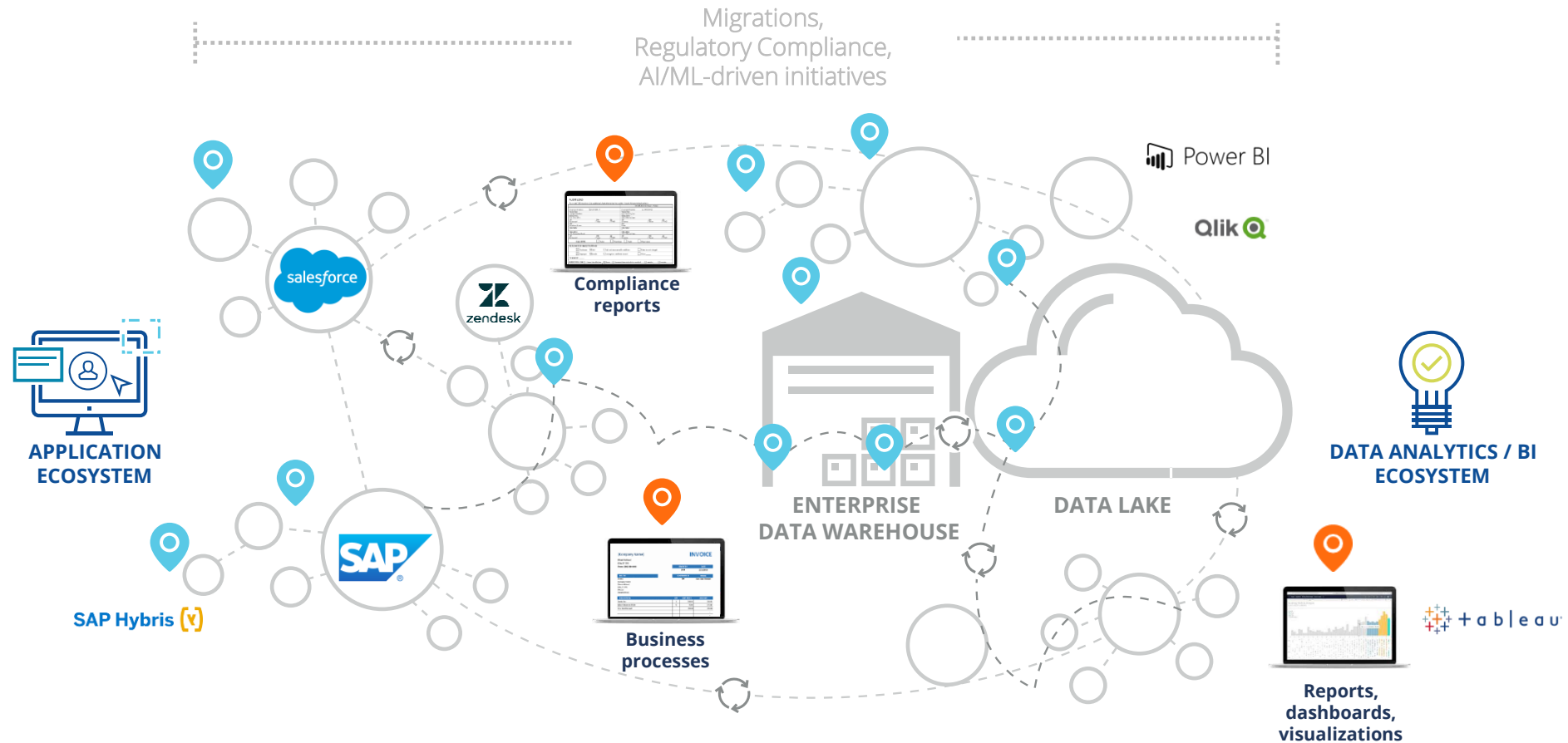


Tricentis Data Integrity

Trust your Data

Your data is always on the move through increasingly complex landscapes



...to many different destinations

Critical Business Decisions Rely on Data

But there's always the potential for risk



Migrate, Merge, Consolidate

Complex projects introduce risk as the data touches heterogeneous landscapes



Compliance

Lack of regulatory compliance leads to the potential for huge fines

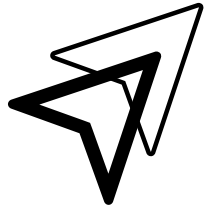


AI/ML

Data drives AI, and without trustworthy data your AI cannot be trusted

And risk is introduced with every movement or change

But your current solutions don't mitigate risk

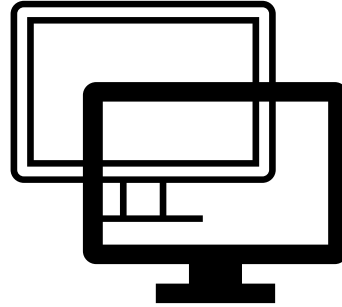


Point Solutions

- Siloed
- Lack of Coverage
- Tool Fatigue
- *Not end-to-end*



Bad Data



Manual

- Expensive
- Time-consuming
- Human Error Prone
- *Not automated*



Bad Data

Bad Data is Costly

Bad Data costs US companies \$12.5M per company a year

Data migration



Poor testing during data migrations is a leading cause of transformation failures

Compliance



Lack of visibility can result in costly fines

AI / ML



AI/ML projects without a data strategy introduces bias

How are you going to combat Bad Data?

