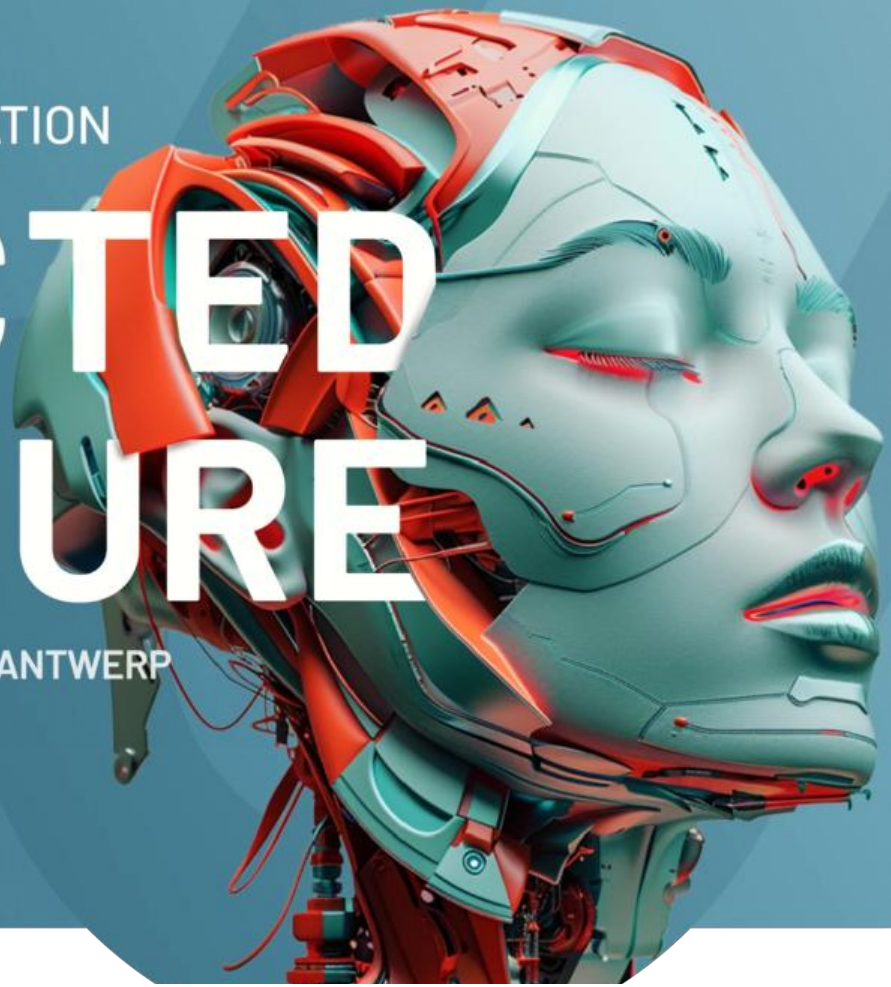
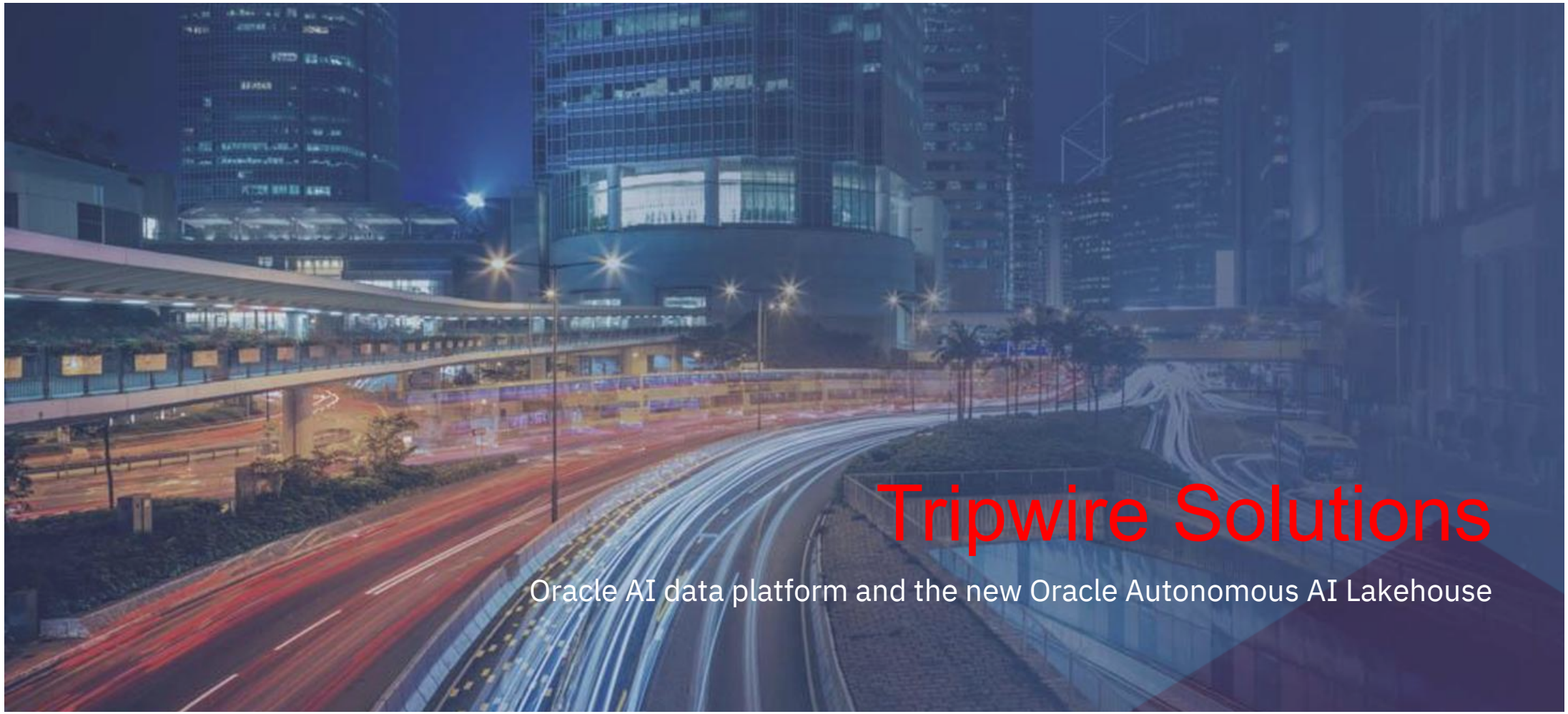
INTELLIGENCE • INSIGHT • INTEGRATION

CONNECTED FUTURE

02 APRIL '26 - VESTAR, ANTWERP





Tripwire Solutions

Oracle AI data platform and the new Oracle Autonomous AI Lakehouse

Tripwire
solutions

Tripwire Solutions Services

PRINCIPLES

- Oracle
- Google
- Microsoft Azure
- Databricks
- Data Vault 2.1
- Modern Data Platform
- Reference Architecture

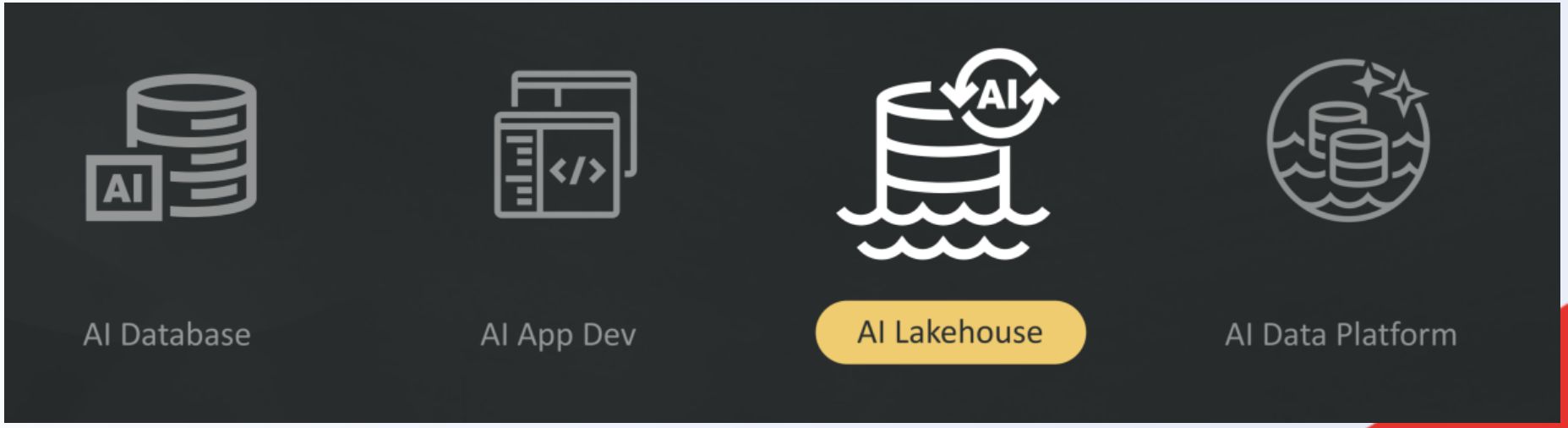
SOLUTIONS

- Data- & Solution Architecture
- Data Platform Automation, DWA, ELT, Zero-ETL
  - Migrate to Data Vault
  - Batch to Real-Time
  - Performance Tuning
- Data Modelling
  - Data Vault 2.1
  - Data Platform Data Modelling
- AI, Data Science & Advanced Analytics
  - Predictive Analysis
  - Machine Learning
  - Deep Learning
  - NLP
- Reporting & Dashboarding
- Data Discovery & Data Visualisation
- Data Governance
- Data Lakehouse
- Cloud and On-Premises

