

Real-time AI Stack

Streaming with GoldenGate, Agents & Vectors

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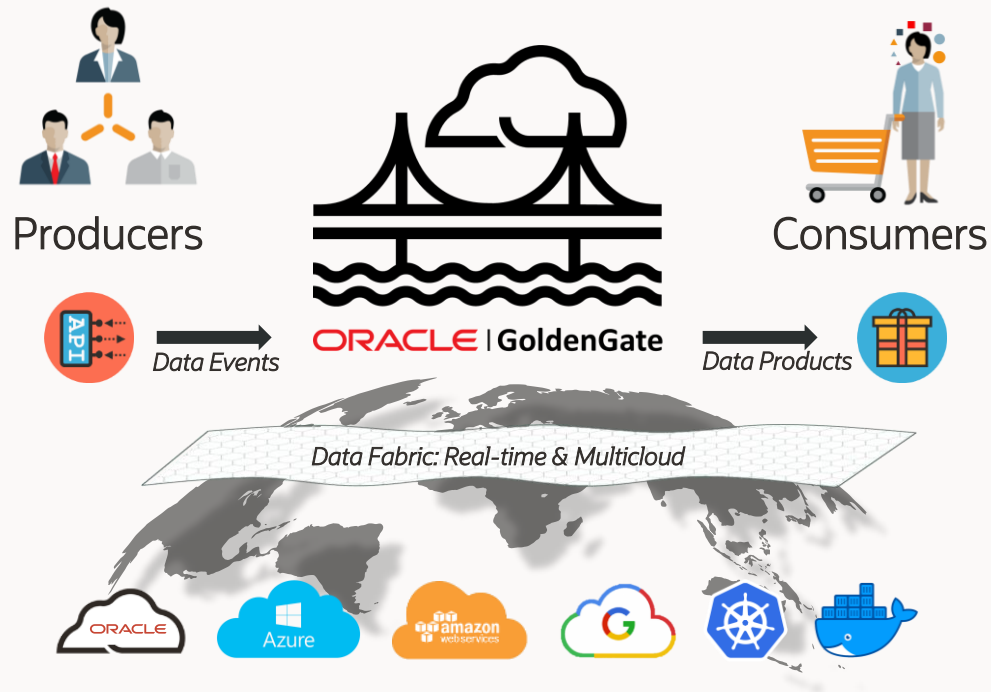
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October 2025

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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

