
Batches	TCOD	MSC2N	Change Batch	8448	2	
Implementation Guide	TCOD	SPRO	Customizing - Execute Project	6522	25	
Warehouse Management	TCOD	ZEWM_HU_PACK_UNPACK	Mass HU packing & unpacking in IM	3519	1	
Legacy System Migration Workbench	TCOD	LSMW	Legacy System Migration Workbench	3483	3	
Overhead Cost Controlling	TCOD	SE16N	General Table Display	2965	18	
Localization Data Media Exchange	TCOD	DMEEX	DMEEX: Format Tree Maintenance Tool	1994	5	
Business Process Monitoring	TCOD	ST12	Single transaction analysis	1073	1	
Financial Accounting	TCOD	FB1S	Clear G/L Account	1050	2	
Data Dictionary Tools in ABAP Workbench	TCOD	SE11	ABAP Dictionary Maintenance	1010	17	
Material Master	TCOD	MM01	Create Material &	999	9	
User and Authorization Management	TCOD	SU01	User Maintenance	911	11	
Product Cost Planning	TCOD	CK40N	Edit Costing Run	871	2	
ABAP Syntax, Compiler, Runtime	TCOD	ST22	ABAP Dump Analysis	861	7	
ABAP Authorization and Role Management	TCOD	PFCG	Role Maintenance	749	6	
Payment Progam / Payment transfer (DE, JP, US)	TCOD	F110	Parameters for Automatic Payment	654	4	
Basic Functions	TCOD	FSE3	Display Financial Statement Version	556	1	
Basic Functions	TCOD	FS00	G/L acct master record maintenance	511	5	
Product Cost Planning	TCOD	CK11N	Create Material Cost Estimate	489	2	
Basic Functions	TCOD	VA05	List of Sales Orders	427	4	
Cost Center Accounting	TCOD	KP06	Change CElem/Activity Input Planning	426	2	
F1 Help	TCOD	SH02	For Further Navigation	409	11	
Workbench Tools: Editors, Painters, Modelers	TCOD	SE93	Maintain Transaction Codes	373	7	
Customer Enhancements	TCOD	SE18	Business Add-Ins: Definitions	357	3	
Secure Store and Forward	TCOD	STRUST	Trust Manager	353	2	
General Ledger Accounting	TCOD	FAGLB03	Display Balances	341	2	
Product Cost Planning	TCOD	CK13N	Display Material Cost Estimate	322	2	
Cost Center Accounting	TCOD	KEU5	Perform act. cost-ctr cost transfer	308	2	
Class Builder	TCOD	SE24	ABAP Class Builder	300	5	
Extended Warehouse Management	TCOD	/SCWM/SBST	Sort Storage Bins	298	2	
Transport Organizer	TCOD	SE03	Transport Organizer Tools	297	5	
Cost Center Accounting	TCOD	KEU2	Change Actual Transfer of CCtr Costs	294	2	
	TCOD	OBVCU	C FI Maintain View Cluster	292	3	
Warehouse Order Processing	TCOD	/SCWM/ISU	Stock Data Transfer	291	1	
ALE Integration Technology	TCOD	WE20	Partner Profiles	275	3	
Overhead Cost Orders	TCOD	KO8GH	Acct. Settlement: Int./Maint. Orders	272	2	
Bills of Material	TCOD	CS03	Display Material BOM	267	5	

ACCOUNT	COUNT
SHENZ7	401
WANGW46	263
CHIKKALAPK	75
CUIH3	73
KONGL7	43
GRANTD	34
SHOUZ	29
MM02	22
GOUBEAUXG	5

Tricentis

Test Coverage (hits & Gaps) Financial Accounting & Inventory Management

WORKSOFT

APP_AREA	TYPE	NAME	DESCRIPTION	TOTAL_USAGE	USERS	TESTS
Financial Accounting	TCOD	FB1S	Clear G/L Account	1050	2	
Financial Accounting	TCOD	FB03	Display Document	788	6	58
Financial Accounting	TCOD	FB01	Post Document	219	4	
Financial Accounting	TCOD	FBR2	Post Document	120	1	
Financial Accounting	TCOD	FF_5	Import Electronic Bank Statement	88	1	
Financial Accounting	TCOD	FB50	G/L Acct Pstg: Single Screen Trans.	70	1	
Financial Accounting	TCOD	FB02	Change Document	44	1	
Financial Accounting	TCOD	FB70	Enter Outgoing Invoices	43	1	
Financial Accounting	TCOD	FBZP	Maintain Pmnt Program Configuration	27	4	
Financial Accounting	TCOD	FB08	Reverse Document	26	3	
Financial Accounting	TCOD	FB60	Enter Incoming Invoices	26	2	
Financial Accounting	TCOD	F-02	Enter G/L Account Posting	24	1	
Financial Accounting	TCOD	FF_6	Display Electronic Bank Statement	24	1	
Financial Accounting	TCOD	F-47	Down Payment Request	15	1	
Financial Accounting	TCOD	F.13	Automatic Clearing without Currency	9	1	
Financial Accounting	TCOD	FBB1	Post Foreign Currency Valn	5	1	4
Financial Accounting	TCOD	FBD5	Realize Recurring Entry	5	1	
Financial Accounting	TCOD	F-48	Post Vendor Down Payment	3	1	
Financial Accounting	TCOD	FB05	Post with Clearing	3	1	
Financial Accounting	TCOD	FD10N	Customer Balance Display	3	1	
Financial Accounting	TCOD	FBA6	Vendor Down Payment Request	2	1	