**You need a data integrity tool that is automated,
end-to-end, and integrated across your entire
ecosystem**

What we provide

Deliver higher quality faster with the Tricentis Quality Engineering Platform



Product Roadmap

Single SaaS Solution for all Tricentis Core Quality Engineering Capabilities

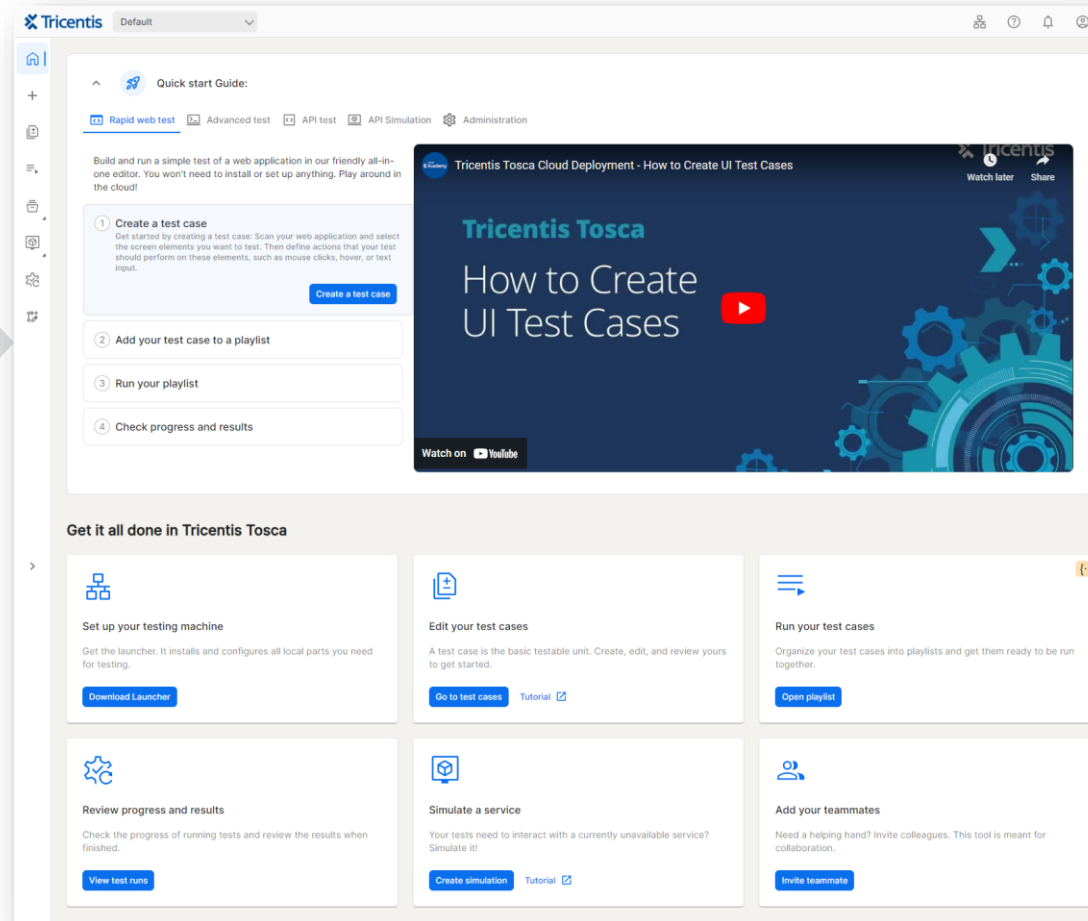
Test Automation
(Tosca Cloud, Mobile)

Data Testing
(Data Integrity, TDM)

Test Management
(qTest, Vera)

Impact Analysis
(LiveCompare)

Performance Testing
(NeoLoad)



- Integrate the Tricentis portfolio with shared services and universal user experience
- Leverage AI to solve customer problems and improve usability
- Cloud, on-prem, & hybrid support

SAP Integration

Data Change Impact Analysis

Normal Change: 8000002268, PAB 3

Actions: LiveCompare CharM Impact Analysis (Manual), Set to "In Development", Withdraw Normal Change, Create Project Management Task

Tricentis Data Integrity Analysis

General Data

ID:	8000002268
Description:	PAB 3
Developer:	TGIRQUARD
Tester:	TGIRQUARD
IT Operator:	
Change Manager:	TGIRQUARD

Implementation Data

Change Cycle / P...	Time's Request 1	Build
Type / ID:	Phas	8000001746
Landscape / Bran...	SolutionManage	Develop
Development Close:		00:00
Go-Live Date:		00:00

Project Planning

Request/Task DEVK900323 Customizing Task

Properties Objects Documentation

Key for object R3TR VDAT V TVAK (Maintain Sales Order Types)

Language: -- IMG Activity: SIMG_CFMENUOLSDVOV8

View name Table Name Table Keys

Tricentis Tosca

Quick start Guide:

- 1. Create a test case
- 2. Add your test case to a plan
- 3. Run the test case
- 4. Create a test suite