ORACLE GoldenGate

trusted enterprise standard for Oracle and 3rd party systems

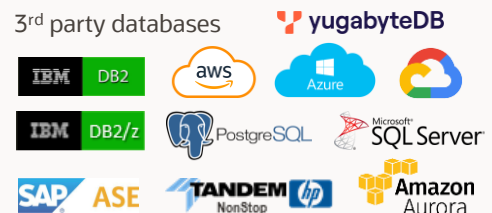
Operational Data Events

Oracle technologies



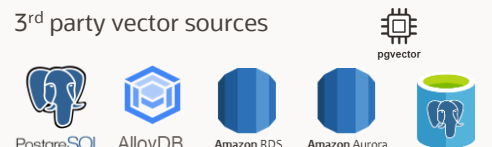
Business Updates

3rd party databases



DML & DDL

3rd party vector sources



Vector Changes

3rd party messaging, NoSQL



Docs, Events/Alerts

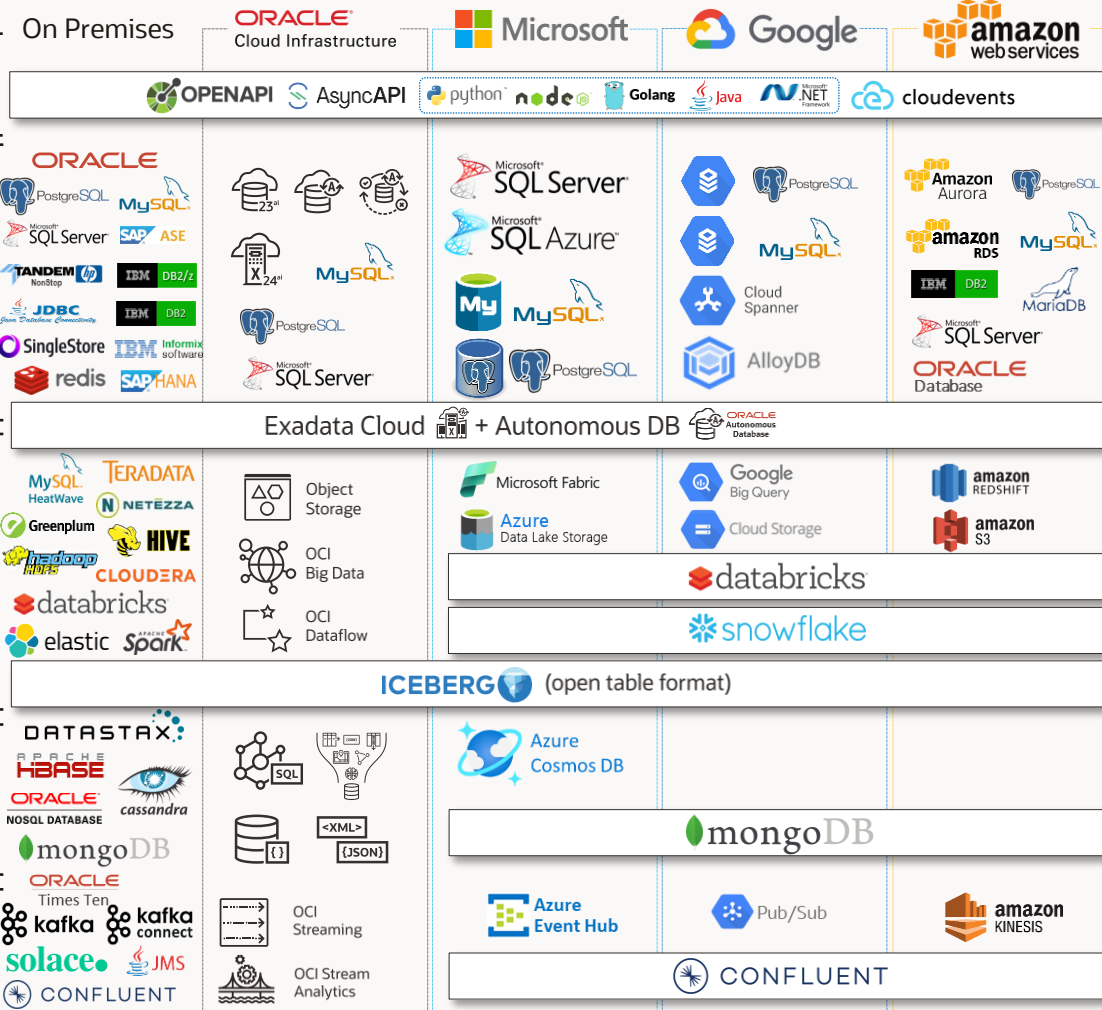
Apps

DBMS

Data Lakes

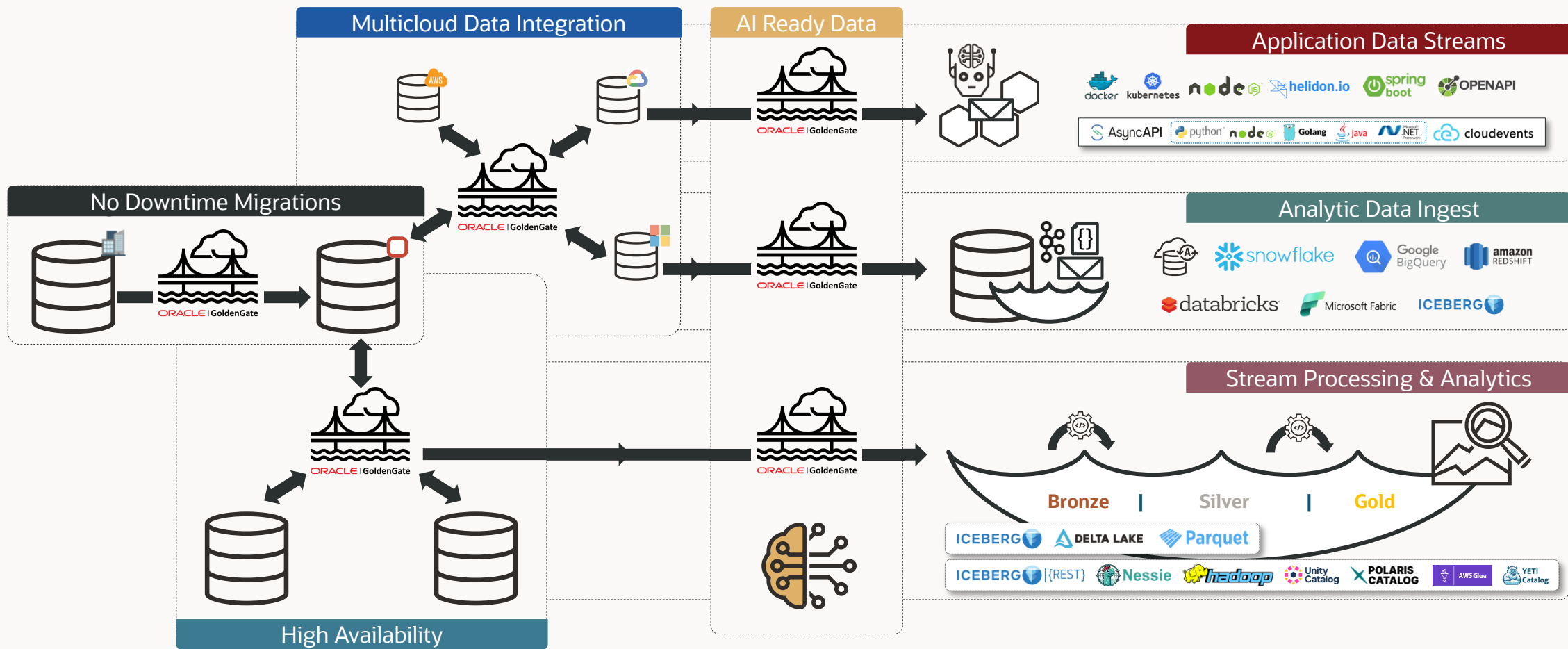
NoSQL

Streams

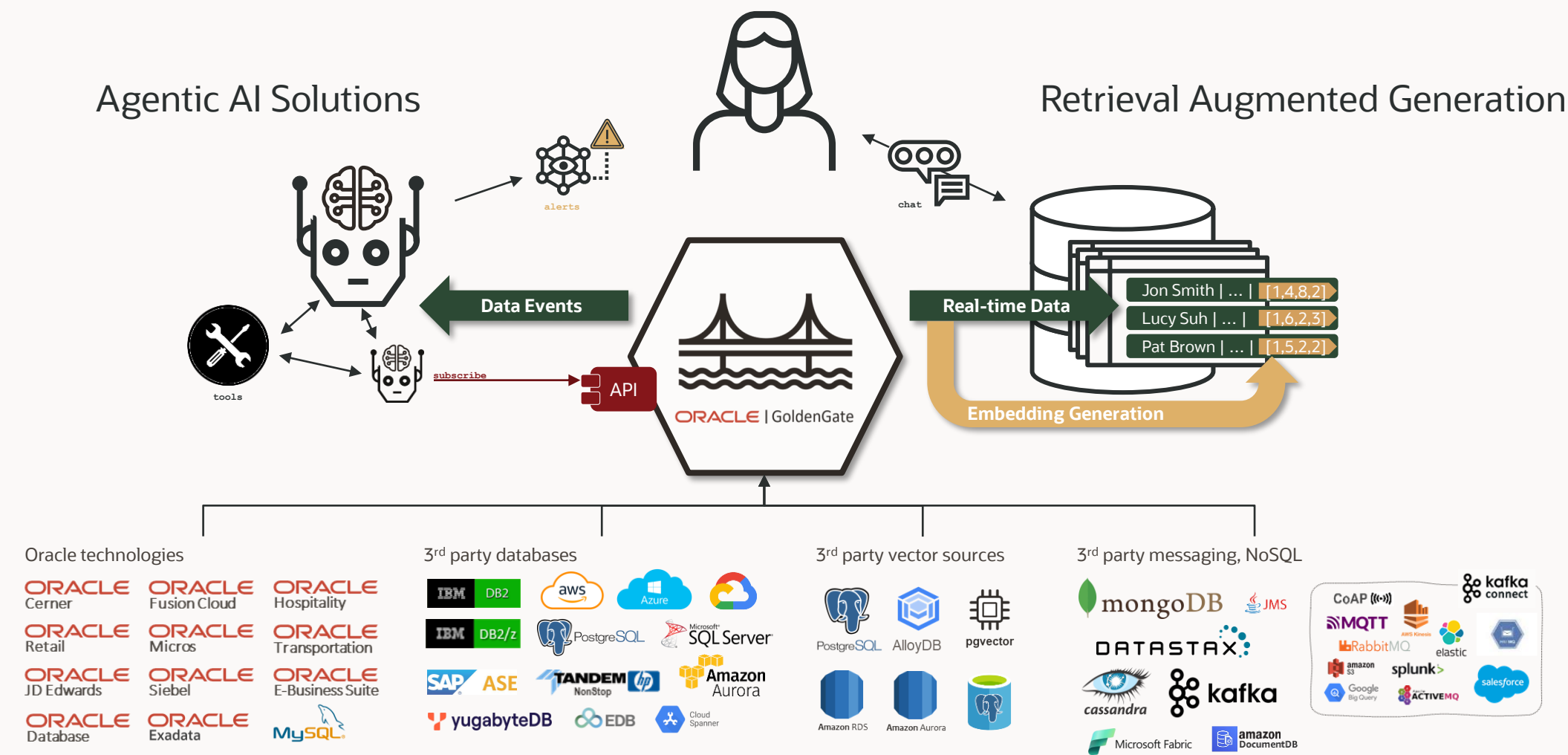


ORACLE GoldenGate

top 7 use case solutions



AI-ready Data with GoldenGate 23ai



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AI World

