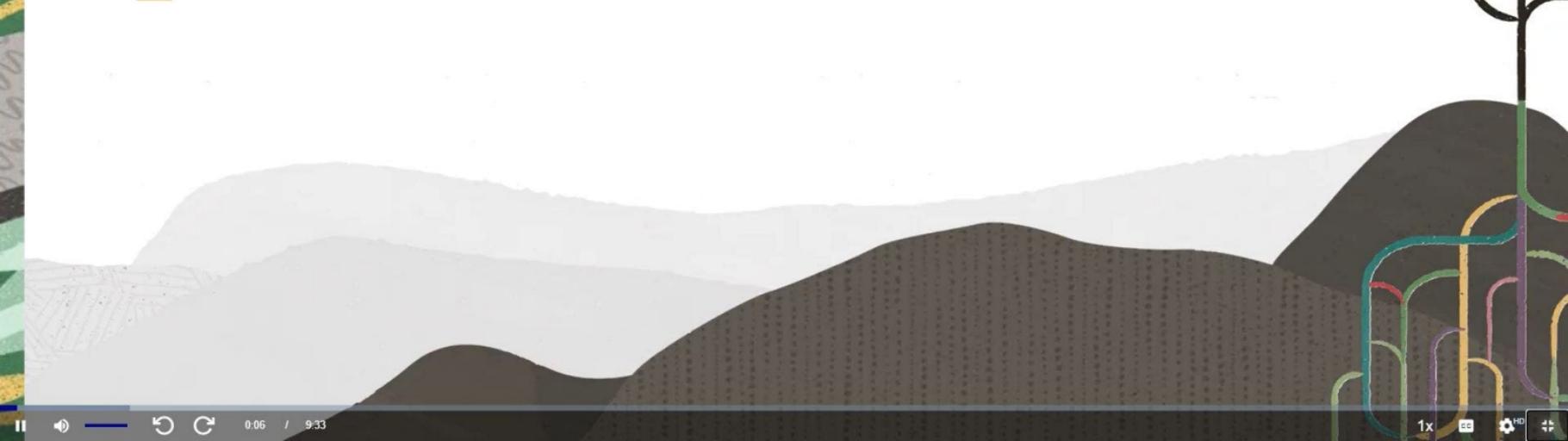




Oracle Cloud Infrastructure

Understanding the Data Lakehouse on OCI



Understanding the Data Lakehouse on OCI

Greg Genovese

ORACLE DATABASE SPECIALIST
ORACLE

Use Case Profiles

How to increase data productivity and liquidity?

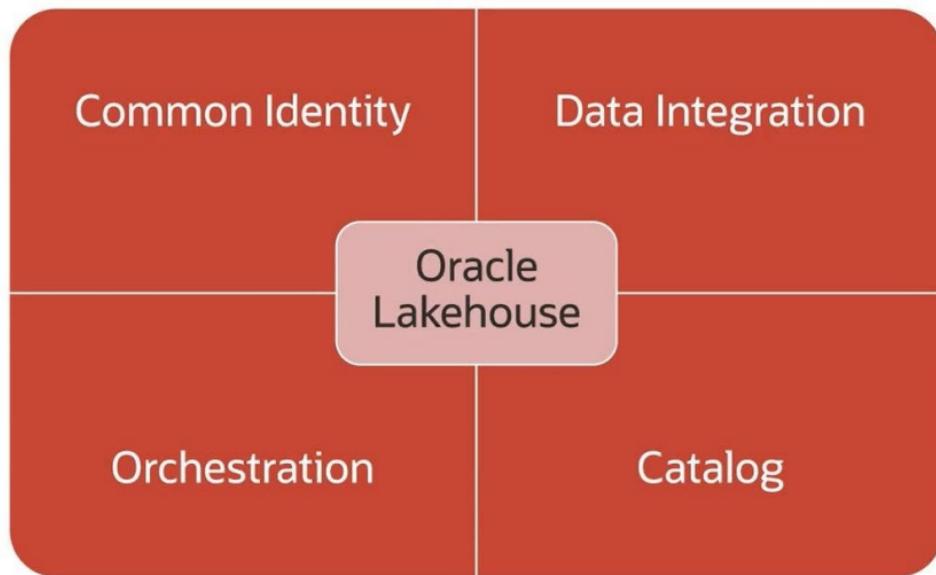
- Data lake & data warehouse

Use Case Profiles

A new broader strategy...

- Highly accurate machine learning capabilities
- Flexibility of Open Source Services
- Best in class Oracle Database and Data warehouse

Use Case Profiles



Oracle Lakehouse

Other Benefits...

- Cost saving
- Improving the agility of data warehouse

Oracle Lakehouse

The companies who have not adopted OCI yet...

- Reach out to data lakes using Oracle SQL

Autonomous
Database



Analytics Cloud



Any SQL App



Jupyter
Notebook



Python



REST

Introducing the Lakehouse



Data
Warehouse



Data Lake



Lakehouse

Include external
3rd party data

Introducing the Lakehouse



Data
Warehouse



Data Lake



Lakehouse

Eliminate the data silos

Five Key Lakehouse Elements



- **Data Warehouse:** For curated data of known value
- **Data Lake:** For data that is raw
- **Managed Open-Source Services:** Support key open-source tools
- **Data Integration:** Moving data depending
- **Data Catalog:** Maintains a complete view data

