

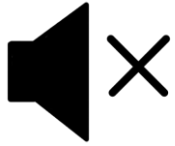
Feb 27, 2024

Implementation of Data Mesh Architecture using IDMC Services

- Anita Ayyagari, Senior Solutions Architect, CSA
- Naveed Haider, Principal Solutions Architect, CSA

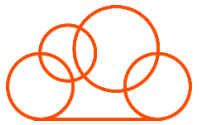
Where data & AI come to **LIFE**

Housekeeping Tips



- Today's Webinar is scheduled for **1 hour**
- The session will include a webcast and then your questions will be answered live at the end of the presentation
- All dial-in participants will be muted to enable the speakers to present without interruption
- Questions can be submitted to "All Panelists" via the **Q&A option** and we will respond at the end of the presentation
- The webinar is **being recorded** and will be available on our [Success Portal](#) - where you can download the **slide deck** for the presentation. The link to the recording will be emailed as well.
- Please take time to complete the **post-webinar survey** and provide your feedback and suggestions for upcoming topics.

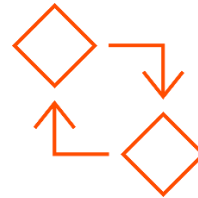
Feature Rich Success Portal



**Bootstrap trial and
POC Customers**



**Enriched Customer
Onboarding
experience**



**Product
Learning Paths
and Weekly
Expert Sessions**

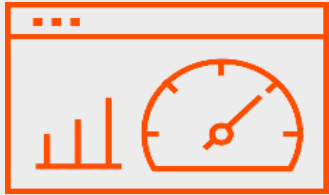


**Informatica
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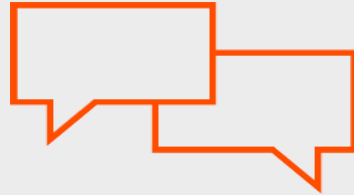
**Tailored training
and content
recommendations**

More Information



Success Portal

<https://success.informatica.com>



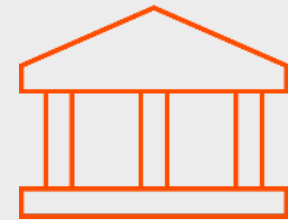
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University