2025 Announcements for GoldenGate



26ai, major new version

GenAI service built-in

LLM & AutoML in Streams

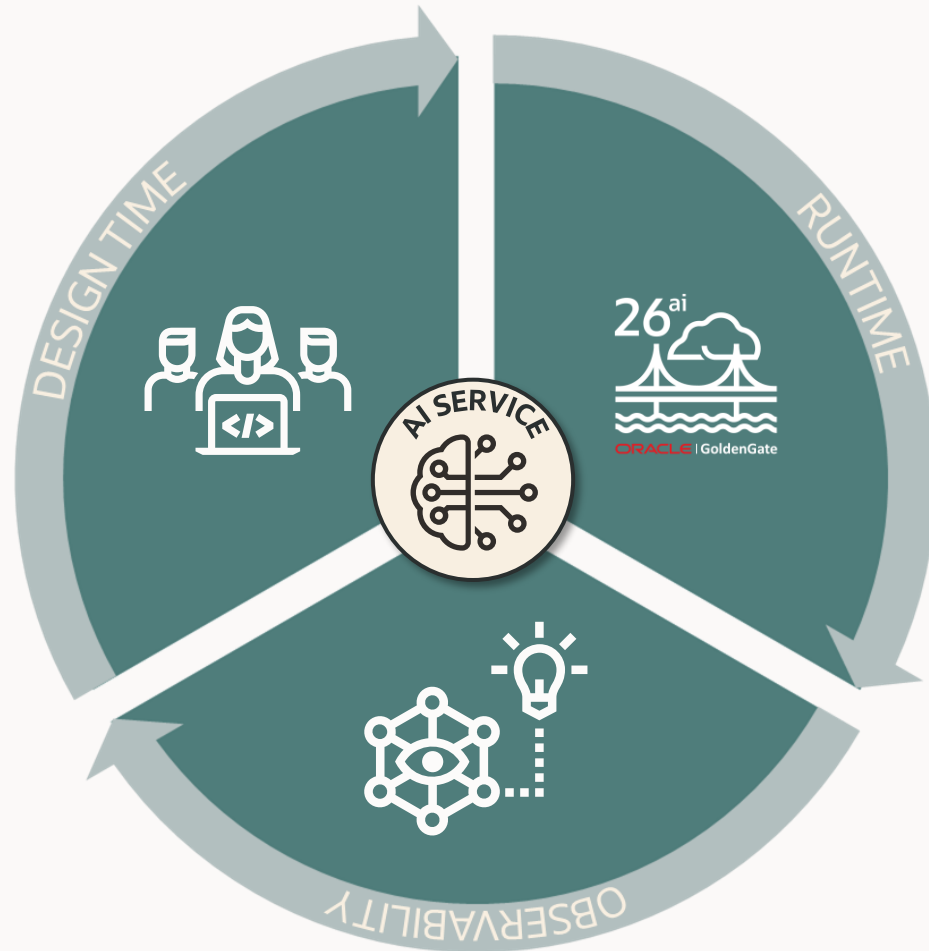
Certified for AI Data Platform
& Autonomous AI Lakehouse

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

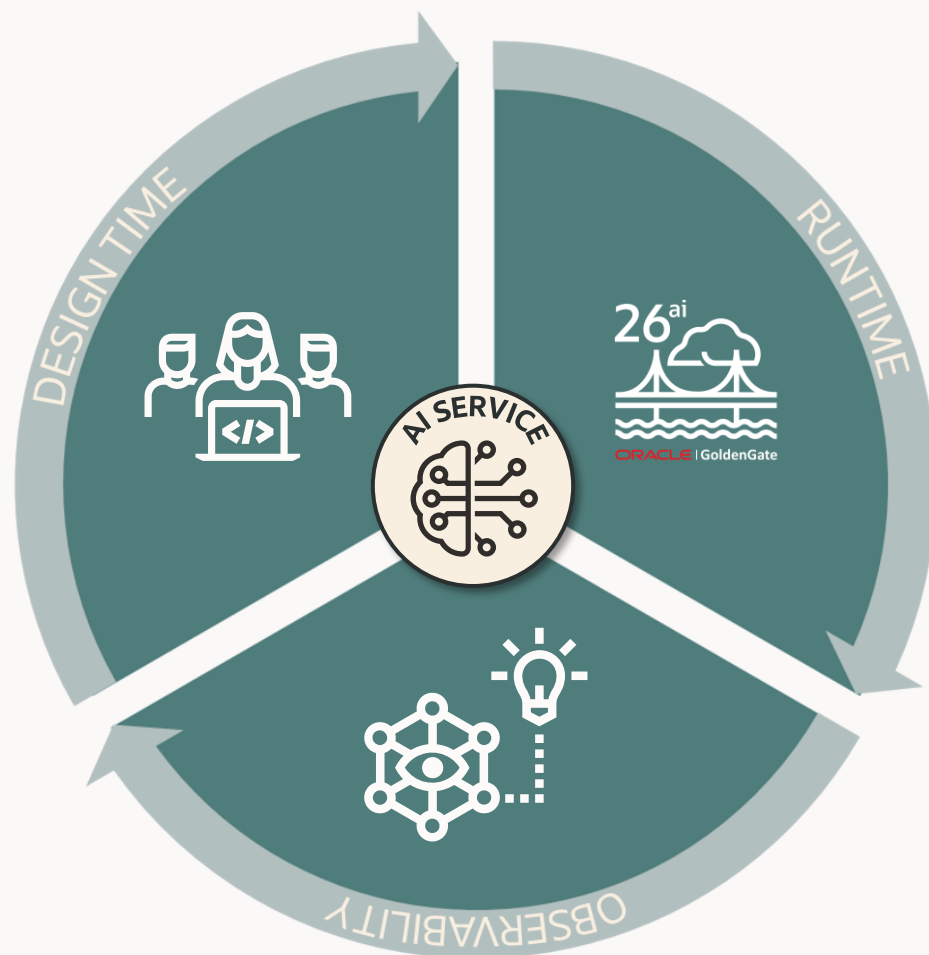
Platform Observability:

