

# MANTA

## Unified Data Lineage Overview



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MANTA Overview

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MANTA and Collibra: Integration Visual

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Additional Material: Use Cases

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# Data Lineage Initiatives



**Trace PII + Sensitive Data Flows –**  
Tighten sensitive data protection



**Automation + Documentation –**  
Potentially hiring 35 FTE's to perform manually



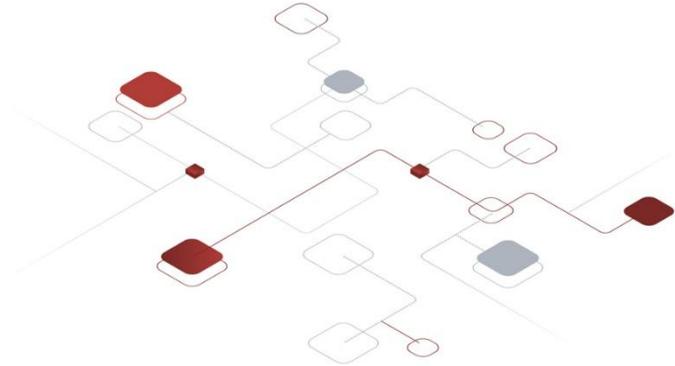
**Enhance Governance –**  
Ensure accurate regulatory reporting and provide a data-centric foundation for 2022 catalog project

# Our Mission

**Bring intelligence to metadata management by providing an automated solution that helps you drive productivity, gain trust in your data, and accelerate digital transformation**

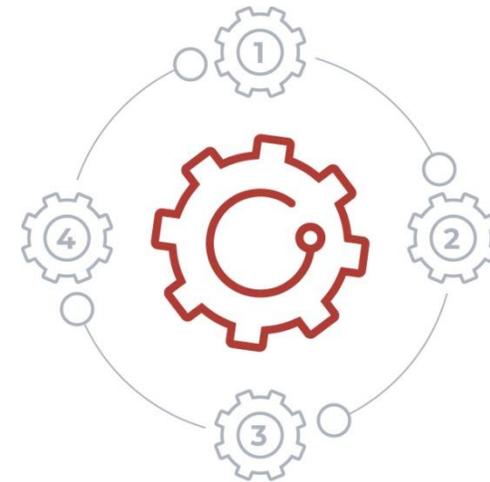
# What We Do

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We help organizations like yours achieve **regulatory compliance**, enhance **data governance**, speed up **migration projects**, and shorten **delivery schedules**

Using MANTA, enterprises manage **end-to-end lineage** across their data lifecycle



# Why We Do It: Key Drivers

## Productivity

- Understand where your data originated, how it's changed, and where it's going – so that you can use it to your advantage
- Remove roadblocks, save time, increase efficiency and shift your focus to what matters

