



Data Deep Dive
at AI World

Real-time AI Stack

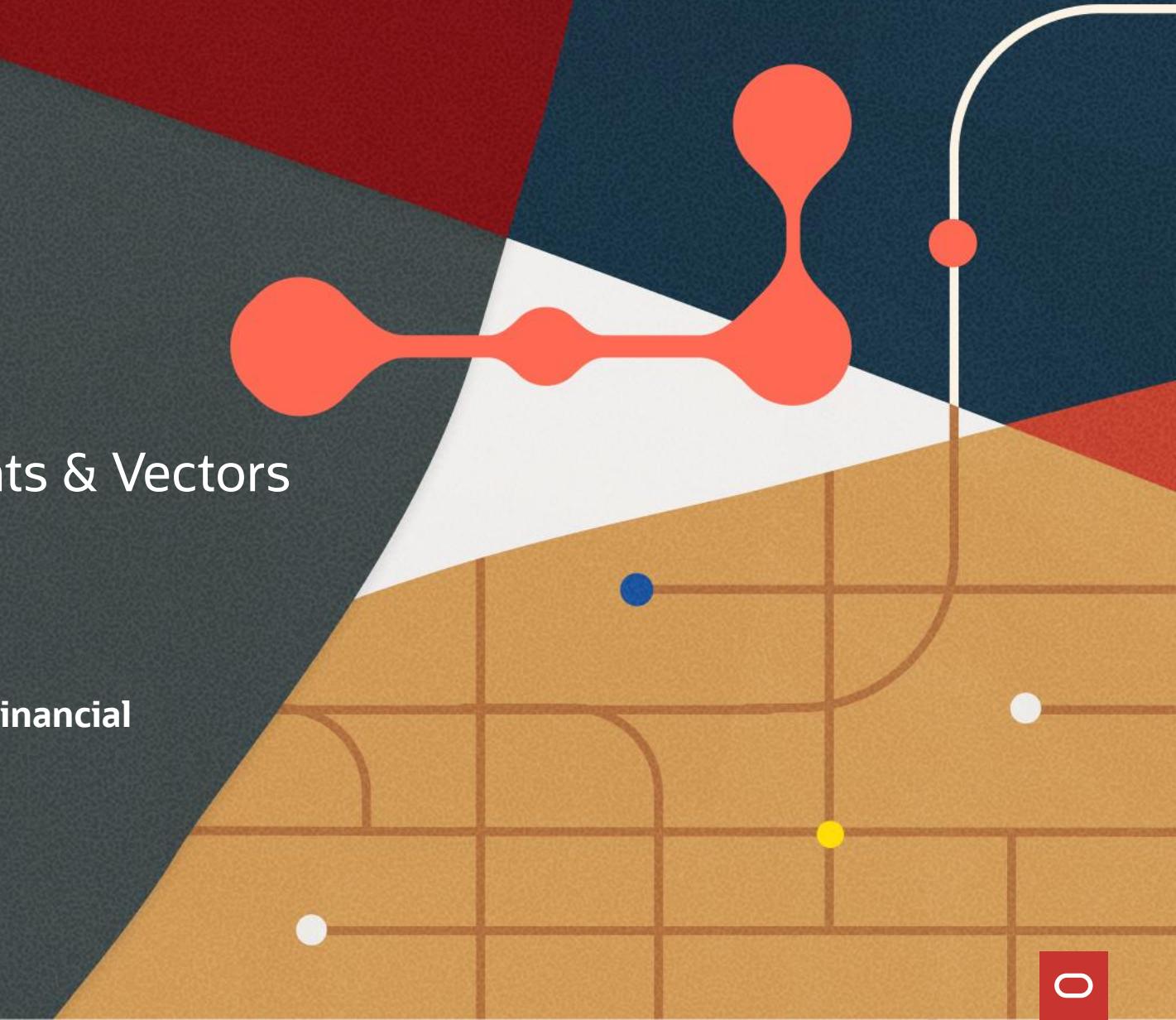
Streaming with GoldenGate, Agents & Vectors

Jeff Pollock, VP Product, Oracle

Denis Gray, VP Product, Oracle

Marty Stogsdill, Data Product Owner, Discover Financial

October 2025

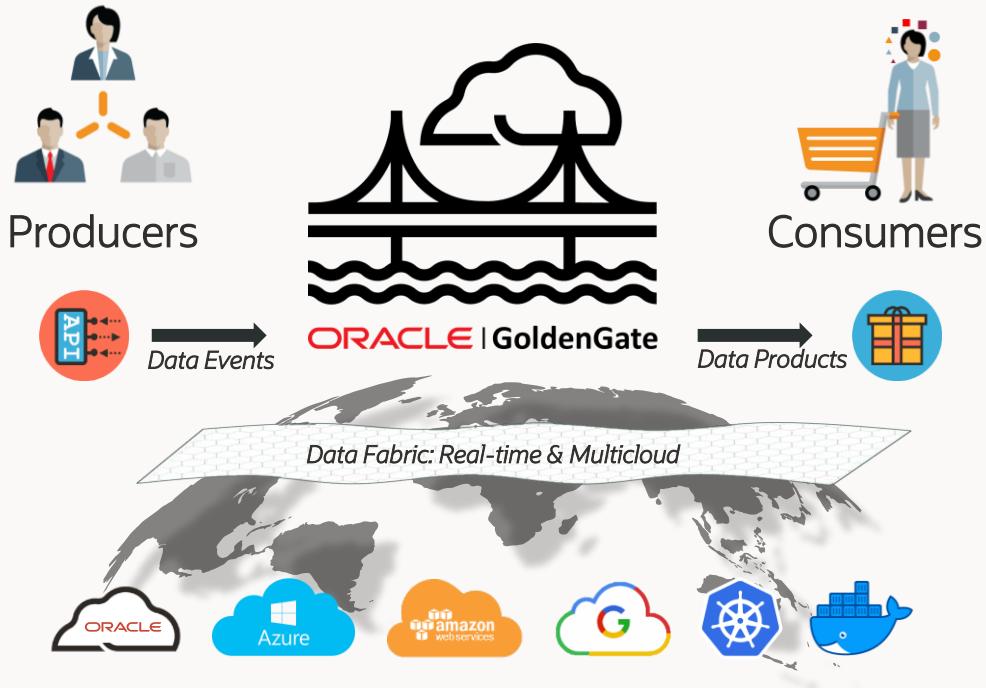


Safe harbor statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.



ORACLE GoldenGate



Connect data consumers to data products in real-time, across a multicloud data fabric with the highest trust, consistency and security.