- 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:

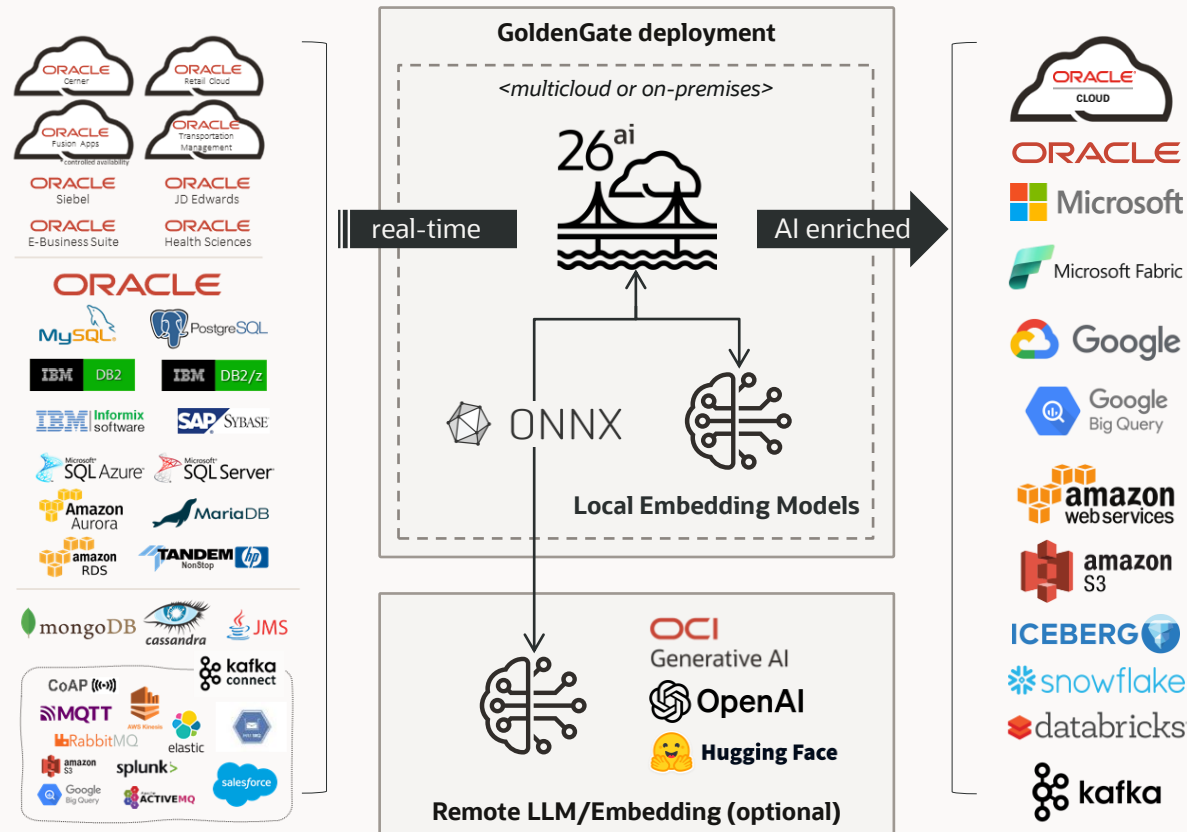
- real-time support for standardization, cleansing and preparation

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:

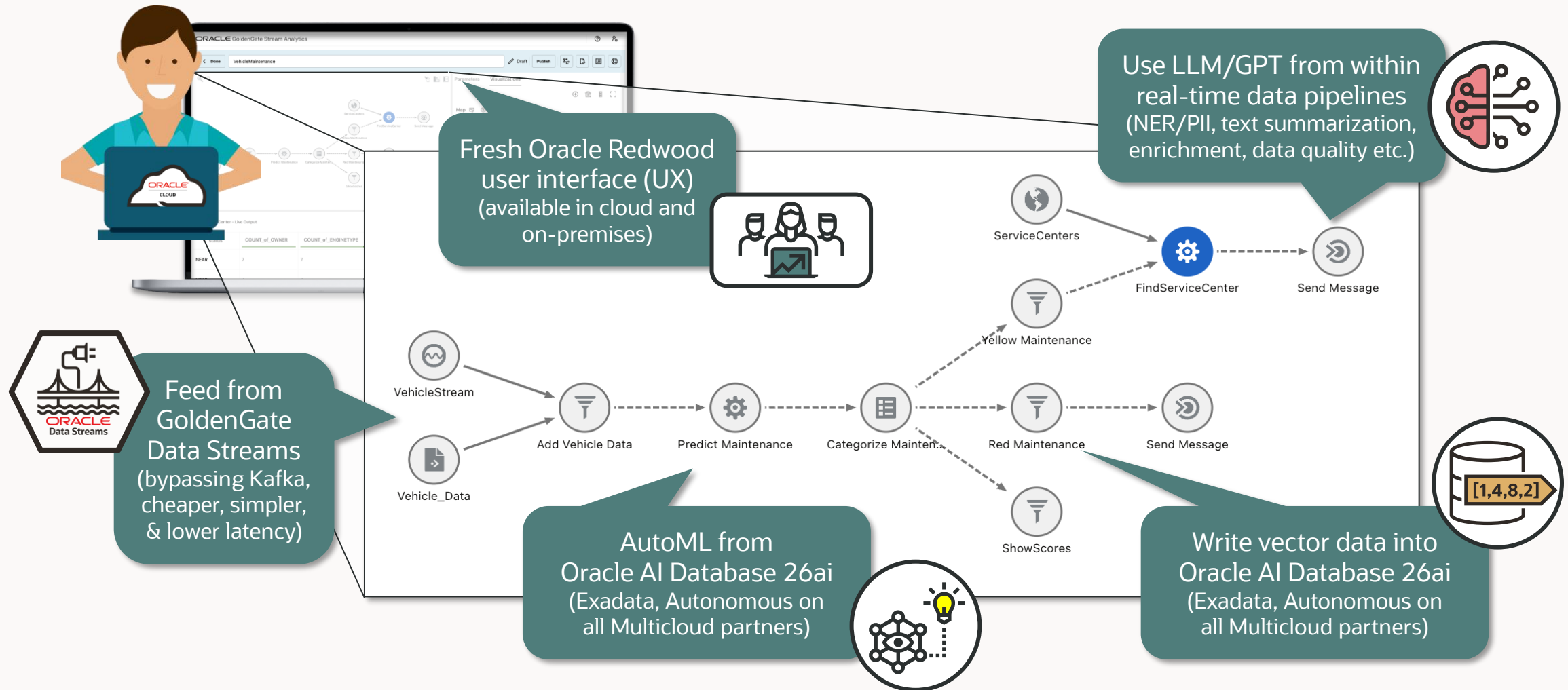
- **Embedding generation** – for GoldenGate targets
- **Named-entity** – real-time NER on data events
- **PII identification** – on your real-time transactions
- **Text summarization** – inline to data events/streams