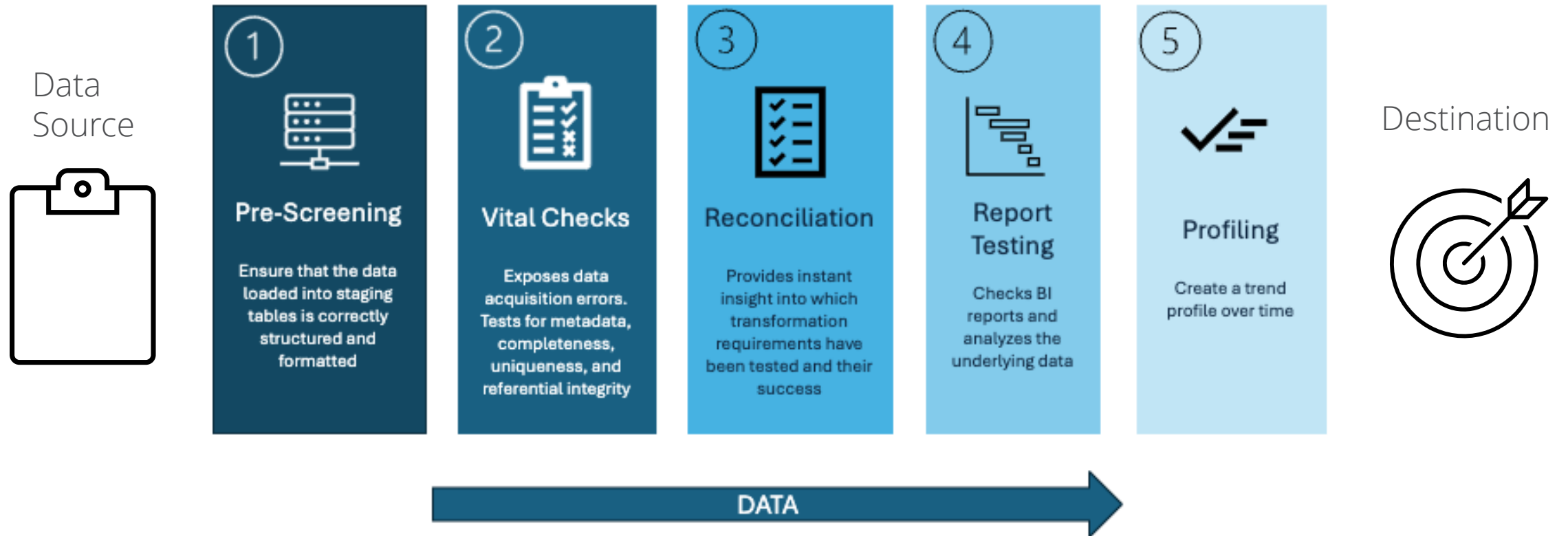
Functional Scenarios

Data Quality Scenarios

Run related data tests:

- Pre-screening
- End-to-end
- AI/ML
- Row-by-row

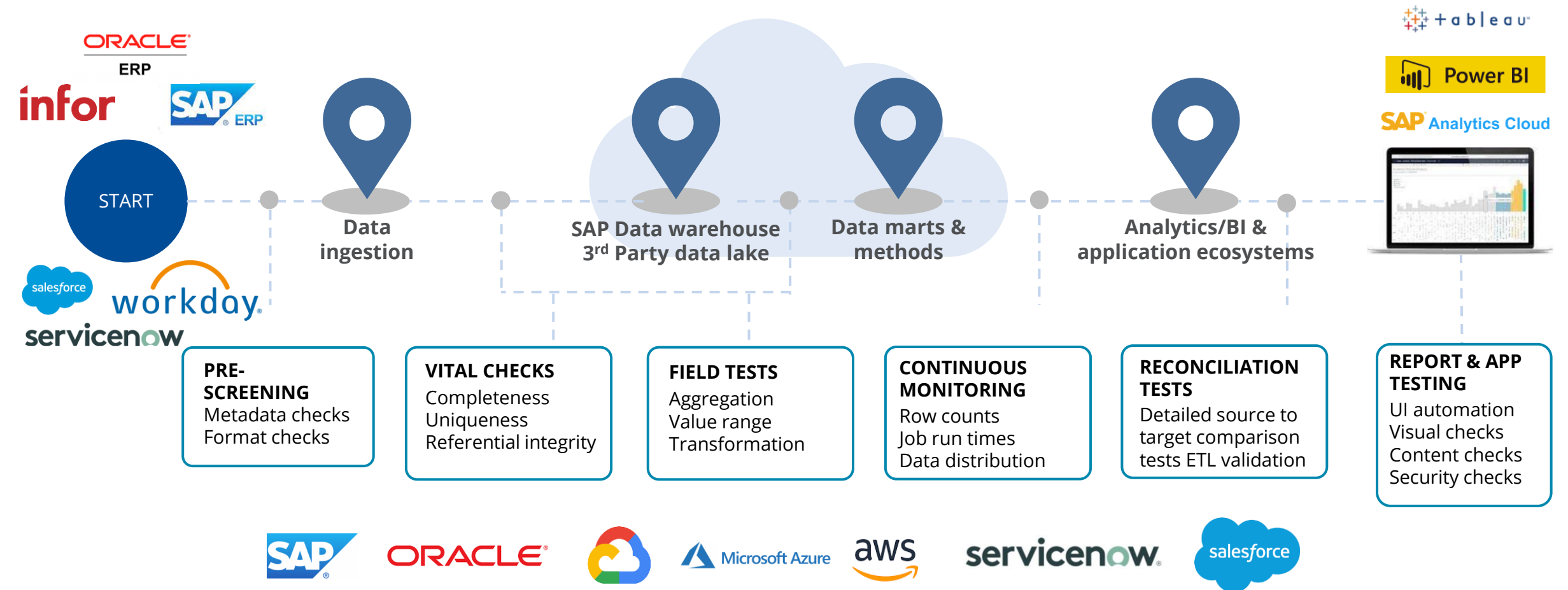
Tricentis Data Integrity eliminates risk as it appears in your data testing cycle



Deliver trustworthy data through a Complex Process

Tricentis Data Integrity

Automated, end-to-end, and integrated into your ecosystem



Deliver trustworthy data through a Complex Process

Integrate with the tools you already use

Orchestration Engines



ORACLE[®]
ERP

infor

SAP[®] ERP

Source
Extract

salesforce

workday

servicenow



Raw Data



Staging



Silver / Hub



Gold / Marts



SAP[®] Analytics Cloud



PRE-SCREENING

Metadata
Format
Nullness
Range

VITAL CHECKS

Completeness
Uniqueness
Referential
integrity

FIELD TESTS

Aggregation
Value range
Transformation

CONTINUOUS MONITORING

Row counts
Job run times
Data distribution

RECONCILIATION TESTS

Detailed source to
target comparison
tests & ETL validation

REPORT & APP TESTING

UI automation
Visual checks
Content checks
Security checks

Business Value



Migrate, Merge, Consolidate



Compliance



AI/ML

Business Value



Mergers and Acquisitions require solid reconciliation/validation strategies



- Risk: Without properly migrated customer data, marketing of acquiring bank's services would not be correct or compliant
- **Data Integrity** ensures consistency, trust, and validation throughout the project lifecycle
- **ROI: \$10's million in projected sales to properly migrated customers**

