What is the Oracle Cloud?

What is the Oracle Cloud?

The Oracle Cloud is a comprehensive cloud computing platform that offers a wide range of services, including Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).

Oracle Cloud is designed to provide a secure and scalable cloud platform for businesses and organizations.


The Cloud
A collection of services,
provided over a network,
operated by someone else.

The Cloud

A collection of services, provided over a network, operated by someone else.

Infrastructure

- Azure
- AWS
- Google Cloud Platform
- Alibaba

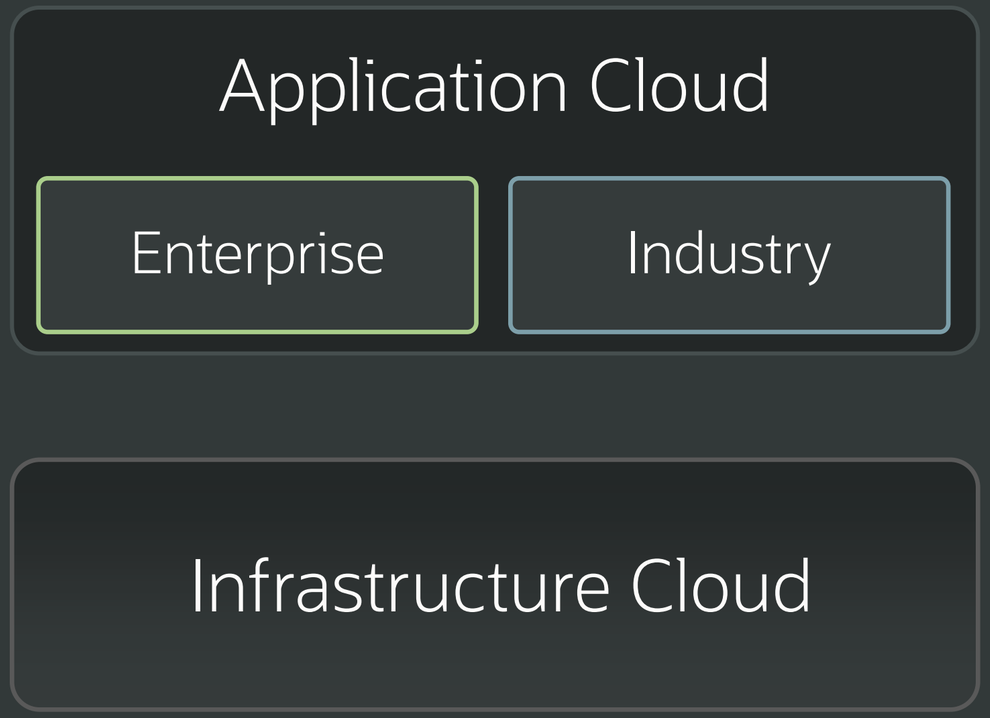
Enterprise applications

- Fusion
- NETSUITE
- Salesforce
- Workday
- Servicenow

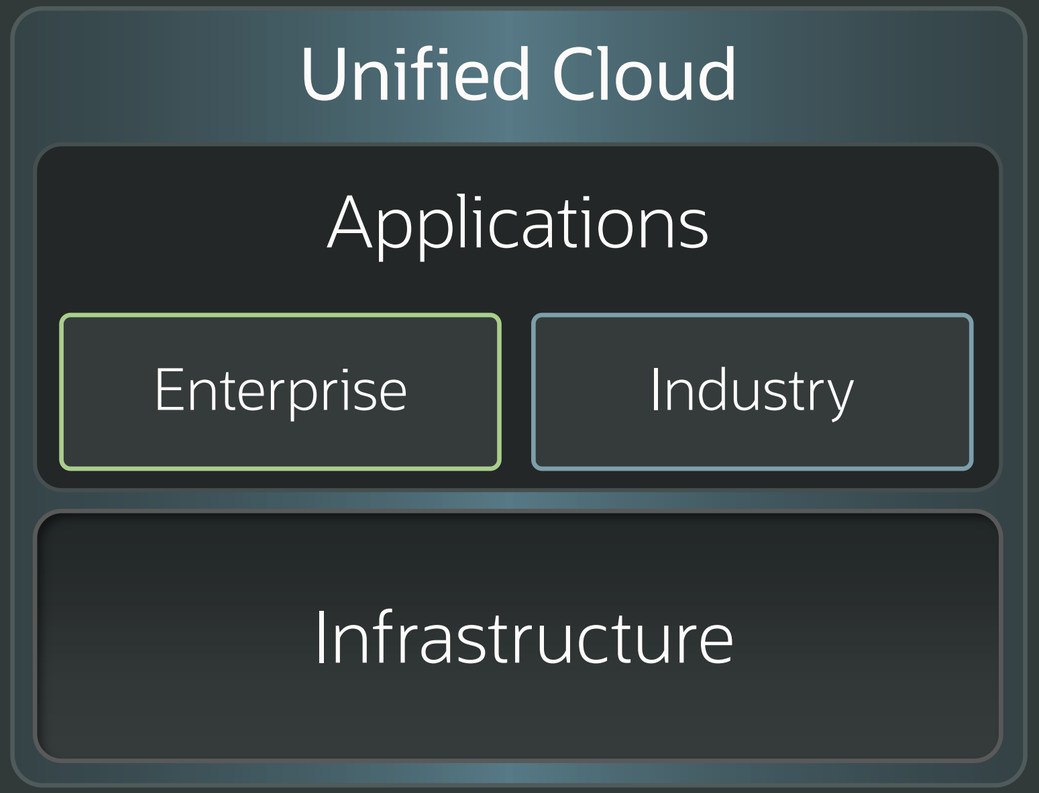
Industry applications

- Cerner
- Micros
- IBM Sterling
- fiserv
- Toast

Typical cloud strategy



Oracle’s Cloud



Oracle Cloud