SERVICES

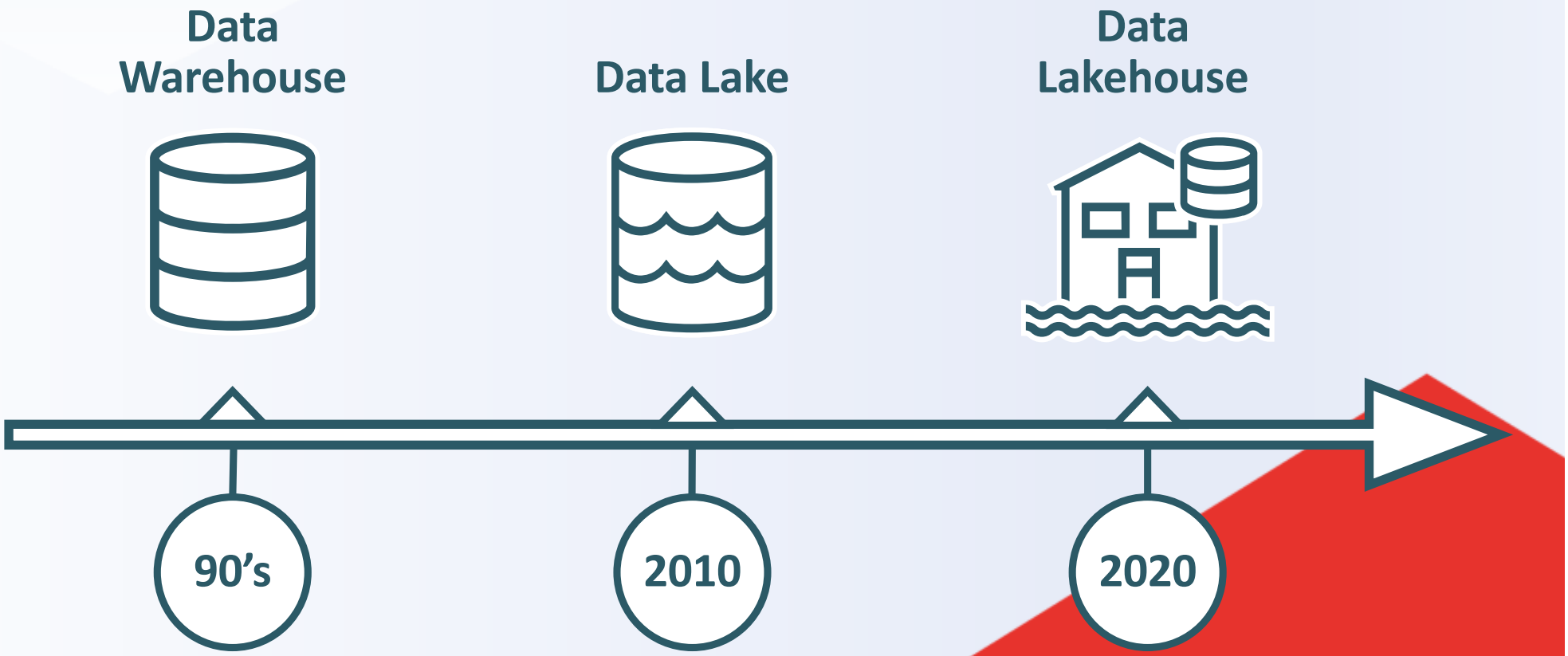
- Assessments
- Data Platform Build & Setup
- Data Platform Managed Operations
- Team Enablement
- Expert Consulting on Demand
- Total Outsourcing

Tripwire solutions



Tripwire
solutions

Data Platform Emergence for Analytics

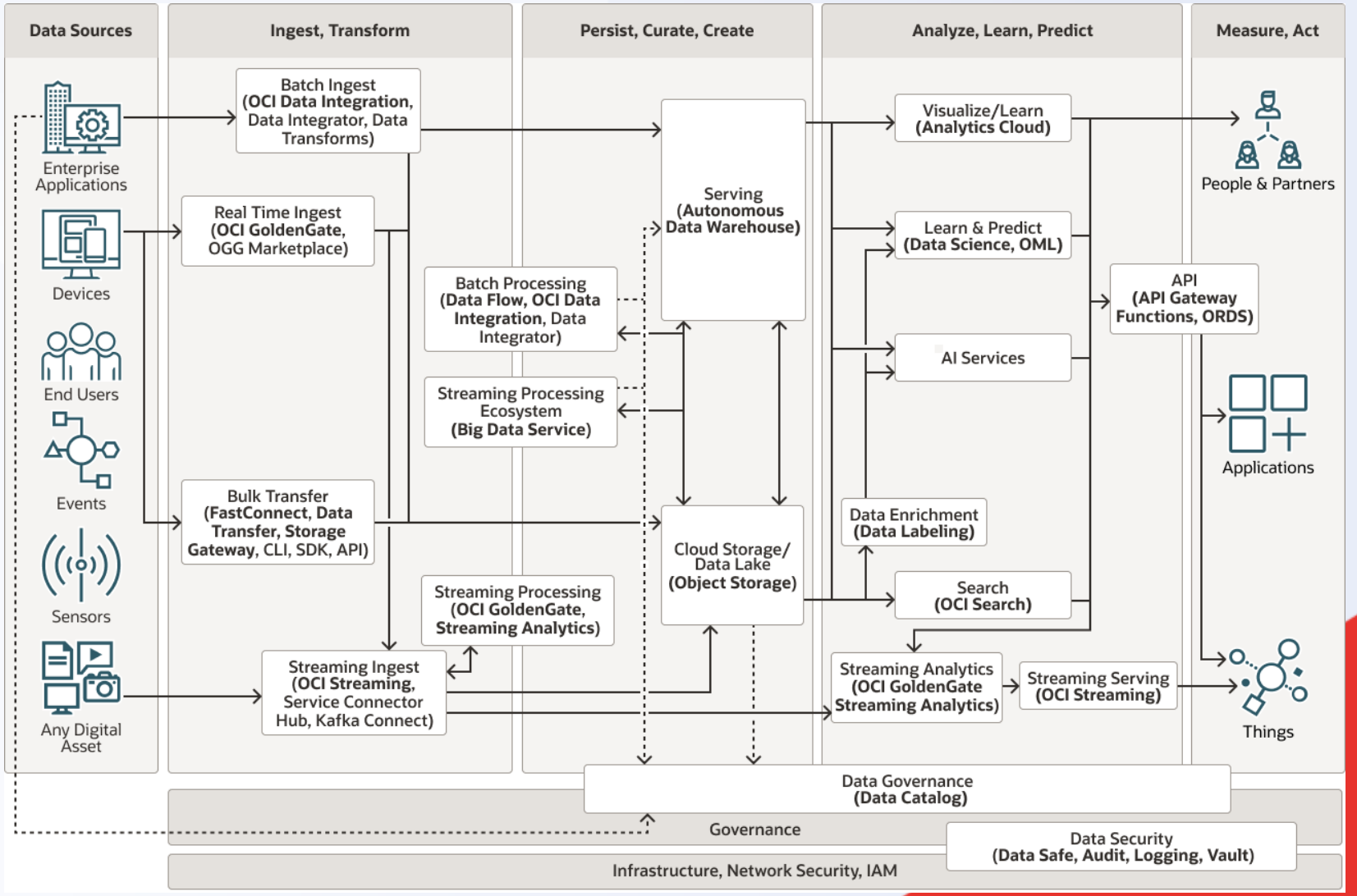


Tripwire solutions

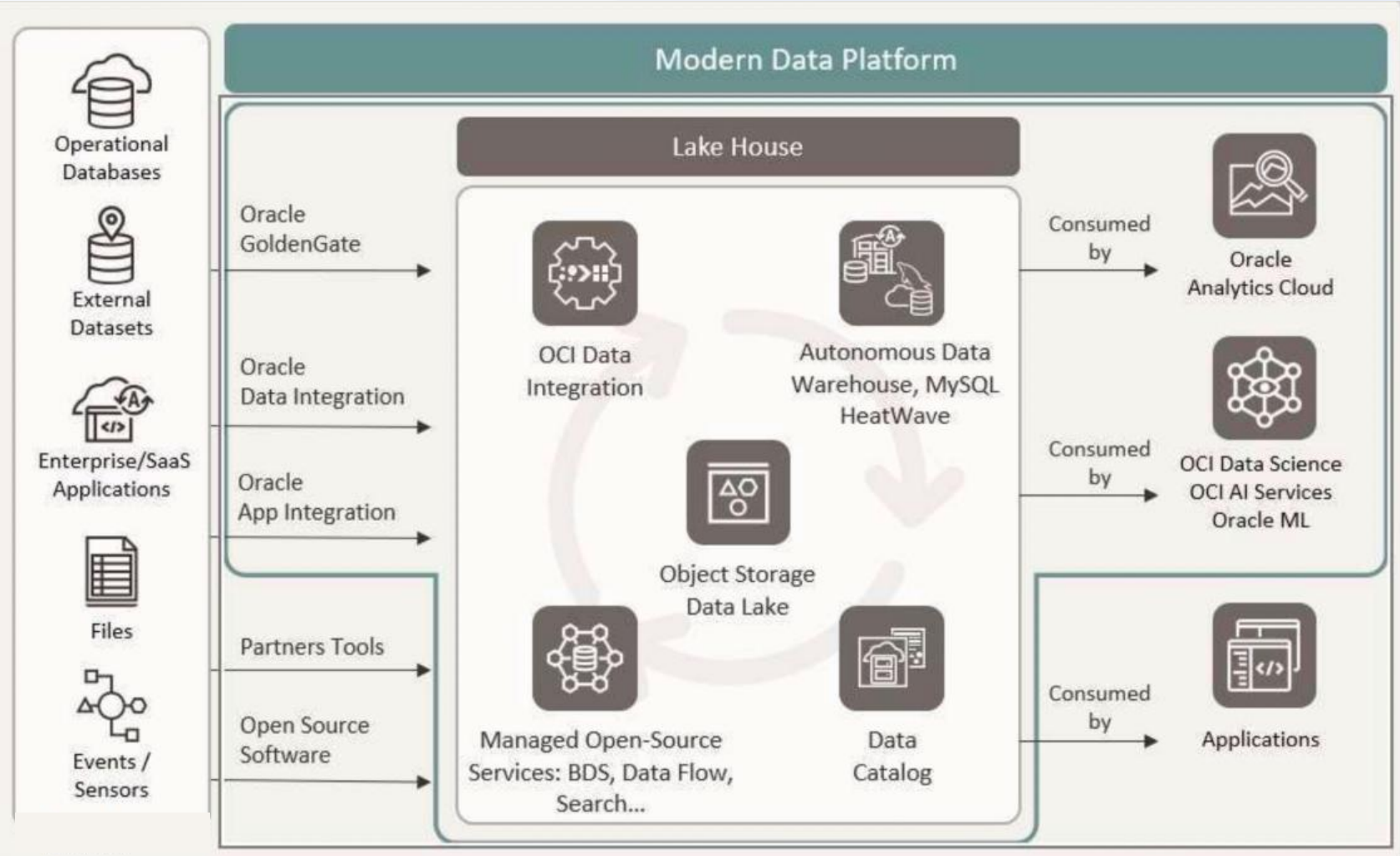
Data Lakehouse

Data Warehouse + Data Lake = Data Lakehouse

Tripwire solutions



Tripwire solutions



Tripwire solutions

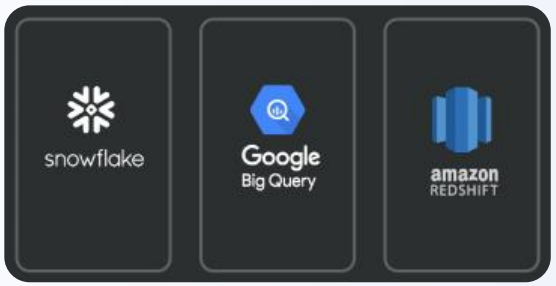
Give your AI & Analytics the enterprise data they deserve

- AI & Analytic initiatives need unified view of data across the enterprise.
- Fragmented data silos hinder AI and analytics initiatives.
- Enterprises Data spread across multiple systems creates:
  - Data drift & Inconsistent records
  - Complex ETL integration pipelines
  - Separate security models
- Lack of unified access across data formats and data location
  - Slows down AI application development
  - Slows time to analytical insights.
- Data access & performance chalenges
  - Object Storage performance when accessing large data sets
  - Limited support for consistent open table formats

Tripwire solutions

The Data Platform world is changing...

From analytic data silos...