#1 in Real-time Data

Runs everywhere

Trusted, mission-critical

Best for Oracle + 3rd party

AI-ready data from Fabric



GoldenGate

trusted enterprise standard for Oracle and 3rd party systems

Operational Data Events

Oracle technologies



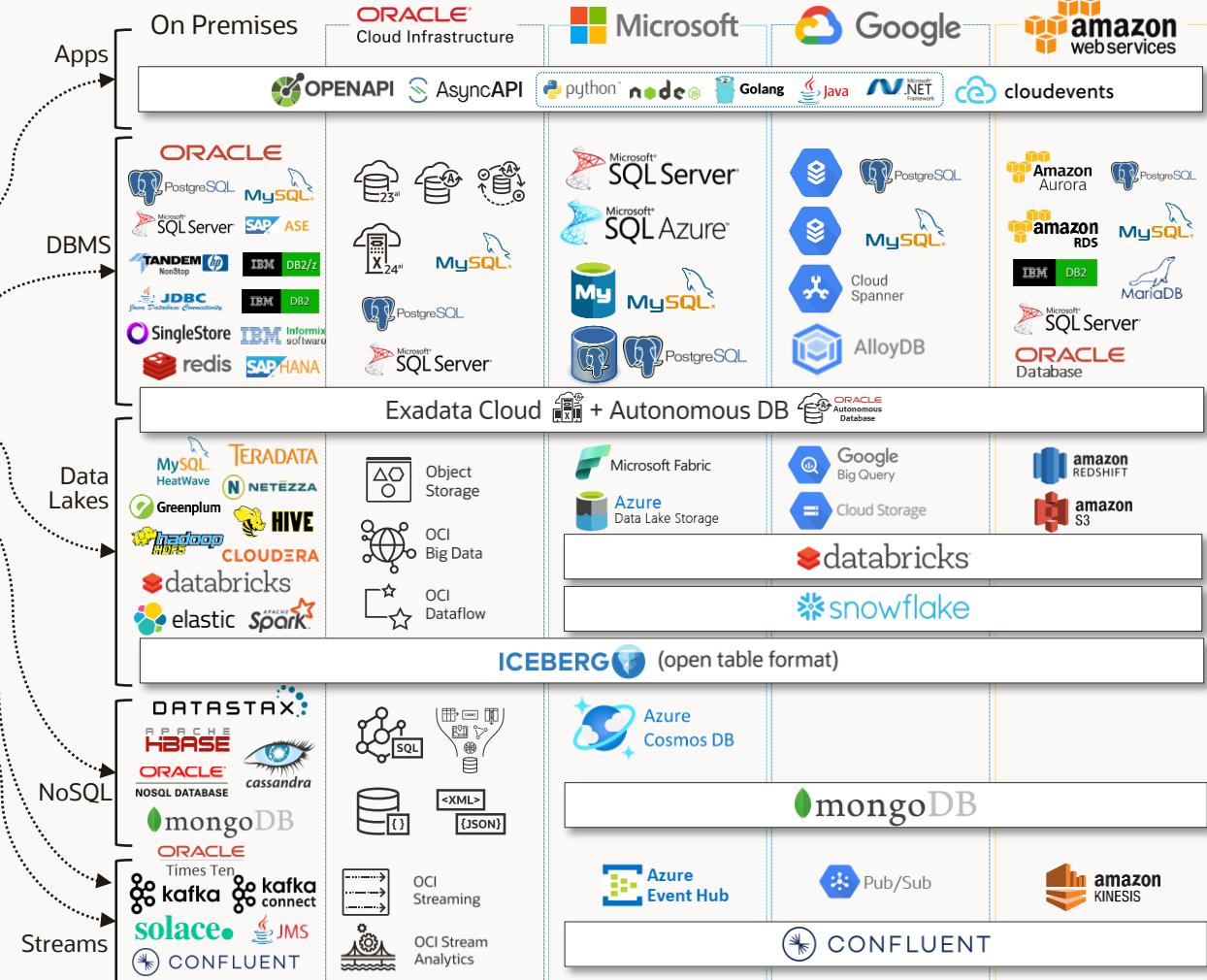
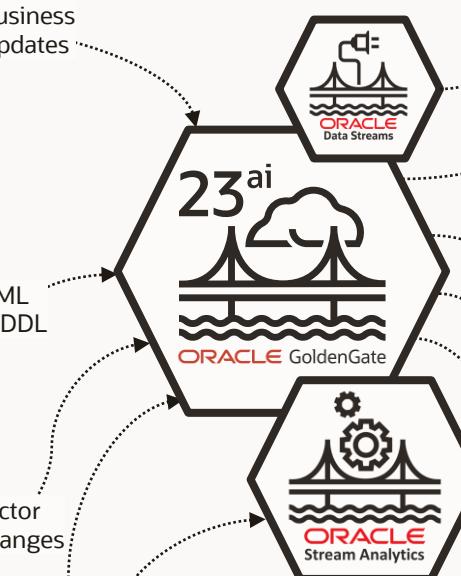
3rd party databases



3rd party vector sources

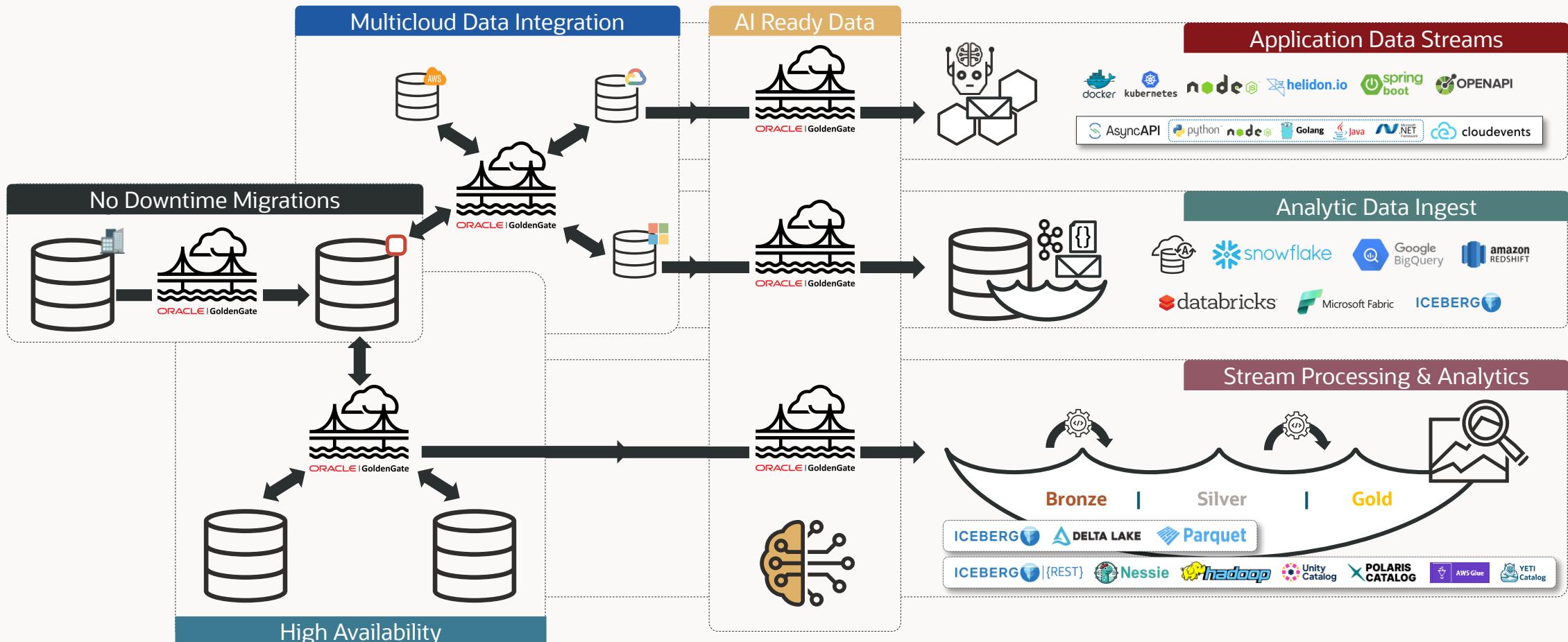


3rd party messaging, NoSQL

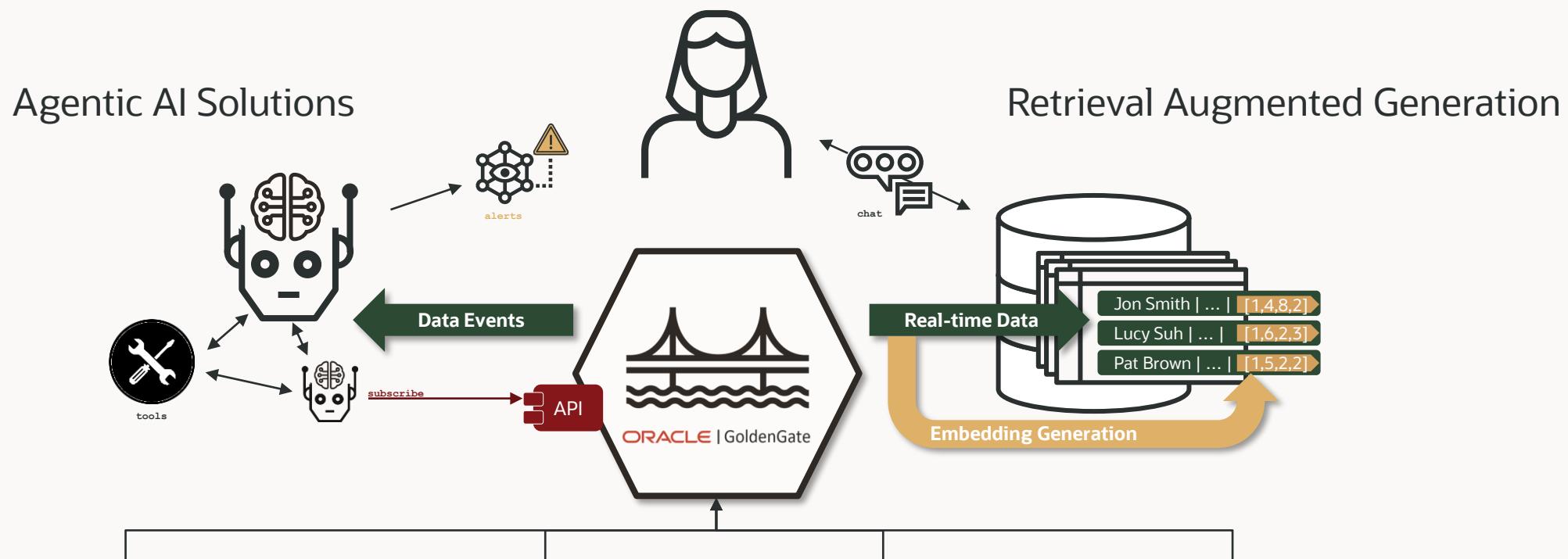


ORACLE GoldenGate

top 7 use case solutions



AI-ready Data with GoldenGate 23ai



Oracle technologies

ORACLE Cerner **ORACLE** Fusion Cloud **ORACLE** Hospitality
ORACLE Retail **ORACLE** Micros **ORACLE** Transportation
ORACLE JD Edwards **ORACLE** Siebel **ORACLE** E-Business Suite
ORACLE Database **ORACLE** Exadata MySQL