Deployment choice

Extensibility

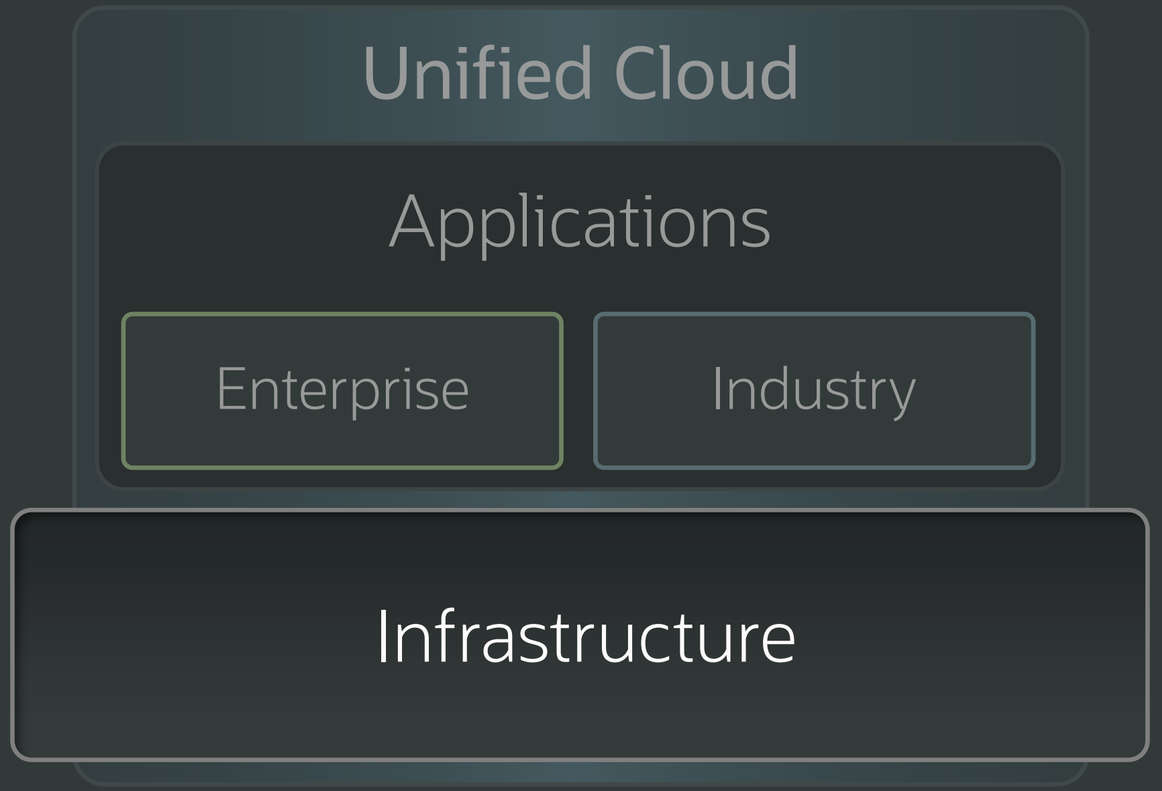
Governance and control

Oracle Cloud Infrastructure

120 services

24k+ customers

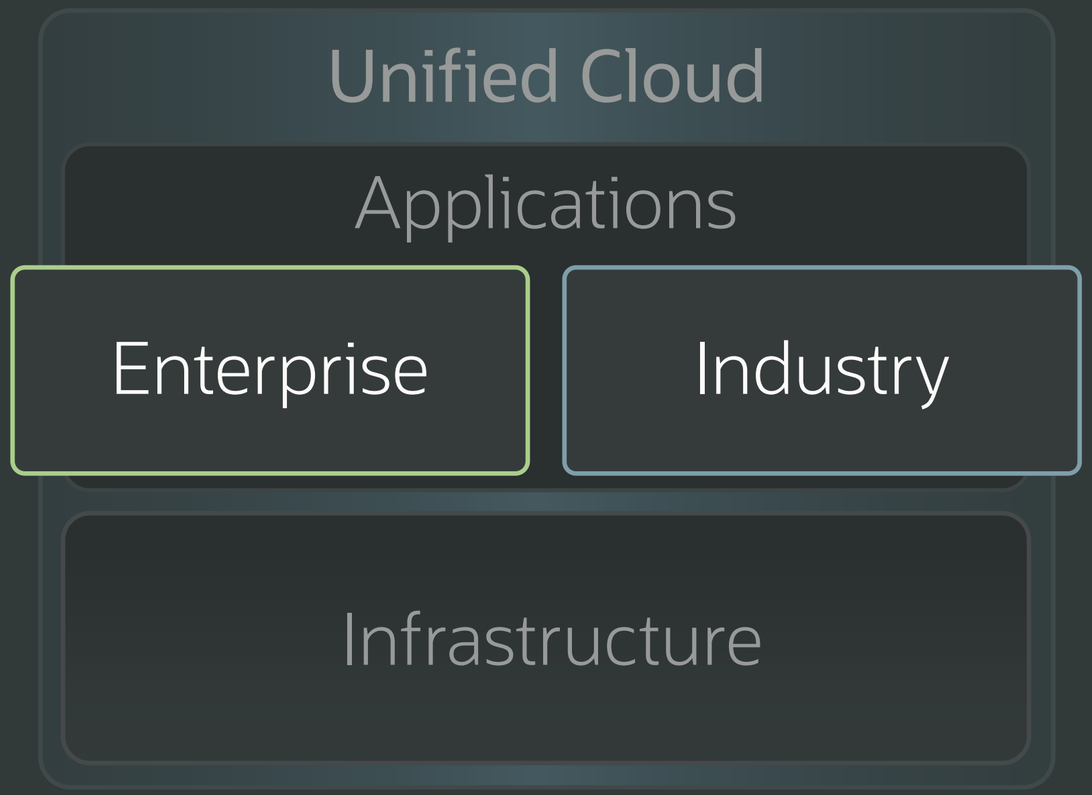
68 customer-facing regions



25M+
monthly users
Oracle Fusion Apps

36k+
customers in 217 countries (256)
Oracle NetSuite

10k+
customers in 180 countries
Oracle Industries Apps



The Oracle Cloud is
applications and infrastructure.