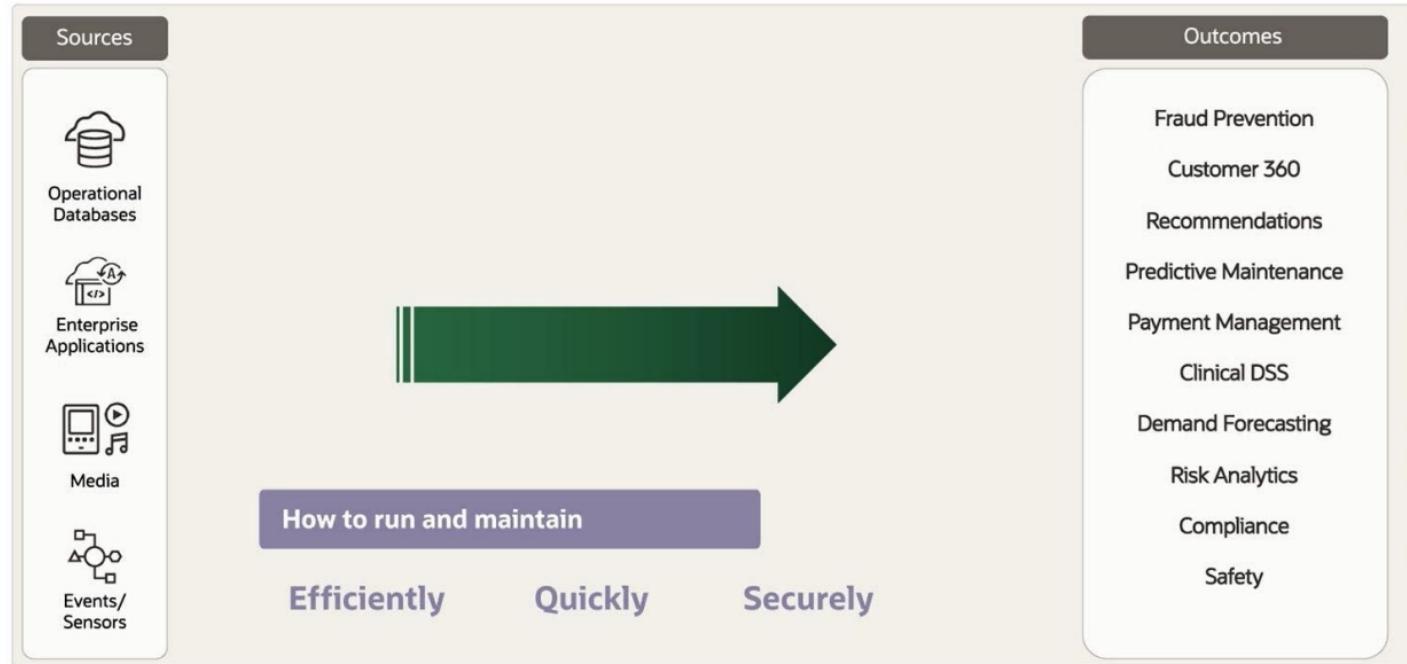
DATA



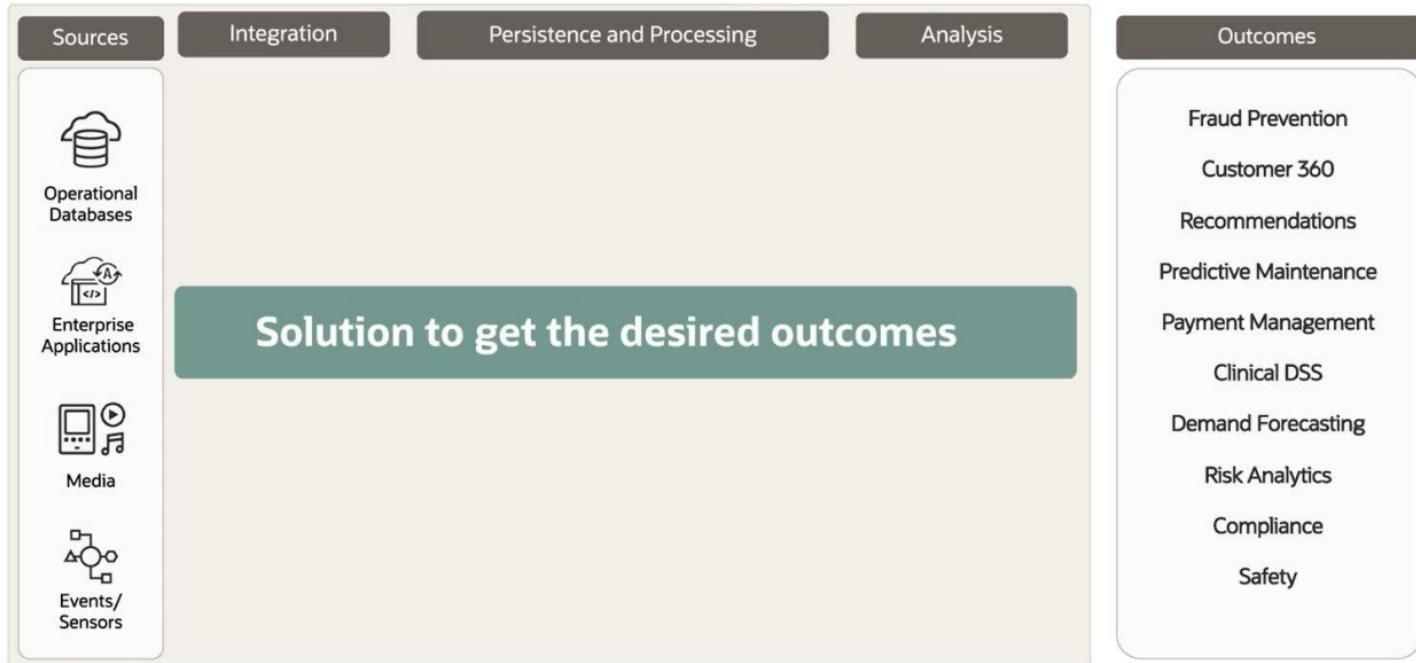
INNOVATE

Easy access to all data

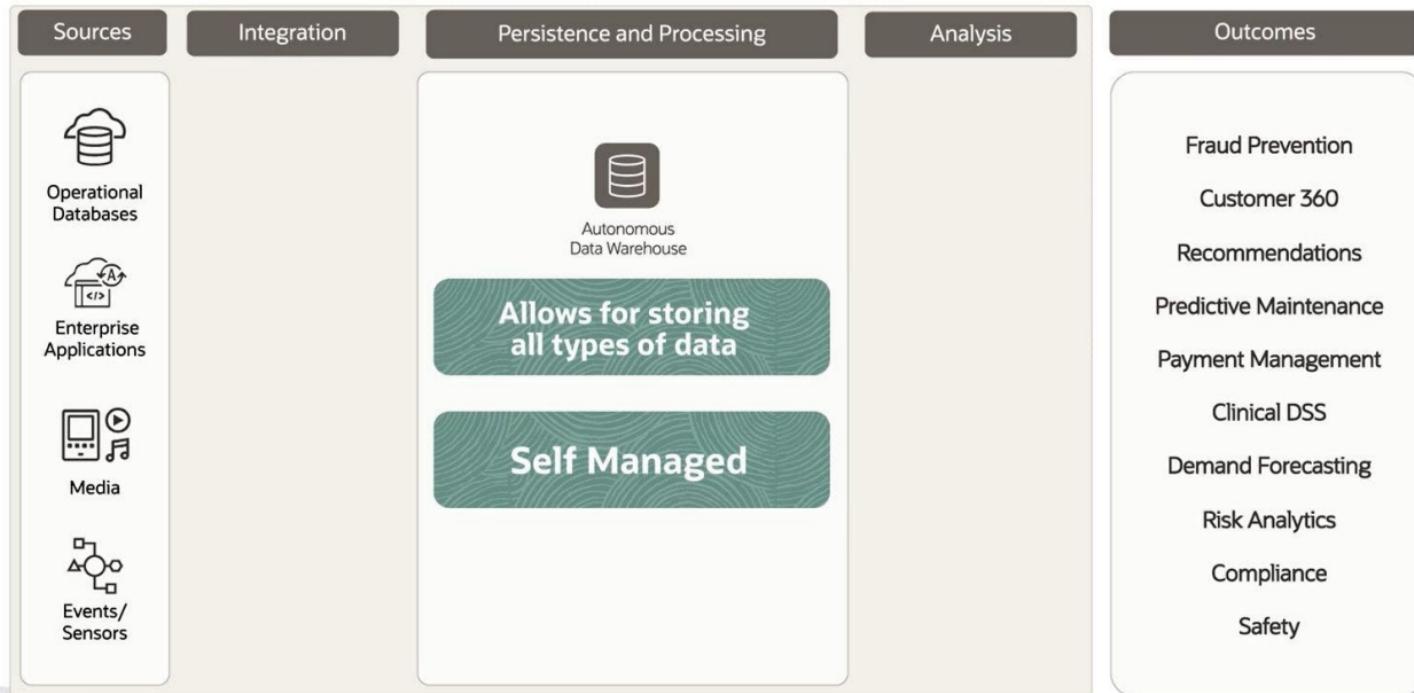
Connecting and Curating Data for Business Outcomes