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Feb 2024

Data Mesh Implementation with Informatica

Anita A ,Customer Success Architect

Naveed Haider, Customer Success Architect

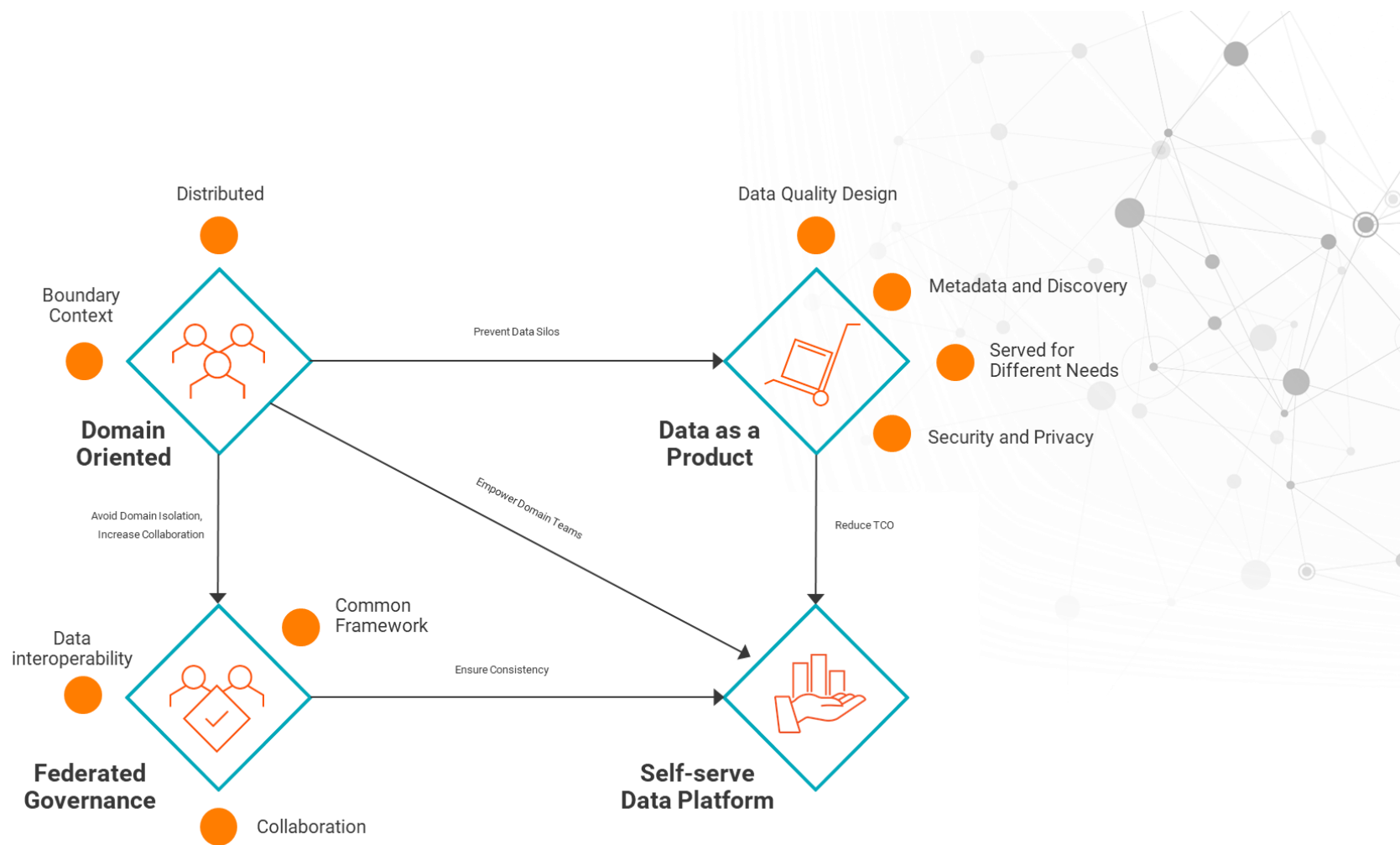
Where data
& AI come to 



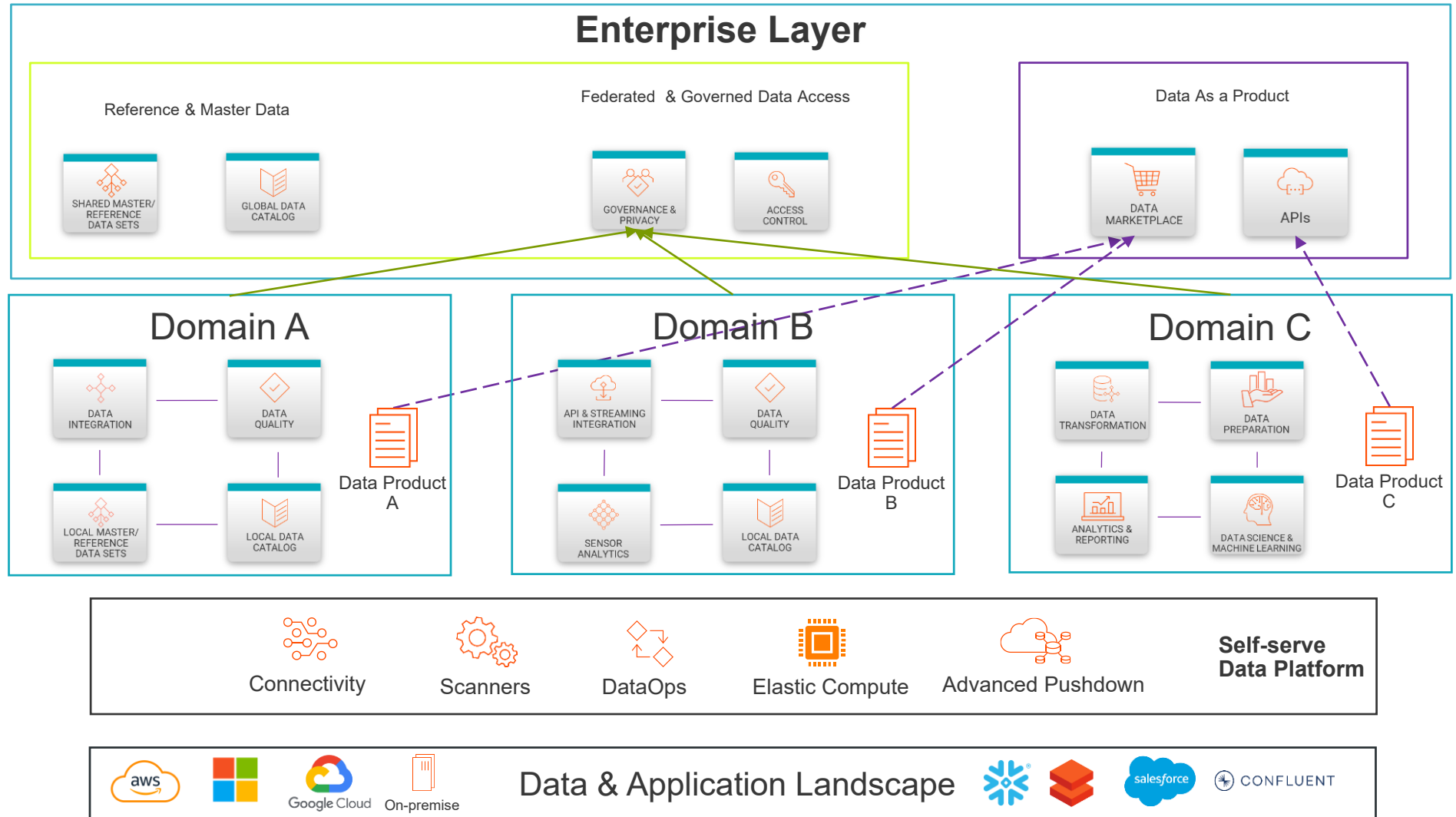
Agenda

- **Data Mesh Essentials**
- **Use Case Description: Customer Sales and Risk Domain**
- **Demonstration of IDMC Services used while implementing Data Mesh**
 - **CDI & Profiling**
 - **Overview of Federated Governance**
 - **Sales Domain and Catalog**
 - **Risk Domain and Catalog**
- **Cloud Data Marketplace**
- **Summary of Data Mesh Implementation**
- **Q &A**

Key Principles of Data Mesh



Data Mesh Architecture with Informatica



Data Mesh Use Case Patterns

Advanced Analytics



- Data Mesh with Informatica enables advanced analytics by leveraging domain-specific data products

Enterprise Data Management



- It facilitates efficient management and governance of enterprise-scale data assets across diverse domains

Data Infrastructure Modernization



- Modernizing data infrastructure data mesh supports scalability adaptability to changing business.

Use Case Description

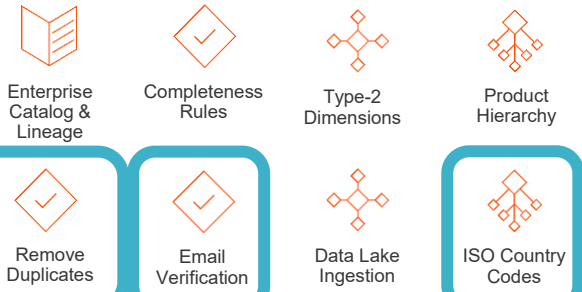