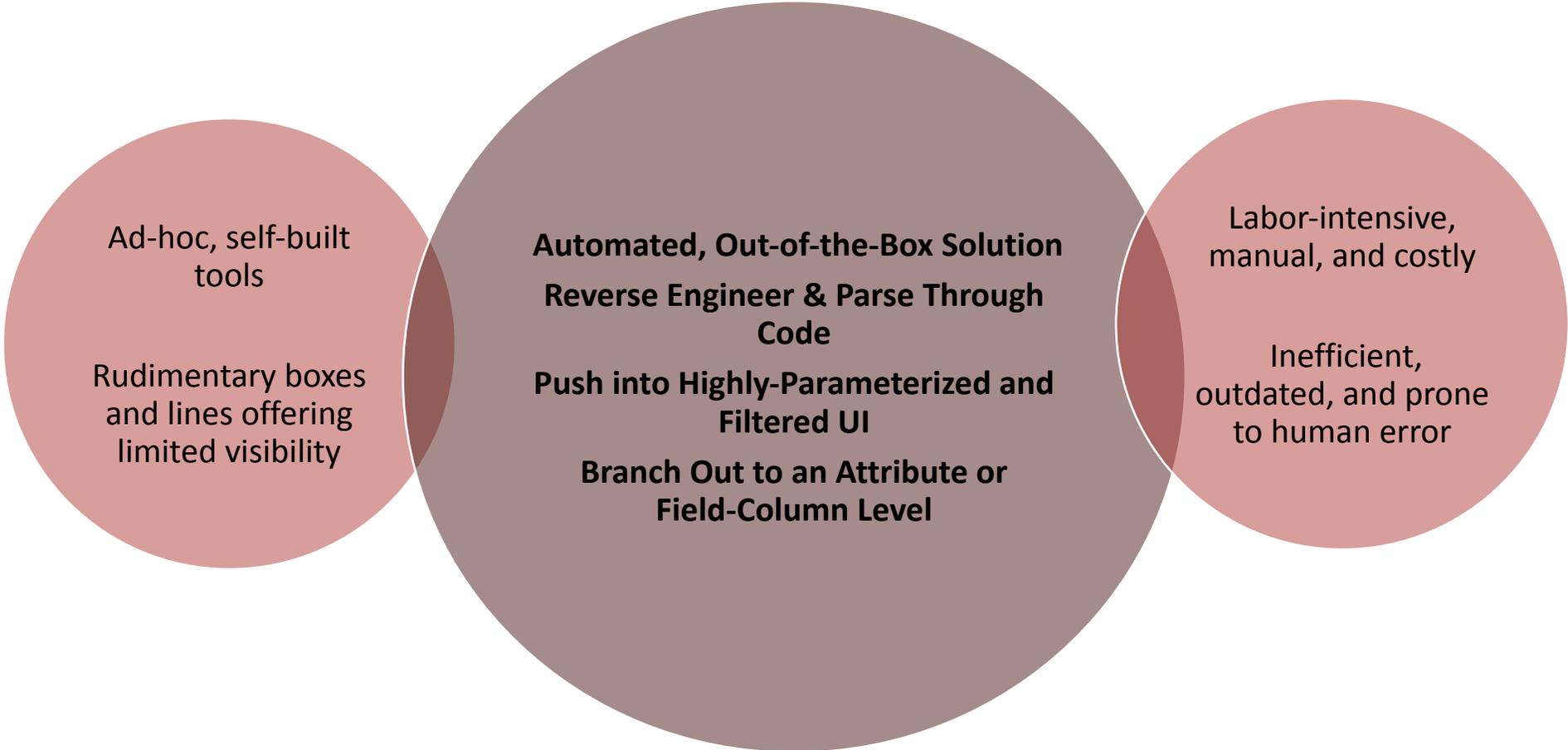
## Trust

- Gain confidence in the accuracy and trajectory of your data
- Make intelligent, informed decisions that drive and sustain positive business outcomes

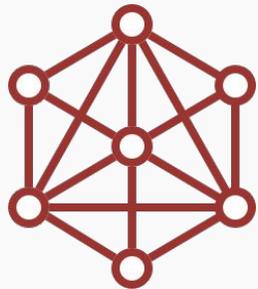
## Digital Transformation

- Empower data professionals to adapt to changing needs, quickly and at scale
- Enable businesses to effectively address challenges and seize new opportunities

# The MANTA Difference



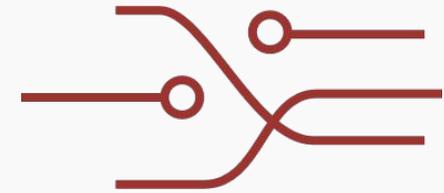
# How MANTA's Unified Data Lineage Solution Works