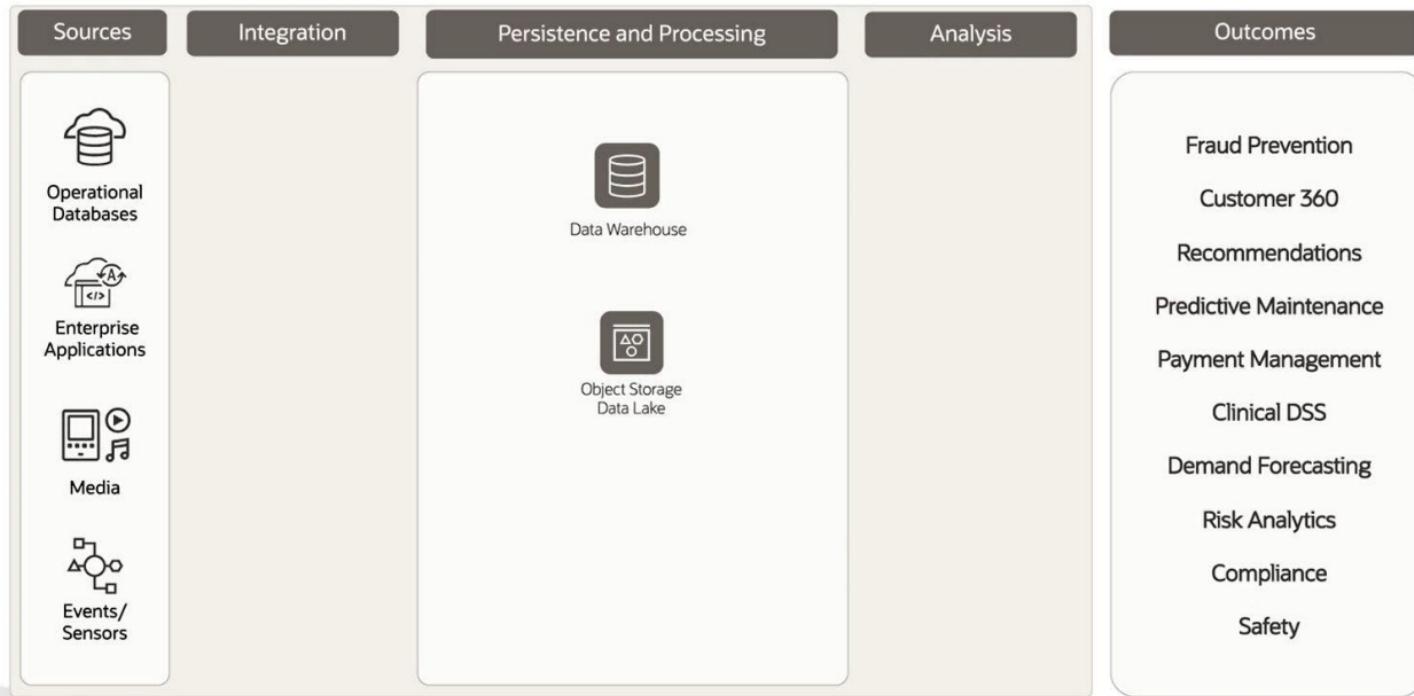
Connecting and Curating Data for Business Outcomes



Data Warehouse for Structured Data

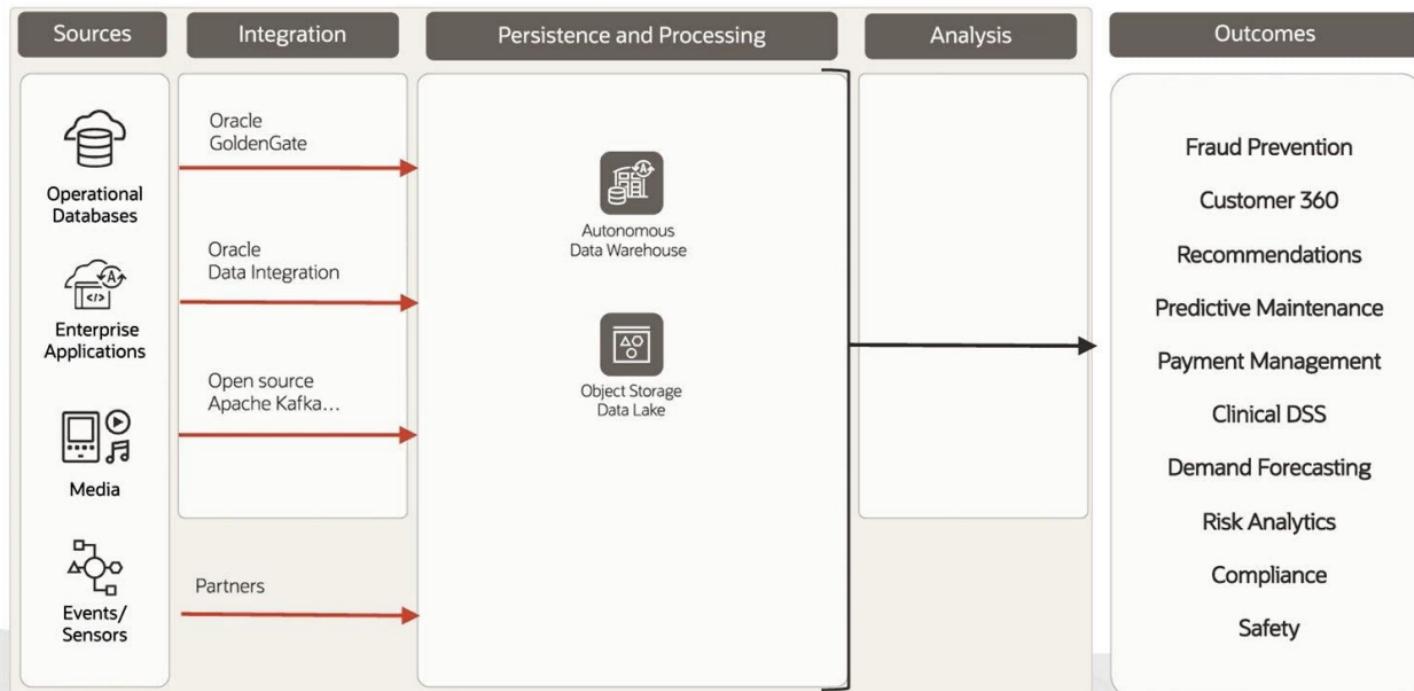


Object Storage for Semi- and Unstructured Data (Data Lake)