WORKSOFT

APP_AREA	TYPE	NAME	DESCRIPTION	TOTAL_USAGE	USERS	TESTS
Inventory Management	TCOD	MIGO	Goods Movement	5480	7	884
Inventory Management	TCOD	MB52	List of Warehouse Stocks on Hand	717	10	32
Inventory Management	TCOD	MB51	Material Doc. List	77	4	30
Inventory Management	TCOD	MB5S	Display List of GR/IR Balances	18	1	
Inventory Management	TCOD	MI01	Create Physical Inventory Document	17	1	
Inventory Management	TCOD	MI07	Process List of Differences	17	1	
Inventory Management	TCOD	MI04	Enter Inventory Count with Document	14	1	
Inventory Management	TCOD	MI22	Display Phys. Inv. Docs. f. Material	10	1	
Inventory Management	TCOD	MI03	Display Physical Inventory Document	5	1	
Inventory Management	TCOD	MI08	Create List of Differences with Doc.	4	1	
Inventory Management	TCOD	MI02	Change Physical Inventory Document	3	1	
Inventory Management	TCOD	MB1A	Goods Withdrawal	1	1	107
Inventory Management	TCOD	MB03	Display Material Document	1	1	19

Tricentis

User Usage Audit

ACCOUNT	NAME_FIRST	NAME_LAST	USED_OBJECTS
CHIKKALAPK	Praveen	Chikkala	89
CUIH3	Allen	Cui	15
KOTHARIA2	ARPIT	KOTHARI	18
ZHANQ2	Elvis	Zhan	14
BATHINENA	Adinarayana	Bathineni	34
DODDAD2	Damodar	Dodda	6
FANL4	Terry	Fan	76
SEBASTIAA4	Anil	Sebastian	4
SHOUZ	Rocky (Zhansheng)	Shou	185
ZHENGY19	YAN (BRYAN)	ZHENG	54
BEALED	David	Beale	2
KADIYALAD	DHEERAJ	KADIYALA	44
KURNIAWAR2	RUDY	KURNIAWAN	84
PERKINSB3	BENJAMIN	PERKINS	17
PILLIH	HARI	PILLI	40
BAOZ	Zhijun (Phil)	Bao	2
GRANTD	DYLANIA	GRANT	25
KASHYAPS	Sumit	KASHYAP	30
KONGL7	LINGWEI (DANIEL)	KONG	178
LIUX4	Xiao (Lenny)	LIU	72
PALS2	SASHIKUMAR	PAL	45
REITERG	Gabi	REITER	4
SHENZ7	ZHENYU (ADAM)	SHEN	443
SUC3	Elvis	Su	39
WANGW46	WEI (ANDY)	WANG	56
XUFY	FuYing	Xu	60
YOUY	Ying	You	87
CHUHB	Mike	Chu	9
CUIY	Sai	Cui	1
GOUBEAUXG	Gabriel	Elisee Goubeaux	43
LUOH	Joicy	Luo	18

TYPE	NAME	ACCOUNT	COUNT
PROG	CL_SCCR_PARALLELIZATION_CTRL==CP	KADIYALAD	56
PROG	SAPLARFC	KADIYALAD	52
PROG	CL_QRFC_AIF_ADAPTER==========CP	KADIYALAD	51
PROG	SAPLERFC	KADIYALAD	51
TCOD	SNOTE	KADIYALAD	41
TCOD	SESSION_MANAGER	KADIYALAD	34
TCOD	SCCLN	KADIYALAD	33
TCOD	SCC3	KADIYALAD	30
TCOD	SM37	KADIYALAD	28
TCOD	SCC4	KADIYALAD	23
PROG	CL_STCTM_XML_UTILITIES========CP	KADIYALAD	22
TCOD	FILE_OLD	KADIYALAD	18
TCOD	SALE	KADIYALAD	14
TCOD	SE11	KADIYALAD	10
TCOD	SE37	KADIYALAD	8
PROG	SAPLSMTR_NAVIGATION	KADIYALAD	7
PROG	RNSERVER	KADIYALAD	6
PROG	RSBTCRTE	KADIYALAD	6
TCOD	SMGW	KADIYALAD	6
PROG	BTC_START_ICP_JOBS	KADIYALAD	4
TCOD	SM21	KADIYALAD	4
TCOD	SCCL	KADIYALAD	3
TCOD	ST22	KADIYALAD	3
TCOD	STRUST	KADIYALAD	3
PROG	R_SCWN_NA_NT_BRWSR	KADIYALAD	2
PROG	SAPLBTCH	KADIYALAD	2
PROG	SAPMSEM1	KADIYALAD	2
PROG	SAPMSVMA	KADIYALAD	2
PROG	SAPMSYST	KADIYALAD	2
PROG	STC_TM_PROCESSOR	KADIYALAD	2
TCOD	RZ11	KADIYALAD	2