To open and interoperable systems

Tripwire
solutions

Oracle is embracing **Open Standards** and **Open Platforms**

Tripwire
solutions

- Now Oracle is embracing **Apache Iceberg** to provide an **open AI Lakehouse**

- **Iceberg** standard defines a common **table format** and **open catalog** for tables in object store

Tripwire solutions

Why Iceberg Maters:
Open Table Format = Freedom + Flexibility

- What is Iceberg?
  - It is an **open-source table format** designed for cloud data lakes
    - Includes data files presented as a "unified" table
    - Includes Metadata stored in manifests files along with data
- Why does Iceberg mater?
  - Your data is not locked into any vendor
  - Designed for TB to PB scale across object storage
  - Built for multi-engine access
  - Maintains ACID Compliance with multiple engines making updates
  - Enables schema evolution without pain
    - Add Columns / Drop Columns
  - Simplifies building data pipelines to give your AI the data it needs

Tripwire solutions

- Apache Iceberg has many benefits
  - Data versioning
  - Partitioning
  - Basic transactions
  - Basic schema evolution
- And some tradeoffs
  - No indexes
  - Batch-oriented updates
  - Table-level transactions
  - Rudimentary security
  - Slow storage

Tripwire solutions

Iceberg tables are **concurrently readable and writeable** by many data engines

Tripwire solutions

Unified AI & Analytics with Oracle Autonomous AI Lakehouse

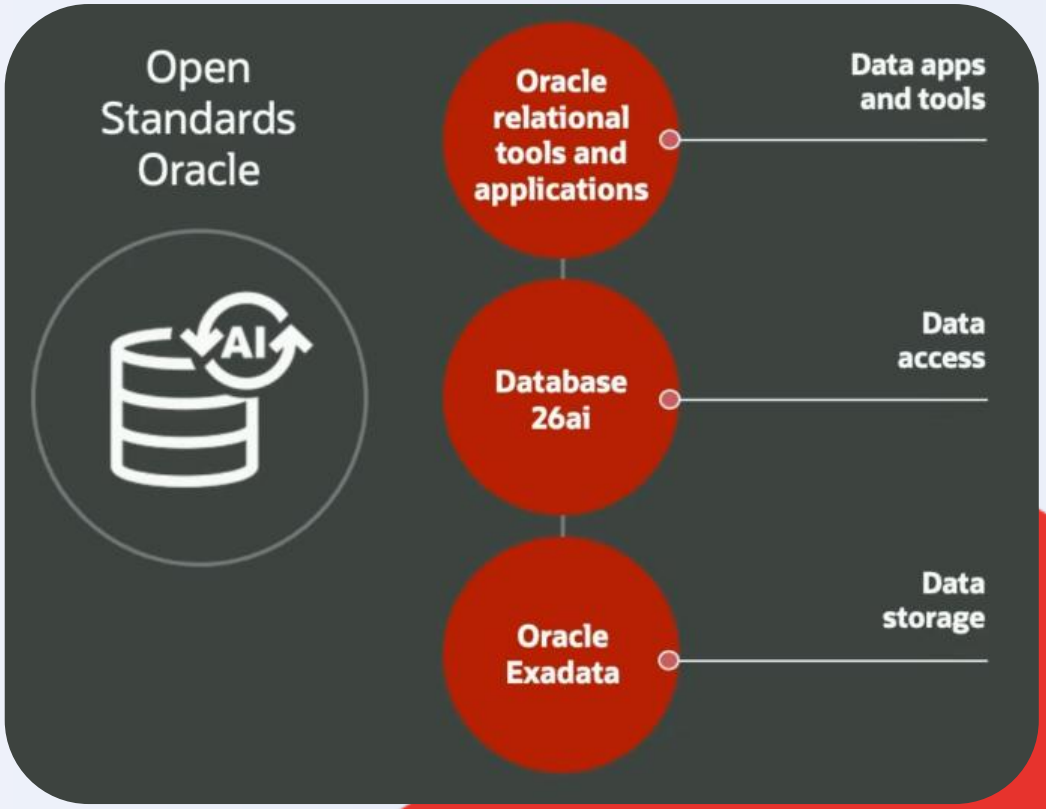
Enterprise-wide AI & analytics with the best of Open Table Iceberg Data Lake
PLUS the best of Oracle

Converged platform that combines the optimized performance and efficiency of the Oracle AI Database with the openness of Apache Iceberg to deliver a unified Lakehouse environment for all of your data, all of your workloads, in all clouds.

Tripwire solutions

The Oracle data platform is arguably the most capable

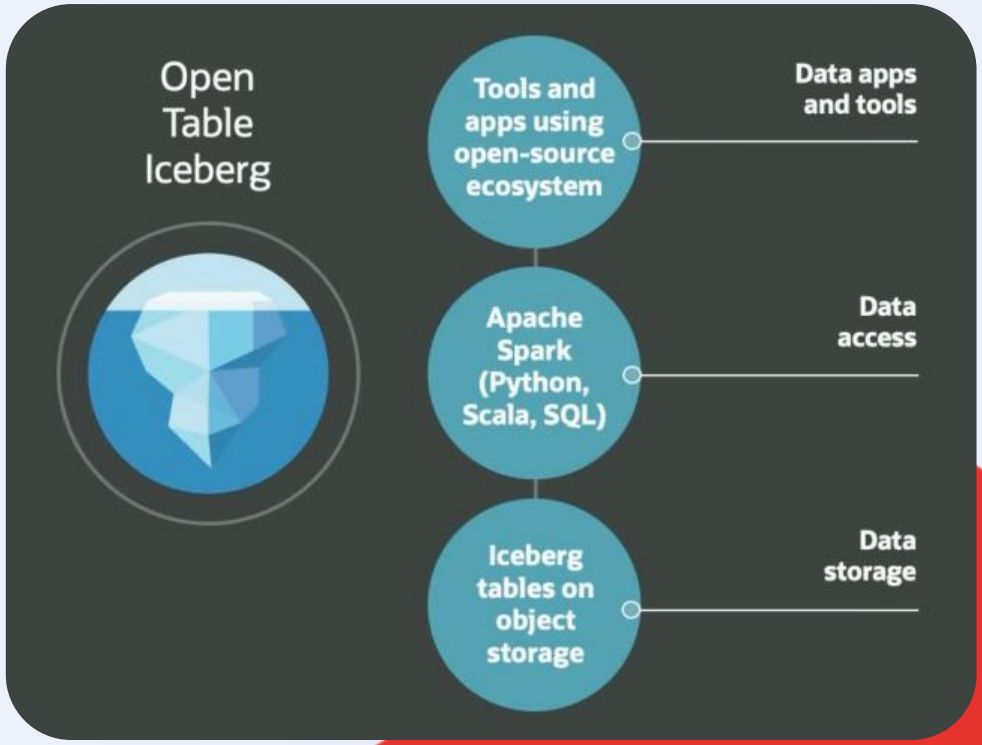
- Converged Data Architecture supports all leading data types
- Sophisticated secure analytic SQL perfected over 45 years
- Translytical real-time, enterprise workloads
- Broadest ecosystem of tools and apps
- Extreme-performance Exadata storage for same price as object store
  + no cost per I/O



Tripwire solutions

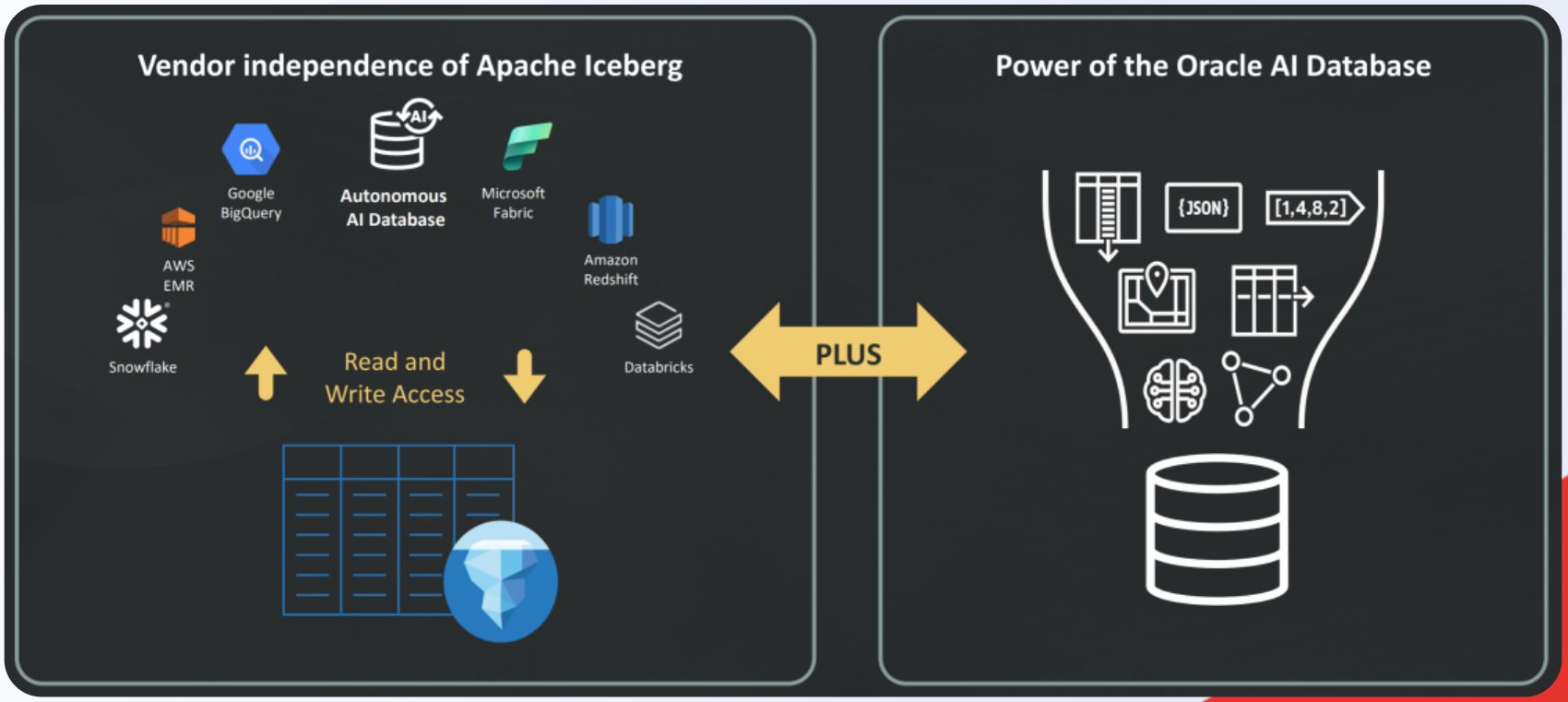
An Iceberg-based data platform is arguably the most open

- Popular with data science and AI communities
- Open-source analytics engines such as Spark and Flink, to process data
- Open data formats:
  Parquet, CSV, JSON, Avro,
  Delta UniForm, Iceberg
- Highly scalable and low-cost object storage