- A Finance Institution adopting a data mesh architecture to be more agile and make data more accessible through the organization
- The main goal is to empower our FSI Domains and Departments to work with data rather than solely relying on the Central Data & Analytics team.
- The organization started the data mesh implementation with two main domains:

DOMAIN	TECHNOLOGY LANDSCAPE	DATA SOURCES	DATA PRODUCT TO GENERATE
SALES	<ul style="list-style-type: none">• IDMC - Heavily used for DI, DQ• AMAZON – CDL based out of S3• SNOWFLAKE - CDW	<ul style="list-style-type: none">• Customers raw data: customer data set with main attributes• Orders: list of orders per customer	<ul style="list-style-type: none">• Sales Customer: dataset with customer attributes and metrics on sales and orders
RISK	<ul style="list-style-type: none">• AZURE – ADLS Gen 2 and ADF	<ul style="list-style-type: none">• Risk by customer: customer risk attributes• Sales Customer: data product generated by SALES domain	<ul style="list-style-type: none">• Customer Risk Measurement: customer dataset with sales/order metrics and risk metrics calculated

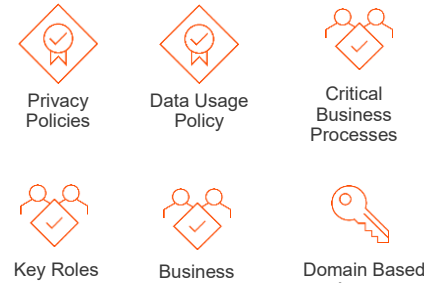
Data Mesh Architecture with Informatica – Our demo