SAP Test Coverage Insights

- 360-degree picture of overall test coverage

- Clear visibility into test coverage in every release

- Actionable intelligence for test creation planning & strategy

- Prioritize time, resources and money in appropriate areas

- Track test coverage trends and monitor progress

- Maximize ROI in test automation solution Investments

ABAP Code Quality Inspection

ABAP Code Quality Inspection

Passed less than 80% of rules checked

Passed 80-99% of rules checked

Passed 100% of rules checked

Quality Scorecard

HIGH
MEDIUM
LOW
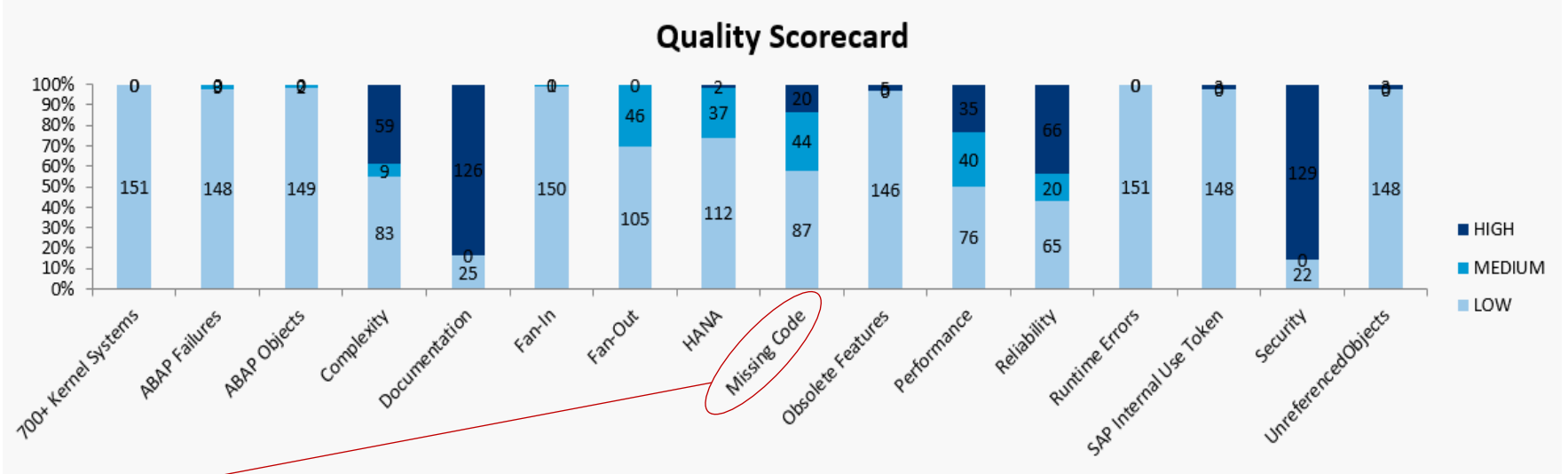
Missing Code Rule Checks

- Missing Code
  - Empty case
  - Empty Catch Blocks
  - Empty else
  - Empty elseif
  - Empty function/form/module check
  - Empty if
  - Empty include check
  - Empty program check
  - Empty select statement
  - Empty when
  - Missing WHEN OTHERS
  - Missing where restriction in select

Warning vs Error Summary

Warning   Error

2434

15584

Errors by Rule (Top 10)

Empty select statement
$HANA PP LOOP
Check Fan-Out
Empty when
Inefficient insert in loop
Inefficient select in loop
Empty if
Avoid unchecked return code READ TABLE
Obsolete ABAP variable declarations (LIKE)
Avoid unchecked return code

Tricentis
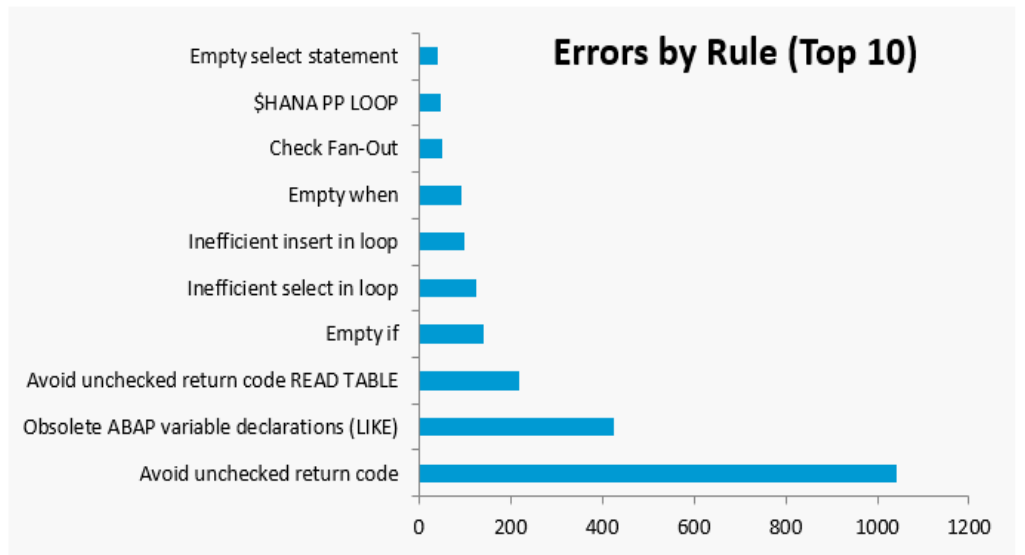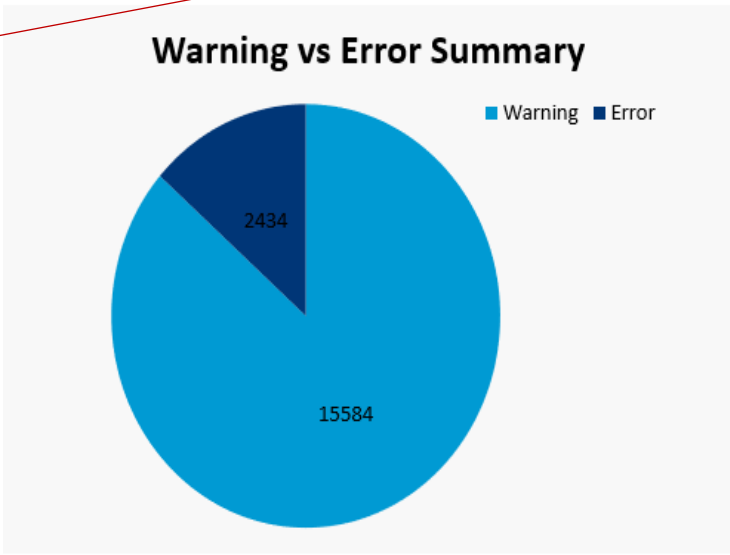
ABAP Code Quality - **Missing Code**