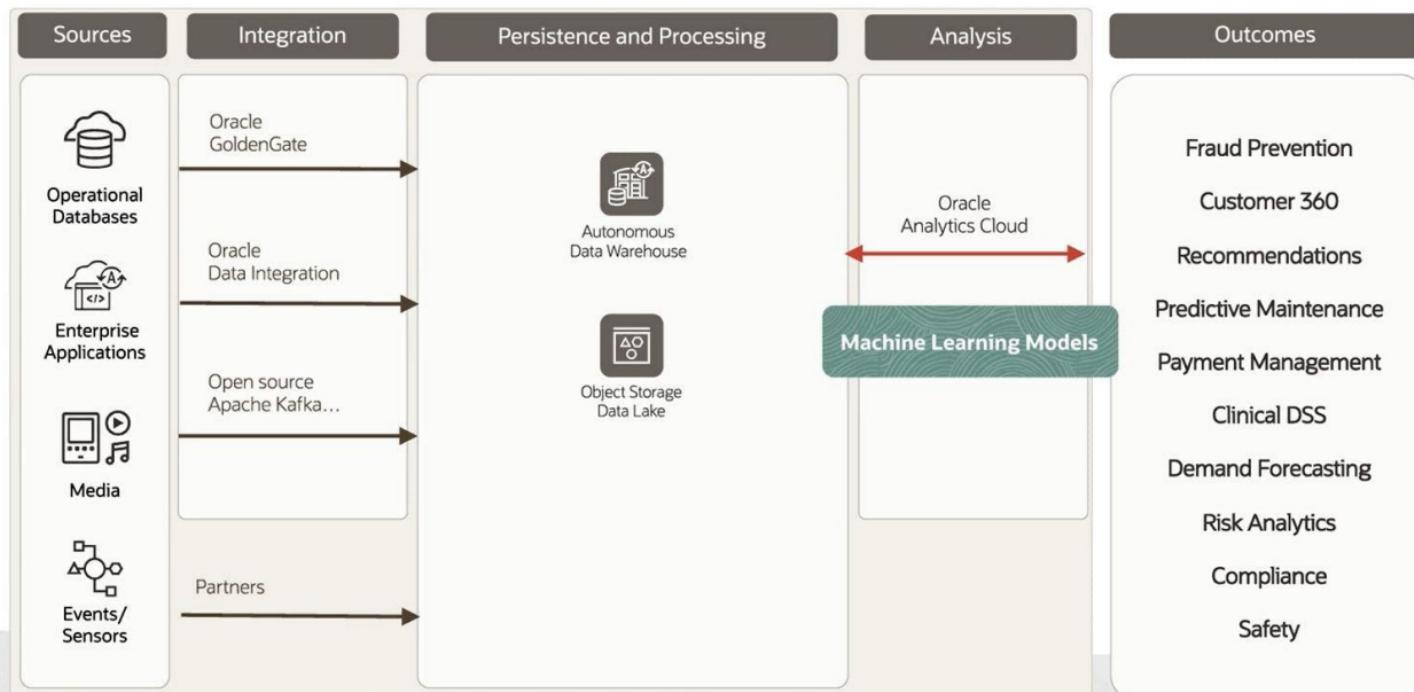
Data Lakehouse on OCI

Connect with the right integration tools



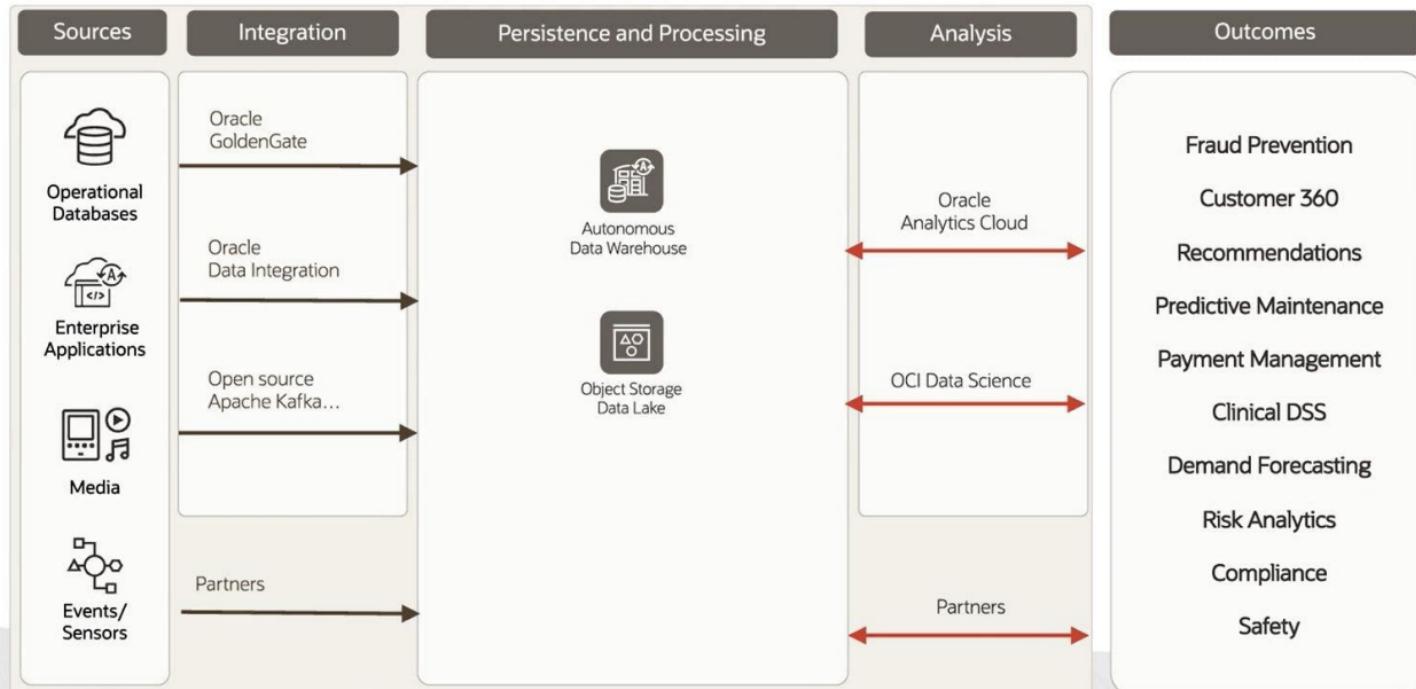
Data Lakehouse on OCI

Analyze and build ML models with the right tools



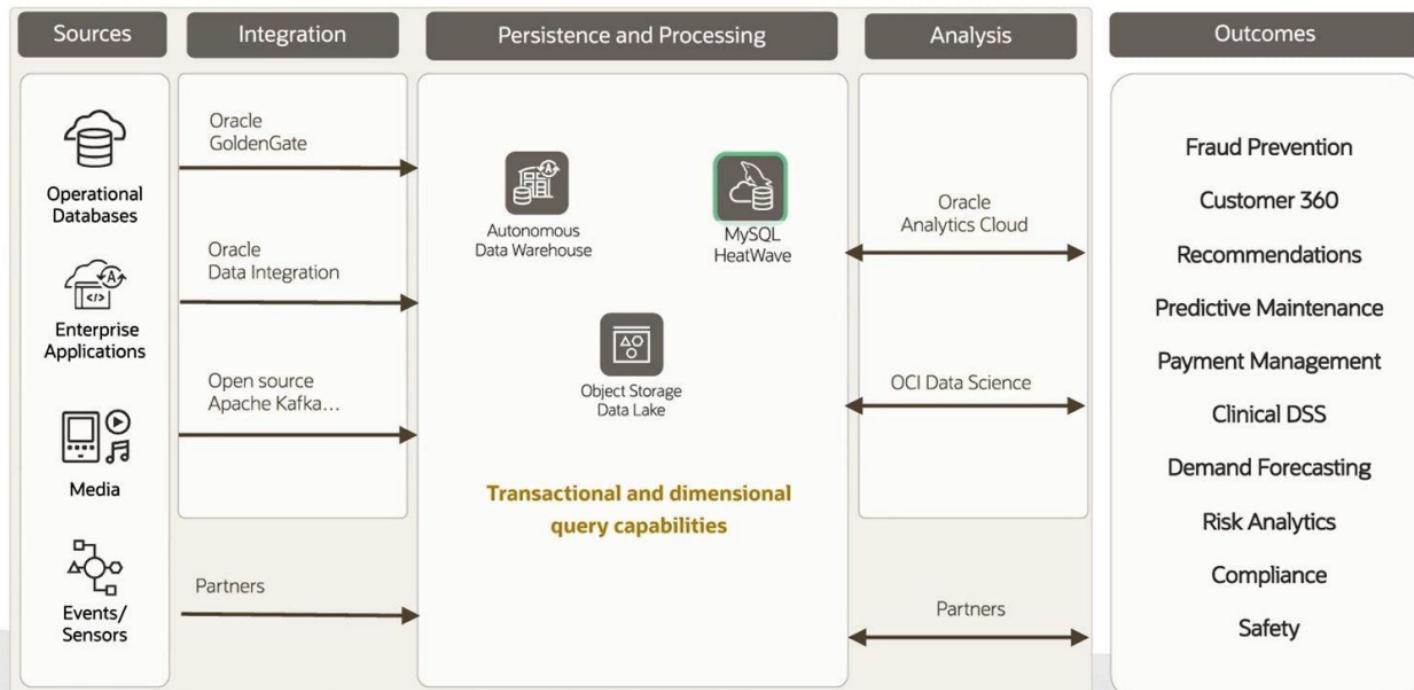