3rd party databases

IBM DB2 AWS Azure Microsoft SQL Server
IBM DB2/z PostgreSQL SAP ASE TANDEM NonStop
yugabyteDB EDB Cloud Spanner

3rd party vector sources

PostgreSQL AlloyDB pgvector
Amazon RDS Amazon Aurora

3rd party messaging, NoSQL

mongoDB JMS
DATASTAX CoAP
cassandra kafka connect
splunk MQTT
amazon S3 RabbitMQ elastic
Google Big Query AWS Kinesis
ACTIVEMQ salesforce
Microsoft Fabric amazon DocumentDB

ORACLE

AI World

2025 Announcements for GoldenGate



26ai, major new version

GenAI service built-in

LLM & AutoML in Streams

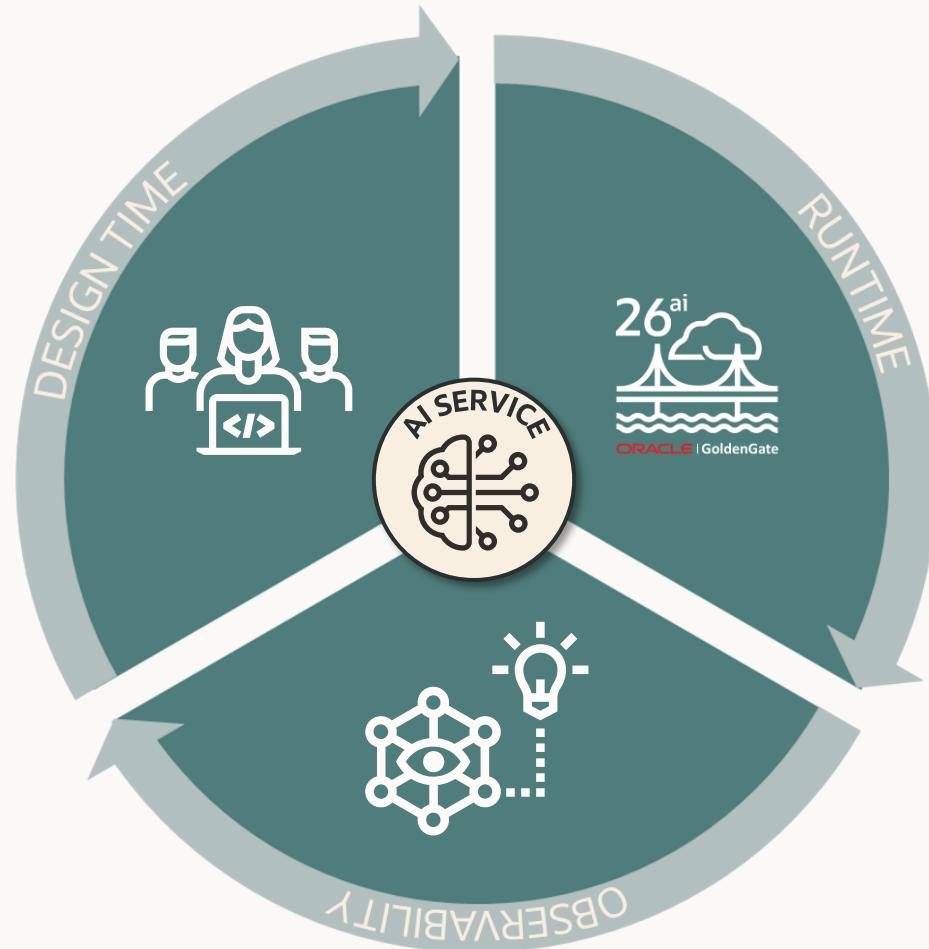
Certified for AI Data Platform
& Autonomous AI Lakehouse

Air-gap data replication

Full container downloads

New learning certifications

ORACLE GoldenGate 26^{ai}



vision for GG AI Services

Runtime for AI-ready data:

- APIs for AI Agents & frameworks
- Vector embeddings to DB Hubs, Data Lakes and Streams
- Change data to AI training models
- LLM for Streaming Pipelines (data enrichment, cleansing, NER/PII etc)
- Auto-tuning GG deployments

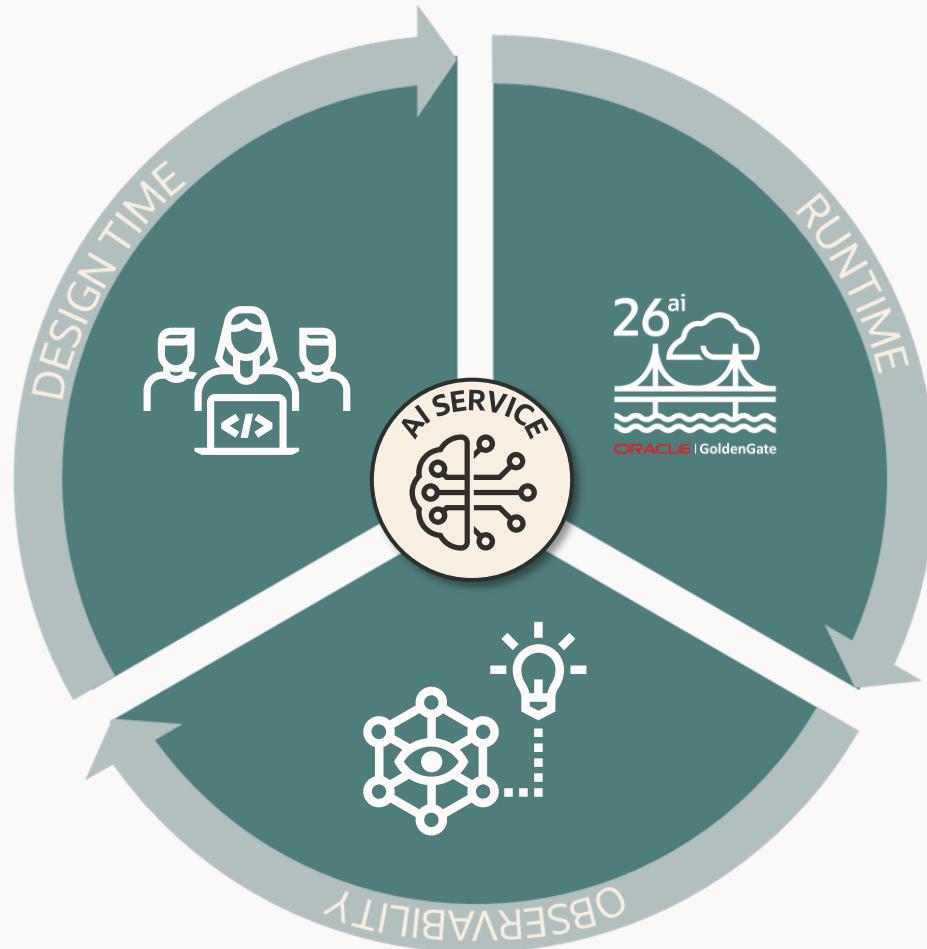
Platform Observability:

- Automated health & triage using GG logs, metrics and traces

Design Time Intelligence:

- Natural language & Low-code
- AI Agent API & DSL interfaces

ORACLE GoldenGate 26^{ai}



benefits of AI in GoldenGate

Solve more problems:

- real-time support for NER, PII, enrichment, automation etc.