Tripwire solutions

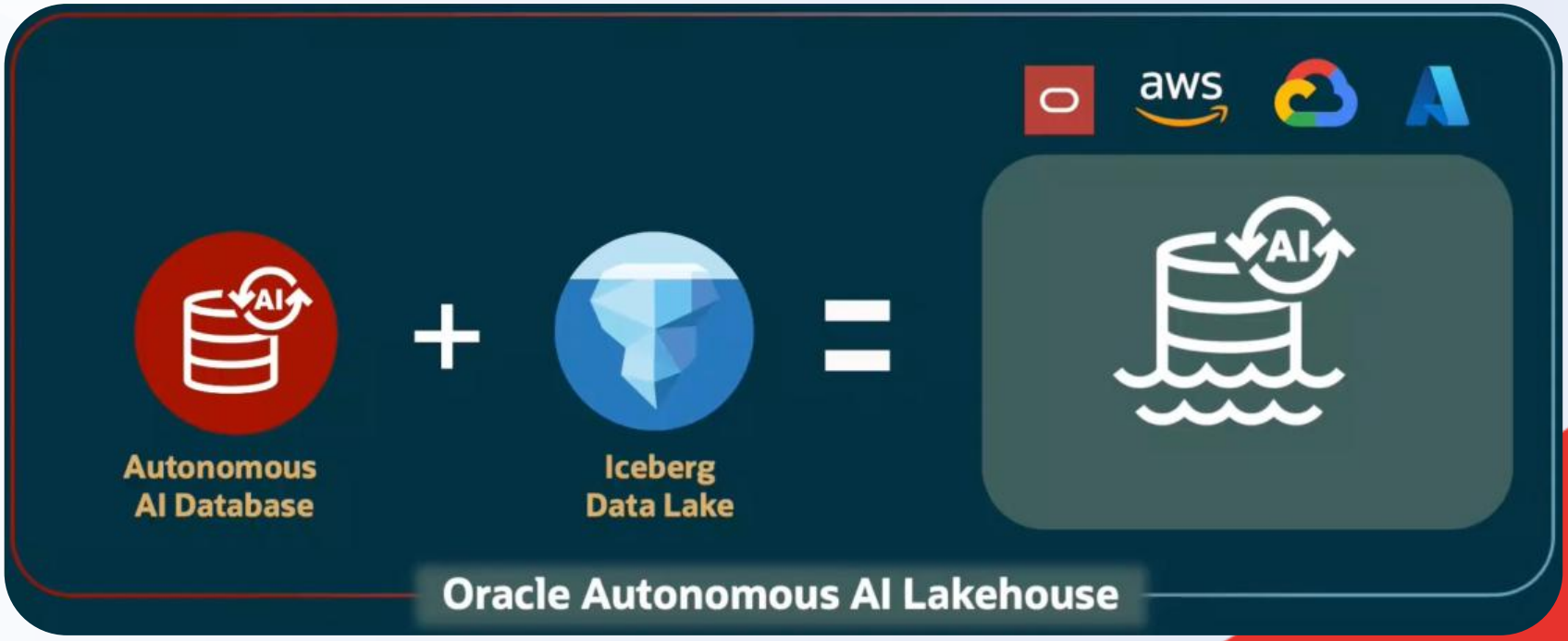
Oracle's new Autonomous AI Lakehouse: The best of both worlds



Oracle Autonomous Data Warehouses have **automaticaly** become **Autonomous AI Lakehouses**

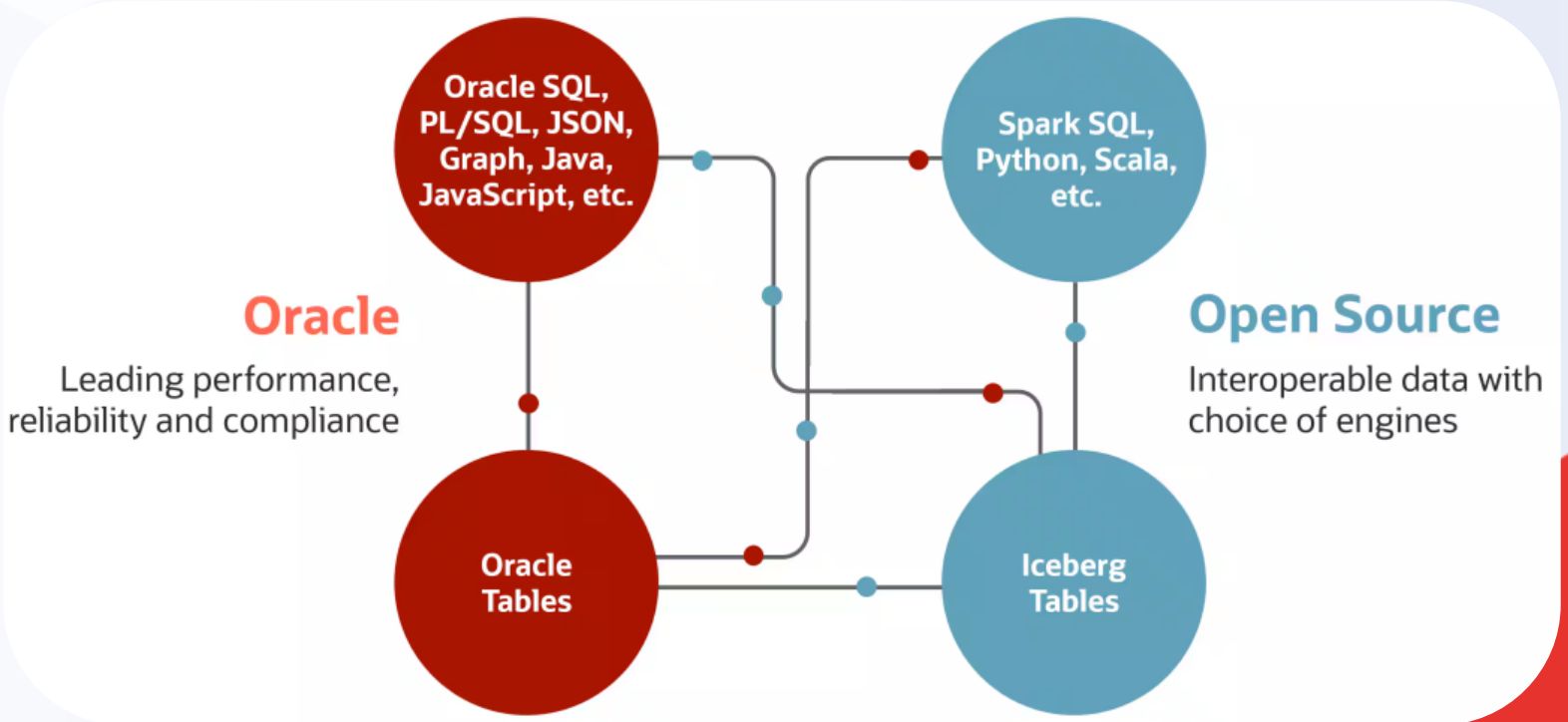
Tripwire solutions

A true multi-cloud Lakehouse



Tripwire
solutions

Instead of having to choose between most capable and most open platform, you can now get the best of both with the **Oracle Autonomous AI Lakehouse**



Tripwire solutions

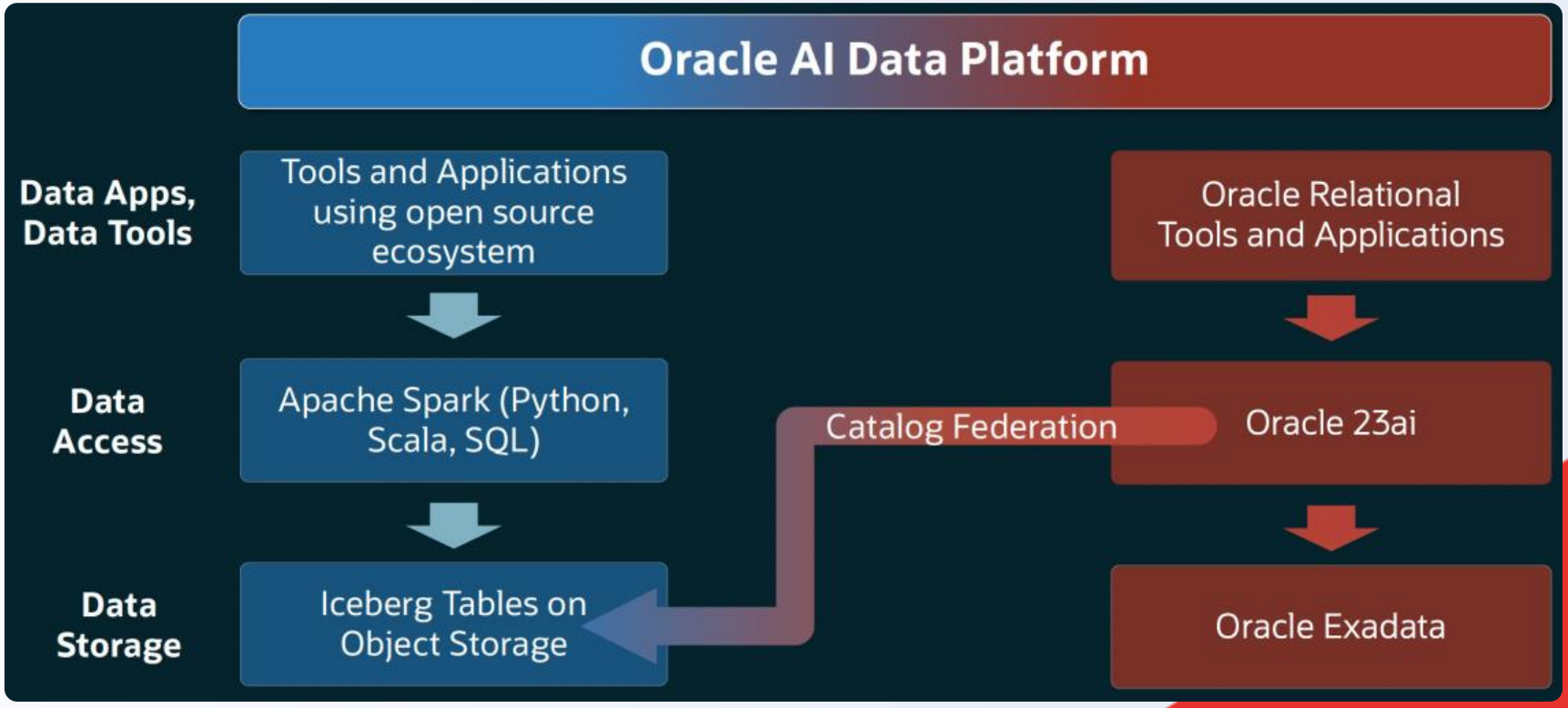
Oracle Autonomous AI Lakehouse

- Delivers the best of both worlds-powerful plus open

- Oracle now brings its **performance, reliability, and AI** to Iceberg with zero data movement
- A built-in data catalog provides a **unified view** of al enterprise data
- Oracle Data Lake Accelerator provides **fast and scalable queries** of Iceberg tables
- Fuly managed, **autonomous operation** eliminate administrative overhead