Data Migrations during and AFTER new cloud environments



- Risk: Production errors in the Snowflake environment (new Netezza data conflicts with migrated data)
- On-prem to Snowflake supported by **Data Integrity/Reconciliation Tests**
- **ROI: Netezza to Snowflake migration saved \$1M**

Data Reconciliation/Validations for Accurate business decisions



- Risk: Data chaos wreaking havoc on analytics supporting Payroll, Payments, ERP, Logistics, etc...
- **Data Integrity/Reconciliation** in the Cloud
- *Action item: check out our DataBricks/Azure 10-minute Demo Video*
- **ROI? More like Return to trust! Addressing:**
 - *\$24 million lost in Oil trading decisions due to data chaos (off by 1,000th of a percent)*
 - *\$10's millions spent on data warehousing and analytics NOT BEING USE*



SAP Change Events – Data Driven

Mergers & Acquisitions

Table key: BUKRS

"AR01"

Table key: BUKRS

"ARG1"

Merge



SAP Change Events – Data Driven

Mergers & Acquisitions

Transparent Tables with Selected Key	Remaining Tables after Filter I	Remaining Tables after Filter II	Relevant Tables	Final Table Set
3179	3177	218	19	18
BUKRS	Remove Unsupported Table Types	Remove Large Tables	Tables with Entries	Tables with Data Discrepancies

LiveCompare Report - T001
Created by: tim on: 2023-06-08 05:24:02
Compared table contents (2 of 2)

Status	System	MANDT	BUKRS	BUTXT	ORT01	LAND1	WAERS	SPRAS	KTOPL	WAABW	PERIV	KOKFI	RCOMP	STCEG	FIKRS
	SAP43_SNC_PJ	001	AR01	Country Template AR	Argentinien AR	ARS	S	INT		00	Maximum exchange rate deviation in percent				
	SAP43_SNC_PJ		ARG1							10					

WorldPay – 90% Savings with BI/DWH Test Automation



SITUATION

- Millions of dollars invested in applications designed to help business leaders understand and leverage data
- Reporting errors lead to low to zero adoption
- QA leaders were challenged of “fixing this problem” by transforming the end-to-end data testing process

THE NEED

- Automation for end-to-end data testing
- Support for Complex technology stacks—from 40-year-old mainframes to cloud
- Handle massive amounts of data from many different sources and many transformations between source and report

WHY TRICENTIS

- Reusable, scalable tests without wrestling with scripting
- Thousands of hours of manual effort saved per month
- Improved user adoption and productivity because of improved data quality