Improve productivity, reduce complexity and necessary skills:

- prompt-driven policy declarations for working with data in a stream
- simpler and more intuitive interfaces, APIs, setup and configuration

Improve data security:

- net-new PII automation, LLMs cast a wider net, simpler to implement

Improve data quality:

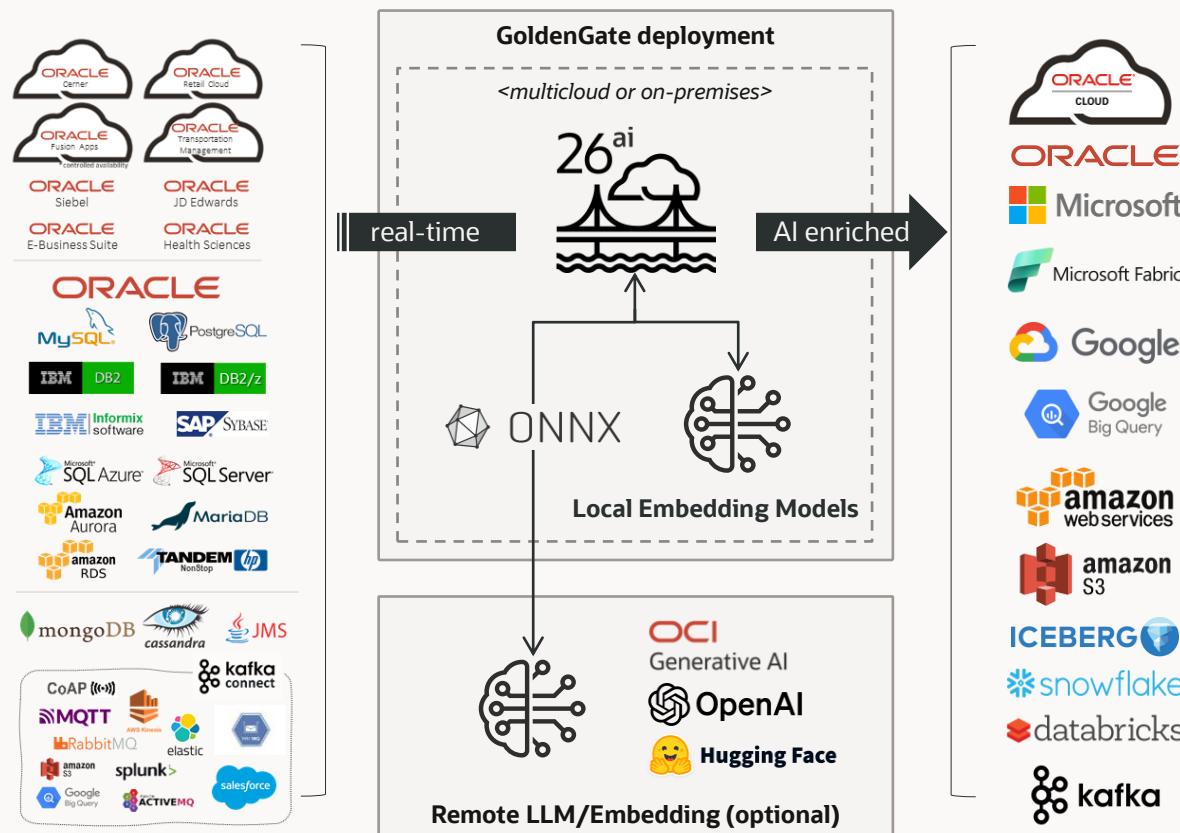
- real-time support for standardization, cleansing and preparation

More value:

- All new AI features at no extra cost

GoldenGate 26ai – AI services overview

New AI Microservice to support AI capabilities within the GoldenGate replication deployments, including embedding generation, data enrichment, agentic interfaces and natural language administration

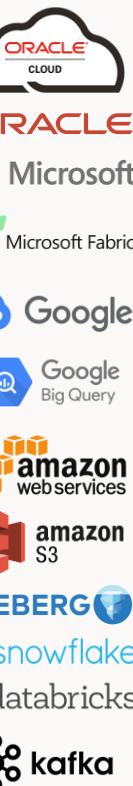


New with GoldenGate 26ai:

- **Embedding generation** – for GoldenGate targets
- **Named-entity** – real-time NER on data events
- **PII identification** – on your real-time transactions
- **Text summarization** – inline to data eventsstreams

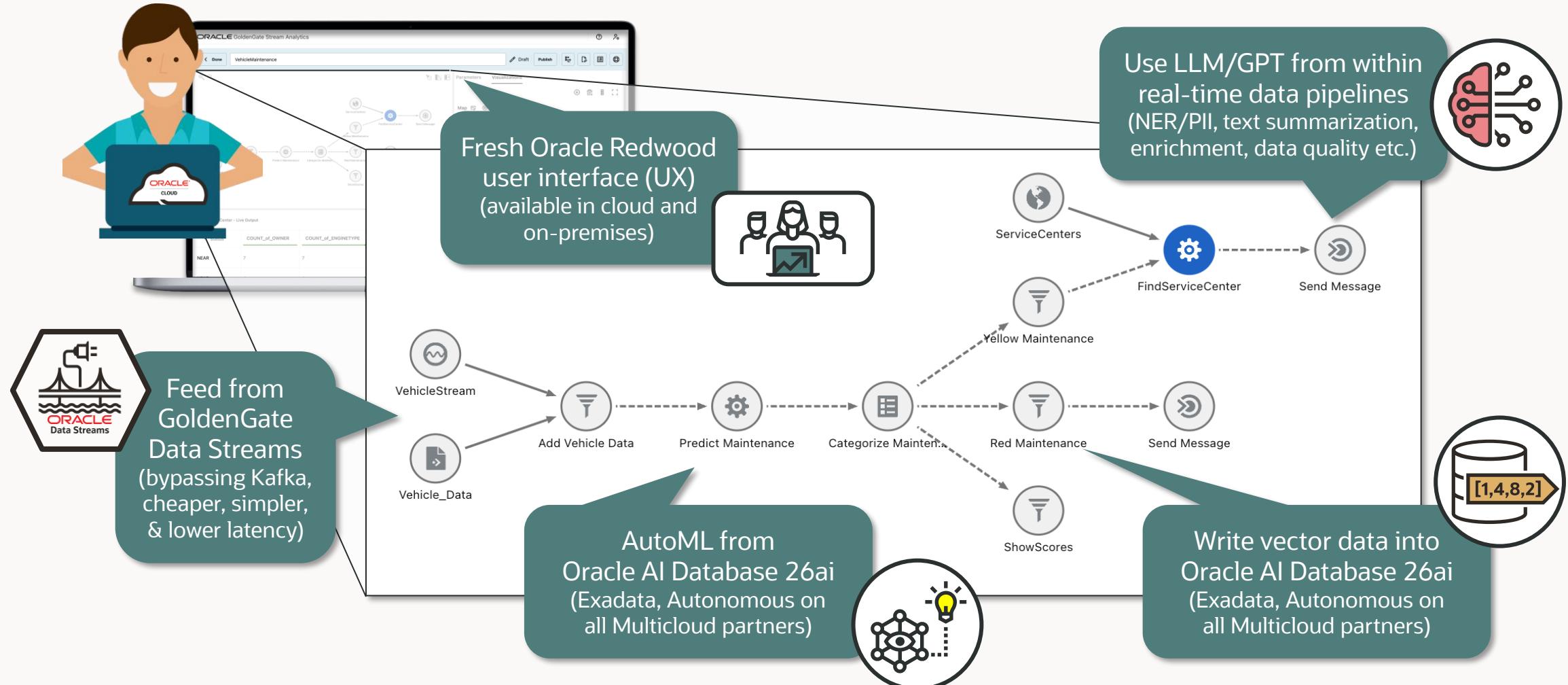
AI Microservice is foundation for futures:

- **Natural language UX** – for admin of services
- **MCP Agentic APIs** – dynamic runtime services
- **Data Enrichment** – from any LLM services
- **Data Quality** – eg; normalization/standardization
- **Auto-Tune** – based on real-world workload analysis



Stream Analytics 26ai – key new features

Included with GoldenGate platform to support stream processing (eg; enrichment, DQ, transformation) and stream analytic capabilities (time-series, geospatial, AI/ML)