Enterprise Layer

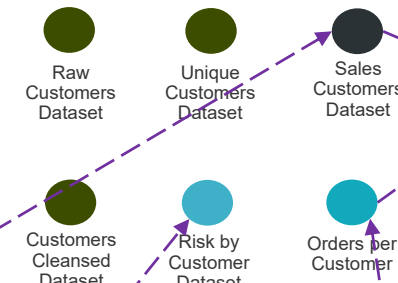
Shared Assets (INFA IDMC)



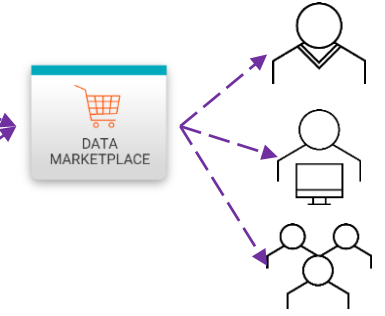
Federated Governance



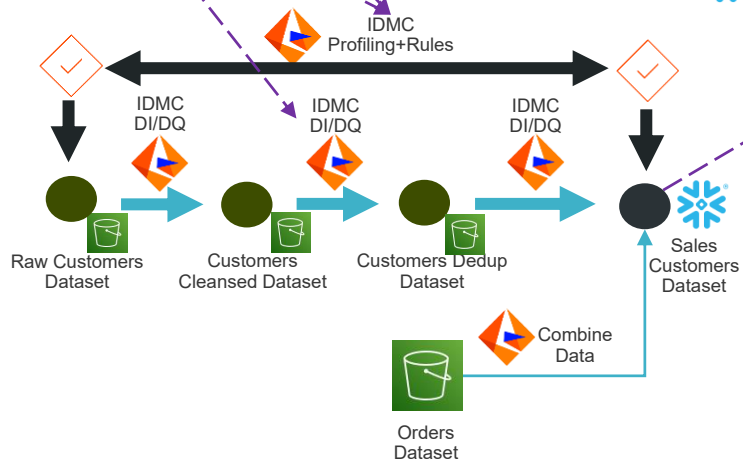
Data Products



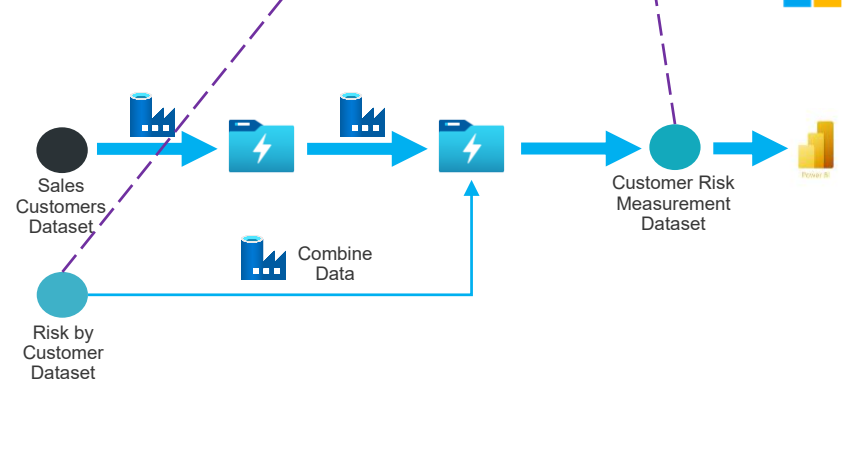
Data as a Product



Sales



Risk



DEMO



Demo Script



**Part I – Domain SALES: Data Product Generation
(CDI+CDQ)**



Data Mesh Implementations with Informatica & Federated Governance

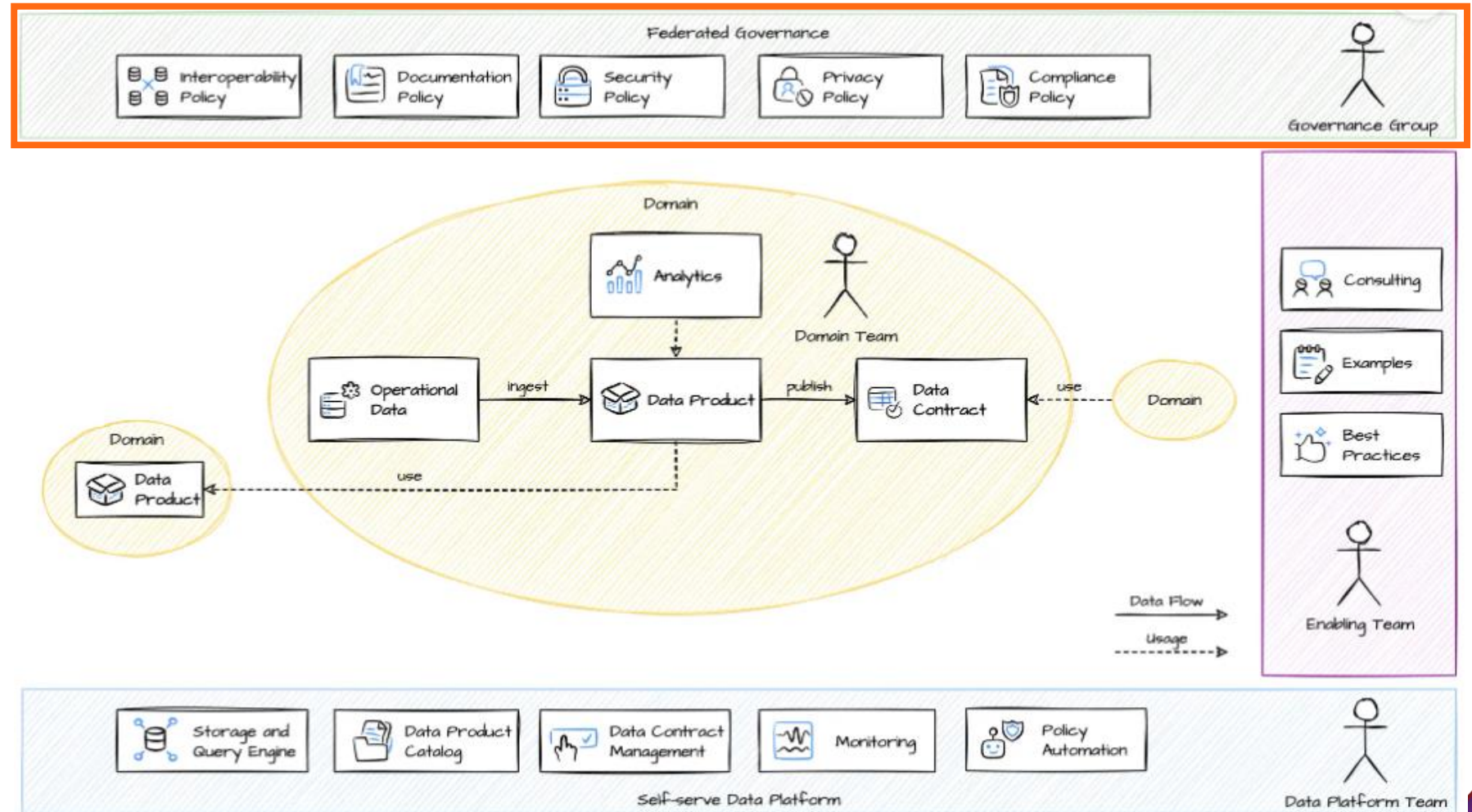
Naveed Haider

Customer Success Solution Architect

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Data Mesh Architecture

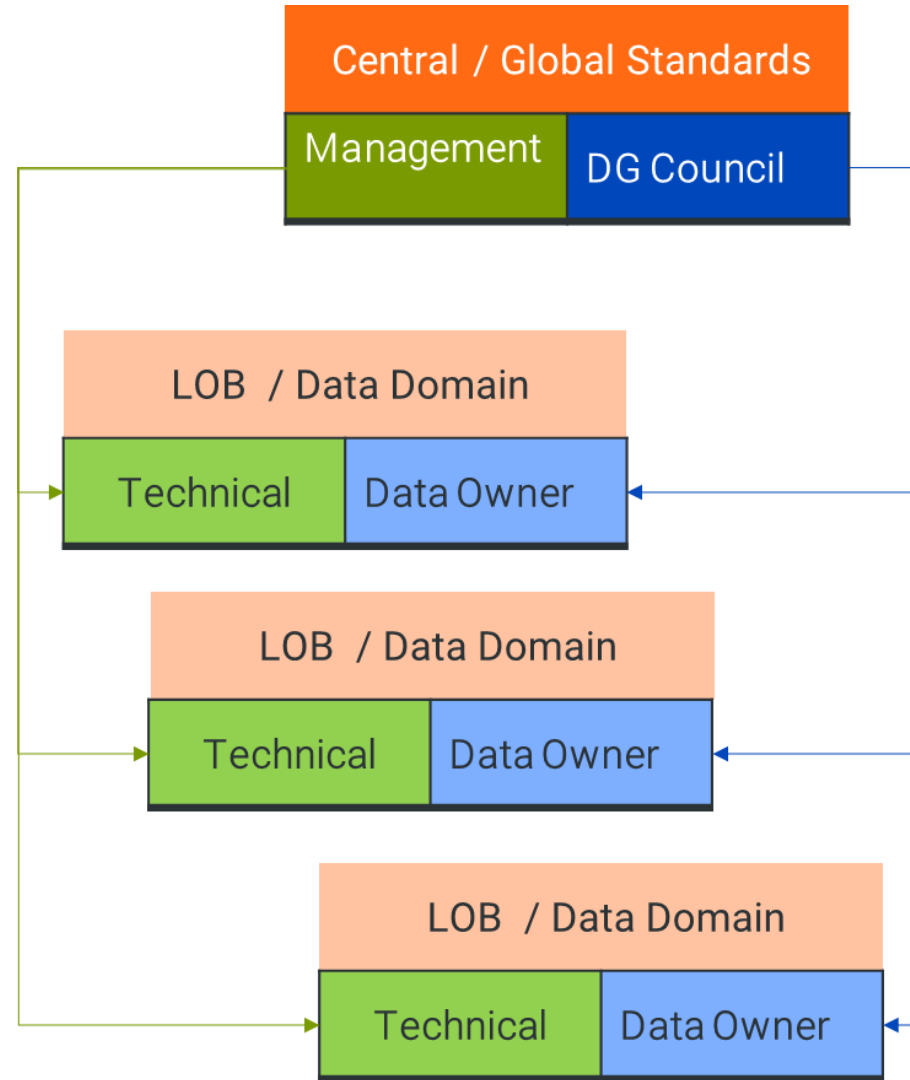
- Business Domain ownership
- Data as a Product