**Step 1:**  
Connection and  
Scanning



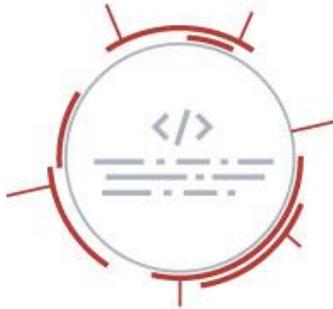
**Step 2:**  
Lineage Extraction with  
Added Semantics



**Step 3:**  
Fully Accurate  
Lineage Delivery

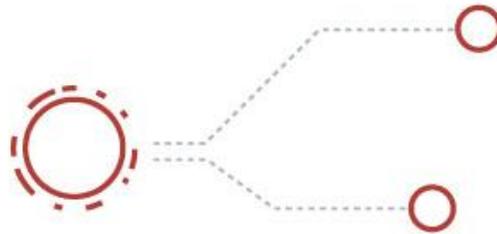
# How MANTA Works: A Closer Look

①



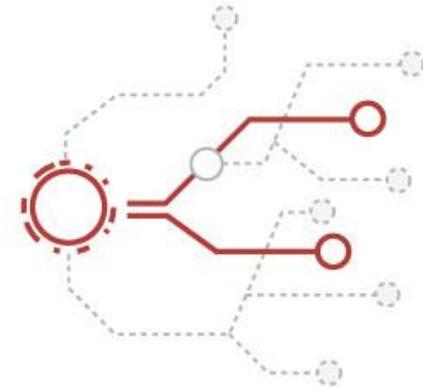
Manta Flow crunches custom SQL, ETL & BI code

②



Documents lineage along the way

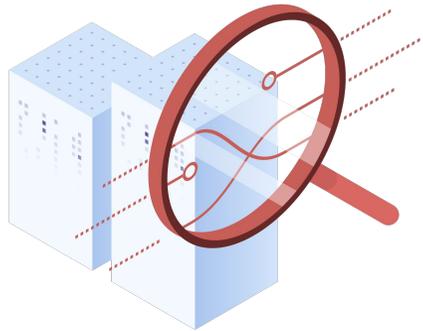
③



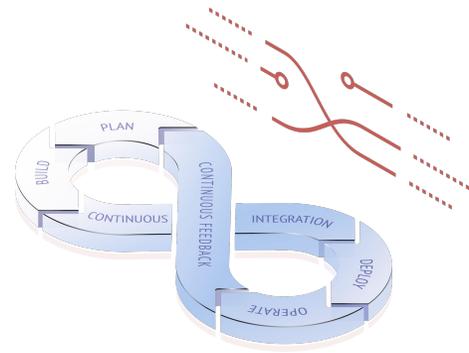
Visualizes data lineage via interactive map or optionally pushes it into third-party governance solution