GoldenGate 26ai with Oracle AI Data Platform

Operational Systems

Oracle Technologies



3rd Party Databases



3rd Party Vector Stores



3rd Messaging, NoSQL



Business Updates

DML & DDL

Vector Changes

Docs, Events/Alerts

Data + Catalog Integration



Oracle AI Data Platform

Agentic user experience

Chat

Insights

Workflows

AI-powered developer tools

Analytics

AI agents

Data engineering

Data science

Data and AI foundation

AI models and frameworks

Oracle and open-source engines

Data and AI catalog

Open lakehouse architecture

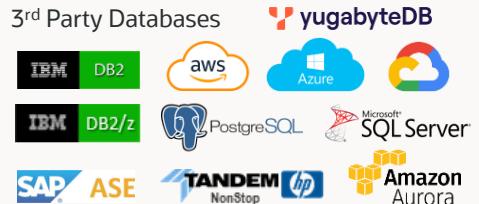
GoldenGate 26ai with Oracle Autonomous AI Lakehouse

Operational Systems

Oracle Technologies



3rd Party Databases



3rd Party Vector Stores



3rd Messaging, NoSQL



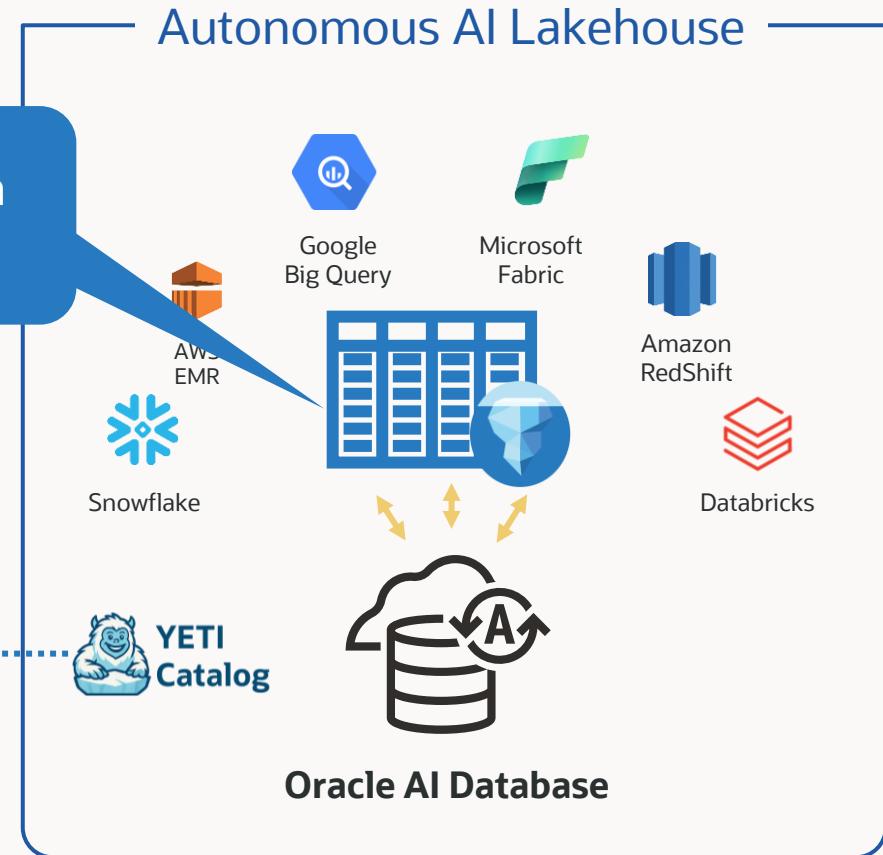
Business Updates

DML & DDL

Vector Changes

Docs, Events/Alerts

real-time data in
Iceberg tables



OCI Generative AI Agents service with Oracle GoldenGate 26ai

Operational Systems

Oracle Technologies



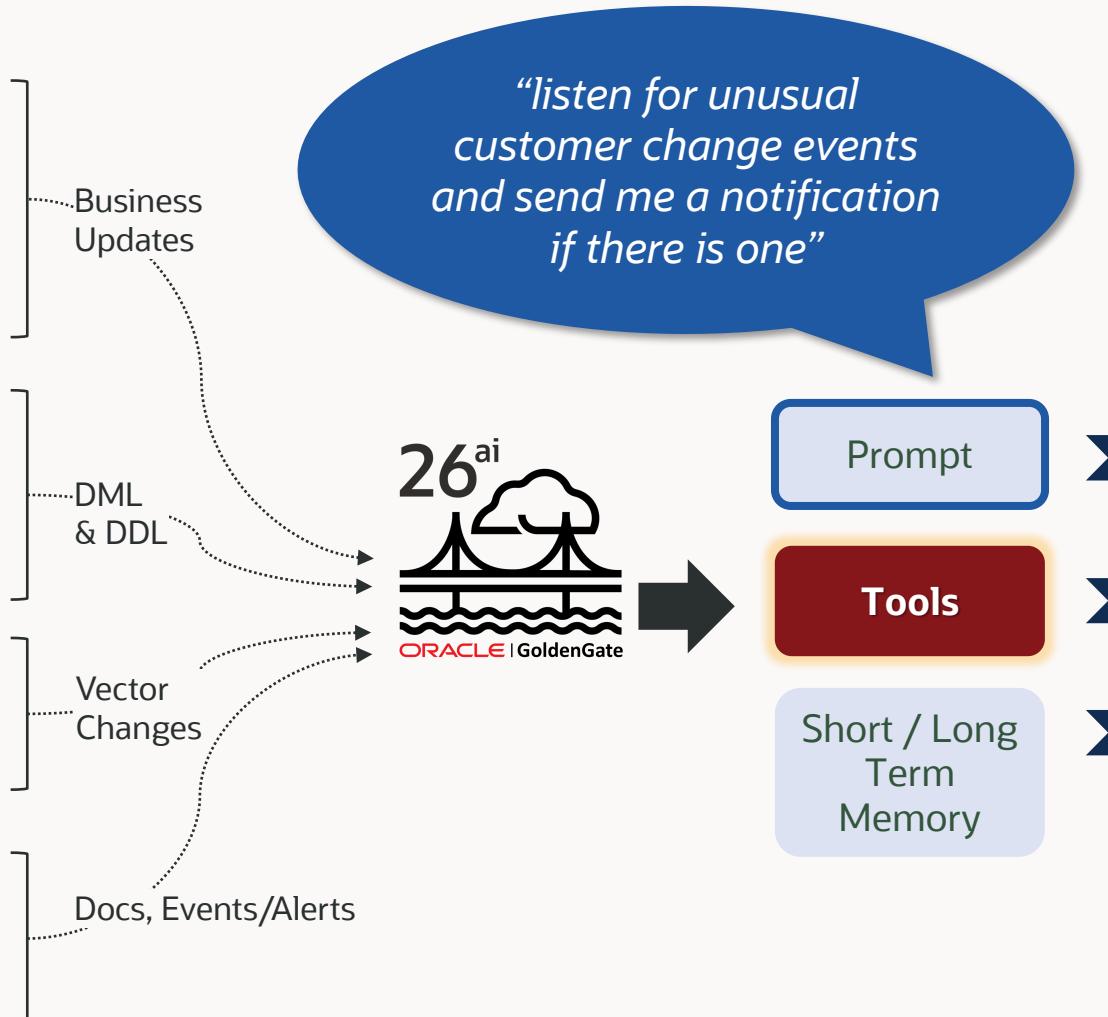
3rd Party Databases



3rd Party Vector Stores



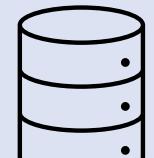
3rd Messaging, NoSQL



OCI
Generative AI

Large Language Model

- Reasoning
- Acting
- Persona
- Planning



Knowledge

Response Generation

GoldenGate 26ai with Oracle Integration Cloud AI Agent Framework

Operational Systems

Oracle Technologies



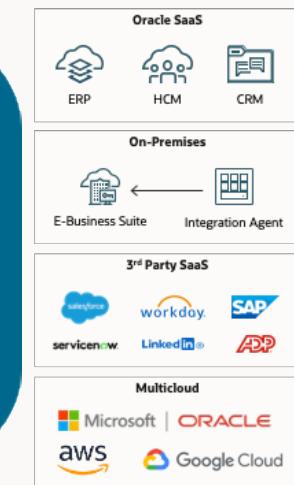
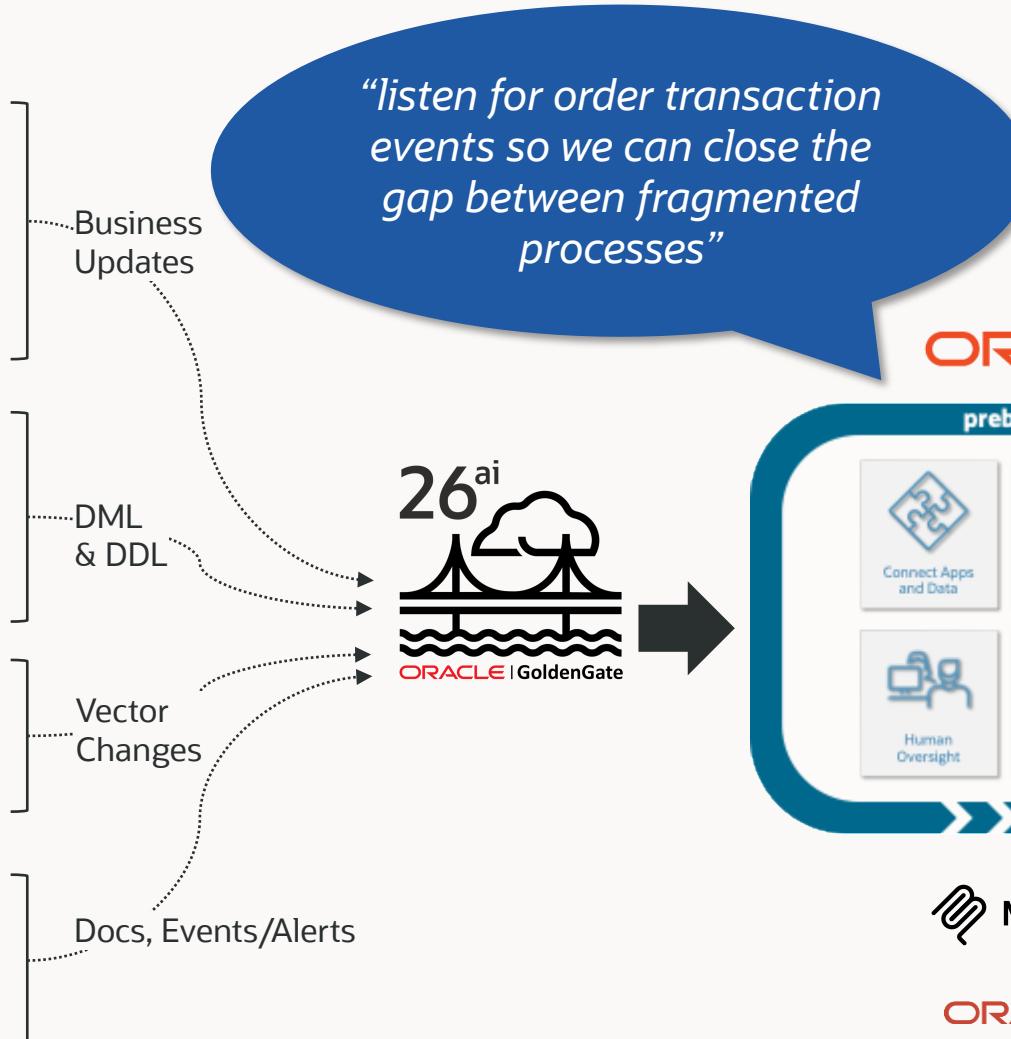
3rd Party Databases