- Self Service Data Platforms
- Federated Governance



Reference :- [Data Mesh Architecture \(datamesh-architecture.com\)](https://datamesh-architecture.com)

Federated data governance

1. Centralized Standards.
2. Domain self-sovereignty
3. Decentralized functions
4. Collaboration:



Data Mesh Architecture with Informatica – Our demo

Enterprise Layer

Shared Assets

(INFA IDMC)



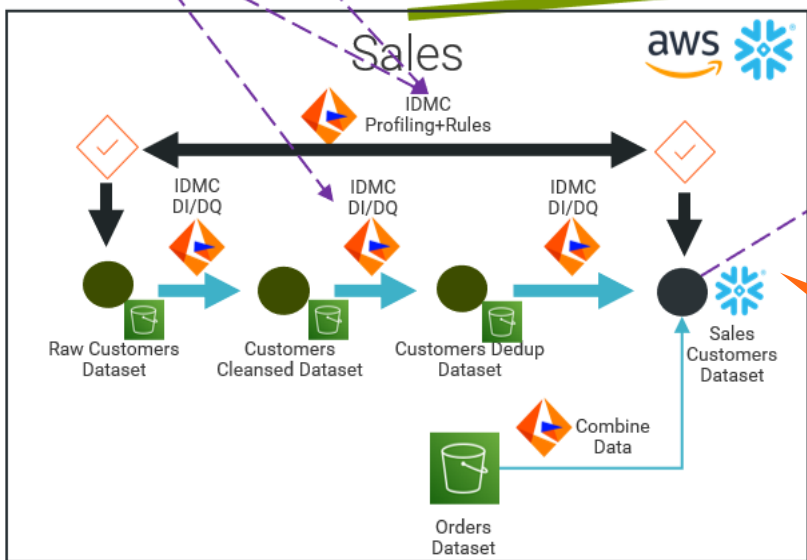
Federated Governance



Catalog Data sets



Data as a Product



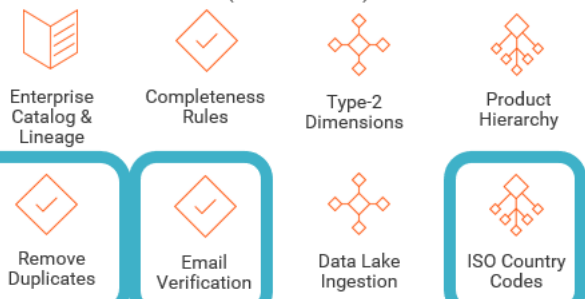
Sales Customer Dataset

Demo → Go to IDMC → MCC

Data Mesh Architecture with Informatica – Our demo

Enterprise Layer

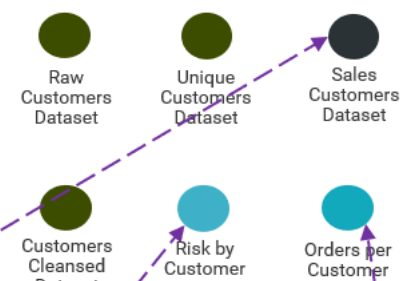
Shared Assets (INFA IDMC)