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)



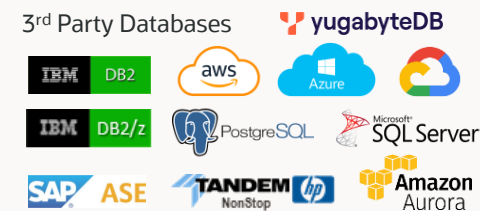
GoldenGate 26ai with Oracle AI Data Platform

Operational Systems

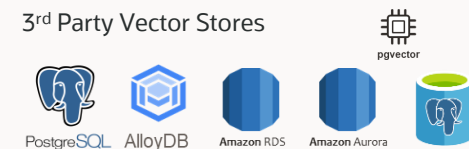
Oracle Technologies



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

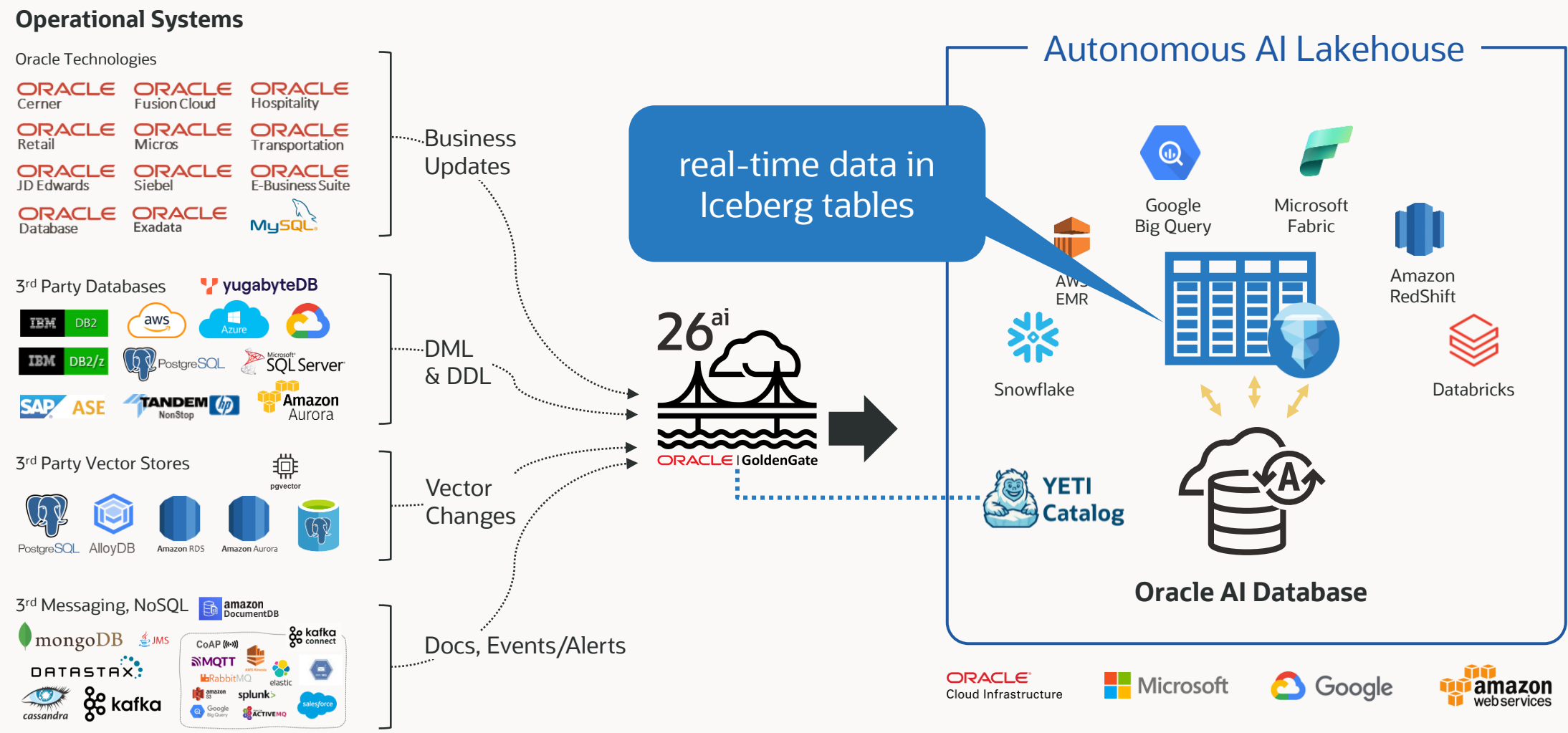
Oracle and open-source engines

Data and AI catalog

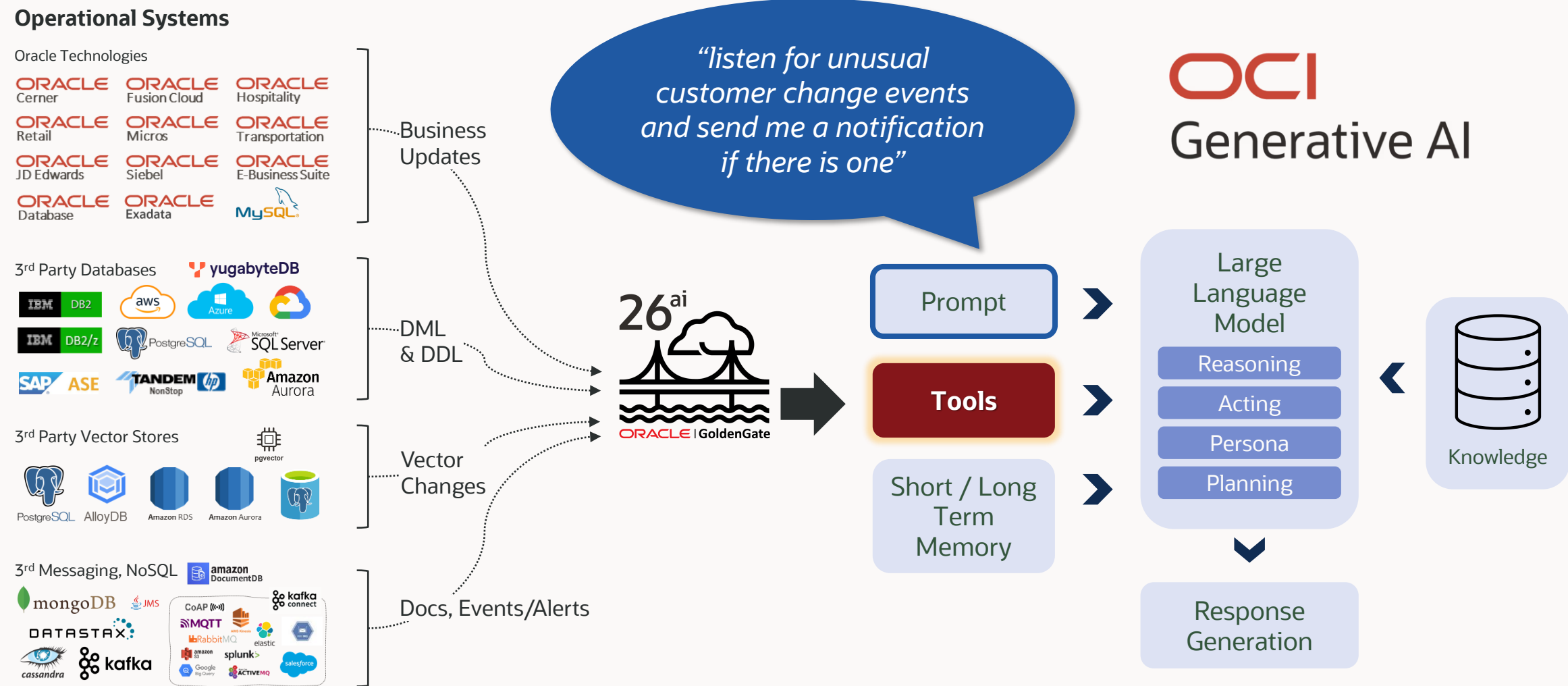
Open lakehouse architecture



GoldenGate 26ai with Oracle Autonomous AI Lakehouse



OCI Generative AI Agents service with Oracle GoldenGate 26ai



GoldenGate 26ai with Oracle Integration Cloud AI Agent Framework

Operational Systems

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

Business Updates

"listen for order transaction events so we can close the gap between fragmented processes"

3rd Party Databases

yugabyteDB

IBM DB2

aws

Azure

Google Cloud

IBM DB2/z

PostgreSQL

Microsoft SQL Server

SAP ASE

TANDEM NonStop

hp

Amazon Aurora

DML & DDL

3rd Party Vector Stores

pgvector

PostgreSQL

AlloyDB

Amazon RDS

Amazon Aurora

Vector Changes

3rd Messaging, NoSQL

amazon DocumentDB

mongoDB

JMS

CoAP (I=II)