3rd Party Vector Stores



3rd Messaging, NoSQL



Model Context Protocol

ORACLE AI Agent Studio

ORACLE GenAI Agent Service

3rd Party Agent Frameworks

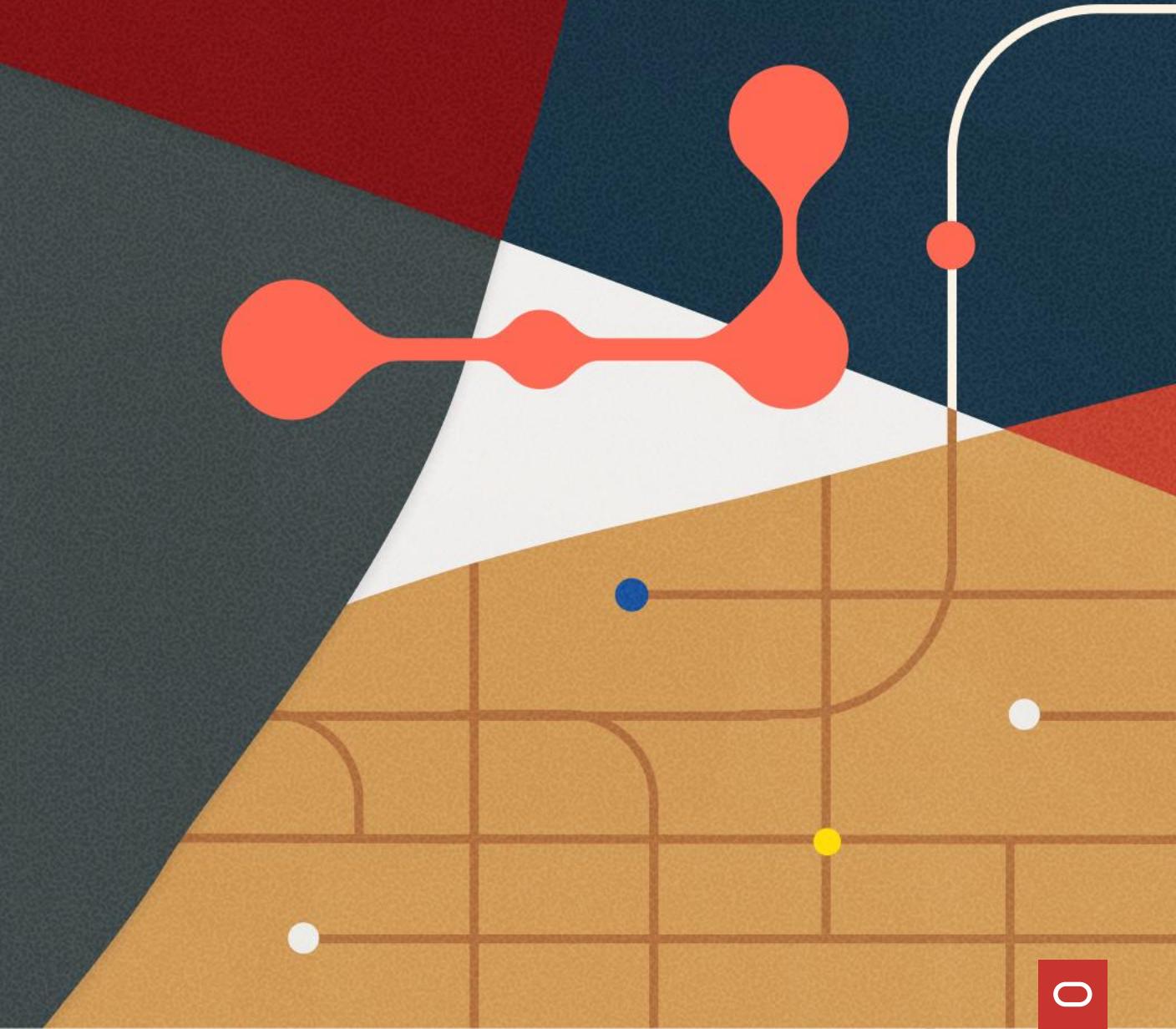
ORACLE

Data Deep Dive
at AI World

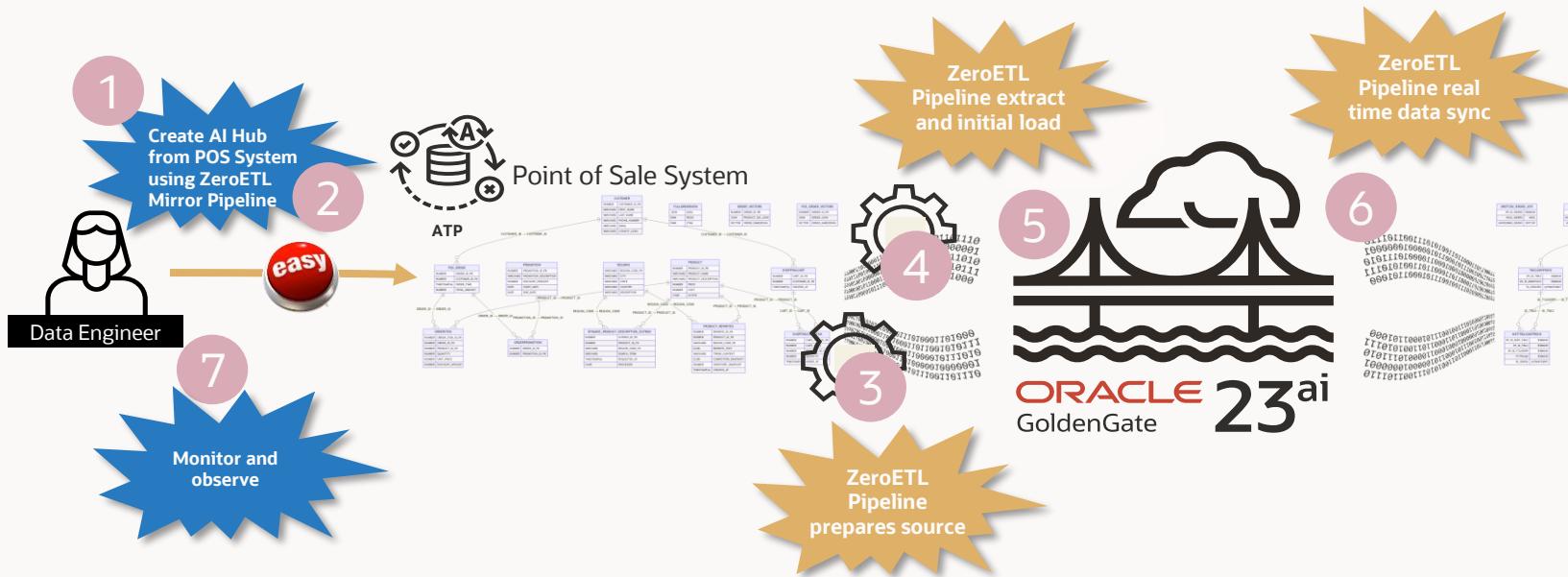
Demonstration

Generative AI with GoldenGate

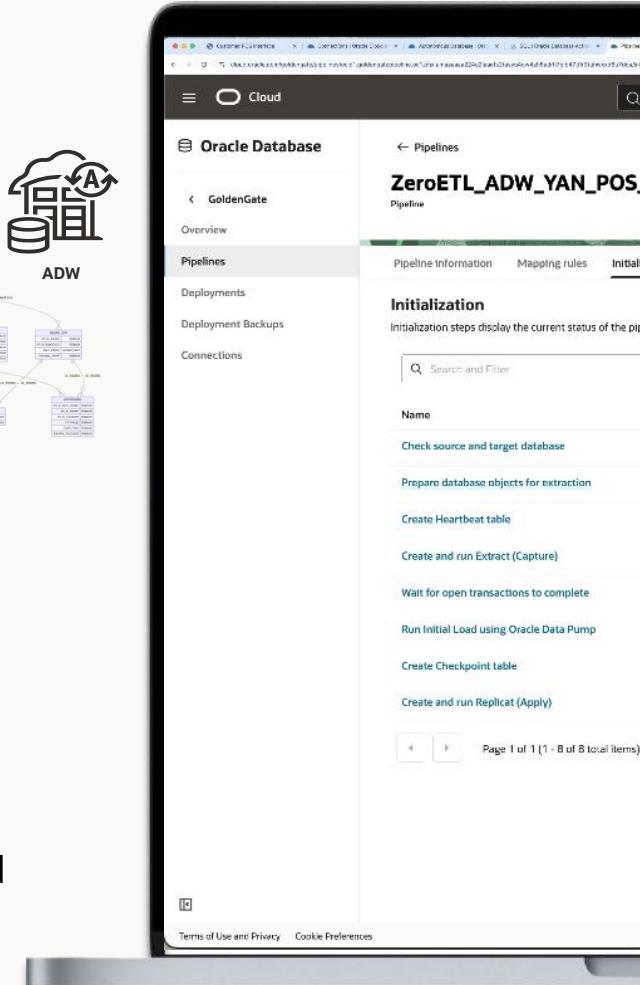
Denis Gray, VP Product, Oracle



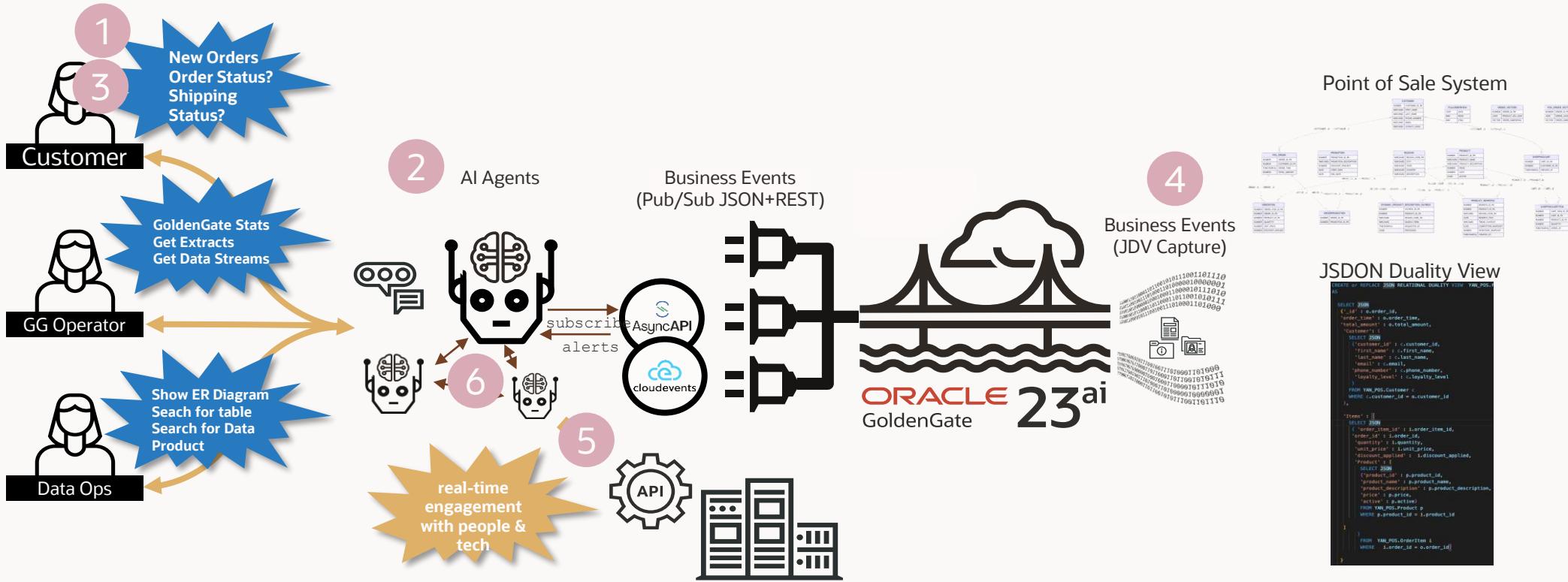
ZeroETL Mirror Pipeline - End to End Demo



- 1 AI data engineer requests AI Hub for POS system
- 2 Data engineer creates and configures ZeroETL Data Mirror (in as little as 3 clicks)
- 3 ZeroETL Pipeline ensures source and target are configured for real-time, and prepares source
- 4 ZeroETL Pipeline creates/starts source extract
- 5 ZeroETL Pipeline creates and executes initial load
- 6 ZeroETL Pipeline creates/starts replicat
- 7 Data engineer observe and monitor ongoing replication



GoldenGate AI End to End Demo – New Order



1 Customer browses products

2 Ai Agent intercepts the search and dynamically updates the product description searched with to induce FOMO based on qty, competitor price, etc