worldpay
from FIS

Business Case Summary

Using Tricentis in the BI/DWH



Time to Market Increase

90%+ Increase



Cost of Testing

90% Reduction

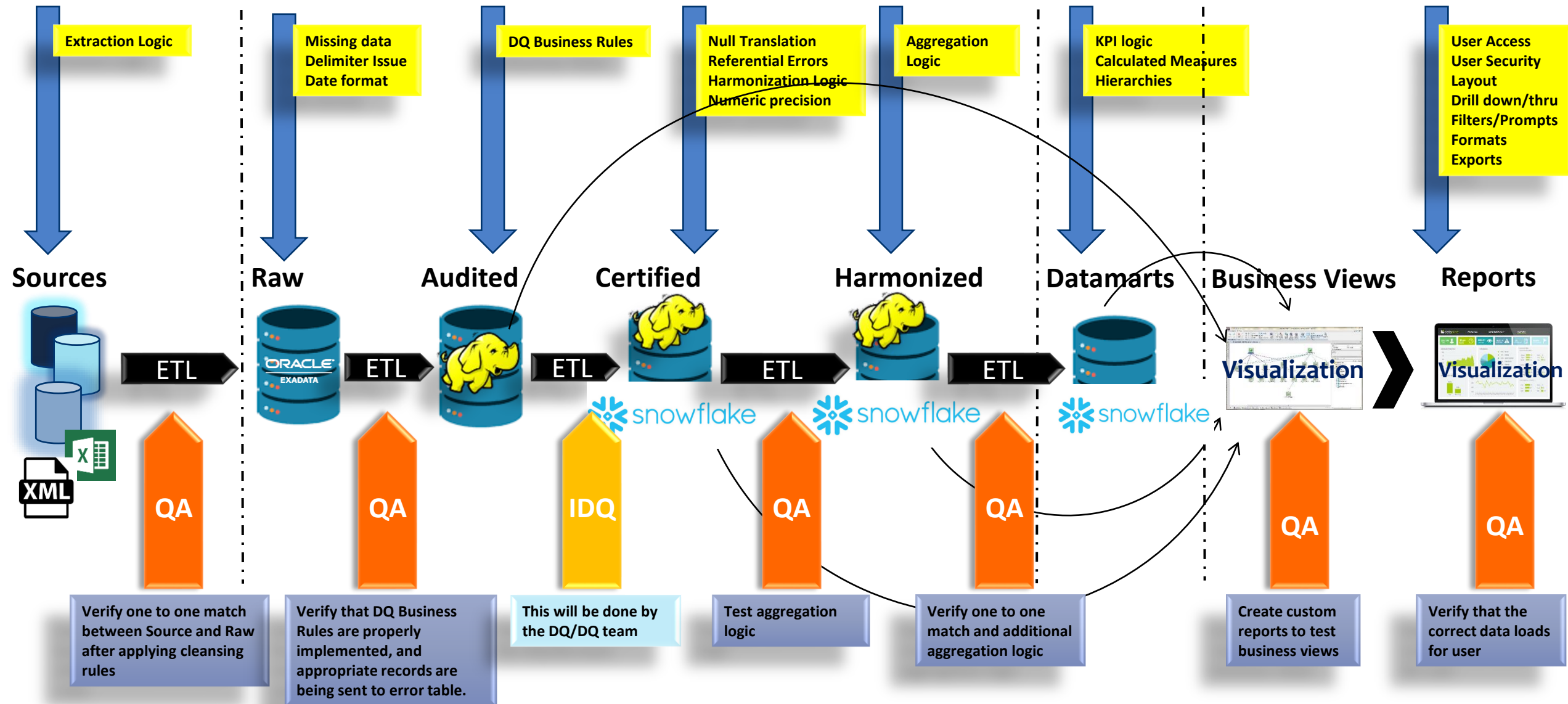


Records Compared in
20 min

200 Million

Data Testing Approach

worldpay
from FIS





Worldpay customer quote

//

A few months after our new BI / data warehouse testing approach launched, people finally started **trusting** the applications.

They're highly used now, and they have become a vital tool in making critical business decisions.



- Head of Enterprise Quality Assurance Team, Worldpay

TJX reduces Snowflake migration timeline & costs by 50%

And eliminates data testing headaches with Tricentis Data Integrity



SITUATION

- Netezza to Snowflake required verification for each migration stage (sources to target)
- Scripted automation produced errors, requiring stop and restarts and delaying the 1-year project plan
- Data leaders required to implement a rigorous, repeatable regression process as data moved

NEED

- More resilient, faster test automation for end-to-end data testing
- Support for complex technology stack
- Ability to handle massive amounts of data, including 5 years of sales data from many different sources, requiring many transformations from source to report

RESULT

- Reusable, scalable tests without scripting
- Thousands of hours of manual effort and test maintenance saved
- Improved user adoption and productivity because of improved data quality

50%

Time to market increase

50%

Reduction in testing costs

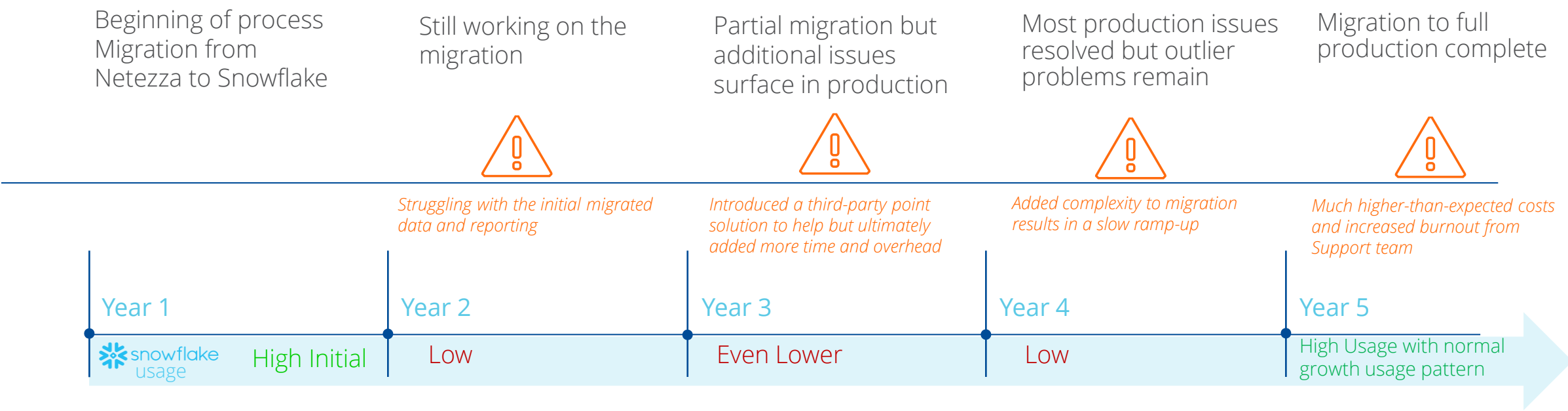
38#

Minute runtime for
entire regression suite

Snowflake Migration Timeline (Manual Testing)



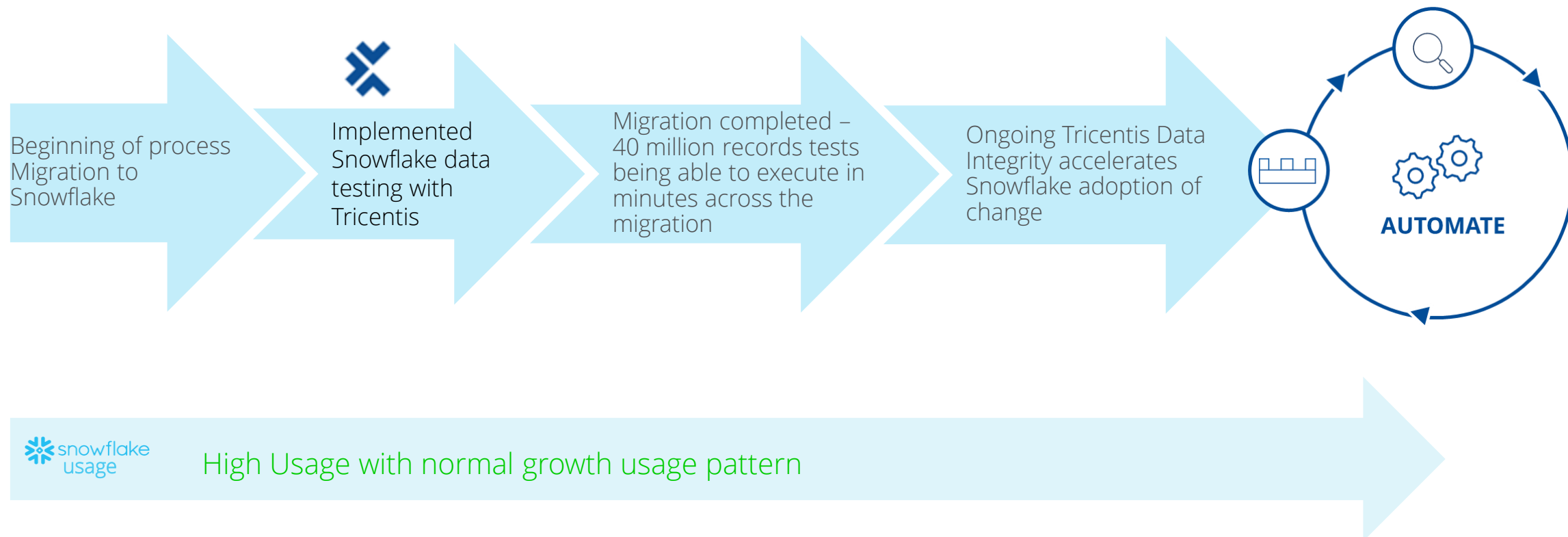
Don't wait 3+ years for a complete migration to Snowflake