# Where You Can Apply MANTA

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Data Governance



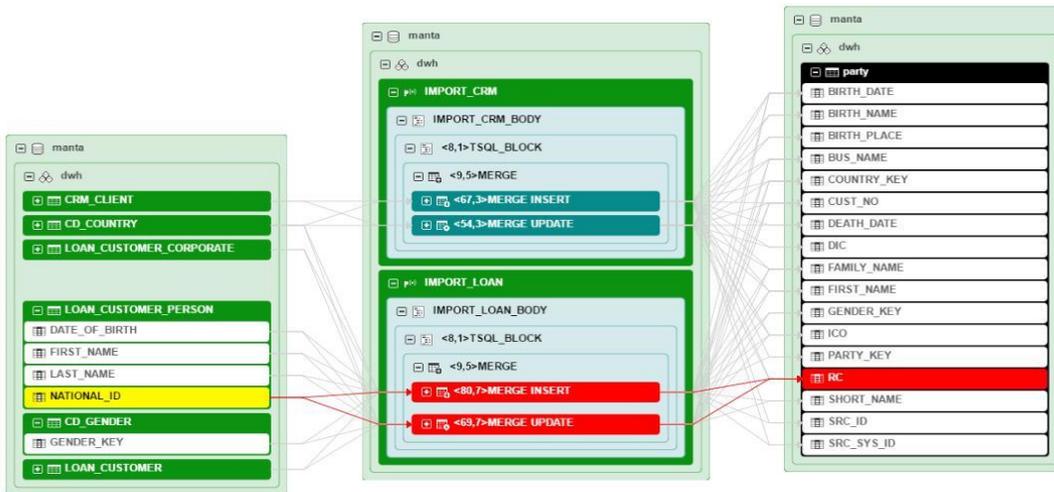
DataOps



(Cloud) Migrations

# MANTA

## Advantages



Quickly deliver impactful results with automated lineage



Seamlessly integrate lineage into existing processes and practices



Avoid visualization overload with lineage that is easy to comprehend



Prevent lineage “mysteries”



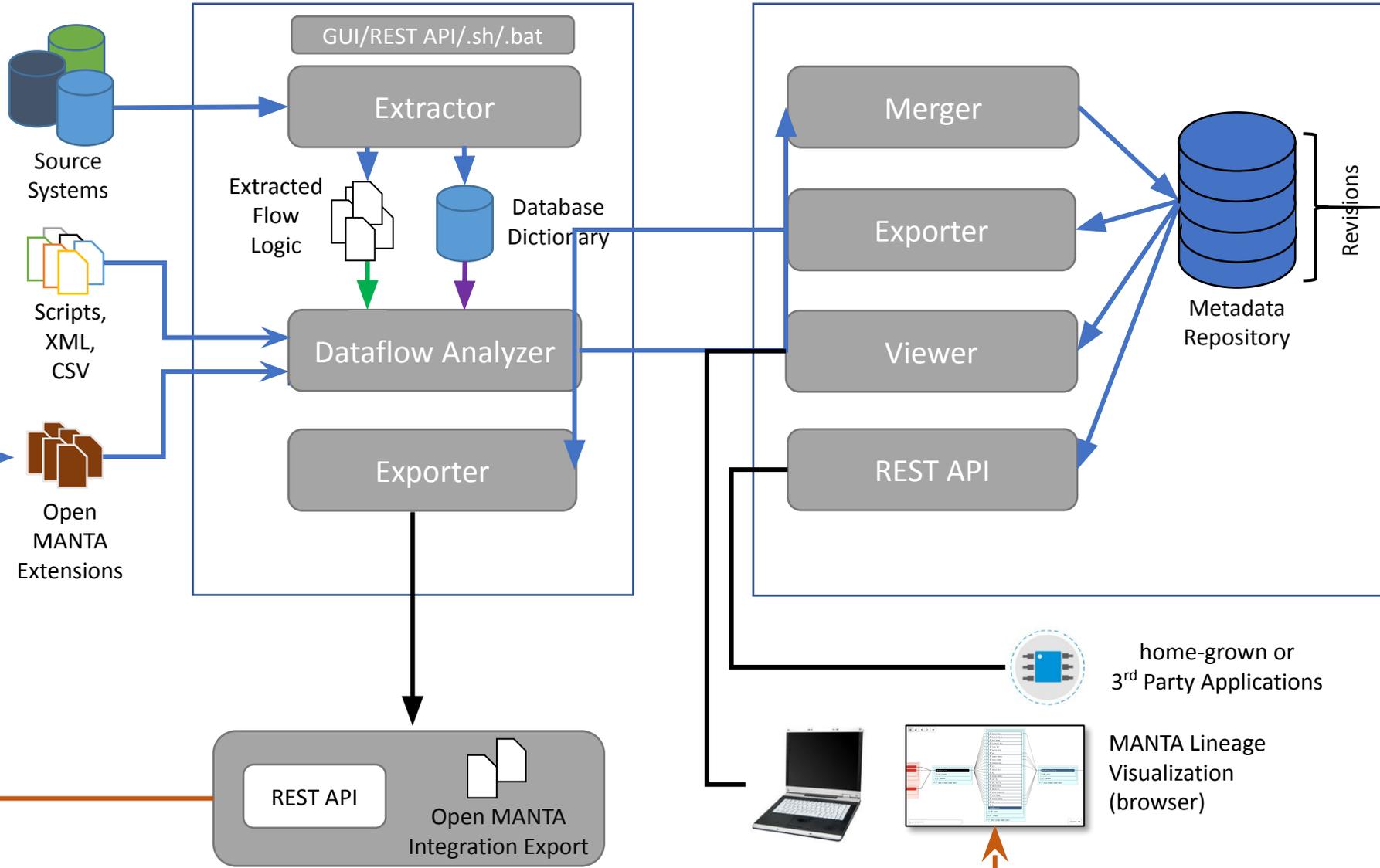
Increase accuracy for data flow audits and historical lineage requests