Federated Governance



Data Products



Data as a Product

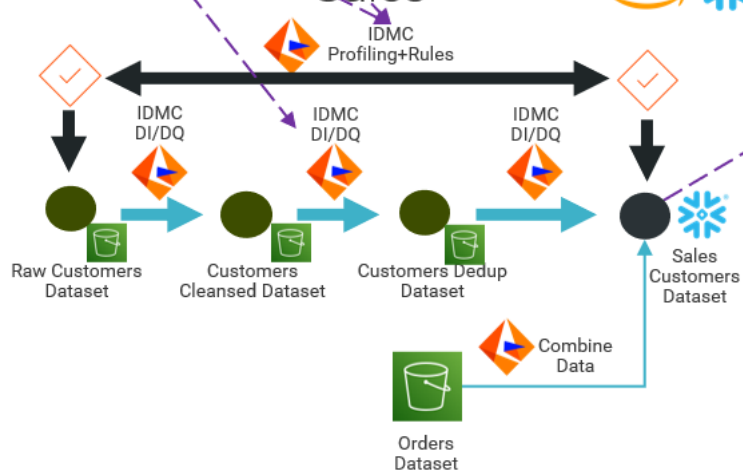


Reused Assets used by Data Domains

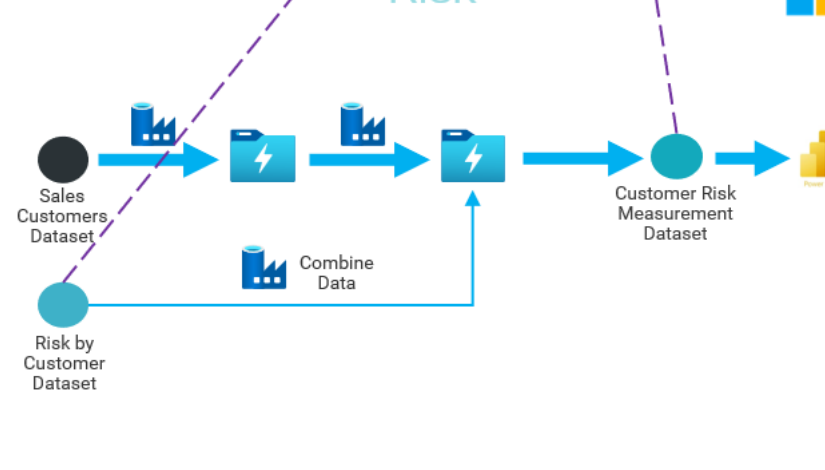
Governance and Glossary

Data Product Promotion

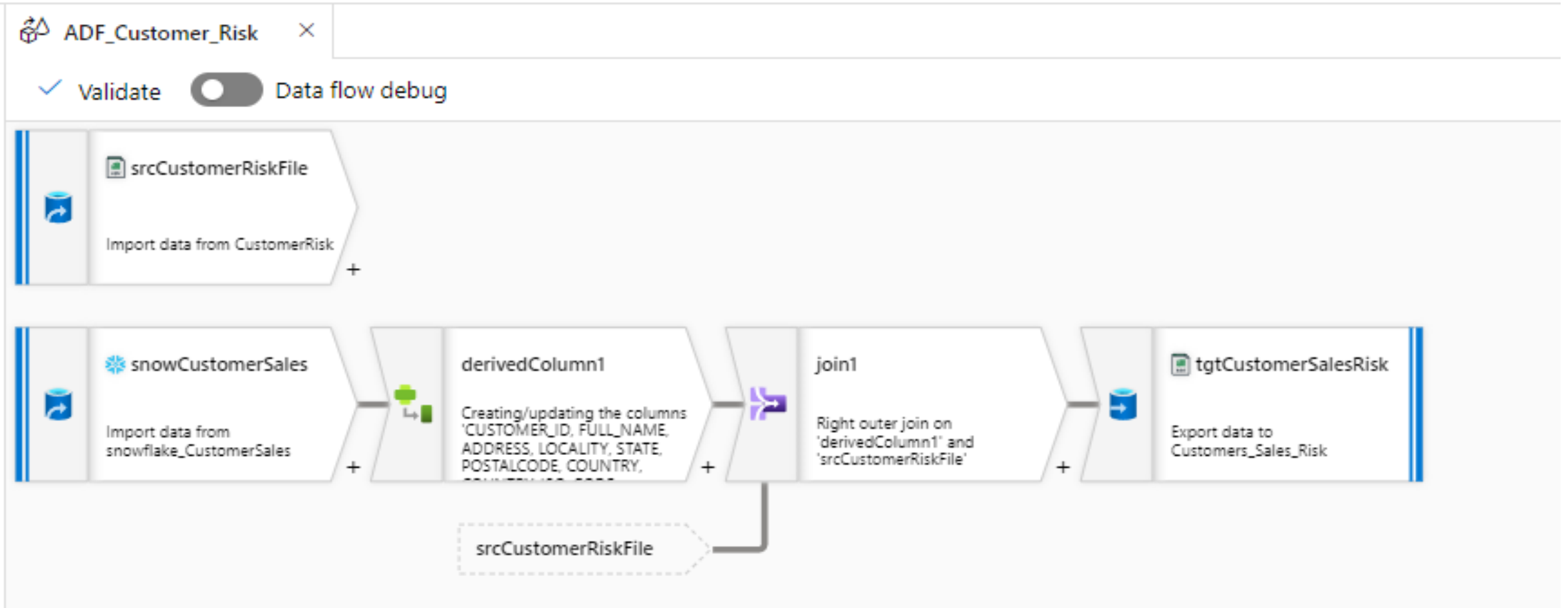
Sales



Risk









Domain RISK – MS Azure



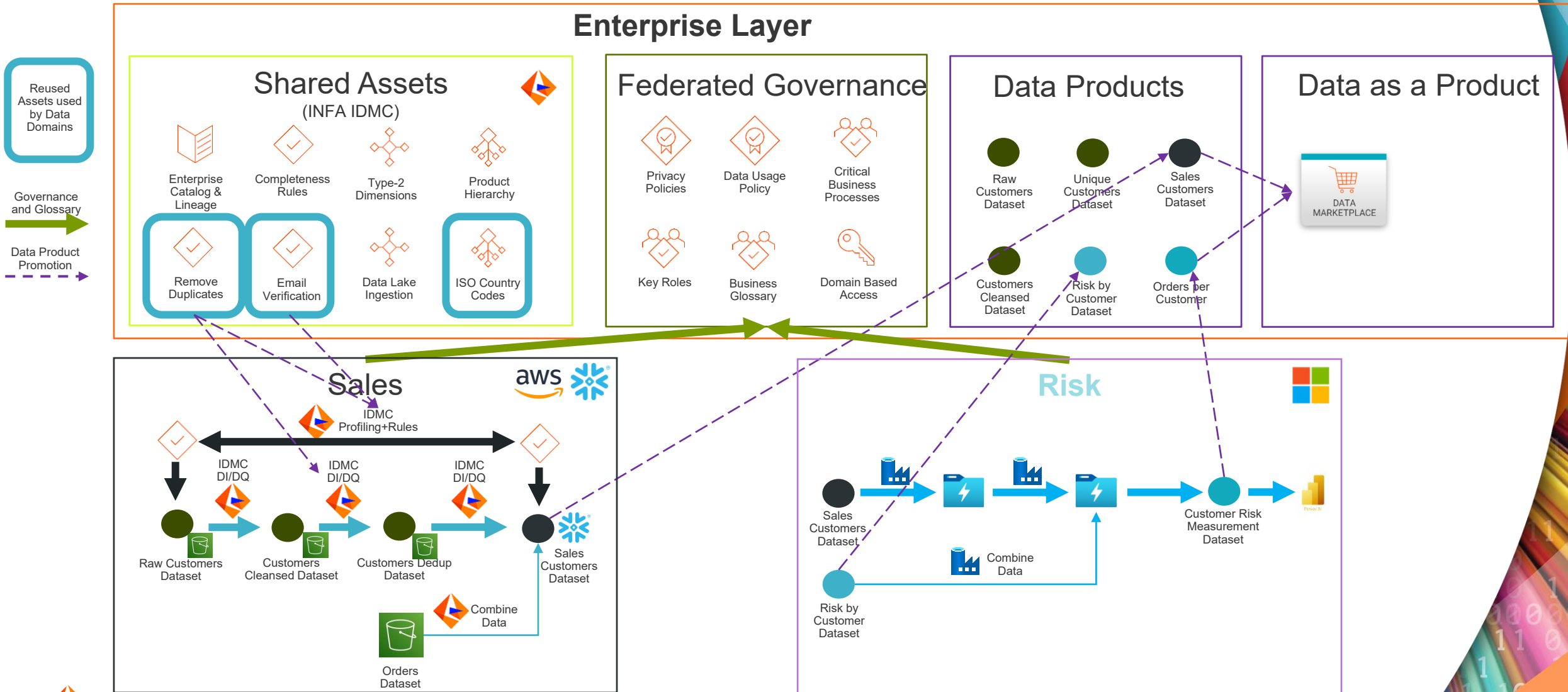
Domain RISK – Scanned in MCC

Catalog Sources (6)

Name ↑	Type	Description
 CDW_ADLS_Gen2_Landing	Microsoft Azure Data Lake Storage Ge...	
 DataMeshDemo	Informatica Intelligent Cloud Services	
 DataMeshDemo_RiskDomain_ADF	Microsoft Azure Data Factory	Scanner for Azure D...
 Demo_Oracle_scan	Oracle	
 sandbox_CDW_Snowflake	Snowflake	
 sandbox_CDW-S3_connection	Amazon S3	