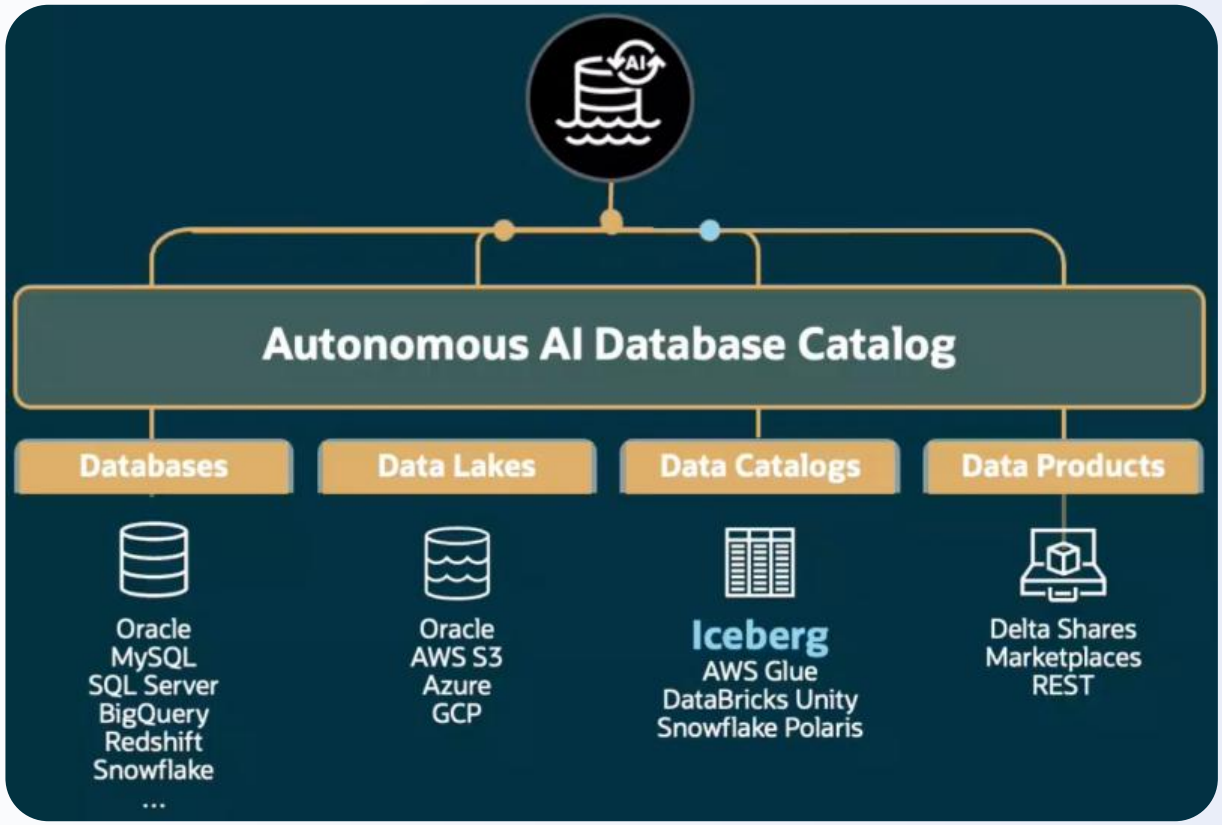
Tripwire solutions

Run any Oracle SQL workload transparently against Iceberg tables



Tripwire solutions

Unified Enterprise View of Data with Autonomous AI Database Catalog

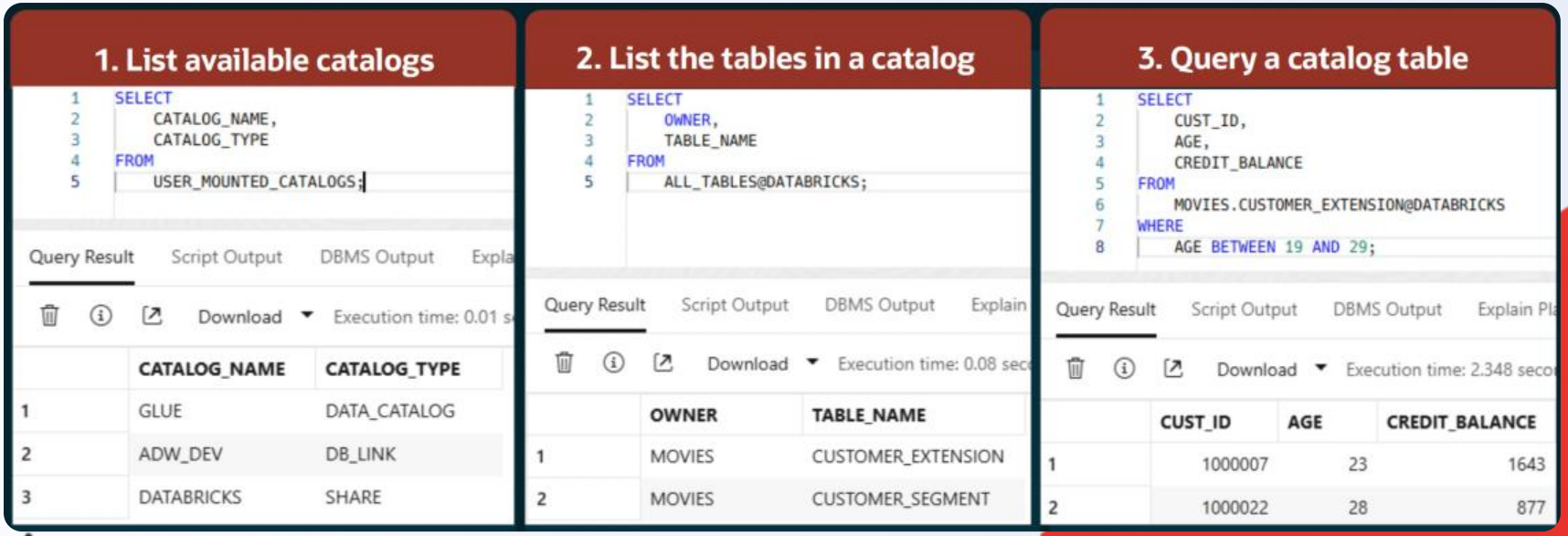


- All the capabilities of the Al Lakehouse on all your data
- "Catalog of catalogs" architecture
- Enables Oracle Al Lakehouse to discover, access, optimize, and analyze data from other catalogs and sources

Tripwire solutions

Autonomous Database Catalog provides Plug-and-Play Access to Iceberg

- Simple SQL access to any Iceberg table
  - Browse from any Iceberg catalog, or one-command setup for Iceberg Tables in object storage
- Full read-only access for analytics and AI



Tripwire solutions

Plug-and-play access to Iceberg data from Oracle SQL

```
SELECT employee_name
FROM   hr.employee_event@Databricks
WHERE  period_begin ='01-July-2025';
```

- Simple syntax to use Iceberg tables

  schema.table**@catalog**

- Use any Iceberg catalog
  - Databricks Unity
  - Snowflake Horizon
  - AWS Glue
  - And more

Tripwire solutions

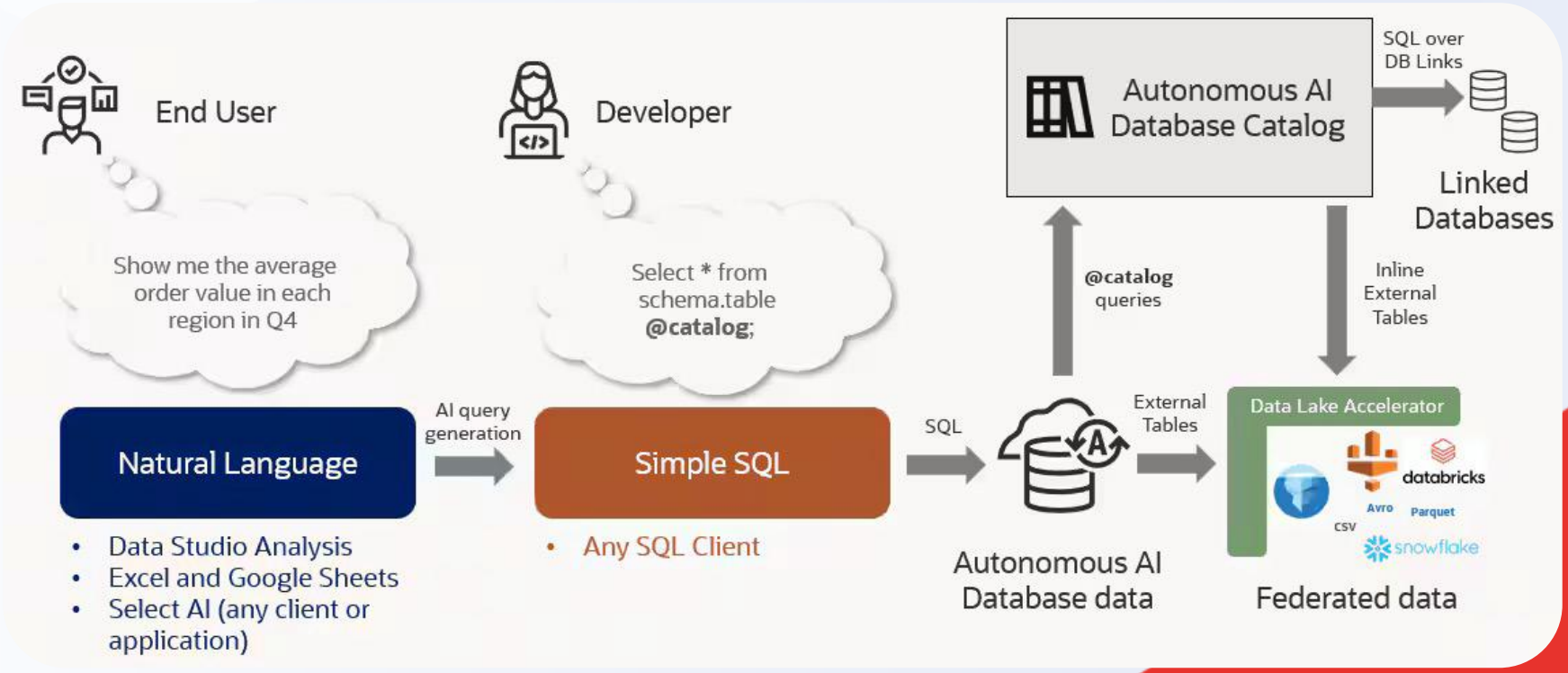
Self Service AI Capabilities: Data Science Agent

Use a pre-built AI assistant to search data catalogs, prepare and explore data, uncover key insights, and transform them into actionable insights.

This agent is your digital teammate that speaks natural language.
You ask questions. It gets the answers.