Data Lakehouse on OCI

Analyze and build ML models with the right tools



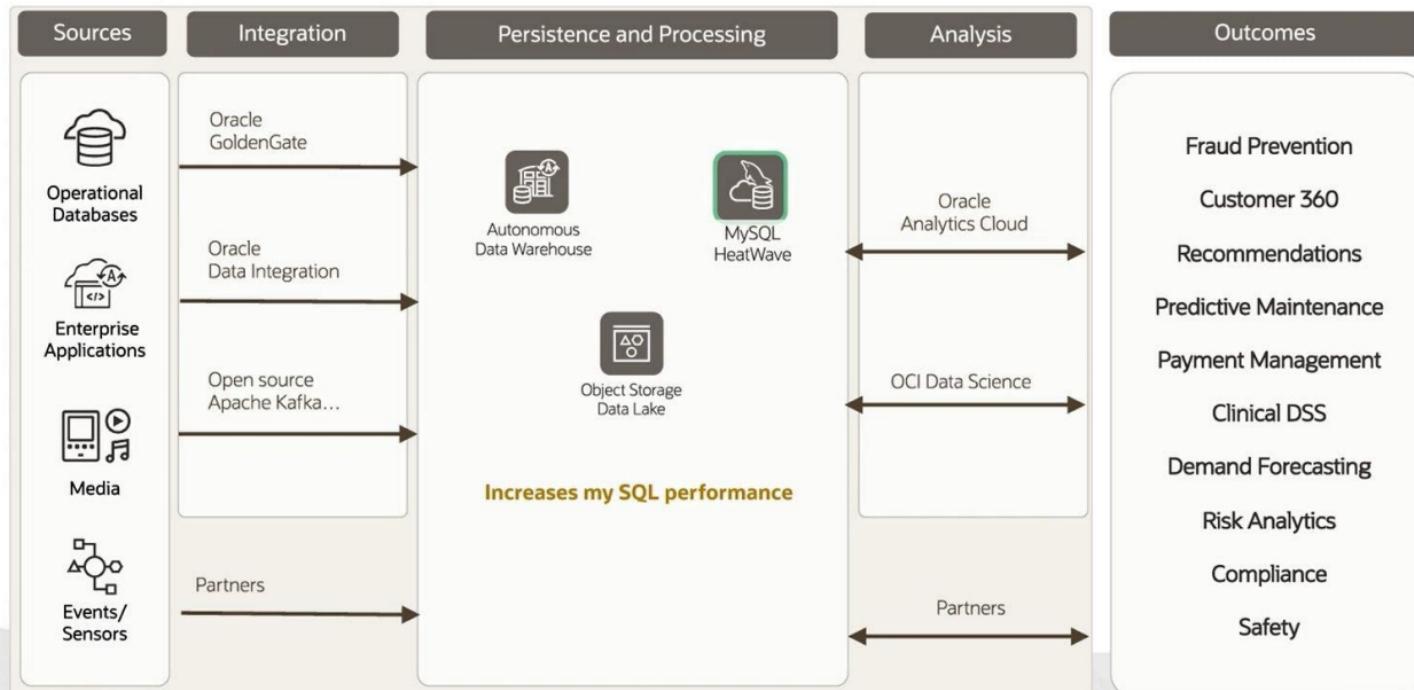
Data Lakehouse on OCI

Announcing HeatWave for analytics in MySQL



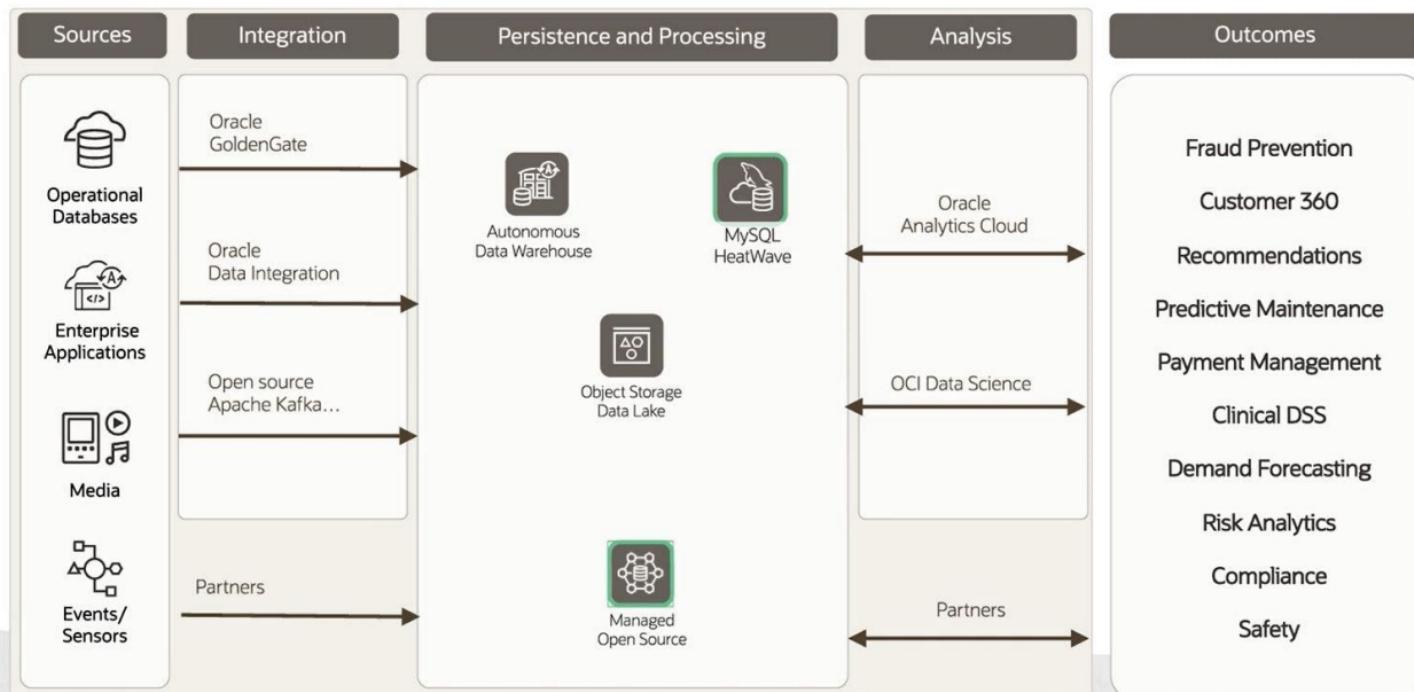