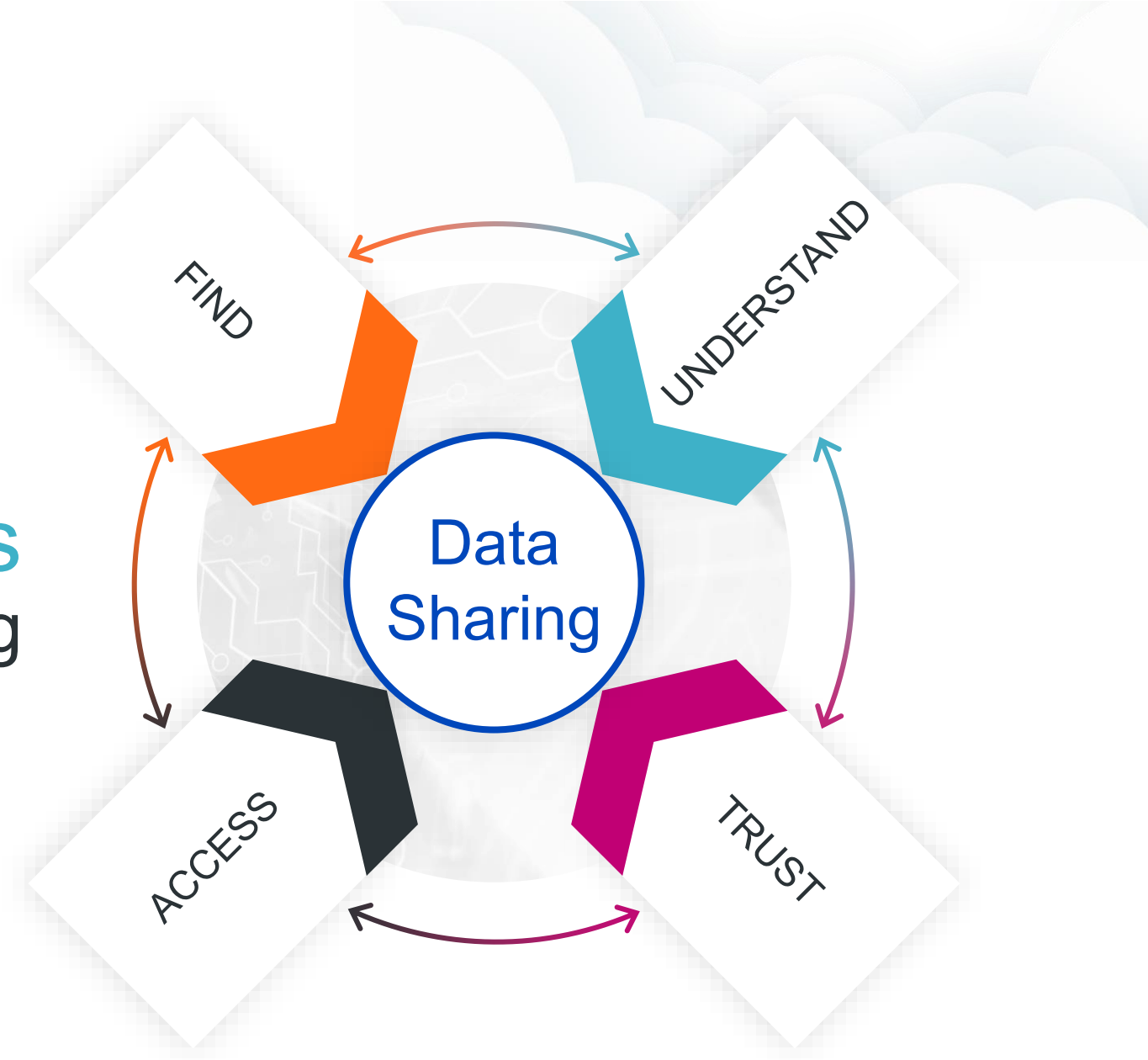
Demo → Go to CDGC

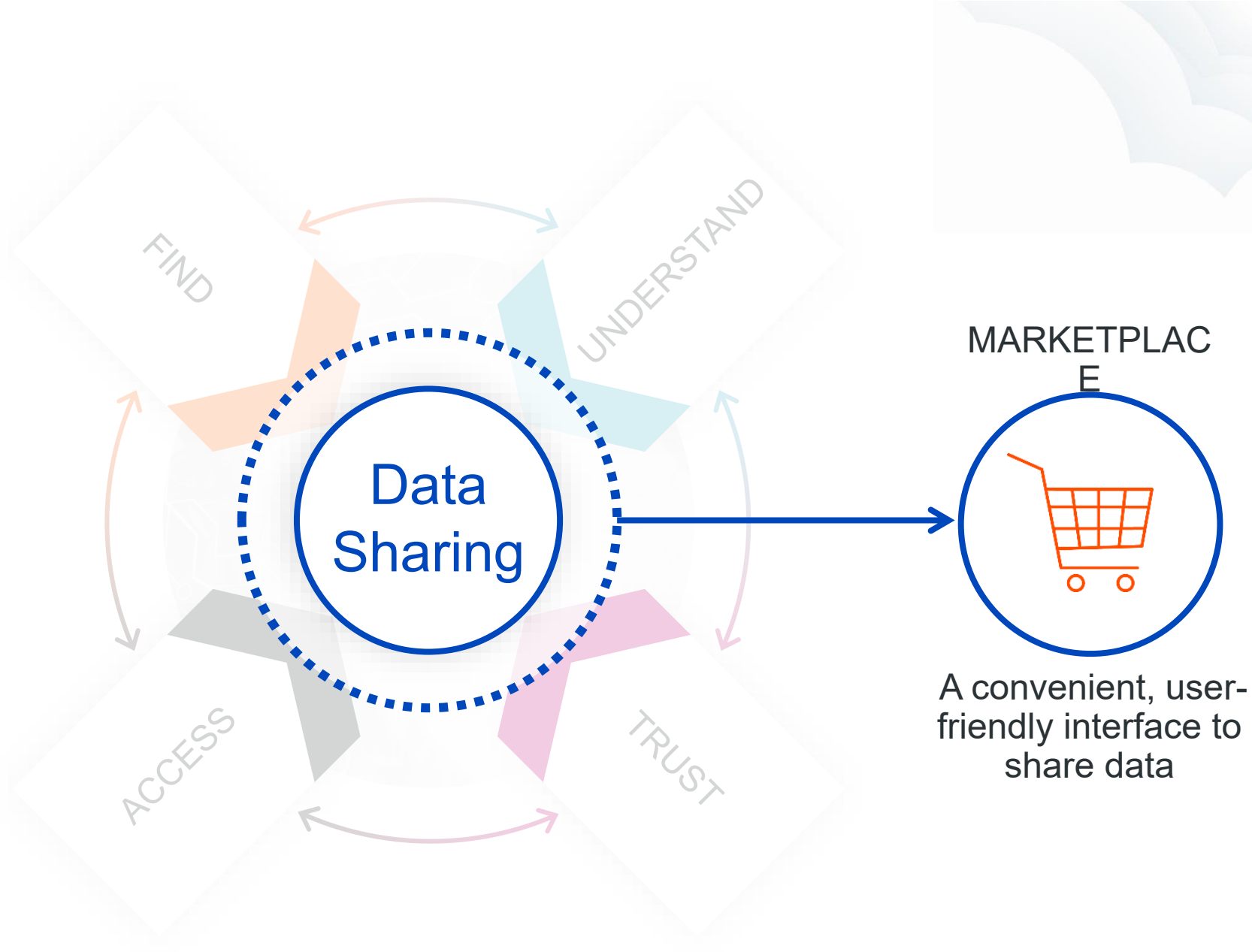
Data Mesh Architecture with Informatica – Our demo



Cloud Data Marketplace(CDMP)