MQTT

kafka connect

DATASTAX

RabbitMQ

elastic

amazon S3

splunk

Google Big Query

ACTIVEMQ

cassandra

kafka

salesforce

Docs, Events/Alerts



ORACLE Integration

prebuilt connectivity

Connect Apps and Data

AI Orchestration

Robotic Process Automation

AI Agents MCP

Human Oversight

RAG Knowledge Base

Rule-Based Decisions

Automate Trading Partners

prebuilt solutions

Oracle SaaS

ERP

HCM

CRM

On-Premises

E-Business Suite

Integration Agent

3rd Party SaaS

salesforce

workday

SAP

servicenow

LinkedIn

ADP

Multicloud

Microsoft

ORACLE

aws

Google Cloud

Model Context Protocol

ORACLE AI Agent Studio

ORACLE GenAI Agent Service

3rd Party Agent Frameworks

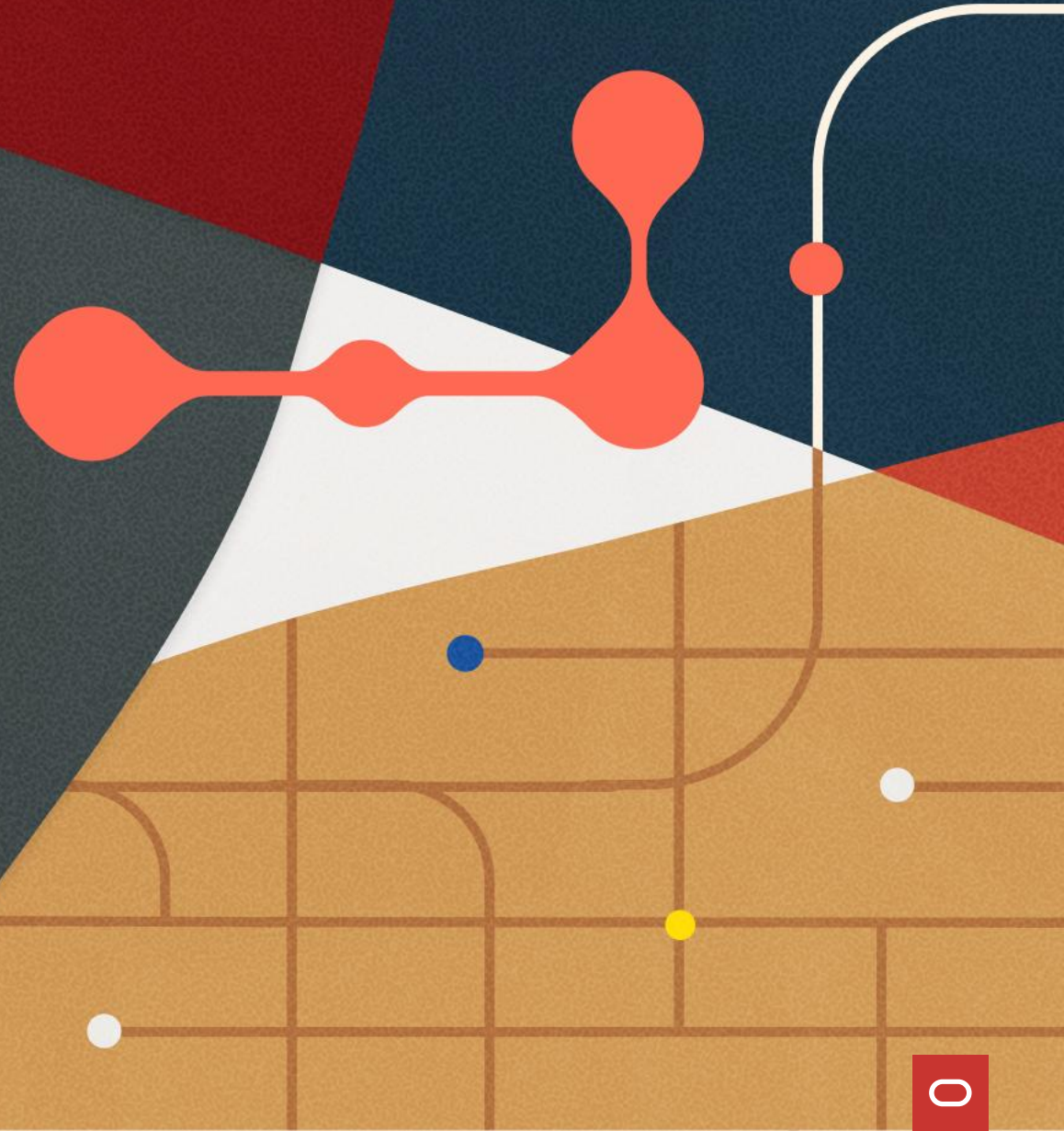