Data Lakehouse on OCI

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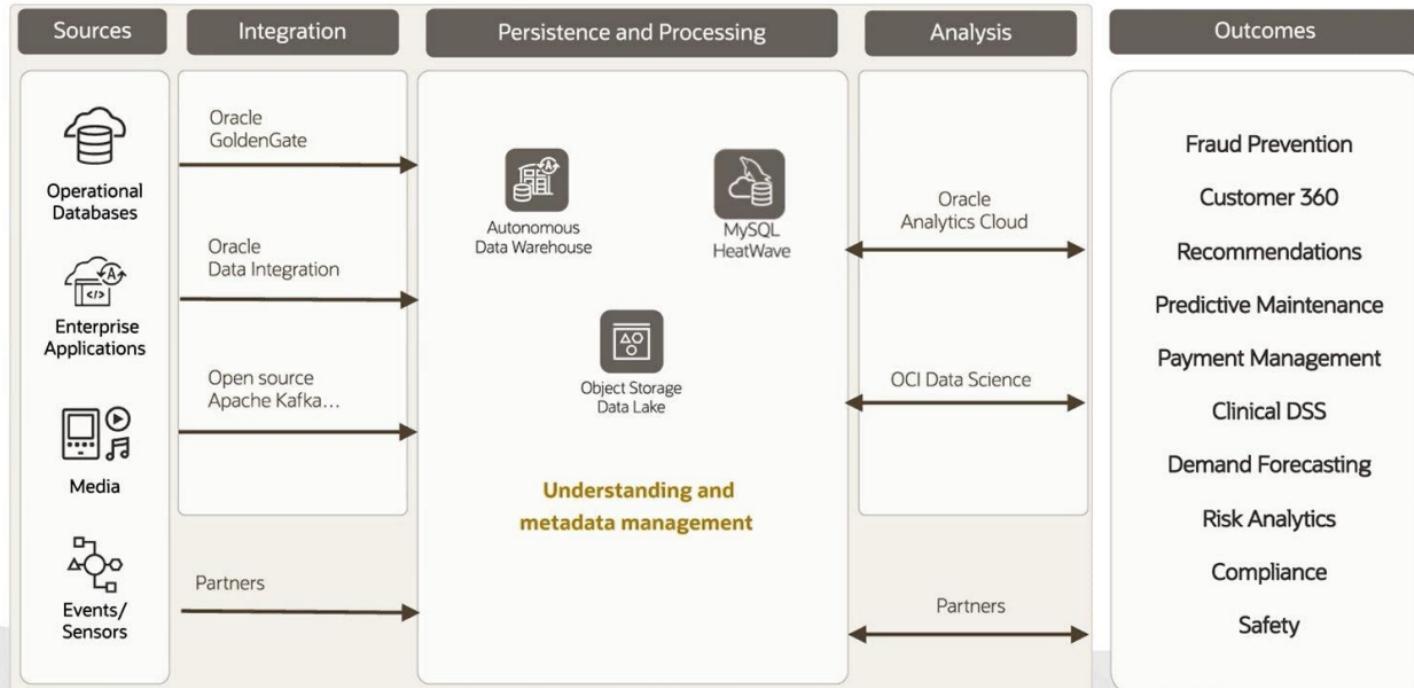
Data Lakehouse on OCI

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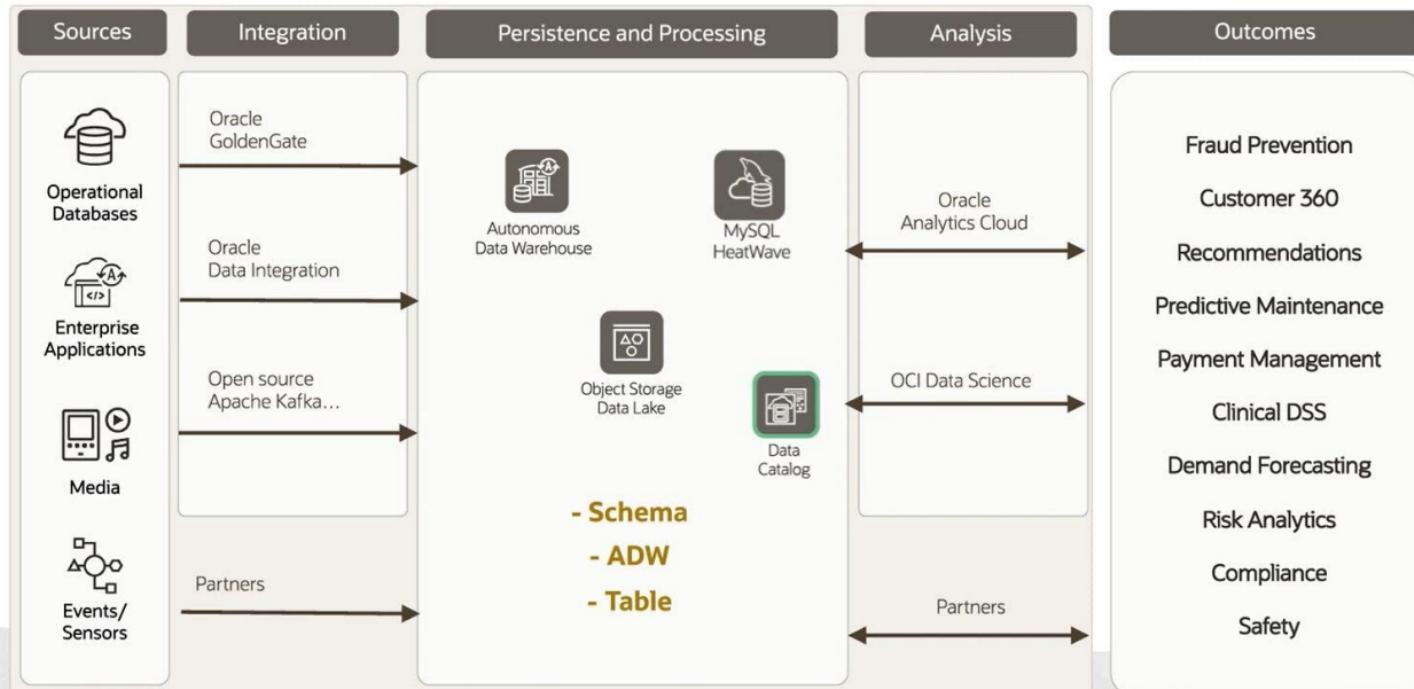
Data Lakehouse on OCI