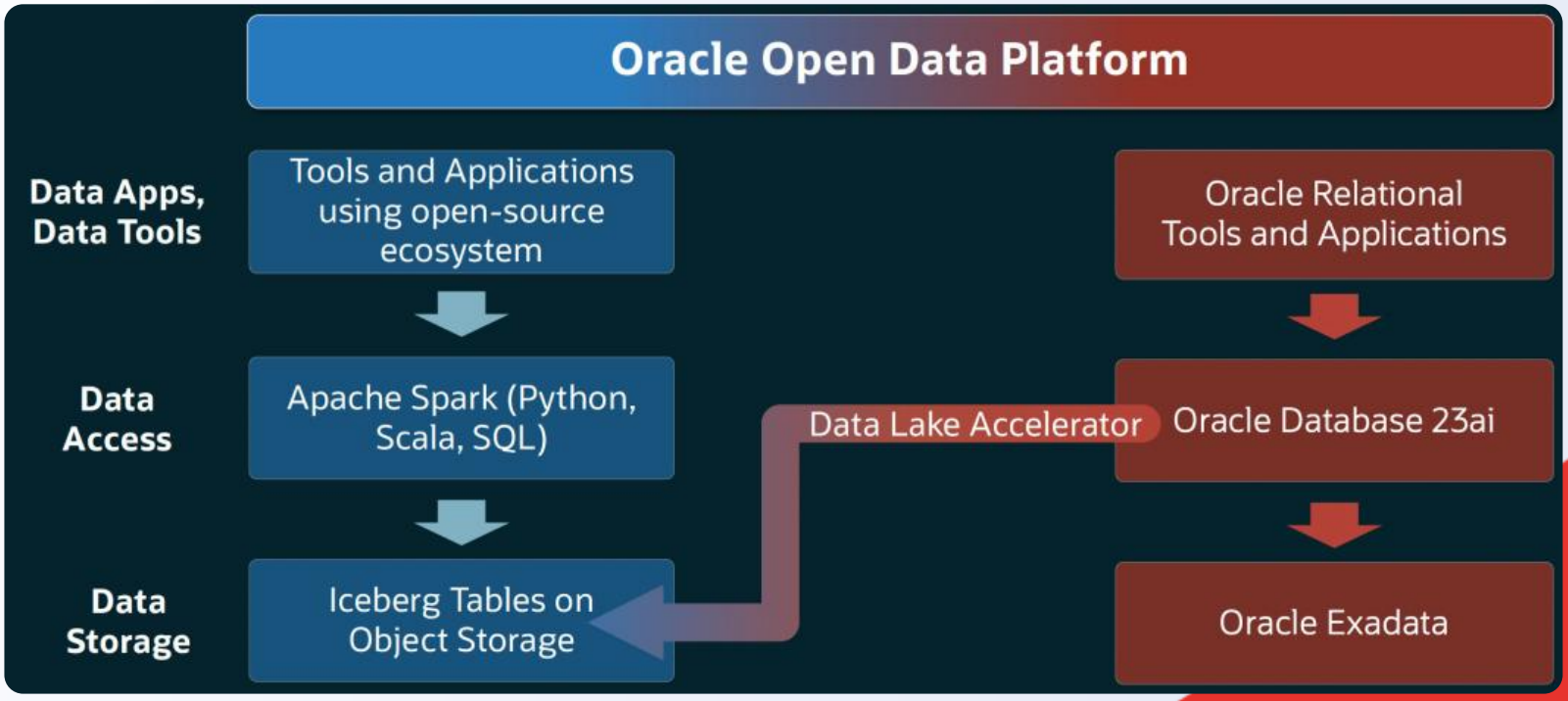
Tripwire solutions

Oracle Autonomous AI Database Catalog



Tripwire solutions

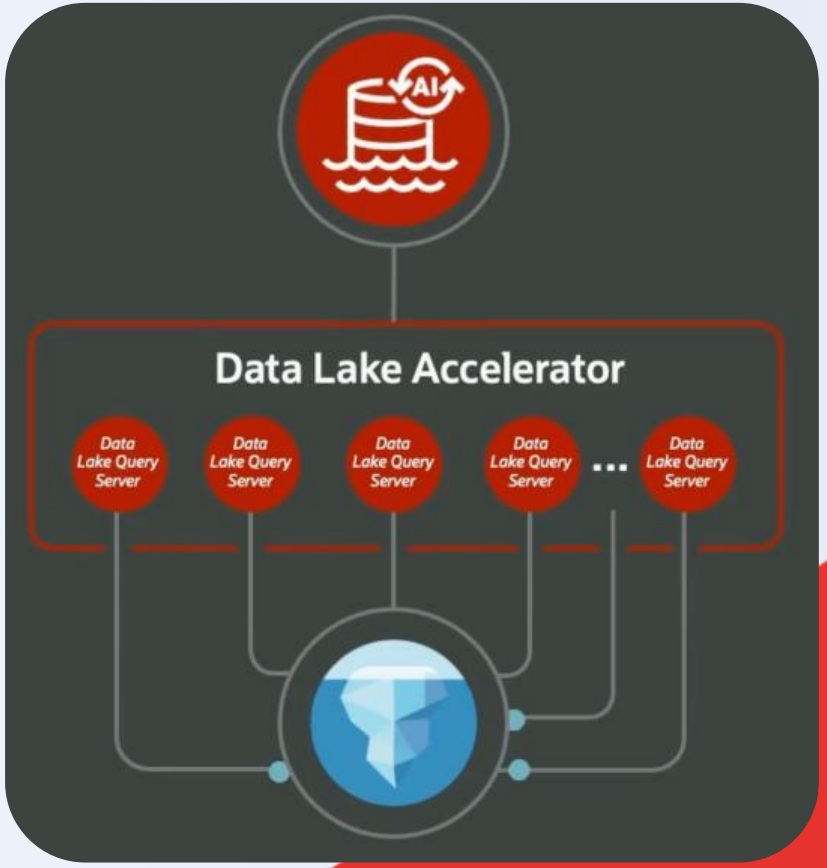
What about performance?
Scale-out access using the Oracle Data Lake Accelerator



Tripwire solutions

Oracle Data Lake Accelerator

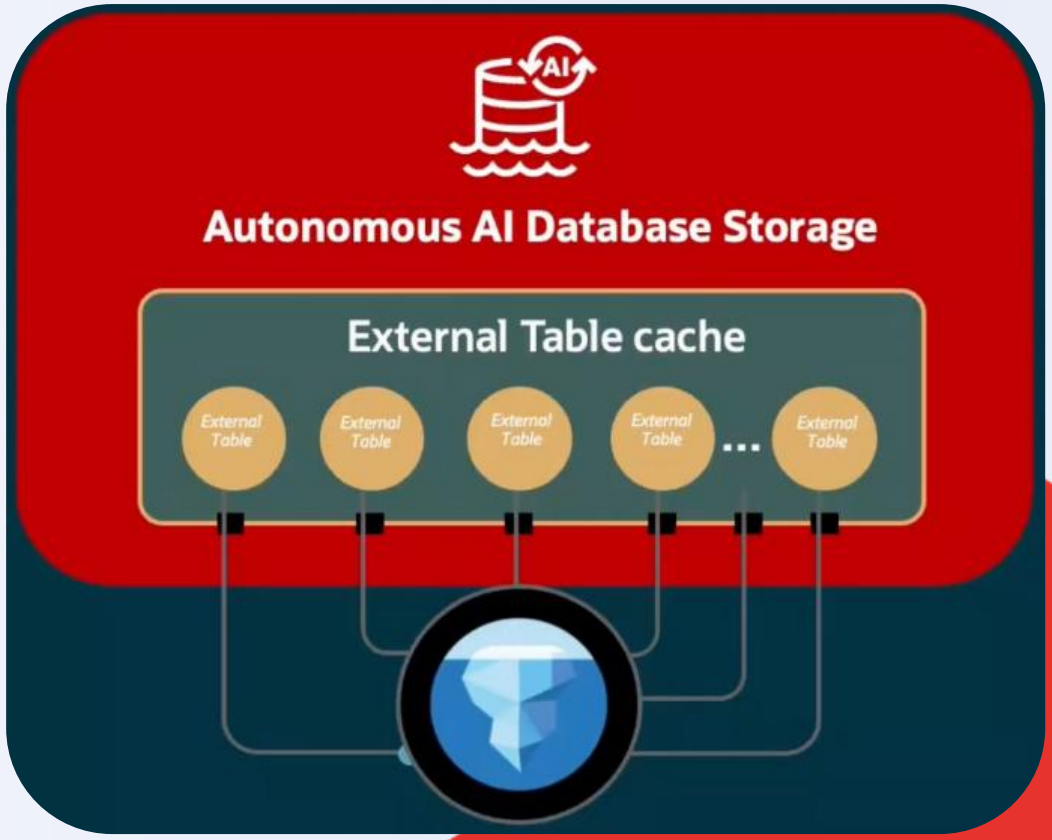
- Scale out network bandwidth dynamicaly for scanning very large Iceberg tables
- Automatic and transparent: accelerator allocates additional network and compute resources to optimize speed
- Pay-as-you-go: activated during query execution and deactivated afterwards



Tripwire solutions

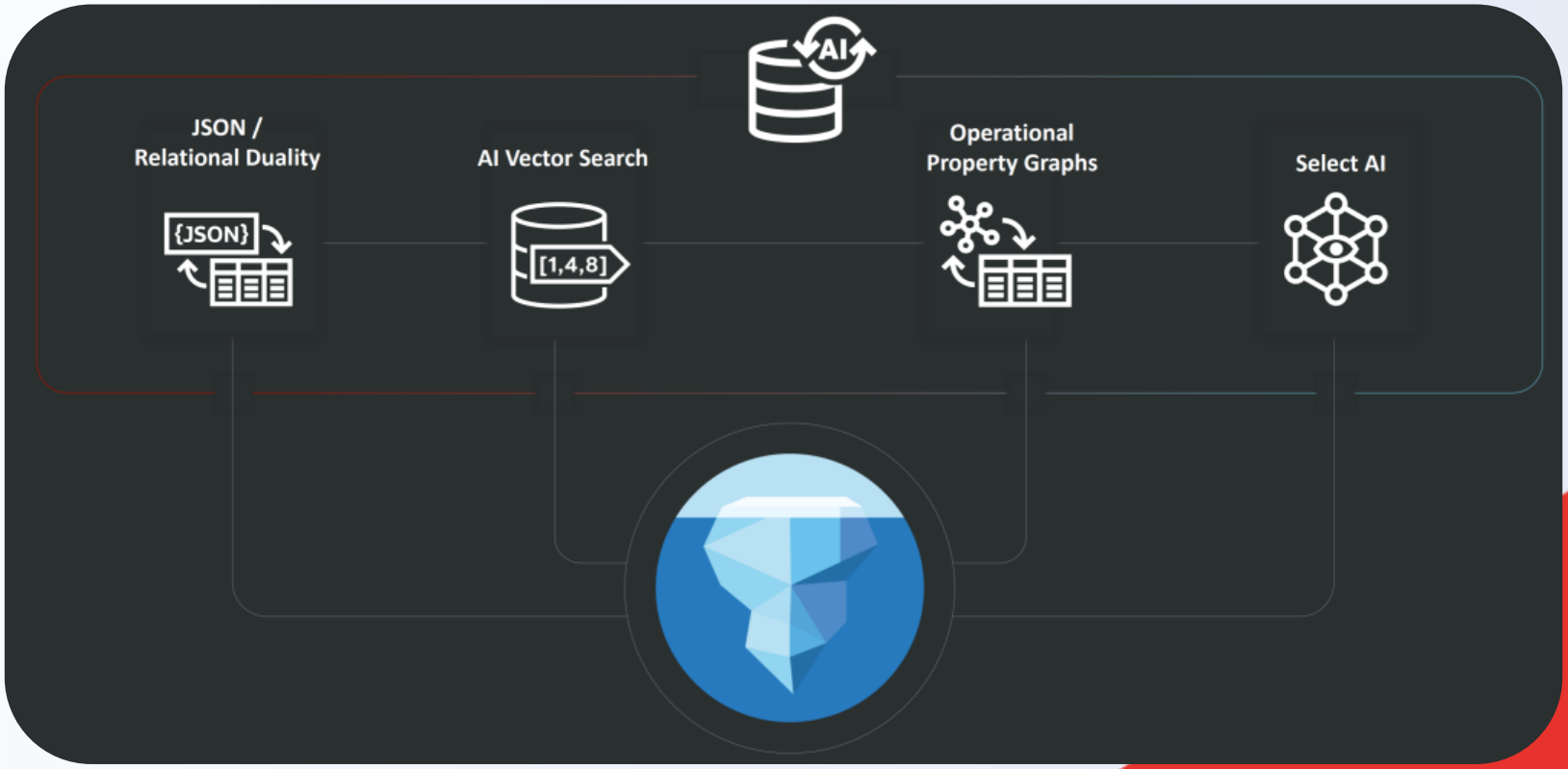
External Table Cache

- Eliminate latency and repeated cloud fetches
- Keep your existing ETL pipelines, governance models & controls
- Use policy driven automatic caching to optimize cost & performance
- Exadata table cache:
  Boost Iceberg data performance by caching frequently accessed tables in Oracle Exadata flash storage, delivering the performance of native Exadata tables.