TYPE	NAME	CATEGORY	CLASS	RULE	DETECTIONS
PROG	/ZDMR/DM_CUSTOM_BUS_OBJECT	Missing Code	Error	Empty when	34
INCL	ZMM_I_PR_WF_TABLE_OPERATION	Missing Code	Error	Empty if	17
SFPI	ZPTP_PO_FORM_INTEFRACE	Missing Code	Error	Empty if	11
SFPI	ZUS00_MM_I_PO_FORM	Missing Code	Error	Empty if	11
SFPI	ZUSA_MM_I_PO_FORM	Missing Code	Error	Empty if	11
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	10
PROG	ZPTP_R_AGS_MES_DISP	Missing Code	Error	Empty when	10
PROG	ZOTC_R_MEND_REPORT	Missing Code	Error	Empty if	7
SFPI	ZPTP_I_PO_FORM_CPT	Missing Code	Error	Empty if	6
PROG	ZLES_F_PACKLIST	Missing Code	Error	Empty if	5
INCL	ZEWMI_HU_MASS_PACK_UNPACK_CLS	Missing Code	Error	Empty if	4
INCL	ZEWMI_HU_MASS_PACK_UNPACK_CLS	Missing Code	Error	Empty when	4
INCL	ZOTC_R_SHIPNG_PLAN_CLS	Missing Code	Error	Empty if	4
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty if	4
PROG	ZPTP_R_AGS_MES_DISP	Missing Code	Error	Empty if	4
PROG	ZRTR_I_BLACKLINE_UPLOAD	Missing Code	Error	Empty if	4
SFPI	ZPTP_PO_FORM_INTEFRACE	Missing Code	Error	Empty select statement	4
SFPI	ZUS00_MM_I_PO_FORM	Missing Code	Error	Empty select statement	4
SFPI	ZUSA_MM_I_PO_FORM	Missing Code	Error	Empty select statement	4
SFPI	ZUS_SD_IF_INVOICE	Missing Code	Error	Empty if	4
CLAS	ZCL_SCM_AGS_MES_DATA_HANDLER	Missing Code	Error	Empty select statement	3

Quality Scorecard

Warning vs Error Summary

Errors by Rule (Top 10)
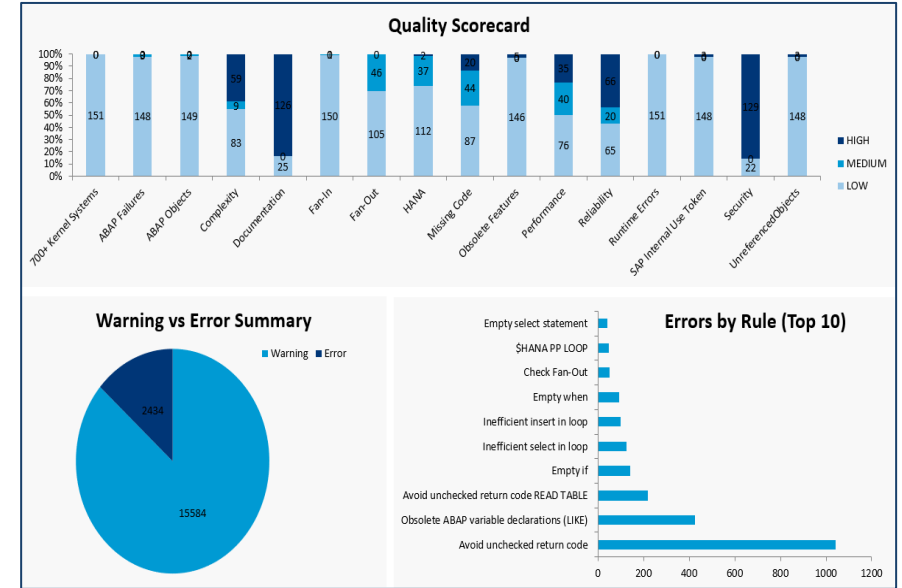
TYPE	NAME	CATEGORY	CLASS	RULE	TOKEN	LINE_NUMBER	SOURCE
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	1670	WHEN ICON_LED_GREEN
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	2392	WHEN 0
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	2417	WHEN 0
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	2442	WHEN 0
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	2467	WHEN 0
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	2627	WHEN OTHERS
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	2685	WHEN OTHERS
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	2738	WHEN OTHERS
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	2789	WHEN OTHERS
PROG	ZPTP_R_AGS_MES	Missing Code	Error	Empty when	[WHEN]	4742	WHEN OTHERS

Tricentis

ABAP Code Quality - **Performance**

TYPE	NAME	CATEGORY	CLASS	RULE	DETECTIONS
PROG	ZOTC_R_MEND_REPORT	Performance	Error	Inefficient select in loop	30
PROG	ZMB_SIT_NON_VAL_N_2014887	Performance	Error	Inefficient select in loop	21
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	20
CLAS	ZCL_SCM_AGS_MES_DATA_HANDLER	Performance	Error	Inefficient select in loop	8
PROG	ZMB_SIT_NON_VAL_N_2014887	Performance	Error	Inefficient insert in loop	6
PROG	/ZDMR/CUSTOM_TABLE_LOAD	Performance	Error	Inefficient insert in loop	2
PROG	ZUS00SDR_ORDER_CONFIRMATION	Performance	Error	Inefficient select in loop	2
INCL	ZEWM_MASS_HU_MOVEMENT_C01	Performance	Error	Inefficient select in loop	1
INCL	ZOTC_R_SHIPNG_PLAN_CLS	Performance	Error	Inefficient select in loop	1
PROG	/ZDMR/UNZIP_FILES	Performance	Error	Inefficient insert in loop	1
PROG	ZOTC_R_CPT_INV	Performance	Error	Inefficient select in loop	1
PROG	ZOTC_R_PACKINGSLIGT	Performance	Error	Inefficient select in loop	1
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient insert in loop	1
PROG	ZRTR_I_REUTERS	Performance	Error	Inefficient select in loop	1
PROG	ZSD_F_INVOICE_PRINT	Performance	Error	Inefficient select in loop	1
PROG	Z_T156Q_MISSING	Performance	Error	Inefficient append in select	1
SFPI	ZPTP_I_PO_FORM_CPT	Performance	Error	Inefficient select in loop	1
SFPI	ZUS_SD_IF_INVOICE	Performance	Error	Inefficient select in loop	1
SFPI	ZUS_SD_IF_PROFORMA	Performance	Error	Inefficient select in loop	1