Snowflake Migration Timeline (Data Integrity)



Migrate to Snowflake in 180 days!





TD Bank Streamlines E2E Regulatory Compliance

SITUATION

- Banks conducting business in the United States are required to identify, monitor, and report “suspicious activity” in a timely manner
- Existing procedures could not handle the scope needed for compliance

THE NEED

- Complex validations across different data sources
 - Focus: Automation
- Increased coverage to automate 70k suspicious transactions scenarios
 - Focus: Accuracy

WHY TRICENTIS

- Improved scenario coverage to all identified use cases
- Automated validation to decrease manual overhead
- Increased identification of suspicious transactions across technical landscape and business verticals

Business Case Summary

Tricentis in the BI/DWH



Critical Checks
Execution

70k validations in 15 min.



Potential Fines Avoided
in 90 Days

\$2,600,000



Identified Suspicious
Transactions

1600% Increase

“We knew that automation was key for proactively ramping up our compliance ... we just didn’t believe it was possible to automate something so complex. Now, we’re much more confident that threats are being identified and reported almost as soon as the transactions occur.”

- Director of Compliance



Field Tests: Single Database Wizard



Source Database

Select Field Tests

Additional Options



Choose input source

☒ Use ODBC Connection

Connection: AW2014

Manage connections...

Connect

☐ Upload DDL File

DB Type: Oracle

Filename: Choose file...

Tables (19/71)

Parser Messages (0)

Schema	Table Name	# Fields
Sales	CountryRegionCurrency	3
Sales	CreditCard	6
Sales	Currency	3
Sales	CurrencyRate	7
Sales	Customer	7
Sales	PersonCreditCard	3
Sales	SalesOrderDetail	11
Sales	SalesOrderHeader	26
Sales	SalesOrderHeaderSalesReason	2

Table Filters

Schema	Tables	Filter Type	Delete filter
Sales	*	Include	

Select Database
and apply
schema & table filters



Schema *

Tables

Filter type ☒ Include

☐ Exclude

☐ File

Choose file...

Add filter

Cancel

Back

Next



Field Tests: Single Database Wizard



Source Database



Select Field Tests

Additional Options

Apply data templates
across 100s of tables &
columns in a few mouse
clicks.

Column Chooser Search Panel

Field	Type	Nullness	Uniqueness	Check that row count > 0	Date Valid	Value between 0 and 100	Value between {CP[Param1]} and {CP[Param2]}	Date is not in Future	Date greater than {CP[Param1]}	Sensor is Active	Sample: Valid CountryRegion... from hard coded list	Sample: Valid Currency Code dynamically sourced	Sample: Valid ProductID format	Sample: ProductID exists in master product table	SAP: Sales Order Header Currency vs Line Currency
SalesOrderDetail															
SalesOrderHeader															
SalesOrderID	int(10,0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RevisionNumber	tinyint(3,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OrderDate	datetime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DueDate	datetime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ShipDate	datetime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Status	tinyint(3,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OnlineOrderFlag	bit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SalesOrderNumber	nvarchar(25)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PurchaseOrderNumber	nvarchar(25)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AccountNumber	nvarchar(15)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CustomerID	int(10,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SalesPersonID	int(10,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TerritoryID	int(10,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BillToAddressID	int(10,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ShipToAddressID	int(10,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ShipMethodID	int(10,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CreditCardID	int(10,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CreditCardApprovalCode	varchar(15)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CurrencyRateID	int(10,0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SubTotal	money(19,4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TaxAmt	money(19,4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Freight	money(19,4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TotalDue	money(19,4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Comment	nvarchar(128)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
rowguid	uniqueidentifier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ModifiedDate	datetime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Cancel