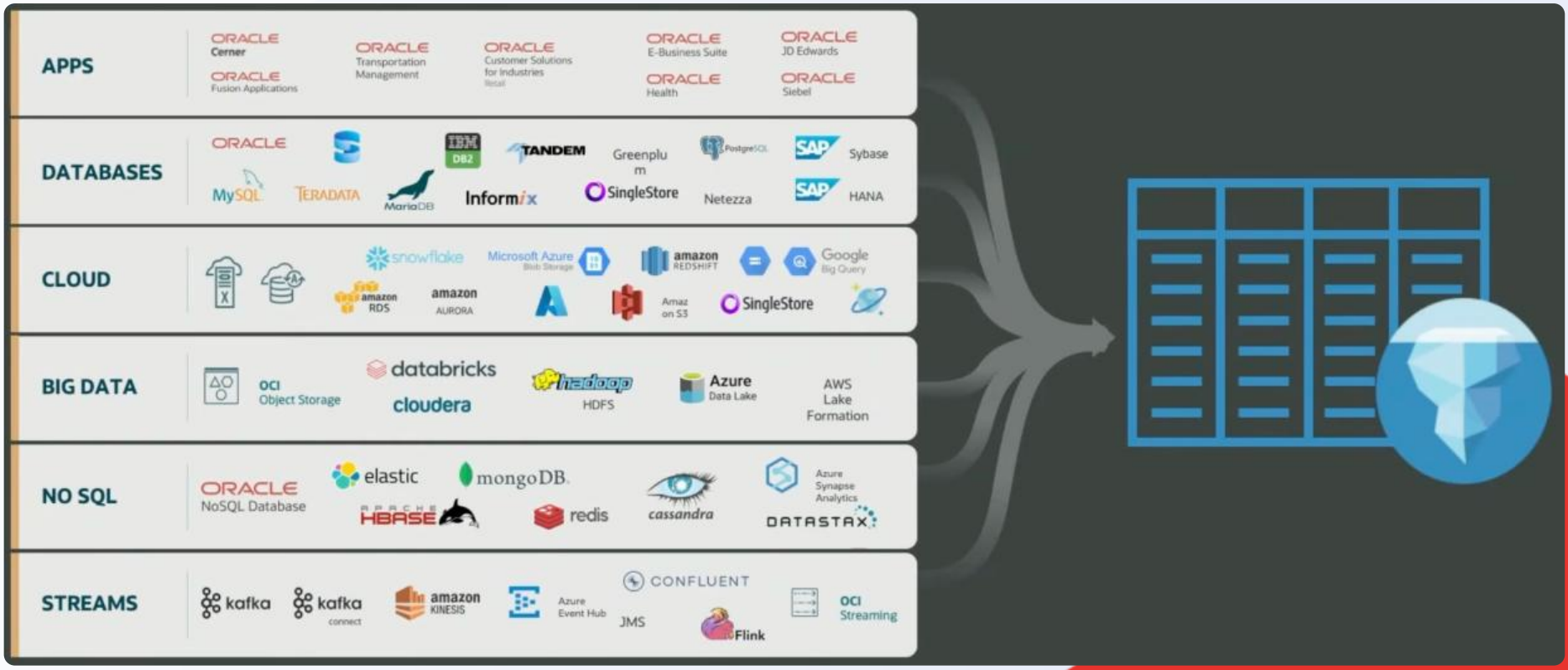
Tripwire solutions

Power of Oracle AI Database on Iceberg Tables with zero data movement



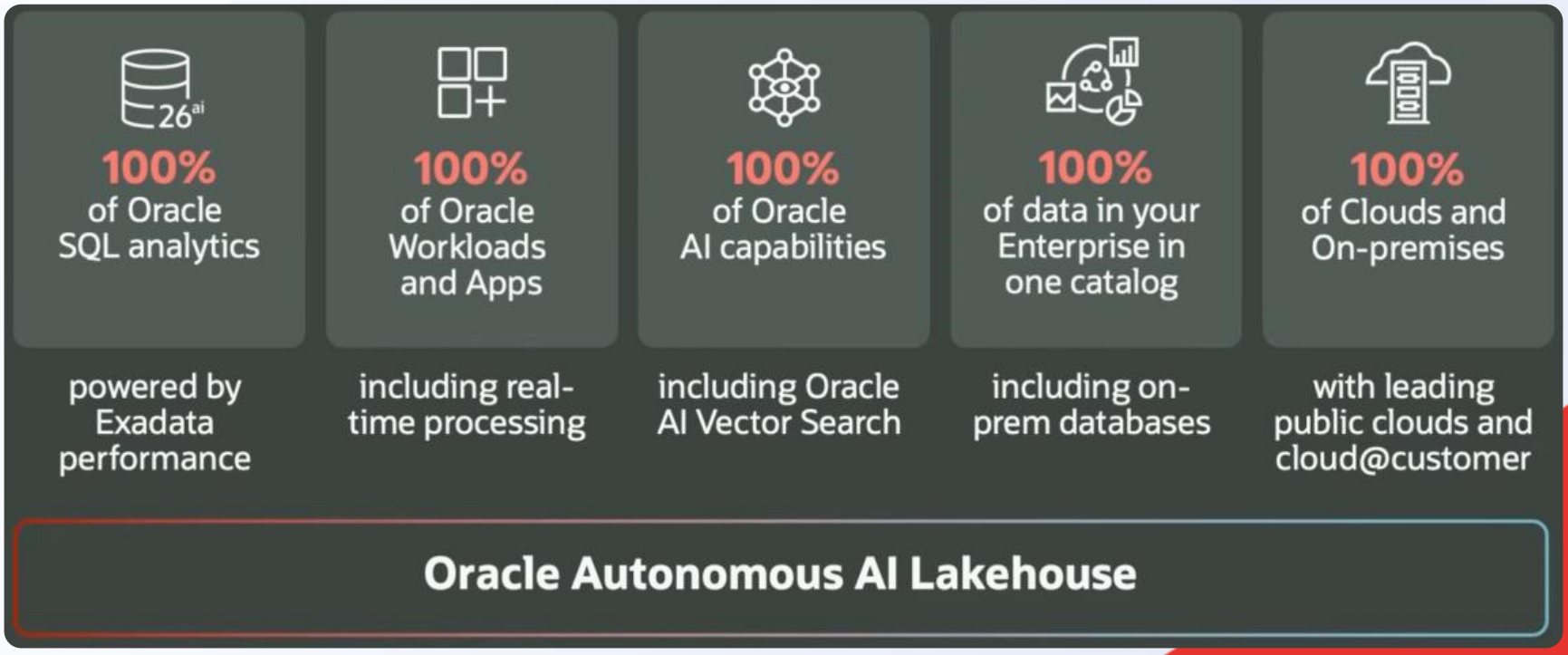
Tripwire solutions

GoldenGate and Oracle ETL provide real-time data pipelines from hundreds of data sources



Tripwire solutions

Improves open table Iceberg in every dimension



Tripwire solutions

Run AI and analytics securely on all your data without lock-in

Open and interoperable

- Open by design with Apache Iceberg
- Runs everywhere

Lakehouse without compromises

- The openness of Iceberg with the performance, reliability and trust of Oracle
- Extend existing warehouses to lakehouse architecture

AI-powered operations

- Operationalize AI insights directly in business operations
- Built-in AI, analytics, and compliance across **all** data

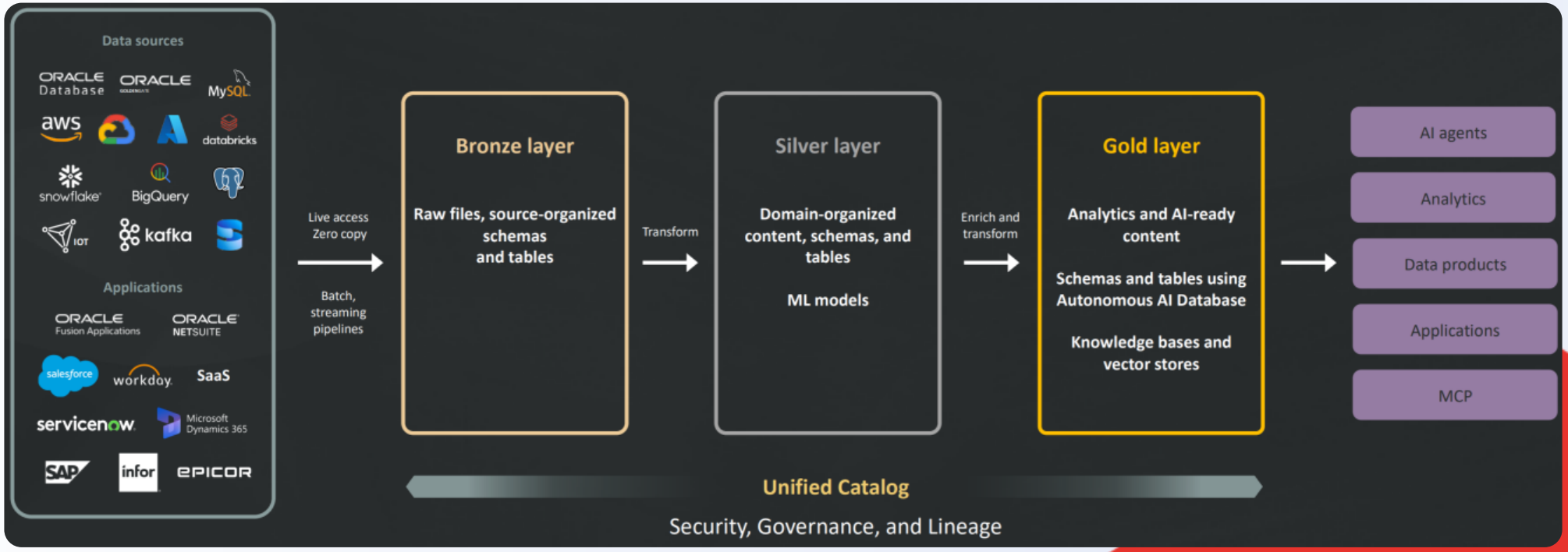
Tripwire solutions

What makes the Autonomous AI Lakehouse Awesome?

- Key Benefits:
  - Unified view of your data via the catalog, so AI can actually find it
  - Works the same in every cloud (OCI, AWS, Azure, GCP)
  - Takes care of tuning and optimization for you
  - Leverages open formats like Iceberg and Parquet so you keep control
  - Super secure with built-in guardrails
  - Plays nicely with other tools you already use
  - Fast analytics on huge object storage datasets
  - Saves money by using efficient storage and serverless tech

Tripwire solutions

Data for AI
Enterprise-grade lakehouse foundation



Tripwire solutions

Oracle AI Data Platform (AIDP)

- Oracle AI Data Platform brings together data, analytics, and AI in a single, governed environment. It unifies the entire data-to-AI lifecycle—from ingestion and preparation to model development and deployment—on a secure, scalable foundation.
- With integrated services like Autonomous AI Database, Oracle Analytics Cloud, Apache Spark and OCI Generative AI, AI Data Platform helps teams prepare, govern, and apply AI to their data efficiently.
- Whether you're engineering data, developing models, or building intelligent applications, AI Data Platform provides the speed, governance, and integration needed to operationalize AI across the enterprise.