Quality Scorecard

Warning vs Error Summary

Errors by Rule (Top 10)
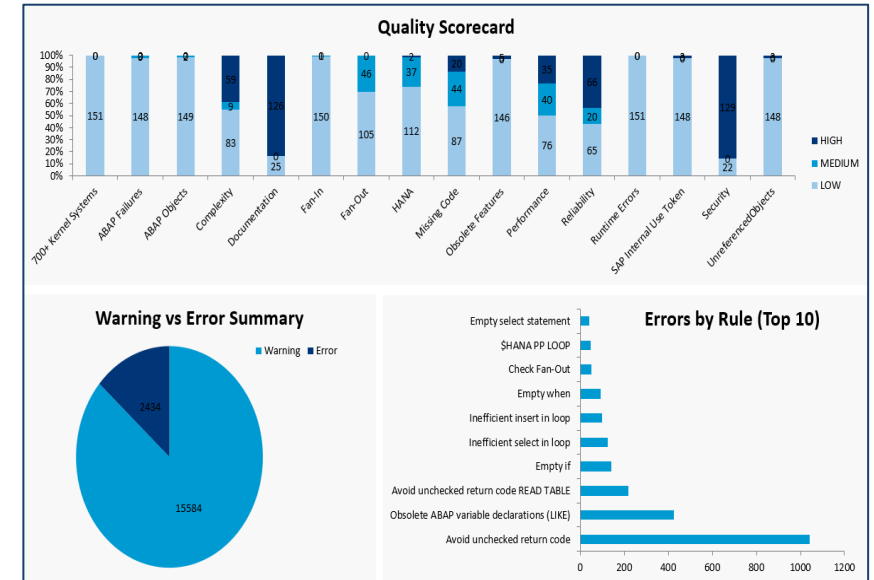
TYPE	NAME	CATEGORY	CLASS	RULE	TOKEN	LINE_NUMBER	SOURCE
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient insert in loop	INSERT	1154	INSERT TB_E1BPACTX09 INDEX V_COUNTER
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	722	SELECT PRCTR FROM CSKS UP TO 1 ROWS INTO V_PRCTR WHERE KOSTL = TB_E1BPACGL09-COSTCENTER ORDER BY PRIM
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	748	SELECT SINGLE VBUND INTO V_TRADE FROM KNA1 WHERE KUNNR = TB_E1BPACAR09-CUSTOMER
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	761	SELECT SINGLE VBUND INTO V_TRADE FROM LFA1 WHERE LIFNR = TB_E1BPACAP09-VENDOR_NO
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	820	SELECT SINGLE KTOPL INTO V_KTOPL FROM T001 WHERE BUKRS = TB_E1BPACHE09-COMP_CODE
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	823	SELECT SINGLE KTOGR INTO V_KTOGR FROM ANLA WHERE BUKRS = TB_E1BPACHE09-COMP_CODE AND ANLN1 = TB_E1
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	828	SELECT KTANSW INTO V_KTANSW FROM T095 UP TO 1 ROWS WHERE KTOPL = V_KTOPL AND KTOGR = V_KTOGR ORDER
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	881	SELECT * FROM TVARVC INTO CORRESPONDING FIELDS OF TABLE TB_VARV1 WHERE NAME = 'Z_EXI950_COMP'
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	895	SELECT SINGLE VBUND INTO V_TRADE FROM KNA1 WHERE KUNNR = TB_E1BPACAR09-CUSTOMER
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	908	SELECT SINGLE VBUND INTO V_TRADE FROM LFA1 WHERE LIFNR = TB_E1BPACAP09-VENDOR_NO
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	936	SELECT SINGLE ZTERM INTO V_ZTERM FROM KNB1 WHERE KUNNR = TB_E1BPACAR09-CUSTOMER AND BUKRS = TB_E1B
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	985	SELECT SINGLE ZTERM INTO V_ZTERM FROM LFB1 WHERE LIFNR = TB_E1BPACAP09-VENDOR_NO AND BUKRS = TB_E1BP
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	1070	SELECT SINGLE LAND1 INTO V_LAND FROM T001 WHERE BUKRS = TB_E1BPACHE09-COMP_CODE
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	1085	SELECT SINGLE KALSM INTO V_KALSM FROM T005 WHERE LAND1 = V_LAND
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	1089	SELECT KVSL1 INTO V_KVSL1 FROM T683S UP TO 1 ROWS WHERE KALSM = V_KALSM AND KSCHL = TB_FTAXP-KSCHL OR
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	1098	SELECT KONTS INTO V_KONTS FROM T030K UP TO 1 ROWS WHERE KTOPL = 'GLOB' AND KTOSL = V_KVSL1 AND MWSKZ
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	1108	SELECT * FROM T007B INTO CORRESPONDING FIELDS OF TABLE TB_T007B WHERE KTOSL = V_KVSL1
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	1687	SELECT SINGLE * FROM PARAMVALUE WHERE FILEPARAM EQ K_WORK
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	1705	SELECT SINGLE FUNCNAME FROM TFDIR INTO TFDIR WHERE FUNCNAME EQ EXITFUNCTION
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	1723	SELECT SINGLE FUNCNAME FROM TFDIR INTO TFDIR WHERE FUNCNAME EQ Y_EXITFUNCTION
PROG	ZRTR_I_BLACKLINE_UPLOAD	Performance	Error	Inefficient select in loop	SELECT	1741	SELECT SINGLE FUNCNAME FROM TFDIR INTO TFDIR WHERE FUNCNAME EQ Z_EXITFUNCTION