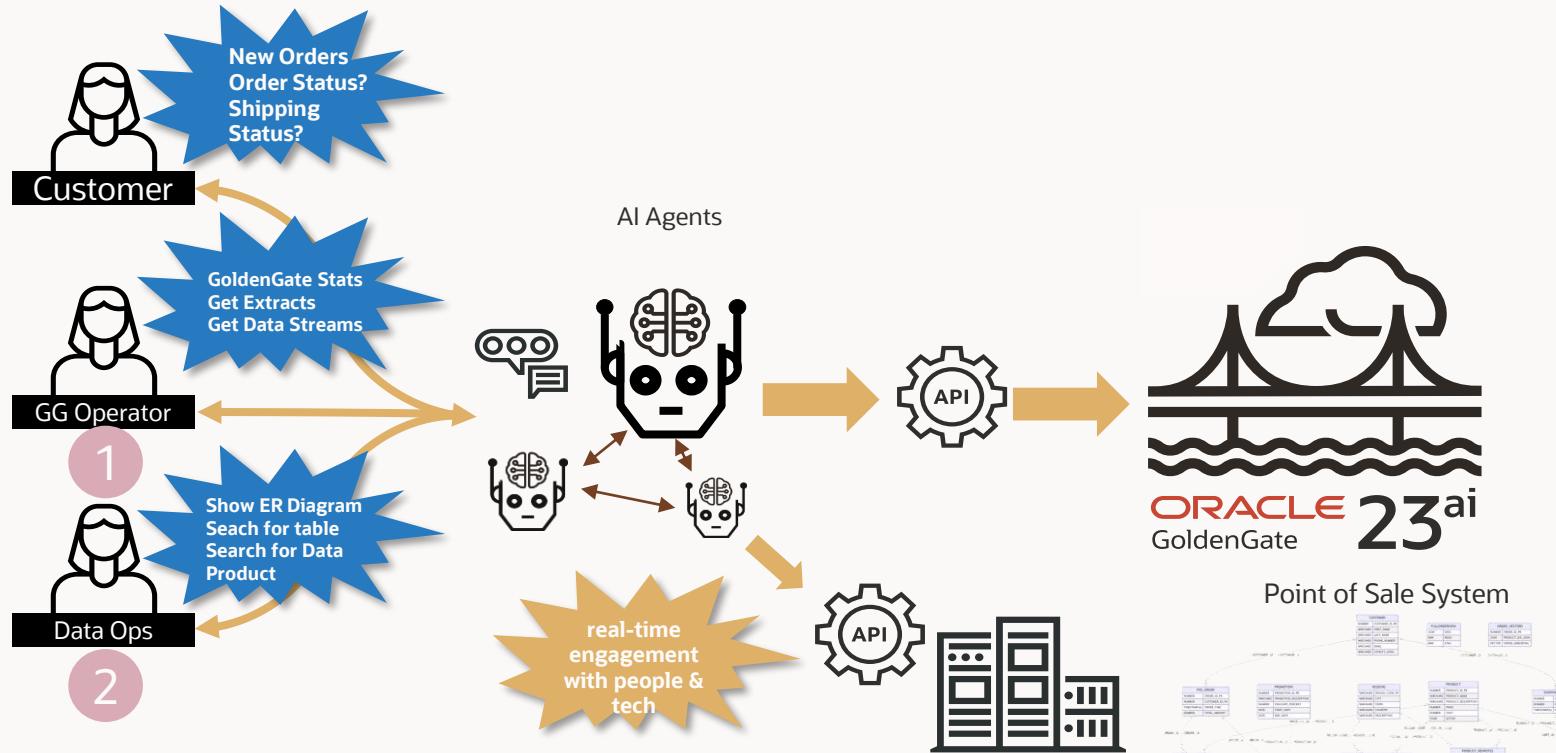
3 Customer submits order

4 JDV event for insert captured by Data Stream

5 AI Agent created vector embedding for each new order based on cart summary

6 AI Agent executes Oracle similarity search against vector store

GoldenGate AI End to End Demos – Backend AI Ops



1 GG Ops –

- List Extracts
- Show goldengate statistics (RAG add stats to prompt)
- List data streams
- Get data stream config AiAgentStream
- Get data stream yaml AiAgentStream

2 Data Ops

- Show Order 483 (RAG similarity Search)
- Show schema ER diagram
- Is there a table with orders? (RAG add schema metadata to prompt)
- Show schema for table POS_ORDER
- Show schema for table ORDERITEM
- Show schema for table FULLORDERVIEW
- Does a data product exist for FULLORDERVIEW

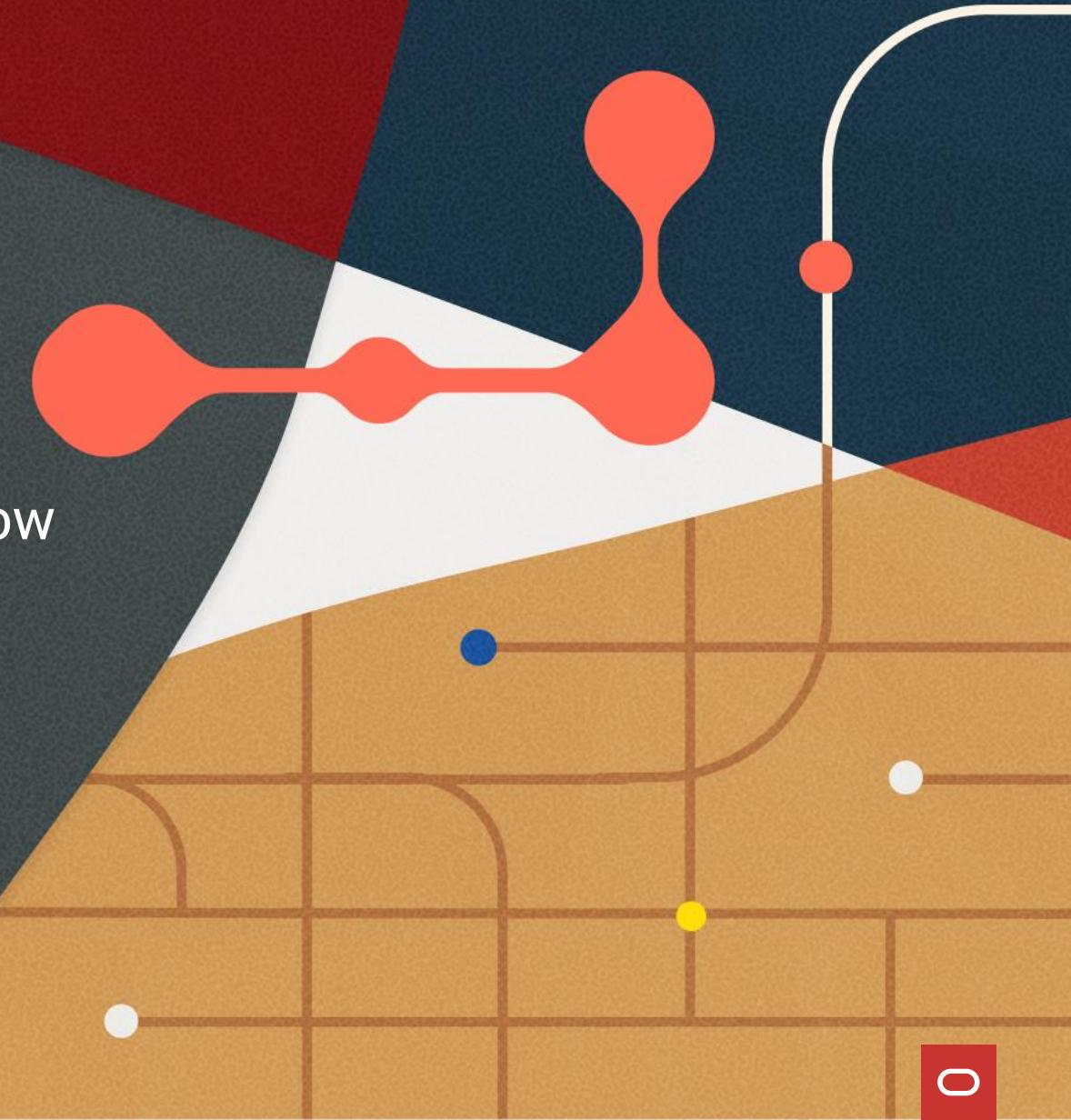
ORACLE

Data Deep Dive
at AI World

Discover Financial

GoldenGate Use Cases Today and Tomorrow

Marty Stogsdill, Data Product Owner, Discover Financial



Placeholder

Placeholder

Forward-Looking statements

This presentation is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

Statements in this presentation relating to Oracle's future plans, expectations, beliefs, intentions, and prospects are "forward-looking statements" and are subject to material risks and uncertainties. A detailed discussion of these factors and other risks that affect our business is contained in Oracle's Securities and Exchange Commission (SEC) filings, including our most recent reports on Form 10-K and Form 10-Q under the heading "Risk Factors." These filings are available on the SEC's website or on Oracle's website at <https://oracle.com/investors/>. All information in this presentation is current as of October 2025 and Oracle undertakes no duty to update any statement in light of new information or future events.

Some regulatory certifications or registrations to products or services referenced herein are held by Cerner Corporation. Cerner Corporation is a wholly owned subsidiary of Oracle. Cerner Corporation is an ONC-certified health IT developer and a registered medical device manufacturer in the United States and other jurisdictions worldwide.



ORACLE