Tripwire solutions

Oracle AI Data Platform

Autonomous AI Database

Analytics

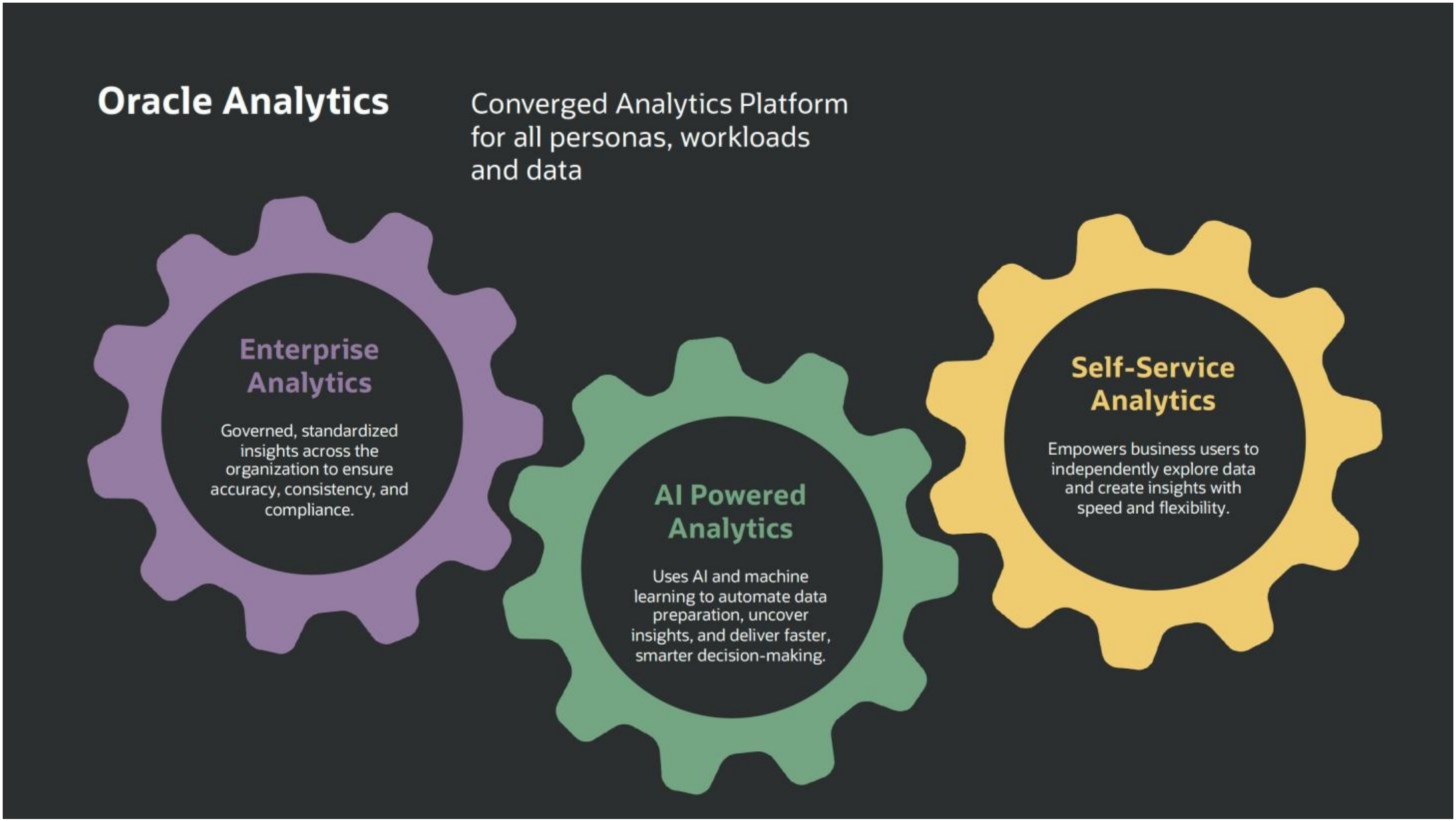
Open-Source Engines

Infrastructure

Generative AI

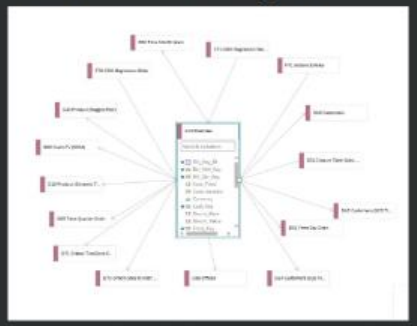
Seamlessly integrates multiple OCI services including compute, storage, database, analytics, and AI into a cohesive experience that enables organizations to build, deploy, and manage AI solutions at enterprise scale

Tripwire solutions


Oracle Analytics
Converged Analytics Platform for all personas, workloads and data
Enterprise Analytics
Governed, standardized insights across the organization to ensure accuracy, consistency, and compliance.
AI Powered Analytics
Uses AI and machine learning to automate data preparation, uncover insights, and deliver faster, smarter decision-making.
Self-Service Analytics
Empowers business users to independently explore data and create insights with speed and flexibility.

Enterprise Analytics

Centralized Semantic Layer



Interactive Dashboards

Report Bursting

Data Governance & Security

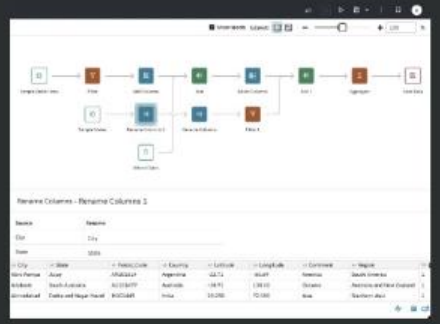
Scheduling, Alerts, & Automation

Collaboration & Sharing

Self-Service Analytics

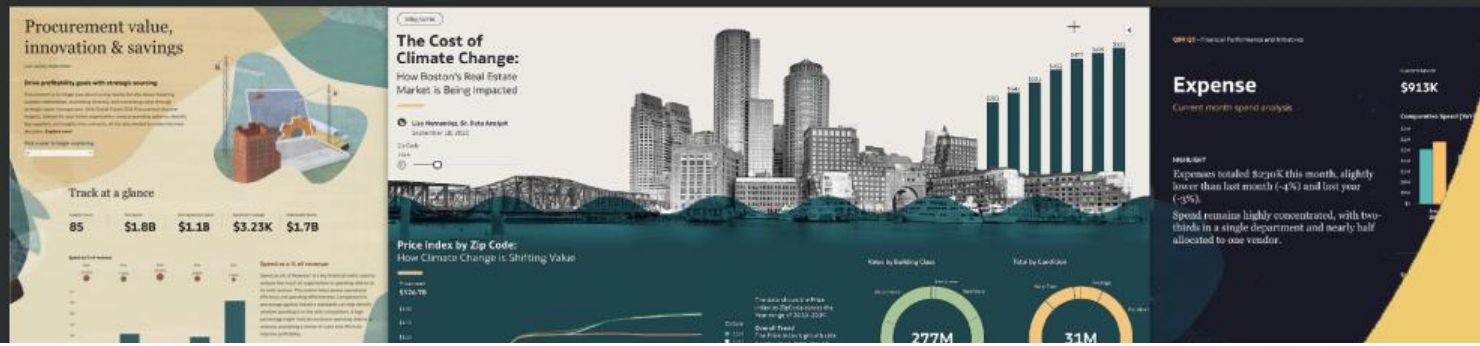
Open Connectivity

Data Preparation



Data Modeling

Data Visualization



AI Powered Analytics

Data Enrichment

AI-Assistants

Contextual Insights

Advanced Analytics

AI Storytelling

No-code Custom ML

Explain

Natural Language Interactions

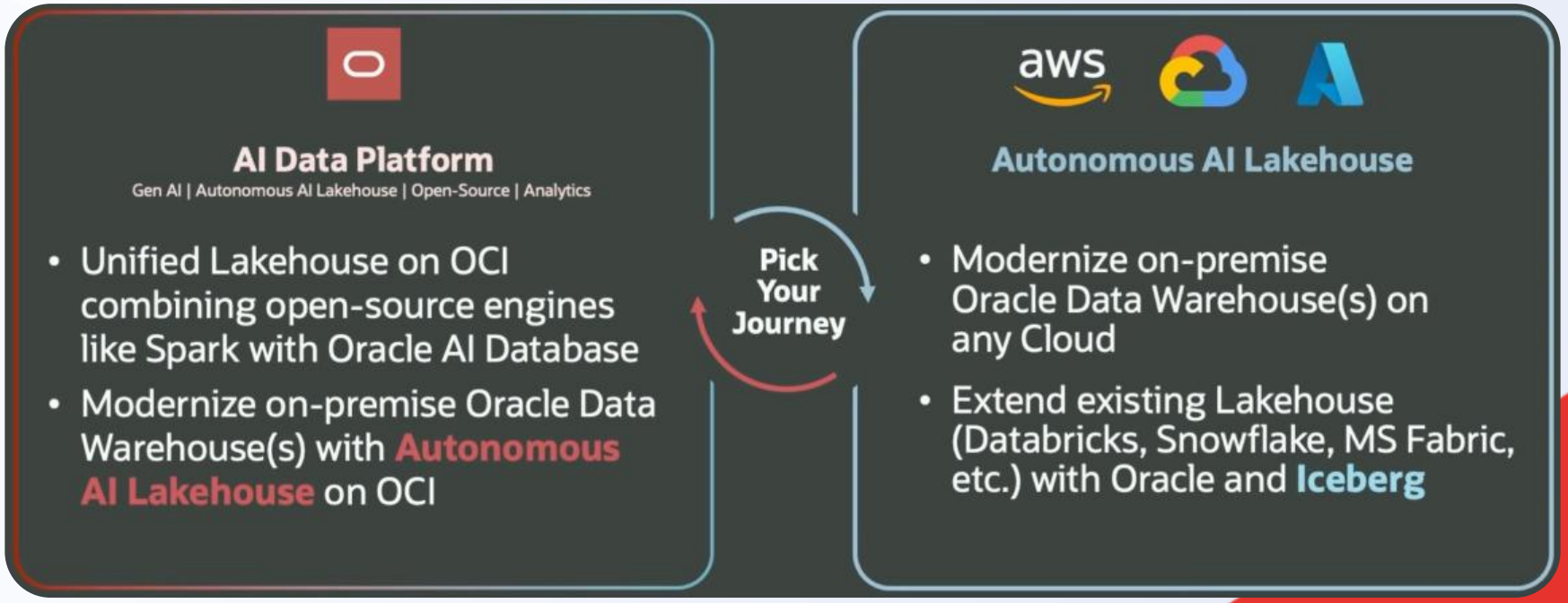
Natural Language Generation

Auto Insights

OCI AI Services Integration

Database ML Integration

Complete and Comprehensive on OCI or multicloud



Tripwire solutions

Tripwire Solutions: How can we help you?

- Assessments
- Setup your Data Platform environments
- Team enablement and Training
- Provide Experts for point solutions

Tripwire solutions

Q & A

Tripwire solutions