Back

Next

EXECUTIONLISTS

API TESTING

OSV

Jump to Parent

Synchronize

Set result

Clear Log

Open link

Update Baseline

ExecutionLists

Baseline

01. AP Modules

Standard modules

02. TestCases

03. TestCaseDesign

04. Execution

Data Integrity Testing

Configurations

tosca_core_repo

Details

Test configuration

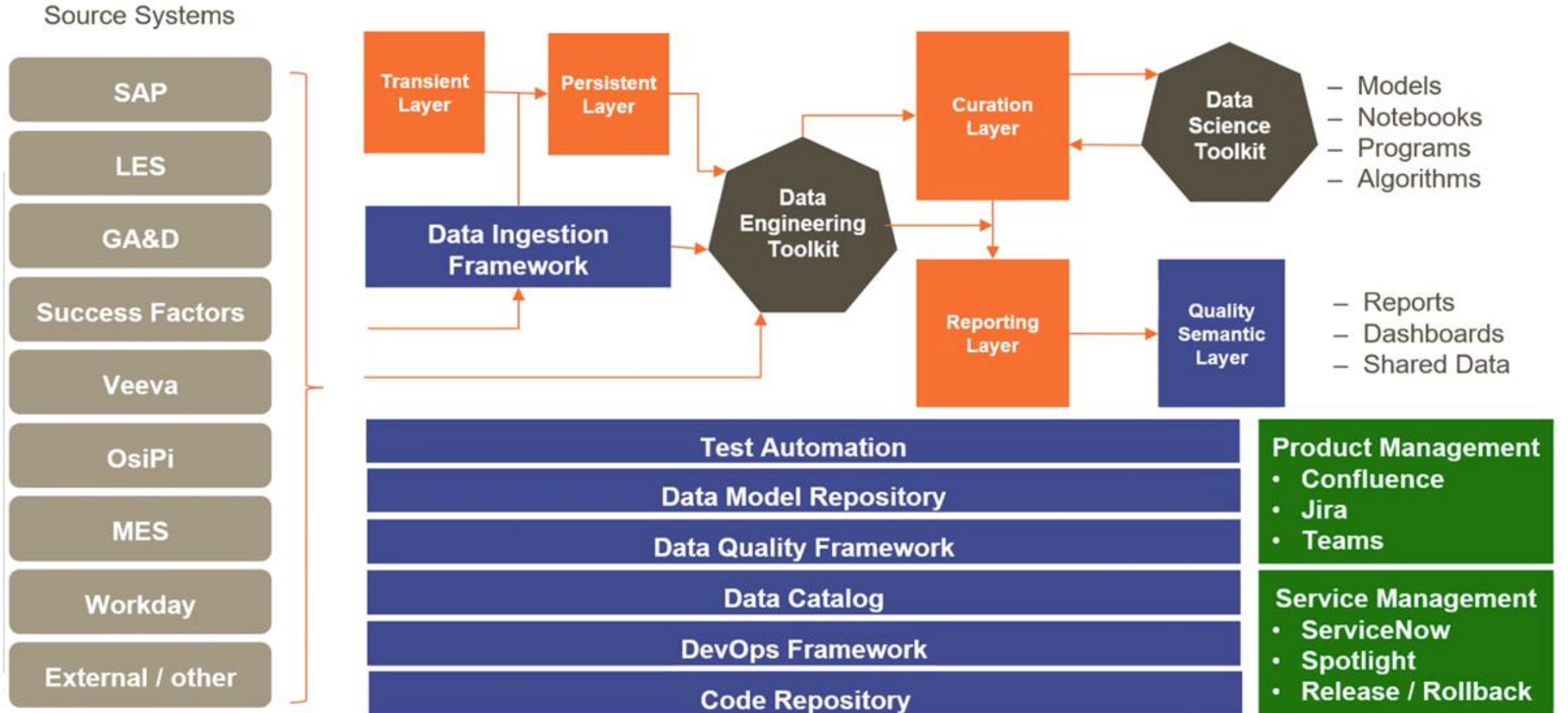
Automatically detect tests that can be run in parallel



AI/ML Use Case

- Why Data Integrity?
 - AI/ML is driven by data. Curation of data for models and deployments is critical for success.
 - In an AI/ML process, the data passes through models that create code to support solutions. Trustworthy data is essential for AI/ML innovation.
- What is the business value?
 - Complex ecosystems must have end to end, automated and continuous observability into deployments and pipelines, promoting trust while enabling delivery with low risk.
 - AI/ML must learn from trusted and correct data. Effective use of machine learning depends on accuracy and completeness to support predictive AI tasks.

