



Data Governance Done Right

Tools

Lessons

What's next



The Data Governance Timeline

● 1997

The Gartner Group introduces the concept of 'Data Governance' as a strategic approach to managing data as an enterprise asset.

● 2003

The Data Governance Institute is founded, providing a framework and best practices for organizations to establish and mature their data governance programs.

● 2013

The Chief Data Officer (CDO) role emerges as a key leadership position responsible for overseeing data governance and data management initiatives.

● 2016

The General Data Protection Regulation (GDPR) is enacted in the European Union, driving increased focus on data privacy and the need for effective data governance.

What Data Governance is Not?



**NOT JUST A ONE-
TIME ACTIVITY**



**NOT SOLELY
AN IT
RESPONSIBILITY**



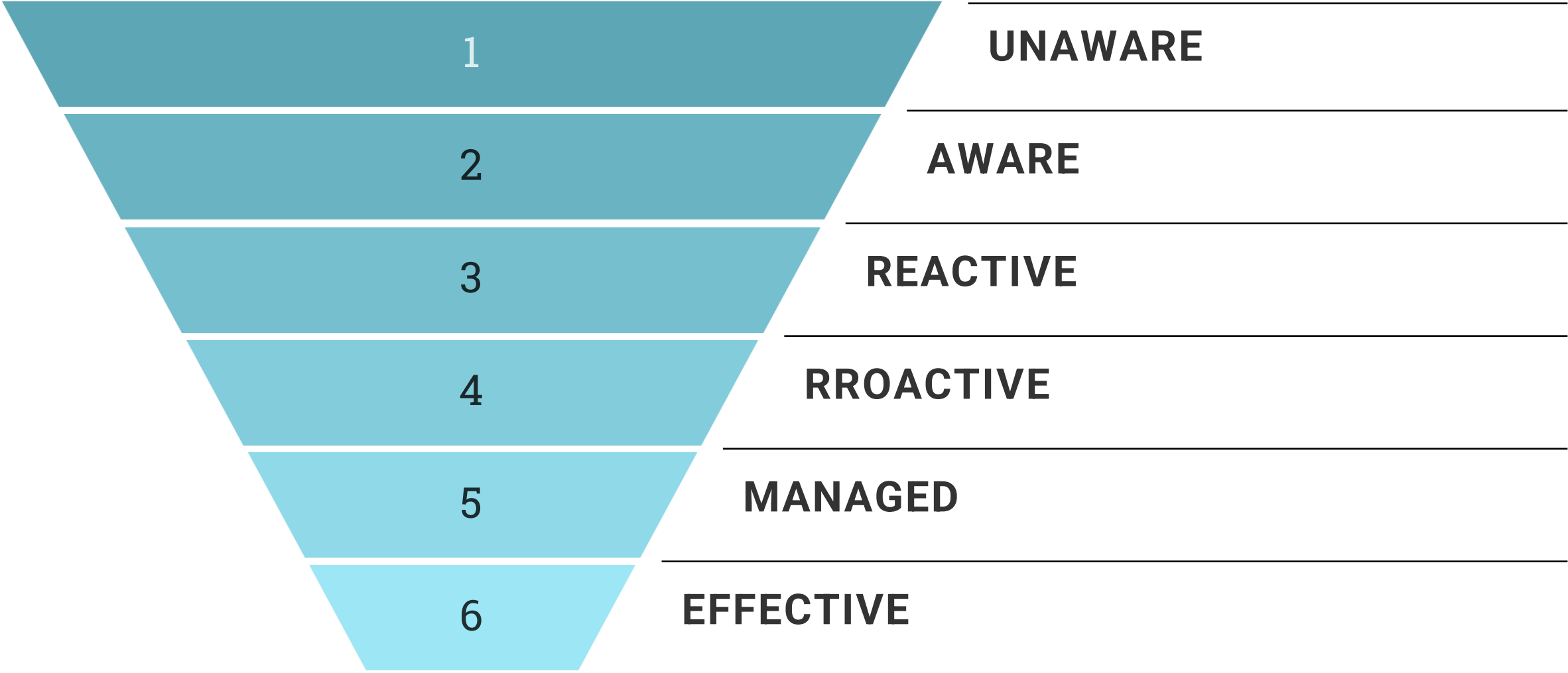
**NOT JUST ABOUT
POLICIES AND
PROCEDURES**