Data Catalog for metadata management



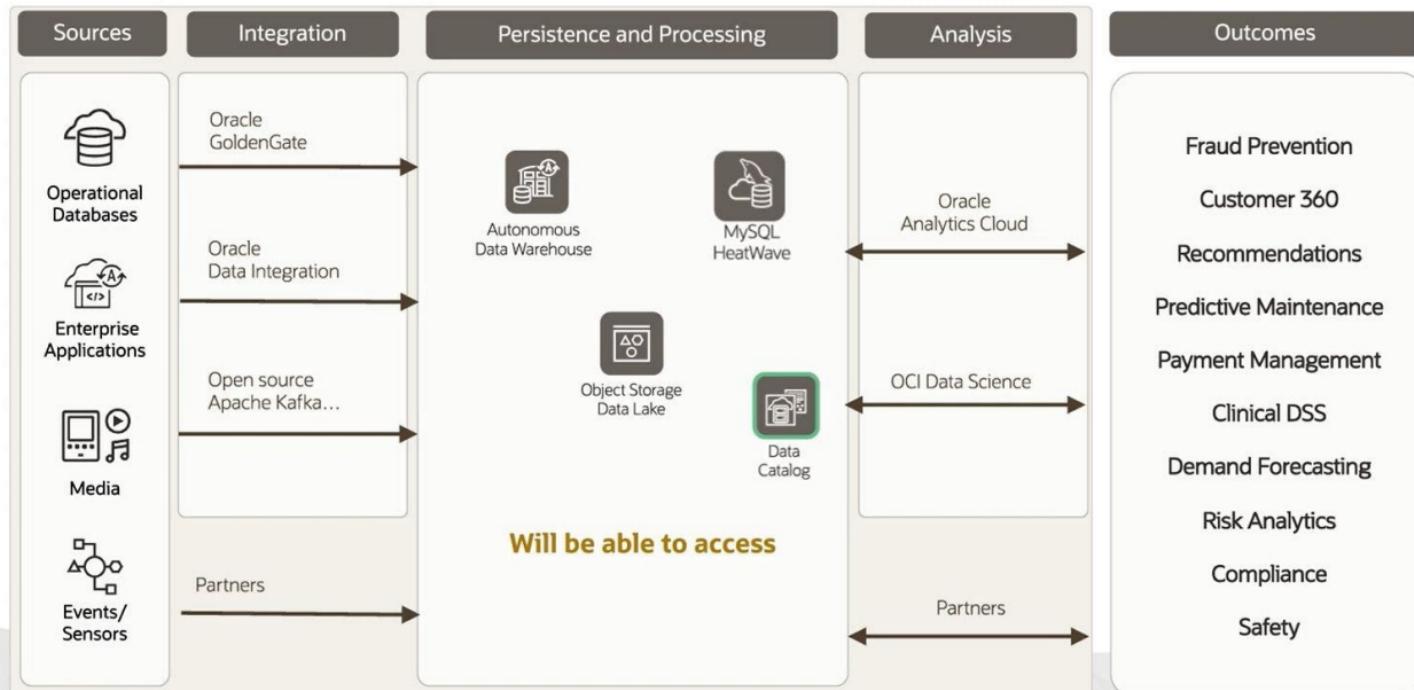
Data Lakehouse on OCI

Data Catalog for metadata management



Data Lakehouse on OCI

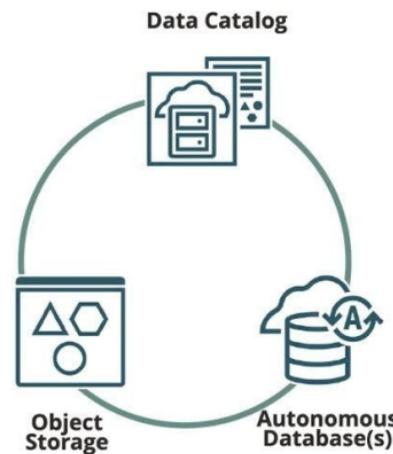
Data Catalog for metadata management



Data Catalog Integrates with Autonomous Database

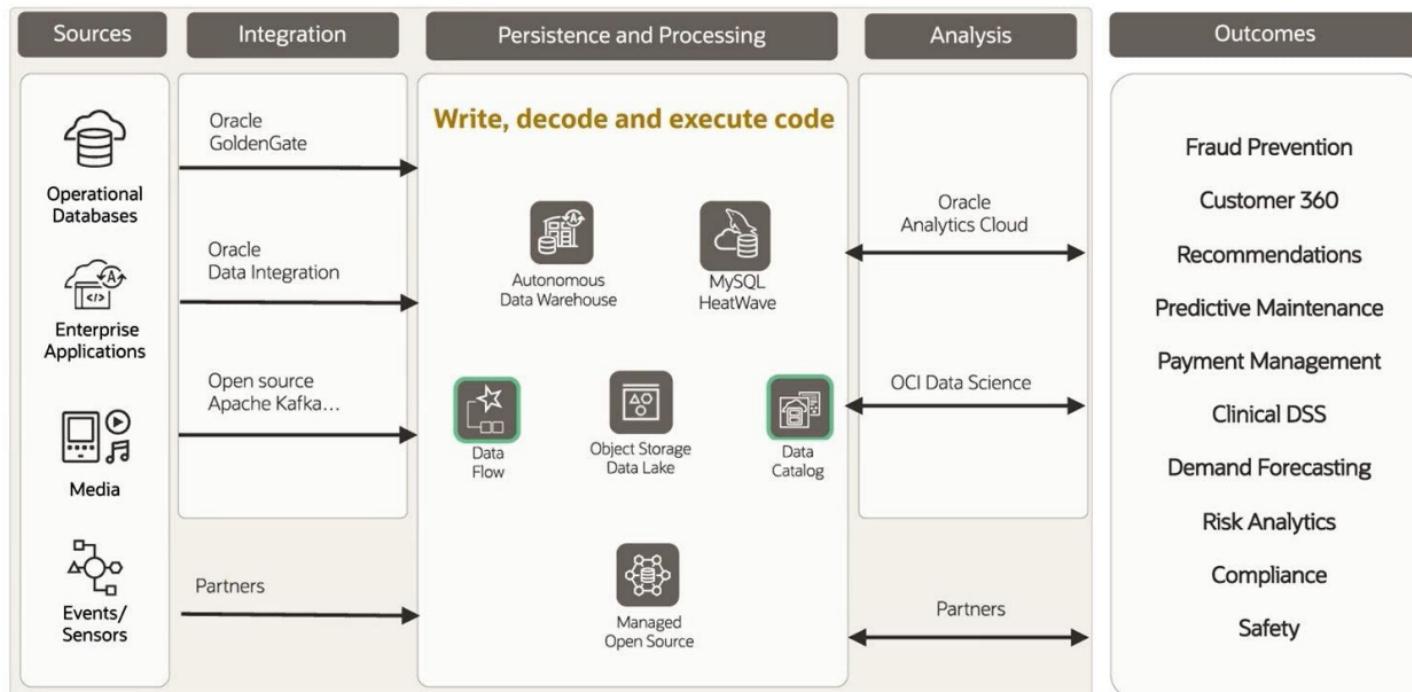
Autonomous Database both a Data Catalog source and consumer