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Data Deep Dive
at AI World

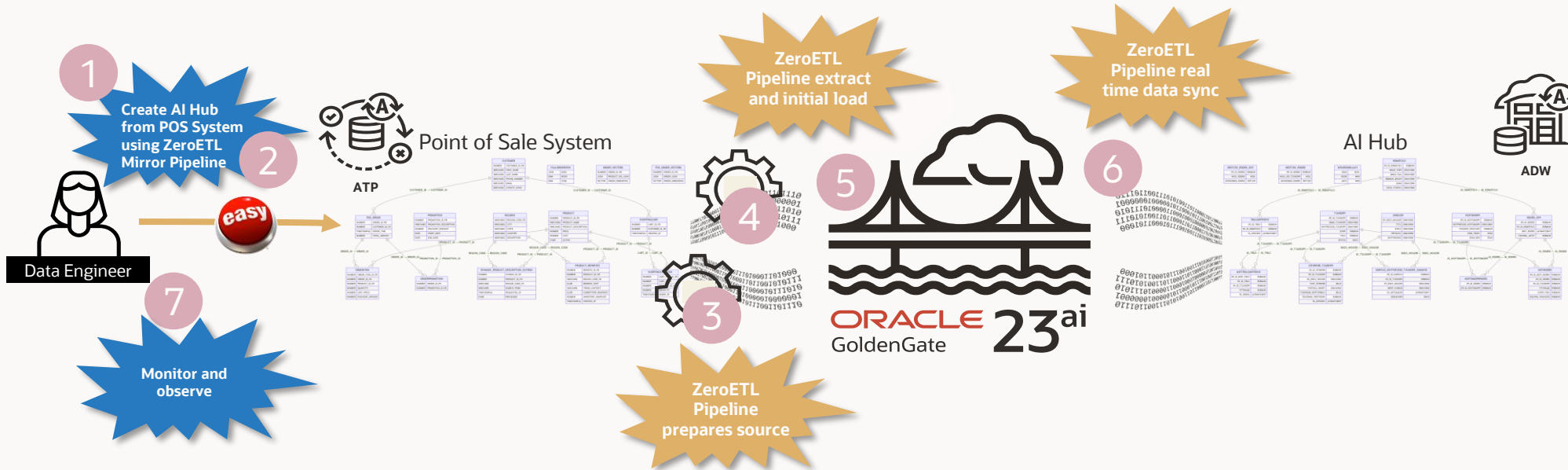
Demonstration

Generative AI with GoldenGate

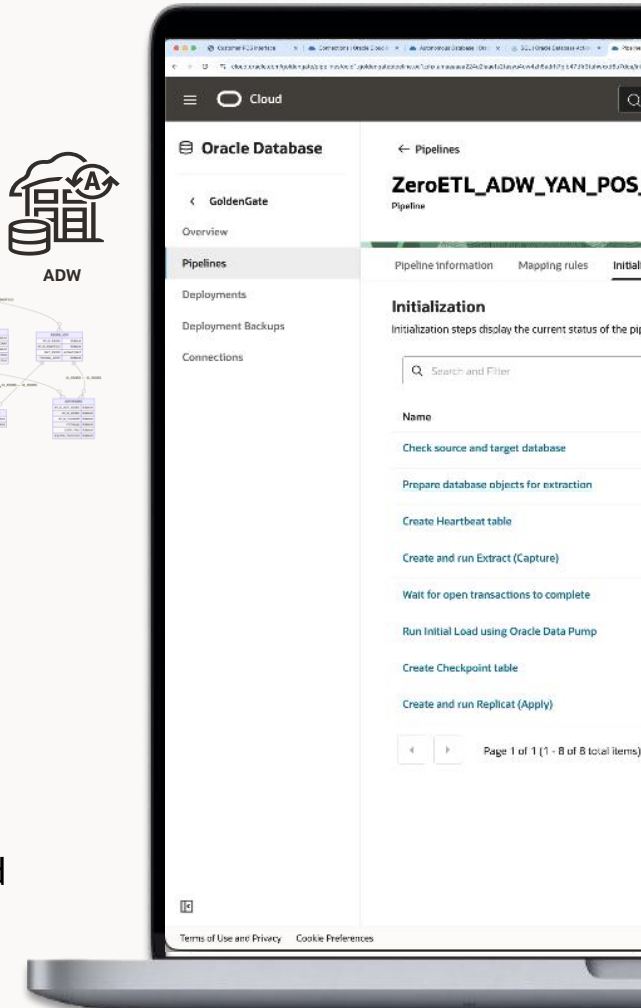
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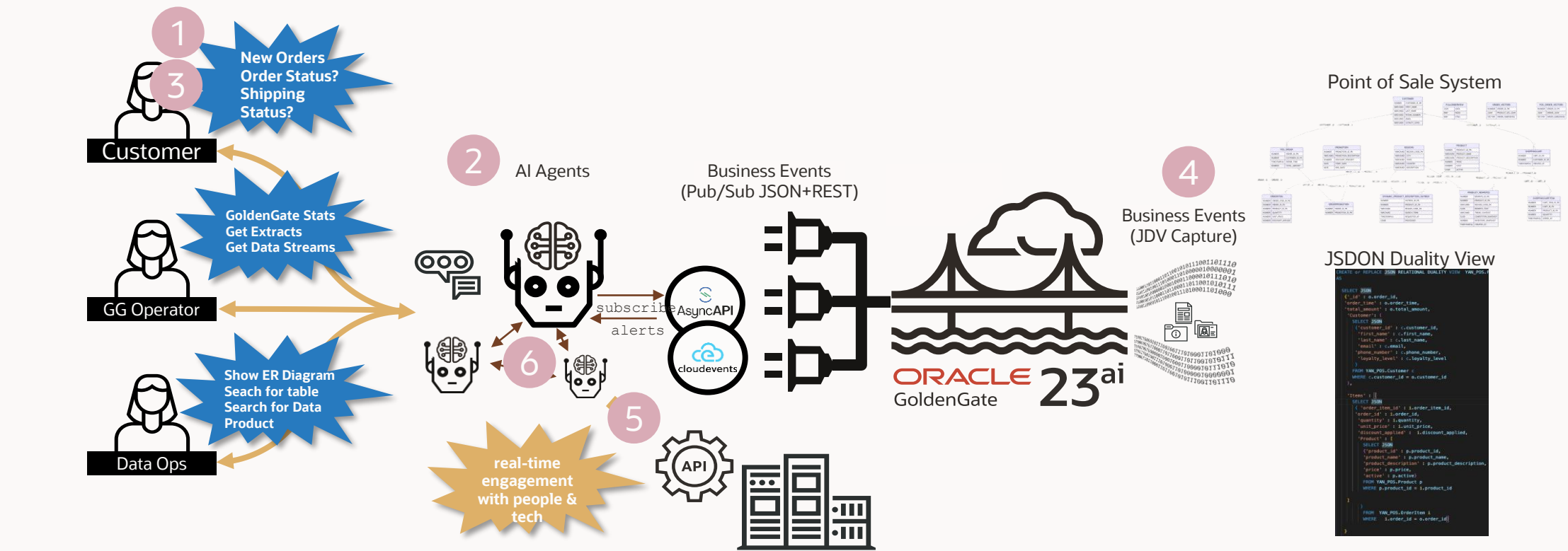
ZeroETL Mirror Pipeline - End to End Demo



- 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



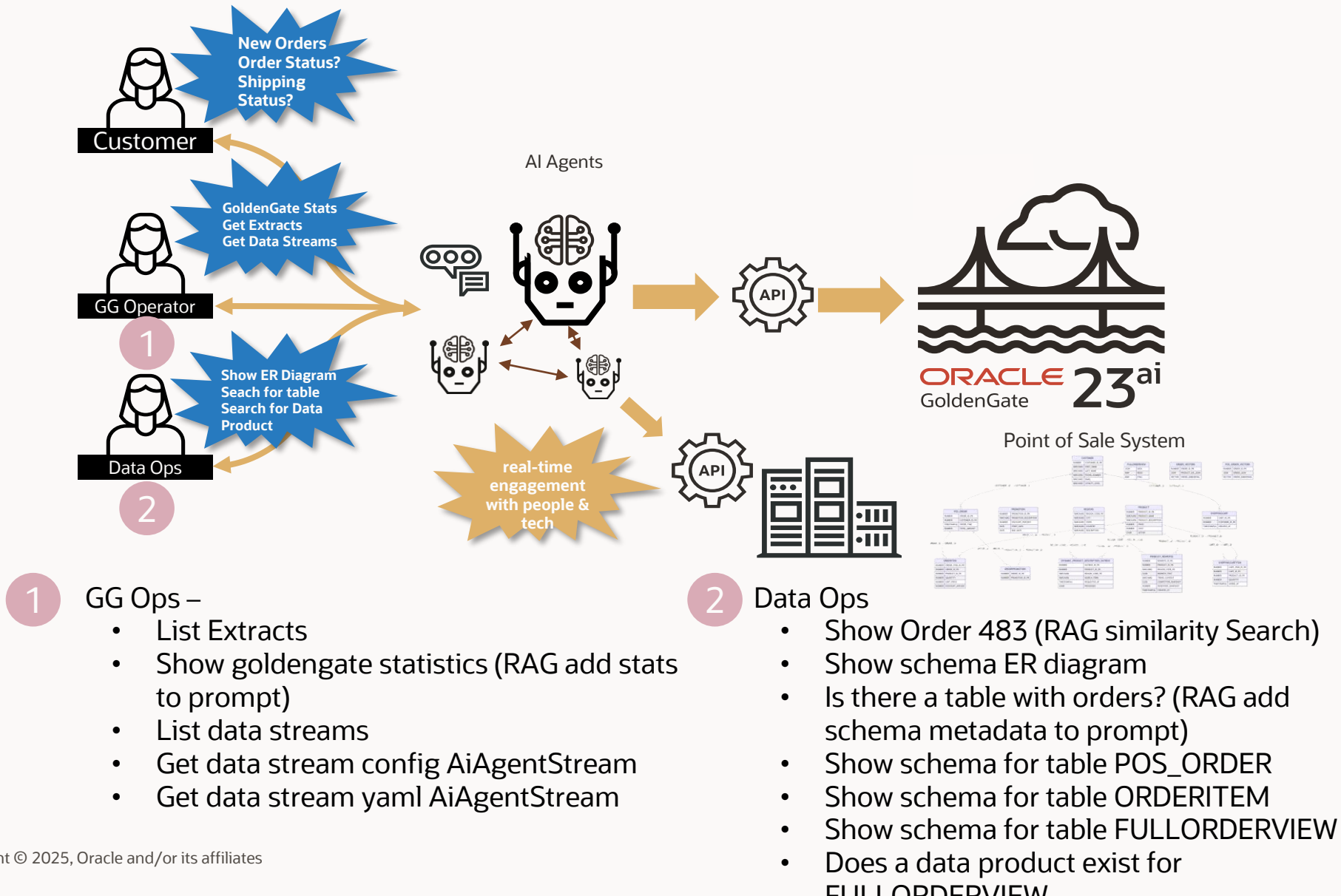
GoldenGate AI End to End Demo – New Order



- 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



Discover Financial

GoldenGate Use Cases Today and Tomorrow

Marty Stogsdill, Data Product Owner, Discover Financial

Placeholder



Placeholder

Forward-Looking statements

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