Independent Solutions; Catalog  
Integrations...

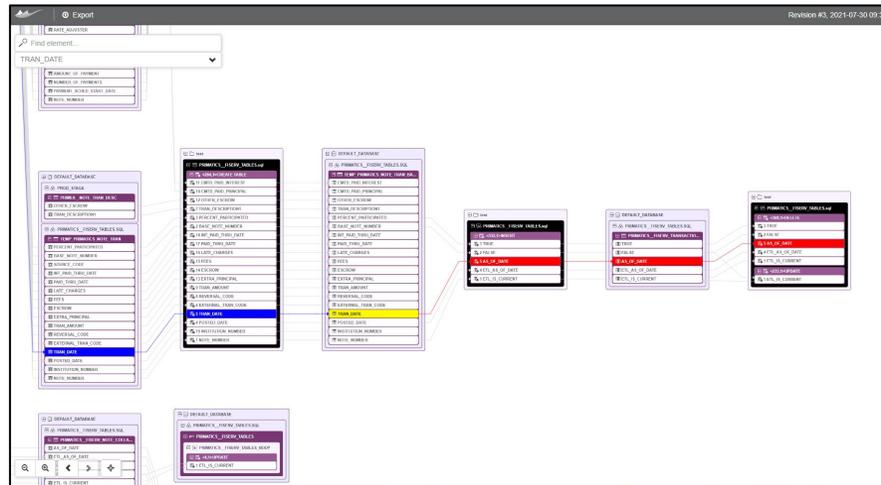
### Manta Flow Client

### Manta Flow Server



# Data Governance – Single Source Of Truth

Manta's lineage automatically updates Collibra to connect the dataflow with business rules, definitions, and Collibra catalog features.



The screenshot shows the details for a specific asset: 'MSSQL > WIN-RRR5IO49B55 > manta > dwh > REPORT\_CLIENT'. The asset is a 'Mapping Specification' with a status of 'Candidate'. The page includes sections for Overview, Description, Scope, Traceability, Responsibilities, IT Requirements, and source Data Structure.

Name	Domain	Description
WIN-RRR5IO49B55/manta/dwh/CD_COUNTRY	Physical Data Dictionary	
WIN-RRR5IO49B55/manta/dwh/CD_SEGMENT	Physical Data Dictionary	
WIN-RRR5IO49B55/manta/dwh/PARTY_ADDR_H	Physical Data Dictionary	



**Thank you!**



# **Additional Material**

# Data Governance with MANTA



Meet regulatory commitments faster and with less manual effort



Increase trust in data and the overall data pipeline



Direct integration with the most popular governance solutions



More accurately define the scope of your governance initiatives

# 1. Customer Story: **Data Governance**

A global, Fortune50 financial services corporation headquartered in New York.