The Four Cornerstones of Successful Data Sharing





DEMO

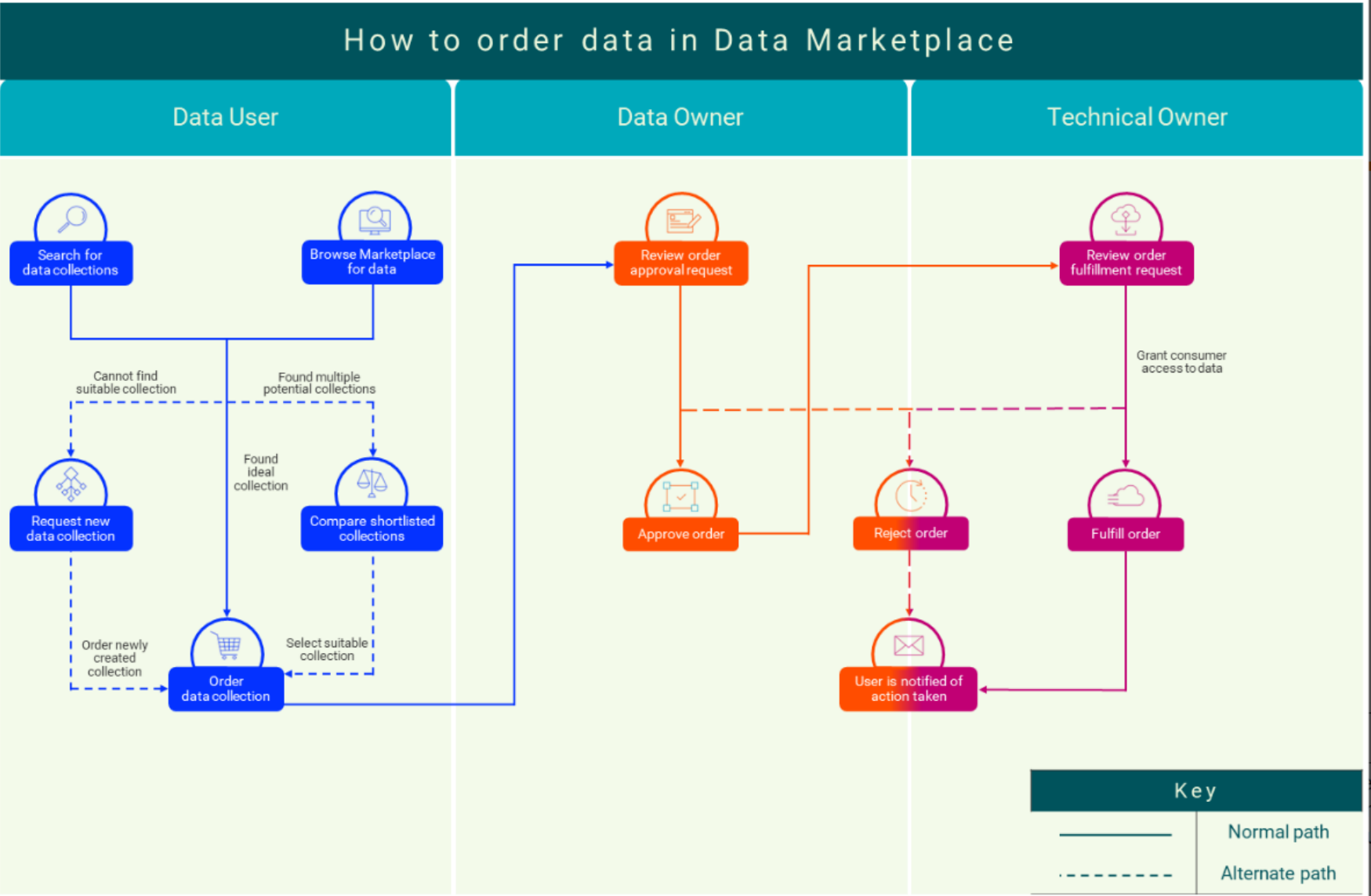


Demo Script

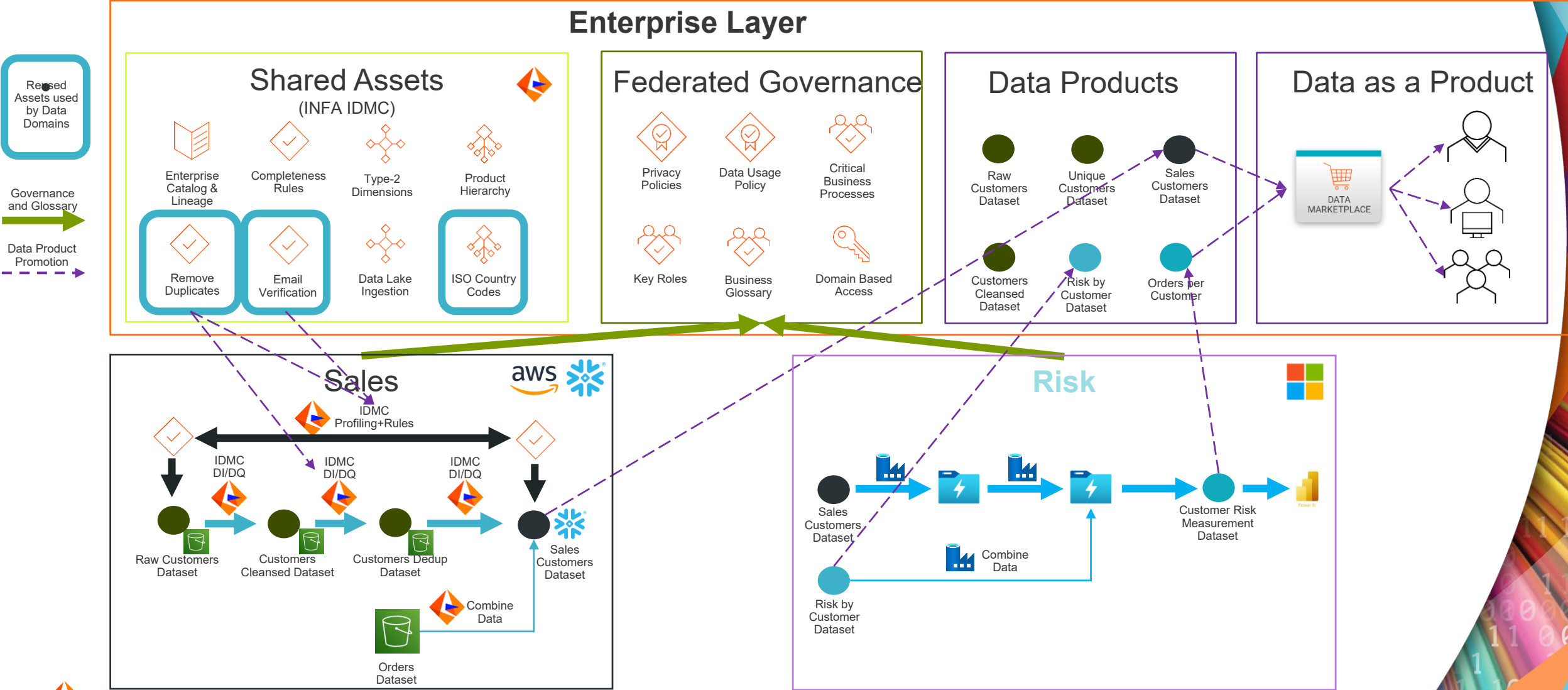


Part 4 – Cloud Data Marketplace

How to order in Data Marketplace



Summary-Data Mesh Implementation using IDMC





Anita & Naveed

Thank You

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