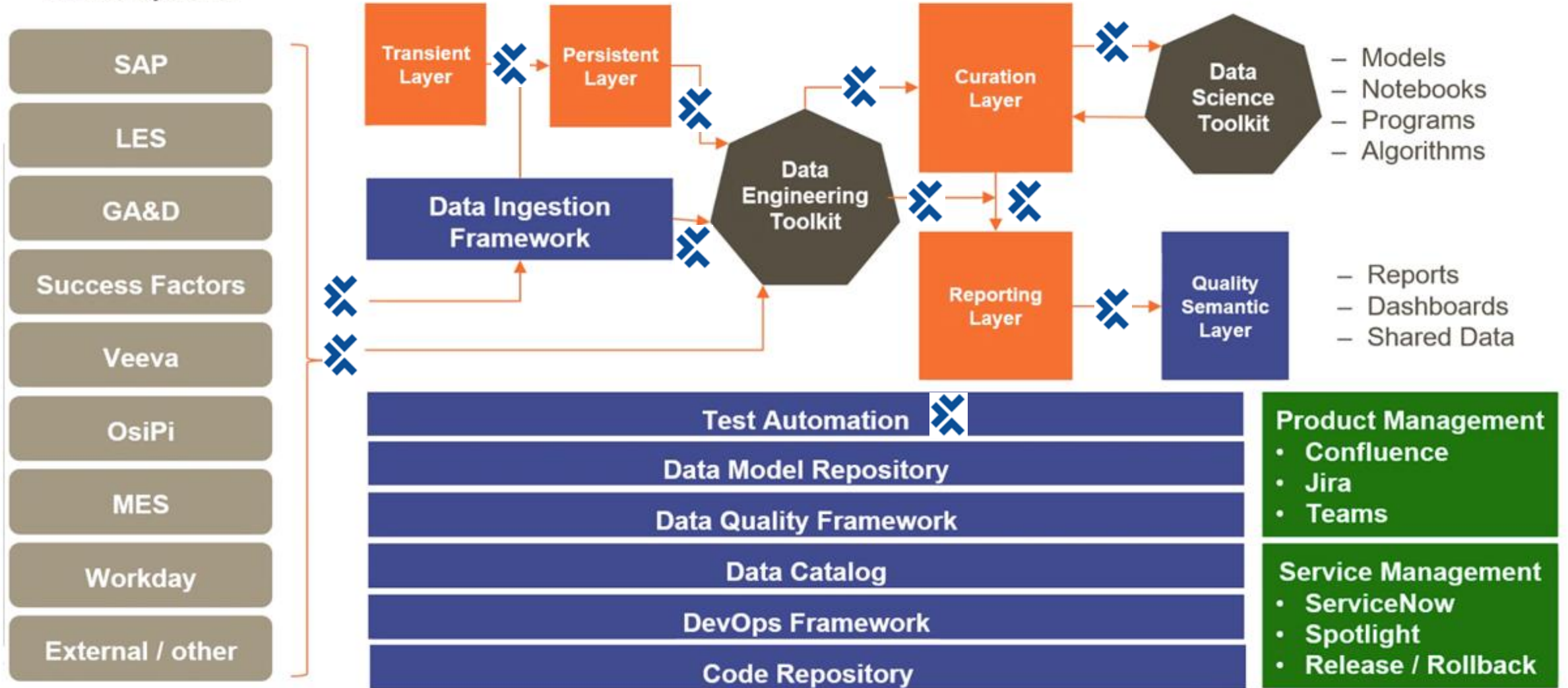
Example Reference Architecture for ML



Example Reference Architecture for ML with Data Integrity ✕



Source Systems





AI Benefits

Achieve a trustworthy foundation with clean, fit-for-purpose data

Simple | Efficient | Cost-effective

Major areas for AI impacts on a business

1. Improving the customer experience
2. Employee productivity gains
- 3. Optimized Business Operations**
 - **Data Migrations (required for new AI architectures)**
 - **Innovation**
 - **Compliance**

Optimized Business Operations Compliance



- AI Compliance Reporting

- AML² & KYC
 - Anti-money laundering & Adversarial machine learning
 - Know your customer

Integrity of the Data in the Models

Includes:

1. Schema & Metadata checks
2. Parsing checks
3. Clean-label & backdoor poisoning

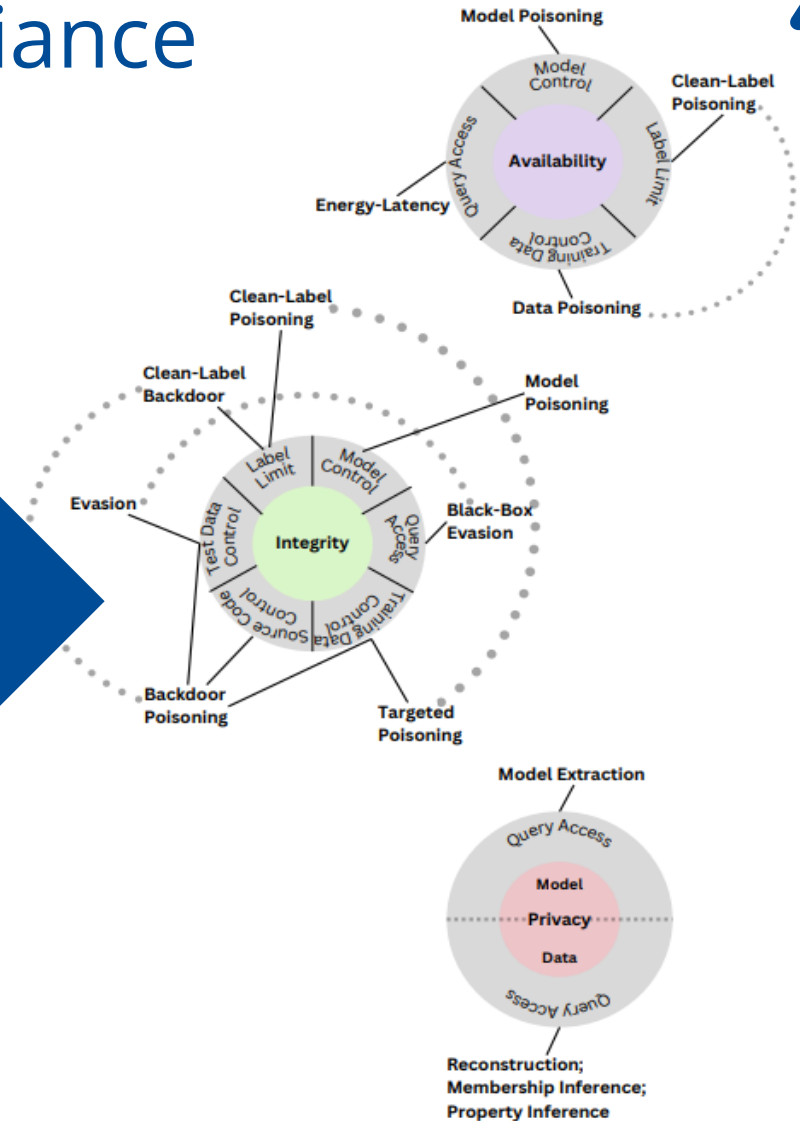


Figure 1. Taxonomy of attacks on Predictive AI systems.

NIST Trustworthy and Responsible AI NIST AI 100-2e2023 Diagram



Tricentis Data Integrity for AI/ML

Major Pharma (Vaccines Group)

- The Issue
 - ML models not leading innovation decisions correctly
 - Non-curated data used for model training & deployment
 - Bias was way off expectations
- Why
 - Small team checking the quality of supermassive datasets
 - Manually spot-checking data at each stage of process
- Solution
 - E2E Validation datasets along the entire were process expected, conforming and regression-checked
 - Automation achieved 90% data validation coverage
 - Continuous data test execution now embedded in AI/ML quality assurance
 - Azure | Databricks | PowerBI
- Results
 - Supporting market success for \$1B Vaccine

The background of the slide is a dark blue gradient. On the right side, there are several overlapping triangles in various shades of blue and one in orange, creating a geometric pattern. The text is positioned on the left side of the slide.

Thank you

Please visit our booth for all the details and a Demo!