ABAP Code Quality Inspection

- Shift left on quality

- Pinpoint coding issues early on SDLC

- Instant feedback for developers

- Data driven insights for commit approvals

- Governance over partner led development work

- Improved SAP application health

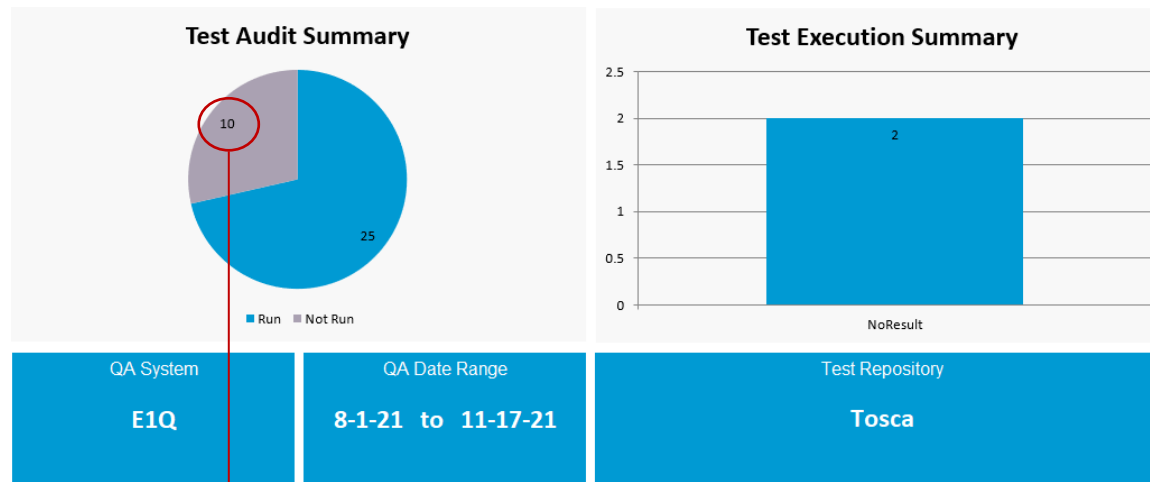- Less production defects

Test Inspection

Test Audit
Test Inspection Quality Gate

Analyzes daily transactional usage data from QA (within a specified time period) to ensure most-at-risk transactions are not deployed to production untested!

Test Audit Summary

10

25

■ Run ■ Not Run

Test Execution Summary

2

NoResult

QA System	QA Date Range	Test Repository
E1Q	8-1-21 to 11-17-21	Tosca

APP_AREA	TOKEN	DESCRIPTION	QA_STATUS	QA_COUNT	PRD_COUNT	PRD_USERS	PRD_TOP_USER	PRD_TOP_USAGE	CUSTOM	BUSINESS_CRITICAL	DEVCLASS
Materials Management	MRKO	Settle Consignment/Pipeline Liabs.	Not Run		64	1	FF_P2PSUPER1	64			MR
Financial Accounting	F-03	Clear G/L Account	Not Run		447	1	UBRRC	447			FIBP
Logistics Execution	VL33N	Display Inbound Delivery	Not Run		18241	42	KJRG5	7119			VL
	/PAYMETRC/BMAPP	Transaction Approval and Reconcilation	Not Run		16	14	HAX33	2			/PAYMETRC/XIBUY
	/PAYMETRC/BMAPP	Transaction Approvals - Manual	Not Run		2861	126	EWBTW	301			/PAYMETRC/XIBUY
Financial Accounting	FB1S	Clear G/L Account	Not Run		47832	1	CPSCOMM	47832			FIGL
Personnel Time Management	PA51	Display Time Data	Not Run		1	1	T1RDJ	1			PTIM
Financial Accounting	PRMS	Display HR Master Data	Not Run		9234	18	L61K0	2090			PTRA_ADDON
	ZPPY_PAYMENT	Mass Load for Payments & Deductions	Not Run		416	6	T1RDJ	157	Yes		ZHCM_ENH
Logistics Execution	VL01NO	Create Outbound Dlv. w/o Order Ref.	Not Run		2	2	MBIPI	1			VL
	ZPPYI_ACA_CORE_PAYR	Tcode for payroll details	Run	30	6	1	MIJQL	6	Yes		ZHCM_INT
Financial Accounting	F-44	Clear Vendor	Run	14	3552	3	O6EUU	2159			FIBP
Financial Accounting	FB08	Reverse Document	Run	84	2308	13	R237F	1093			FIDC
Financial Accounting	FB1D	Clear Customer	Run	3	1296	10	NAM4M	416			FIBP
Financial Accounting	FBD1	Enter Recurring Entry	Run	817	1017	18	N1CKE	366			FIDC
Financial Accounting	FBD5	Realize Recurring Entry	Run	84	1070	5	WF-BATCH	687			FIDC
Materials Management	ME31K	Create Contract	Run	51	1910	21	R3P2E	519			ME
Sales and Distribution	VA01	Create Sales Order	Run	2695	18582	21	TWSIX	4543			VA
Financial Accounting	FB01	Post Document	Run	341	34281	8	CPSCOMM	33383			FIDC
Financial Accounting	FB05	Post with Clearing	Run	55	50619	9	NAM4M	22208			FIBP
Financial Accounting	FBVB	Post Parked Document	Run	121	163931	28	TXJBS	60764			FIBP
Financial Accounting	FV50	Park G/L Account Items	Run	685	63032	95	QZTRQ	6171			FBAS
Financial Accounting	FV60	Park Incoming Invoices	Run	226	733066	740	HJK1L	28332			FFE
Financial Accounting	FV63	Displayed Parked Vendor Document	Run	26	47204	374	PRAP01	7195			FFE
Materials Management	ME32K	Change Contract	Run	21	69022	38	LRLMH	8055			ME
Materials Management	ME33K	Display Contract	Run	35	63214	198	MAWTV	8207			ME
Personnel Management	PA20	Display HR Master Data	Run	319	237891	142	BCF82	22031			PBAS
Personnel Management	PA30	Maintain HR Master Data	Run	1156	121992	53	W1F1W	18799			PBAS
Sales and Distribution	VA02	Change Sales Order	Run	704	116042	23	NIIF1	22359			VA
Sales and Distribution	VA03	Display Sales Order	Run	1079	24905	58	Q5YAQ	3506			VA
Logistics Execution	VL01N	Create Outbound Dlv. with Order Ref.	Run	199	1490	8	T8ICC	1017			VL
Logistics Execution	VL02N	Change Outbound Delivery	Run	191	37830	28	NBY61	28498			VL

Business Value

Tricentis

Forrester Total Economic Impact
SAP Application Testing Solutions

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.