## Problem

- Need for comprehensive BASEL II/III solution
- Monthly manual reports in Excel with over 250 KPIs initially, growing to 500+
- Unsuccessful attempts to use several data catalog / data governance tools

## Result

- Lineage discovery fully automated for data environment in Finance & Risk
- Customer was able to extend regulatory reporting to hundreds of KPIs with ease
- MANTA was project of a year and integrated into broader DG context

## Today

- MANTA chosen to be the enterprise data lineage solution
- Variety of use cases for compliance (GDPR, CCPA,..), impact analysis, DataOps,...
- Changing culture of data operations from manual to automated/augmented

# DataOps with MANTA

✓ Fully mapped data pipeline accelerates debugging

✓ Complex APIs for launching lineage “on demand” for selected assets

✓ Complete lineage reporting improves communication between teams

✓ Instant lineage validation to support agile analytics development

✓ Proactively deliver lineage reports as part of your DataOps best practices

## 2. Customer Story: DataOps

A global banking and financial services company, among TOP5 banks in EMEA and TOP50 globally.

### Problem

- Large data environment (primarily in Teradata) with over 1,000,000 algorithms in it
- Increasing demand for more frequent changes and releases
- High-cost and fragile maintenance, difficult and time-consuming debugging process

### Result

- Data pipeline fully mapped and understood via lineage to speed up debugging
- Automated impact analysis implemented to increase agility and shorten cycle
- Lineage integrated into release management to enable Continuous Deployment

### Today

- MANTA expanding from traditional data environment to BigData “playground”
- Use cases added to support privacy, compliance and governance
- Experimenting with more advanced DevOps practices – automated sandboxing

# Migration with MANTA

✓ Scope migration projects faster and with more accuracy

✓ Unify, re-use, and highlight critical transformations

✓ Perform continuous lineage validation to measure progress

✓ Uncover unused assets and flag dead-ends

✓ Identify redundant data flows as candidates for re-use or removal

✓ Expose previously unknown sources and targets as potential privacy exposures

# 3. Customer Story: Migration

An American global, Fortune100 insurer, one of TOP5 property and causality insurers in the US.

## Problem

- Migration of a large Teradata environment (200,000+ objects) to Snowflake started
- Serious quality issues – missing objects, unknown / broken dependencies
- Do – Break – Debug - Redo cycle, resources wasted, moving slowly

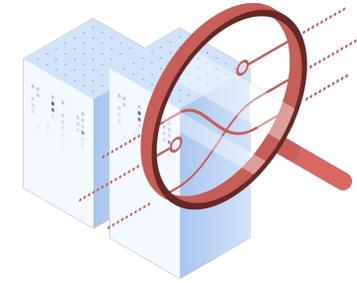
## Result

- MANTA implemented and all dependencies mapped automatically
- Environment split to smaller chunks for step-by-step migration
- Predictability restored (to set expectations and prepare the plan)

## Today

- Migration successfully completed
- MANTA in use for the environment in cloud to enable efficient data operations

# Lineage for Data Quality



✓ Highlight data quality issues in the context of your data pipelines

✓ Historically review the impact of data quality on your data flows

✓ Examine data quality rules embedded in extract/transform/load (ETL) flows

✓ Proactively deliver lineage reports as part of your DataOps best practices

✓ More accurately define the scope of your data quality initiatives

✓ Increase trust in data and the overall data pipeline

# Why MANTA



**Quick time to value –**  
Simple installation and immediate lineage results



**Automation –**  
Put an end to costly, lengthy, manual processes of lineage collection and updating.



**Accuracy and Indirect Lineage –**  
Paint true picture of environment including detailed flow information



**Open MANTA –**  
Easily define new lineage metadata assets and establish data flows without a native scanner



**Historical lineage –**  
Track how your data pipeline is evolving overtime



**Perspectives –**  
Site-specific hierarchies to be defined for organizing lineage metadata



**Support Team –**  
Agile organization focused on customer support and development



**Open Architecture w REST API –**  
Seamless integration with your environment



**Advanced filtering –**  
Tune lineage visualization to your needs with our filters, deep color coding, and more