**NOT LIMITED
TO
STRUCTURED
DATA**

IN SUMMARY, DATA GOVERNANCE IS NOT A ONE-TIME TASK OR AN IT-CENTRIC INITIATIVE. IT IS A HOLISTIC APPROACH THAT REQUIRES ORGANIZATION-WIDE COLLABORATION AND A CONTINUOUS FOCUS ON DATA-RELATED PROCESSES, POLICIES, AND INITIATIVES.

Data Governance Maturity Model



Data Governance tools



Data Governance tools



Data Governance tools



Data Governance tools



Data Governance tools



IBM Automated Data Lineage



Quick Facts

- **2016 - MANTA IS FOUNDED**
Prague, Czech Republic
- **2023 - ACQUIRED BY IBM**
- **BROAD RANGE OF USE CASES**
 - Regulatory compliance
 - Business lineage
 - Root cause analysis
 - Impact Analysis
 - Data platform migration



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How it works?

EXTRACT

ANALYZE

EXPORT
(optional)

Database Dictionary

Code

ETL jobs

Reports

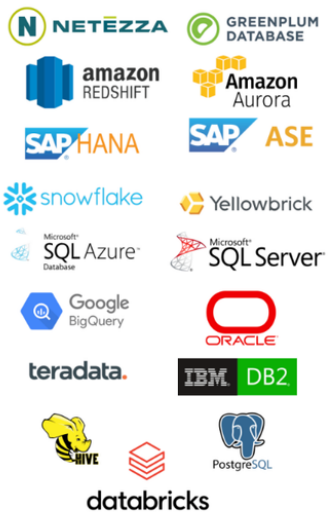




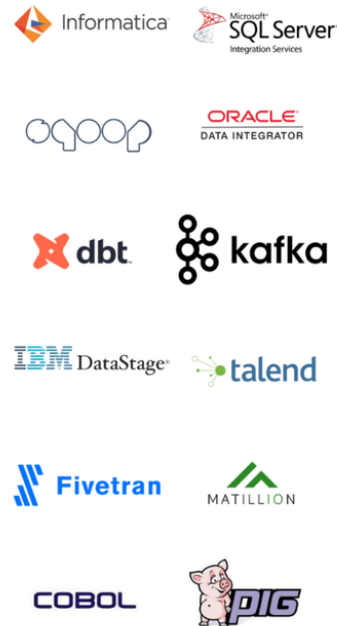
IBM Manta Data Lineage

50+ Technologies

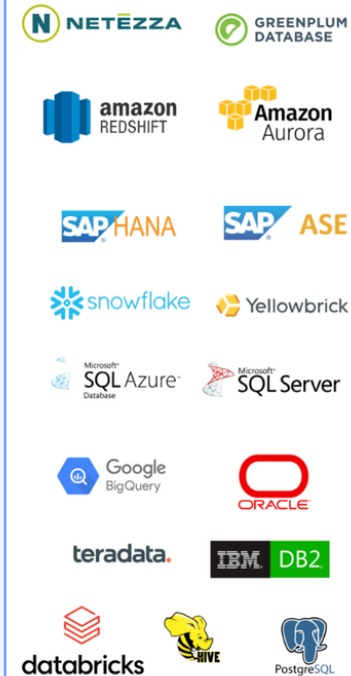
Data Sources



Data Integration



EDW / Lakehouse



Consumption

Analytics

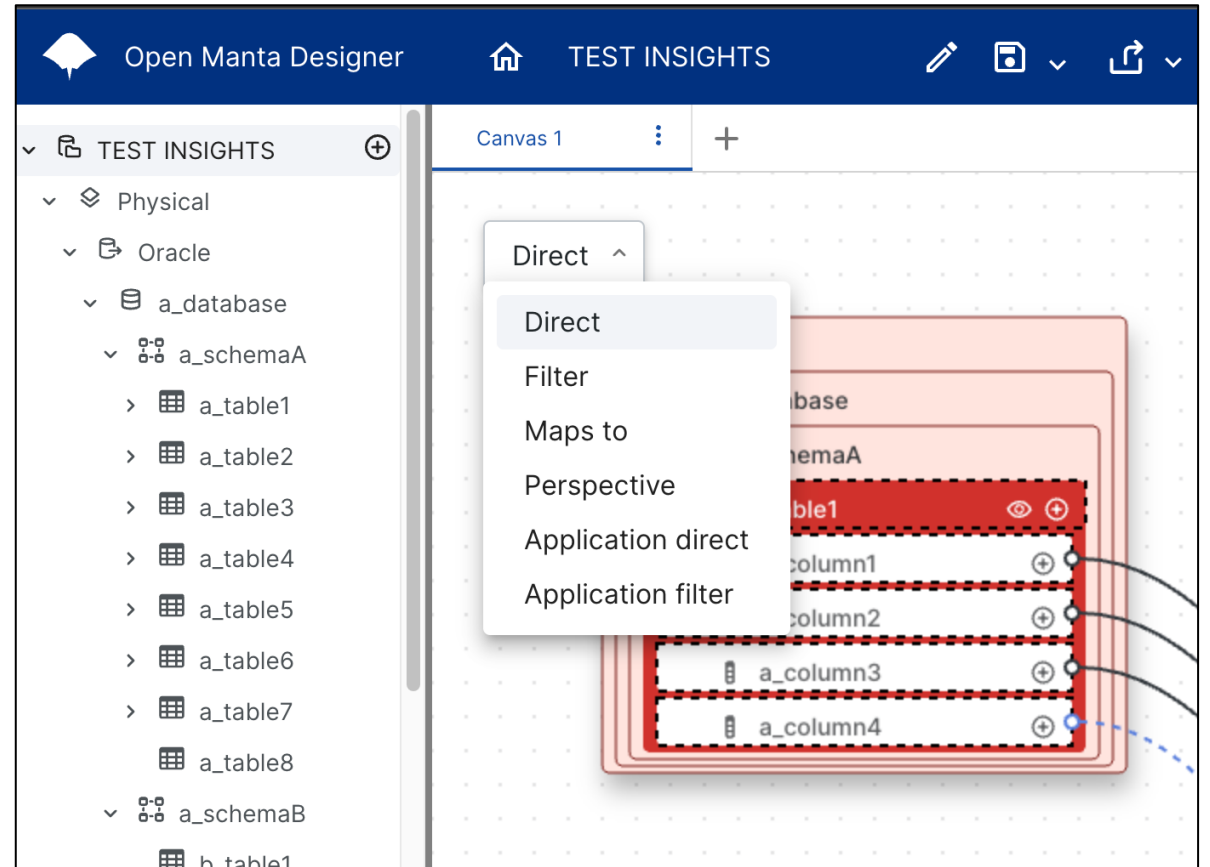


AI/ML & 3rd parties

CSV & TXT Exports

Open Manta Designer

- **UPLOAD METADATA FROM UNSUPPORTED TECHNOLOGIES**
- **CREATING METADATA**
Augment Manta automated lineage



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How it works?

EXTRACT

ANALYZE

EXPORT
(optional)

Open Revision ("snapshot")