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

Increased Release Cycles 8X

BOSE

THE SITUATION

- Top-down initiative to transform software delivery process to Agile DevOps

THE NEED

- Needed a more efficient process for applying changes to meet the demands of business requirements

WHY TRICENTIS

❑ Complete solution that was easily embedded into existing change process and tools

  - Smart impact analysis
  - Integrated with Solution Manager's ChaRM
  - Integrated with Test Automation suite

❑ Provided additional Capabilities

  - Code quality analysis
  - Master Data Governance - Exception Reporting
  - Ongoing transactional usage analysis

RESULTS

  - Within 12 months - Increased from 11 releases a year to 44
  - Within 18 months – Increased from 44 releases a year to 88

Snapshot

Number of releases using LiveCompare	**+350%**
Custom testing (reduction)	**99%**
Defects eliminated	**200+**

✕ Tricentis

LiveCompare Summary

| AI-Powered SAP Insights	Use Cases	Strategic Business Benefits	Product Value	Transport Management Integrations	Test Repository Integrations	Time to Value
SAP Change Impact Analysis	Internal Change Releases (Major/Minor)	Accelerate & De-risk SAP Transformational Projects	Test Smarter & Faster	STMS	Tricentis Tosca	Certified ABAP add-on that lives inside SAP
SAP Test Coverage & Gap Insights	S/4 Upgrades	Modernize SAP Change & Release Process	Speed Testing Cycles	ChaRM (SAP Solution Manager)	Tricentis qTest	Few hours to implement
ABAP Code Quality Insights	Support Pack & Feature Pack Updates	Orchestrate DevOps for SAP	Increase release frequency	Rev-Trac	ALM	Delivers immediate results
SAP System& Landscape Synchronization Insights	ECC to S/4 Transformations	Reduce cost of SAP Ownership	Perform Upgrades Consistently	Active Control (Basis Technologies)	Worksoft Certify	Easy to maintain
SAP Custom Code Insights	Project Roll-outs		Deliver Superior Quality		Azure DevOps	
N+1 Transport Merge Conflict Analysis	RISE Conversions		Debug Production Issues faster		SAP Solution Manager	
SAP Root-Cause Analysis					MS Excel	
Data Quality, Governance & Validation Insights						
Production Usage Insights						

What to test? How to de-risk?

Cover **more** risk with **less** effort

Tricentis LiveCompare

Tricentis capabilities

- Risk AI – identifies most at-risk objects
- Risk-based test optimization (Hits & Gaps)
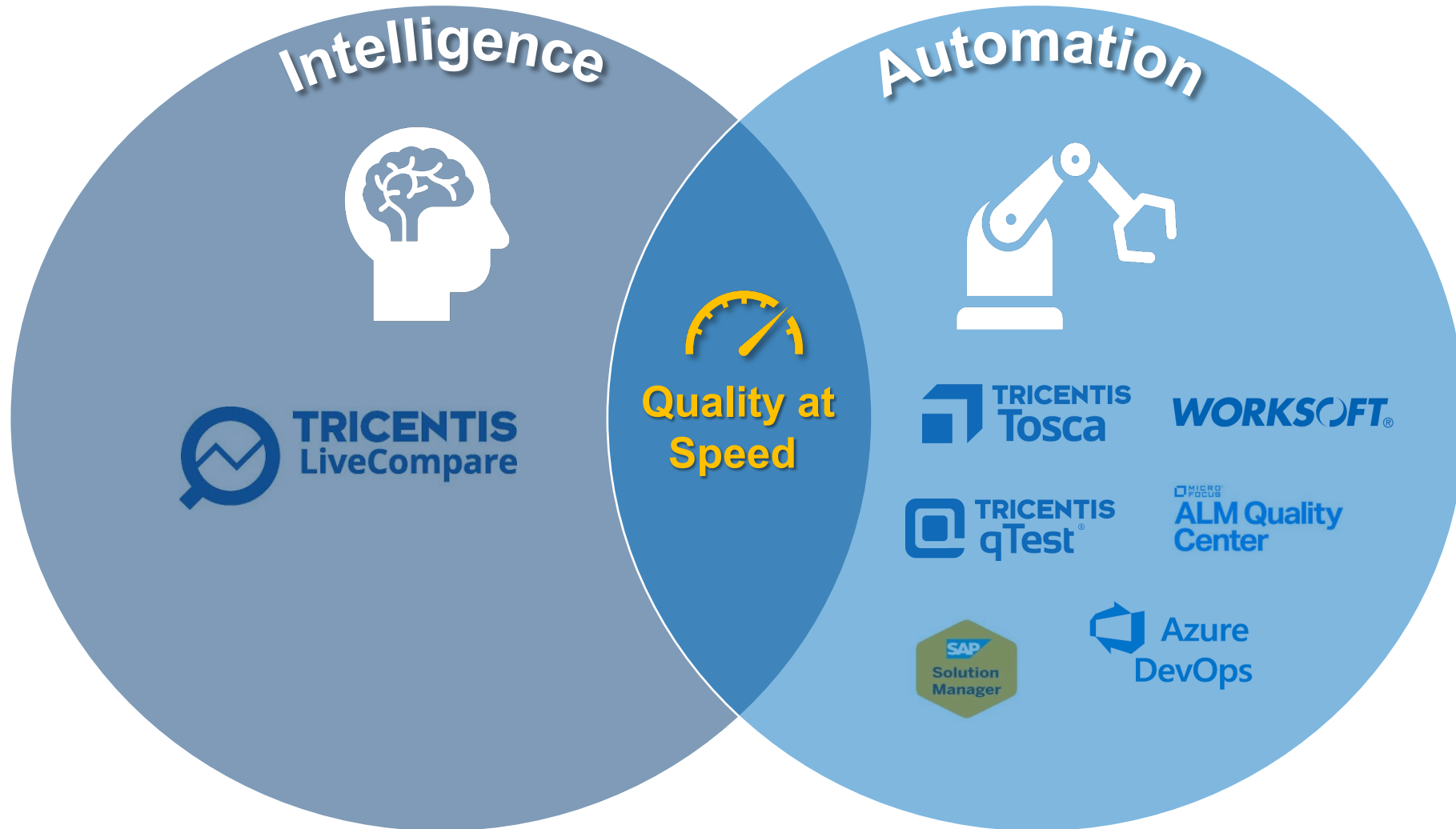- 85% test scope reduction
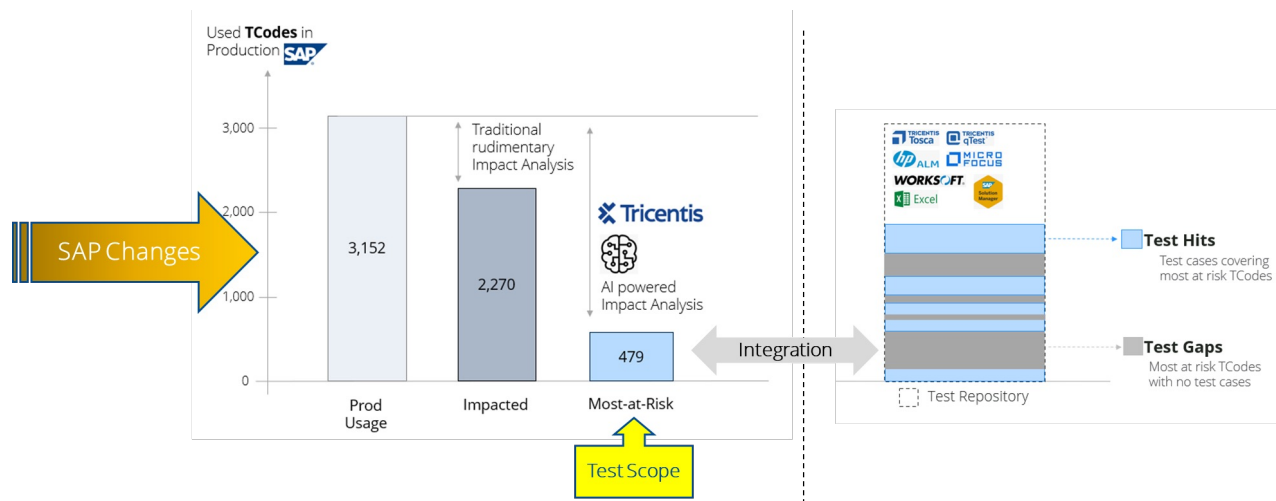
Traditional testing