- Data Catalog is the source of truth for Object Store metadata.
 - Harvest object storage to derive schemas
 - Manage business glossary, terms, and tags
 - Discover data using powerful search



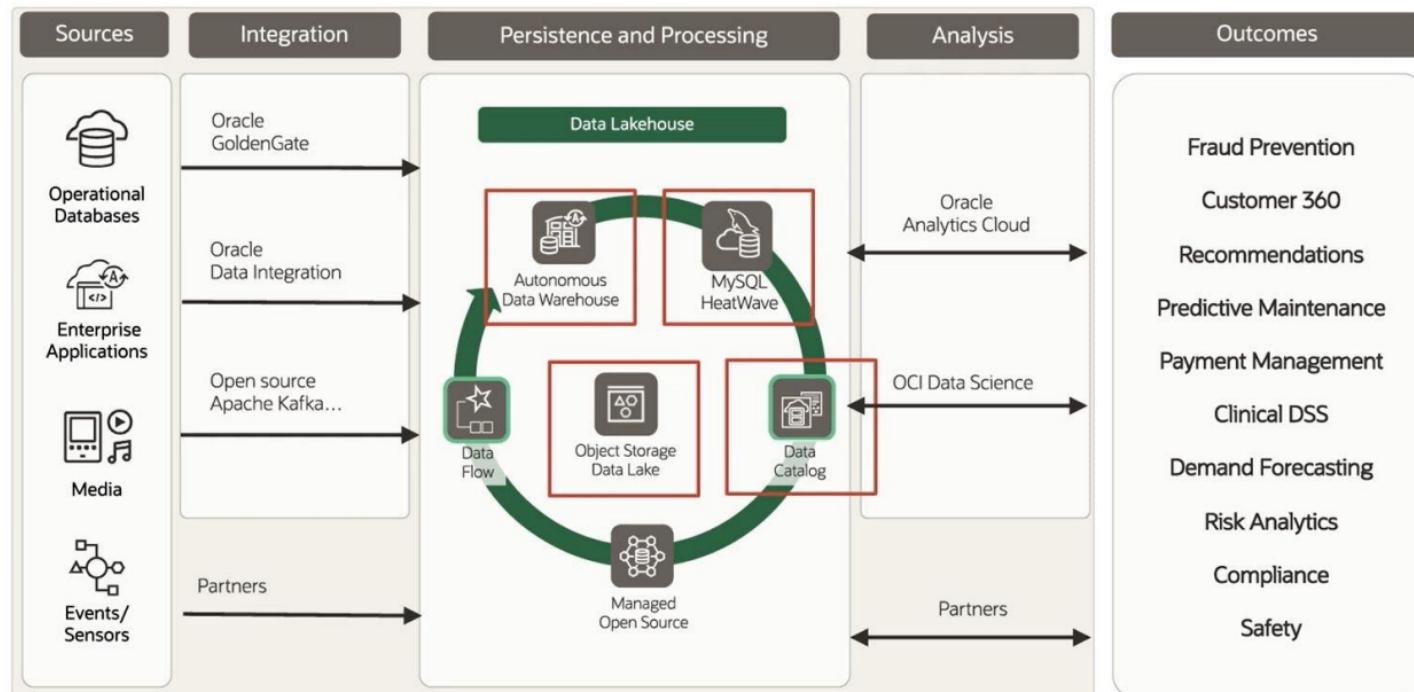
Data Lakehouse on OCI

New serverless Spark processing: Data Flow



Data Lakehouse on OCI

Automated, integrated, and secure for **faster insights from all data**

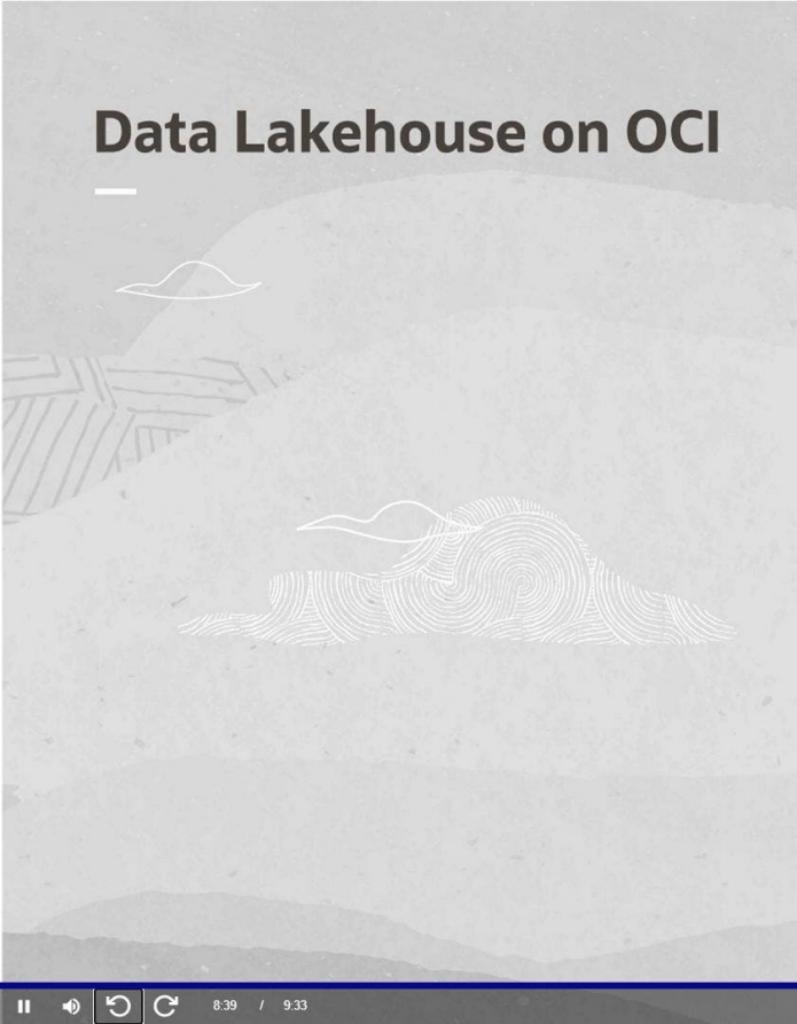


Data Lakehouse on OCI

Open and collaborative approach

Stores all data

Accelerate solution development





Data Lakehouse in Action

- Can get started easily
- Accelerate your own lakehouse transformation

Data Lakehouse on OCI

- Transforming data into profitable business
- Bring all of the data together

Every data warehouse becomes a lakehouse