Source or Target

Data transformations

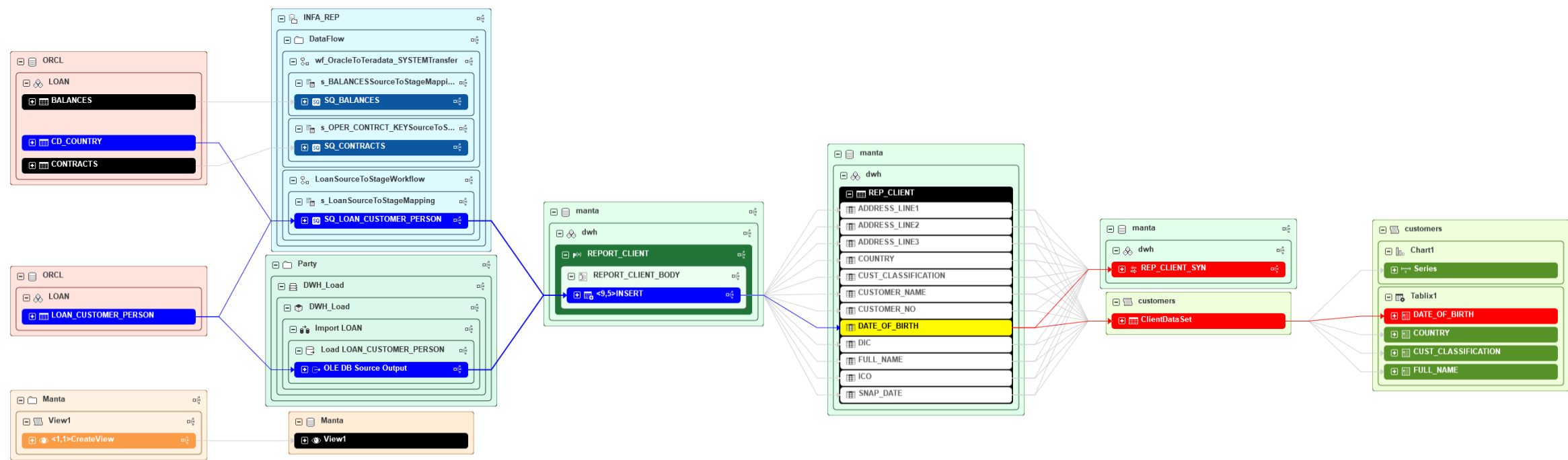
Transformation Syntax

Commit Revision

Compare Revision



Dataflow Analysis



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How it works?

EXTRACT

ANALYZE

EXPORT
(optional)

Basic export
Integration export
Export to Data catalog



Manual vs. Automated Lineage

Source: 3,000 lines of SQL

```
1  DELETE FROM udm_devstg_tbls.TRADE_IND_INSURANCE_LINE_BASE
2
3  UPDATE udm_prd.TRADE_IN_INDIRECT_TRANS A
4  SET INSURANCE_POST='MD'
5
6  WHERE EXISTS
7  (
8  SELECT 1
9  FROM udm_devstg_tbls.TRADE_IND_INSURANCE_ACCT_BASE B
10
11  WHERE A.CUST_ID=B.CUST_ID
12  AND A.TRADEIN_COMPLETE_DT+30 BETWEEN B.EFF_DT
13  AND B.EXP_DT
14  )
15
16  DELETE FROM udm_prd.TRADE_IN_INDIRECT_TRANS
17  WHERE RPT_MTH >= Td_Month_Begin(Add_Months(Cast('2023-03-08' AS DATE FORMAT 'YYYY-MM-DD'),-6))
18  AND TRANS_TYPE=2
19
20  DELETE FROM udm_devstg_tbls.TRADE_IND_PPLAN_DAA
21
22  INSERT INTO udm_devstg_tbls.INDIR_AR
23  SELECT DISTINCT 'CUSTSEQ' CHK_TYPE
24  , A.CUST_ID
25  , A.CUST_LINE_SEQ_ID
26  , A.TRADE_ORD_NUM
27  , A.EQP_DEVICE_ID
28  , Substr ( A.EQP_DEVICE_ID,1,14 ) DEV_ID
29  , B.ACQ_RET_IND
30  FROM udm_prd_itvm.INDIRECT_DEVICE_TRADE_TRANS A
31
32  JOIN udm_prd_itvm.EQUIP_SUM_FACT B
33  ON A.CUST_ID=B.CUST_ID
34  AND A.CUST_LINE_SEQ_ID=B.CUST_LINE_SEQ_ID
```

SQL script to take rows from one table and insert into another table

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Lineage Graph