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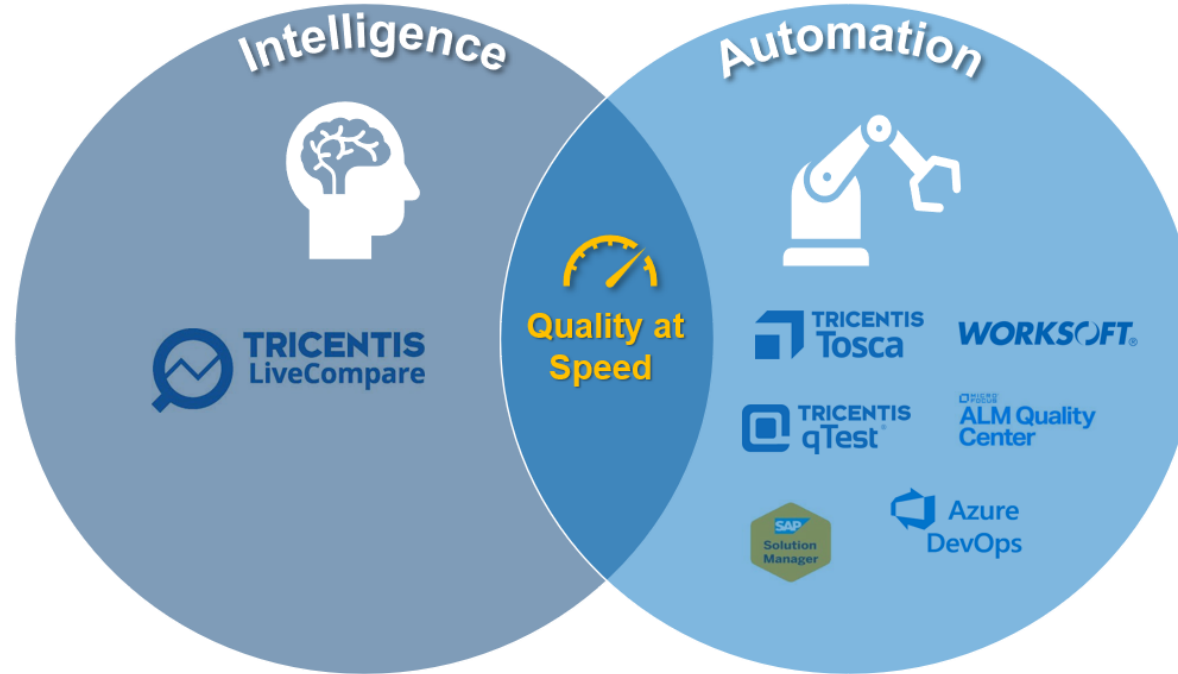- Let's defects slip into production

Tricentis customers

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

Intelligent Automation

Intelligence

TRICENTIS LiveCompare

Quality at Speed

Automation

TRICENTIS Tosca

WORKSOFT®

TRICENTIS qTest®

MICRO FOCUS ALM Quality Center

SAP Solution Manager

Azure DevOps

Tricentis

Intelligent Automation

Intelligence

Automation

Quality at Speed

TRICENTIS LiveCompare

TRICENTIS Tosca
WORKSOFT
TRICENTIS qTest
ALM Quality Center
SAP Solution Manager
Azure DevOps

Smart Impact Analysis

LiveCompare Pinpoints what in SAP needs to be tested

Intelligent Test Selection

LiveCompare Intelligently selects the tests in the test repository that should be executed.

Auto Test Execution

LiveCompare loads tests into Tosca's test execution folder & **auto executes** the tests in Tosca

Auto Identify Sick Test Cases

LiveCompare auto identifies broken tests due to screen discrepancies for faster, easier test maintenance

Tricentis