30% Public cloud adoption

Because it can be complicated

- Data residency, security, and privacy
- Latency and performance
- Regulatory compliance
- Expensive to migrate
- Expensive to run

The cloud delivered where you need it

Dedicated Region

Launched April 2021

avaloq

GENERAL DYNAMICS Electric Boat

NRI

مجموعة إثكاء ITHCA GROUP

etisalat by e&

vodafone

وزارة الاتصالات وتكنولوجيا المعلومات Ministry of Communications and Information Technology State of Qatar • دولة قطر

core42

Managed cloud

Full cloud

Your cloud

Multicloud

Clouds work better together

MySQL Heatwave

Oracle DB (Autonomous & Exadata)

OCI Interconnect with Azure

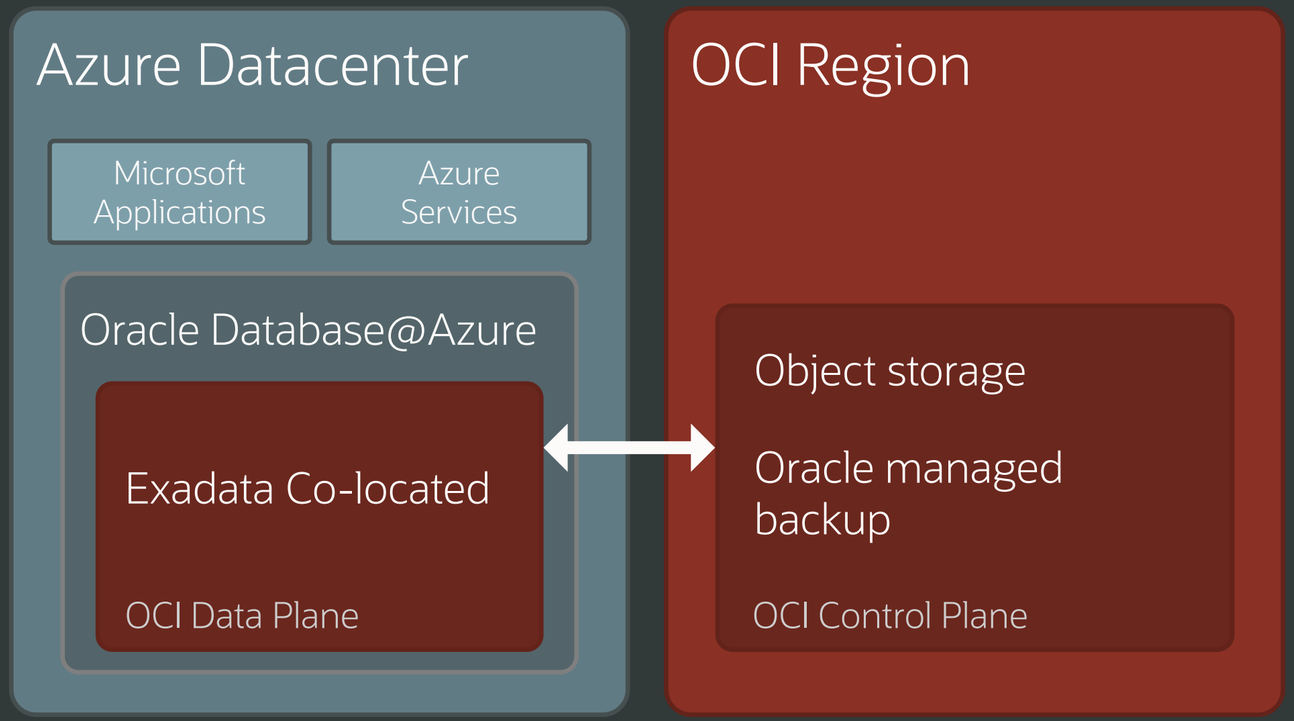
Multicloud

The power of Oracle Database@Azure

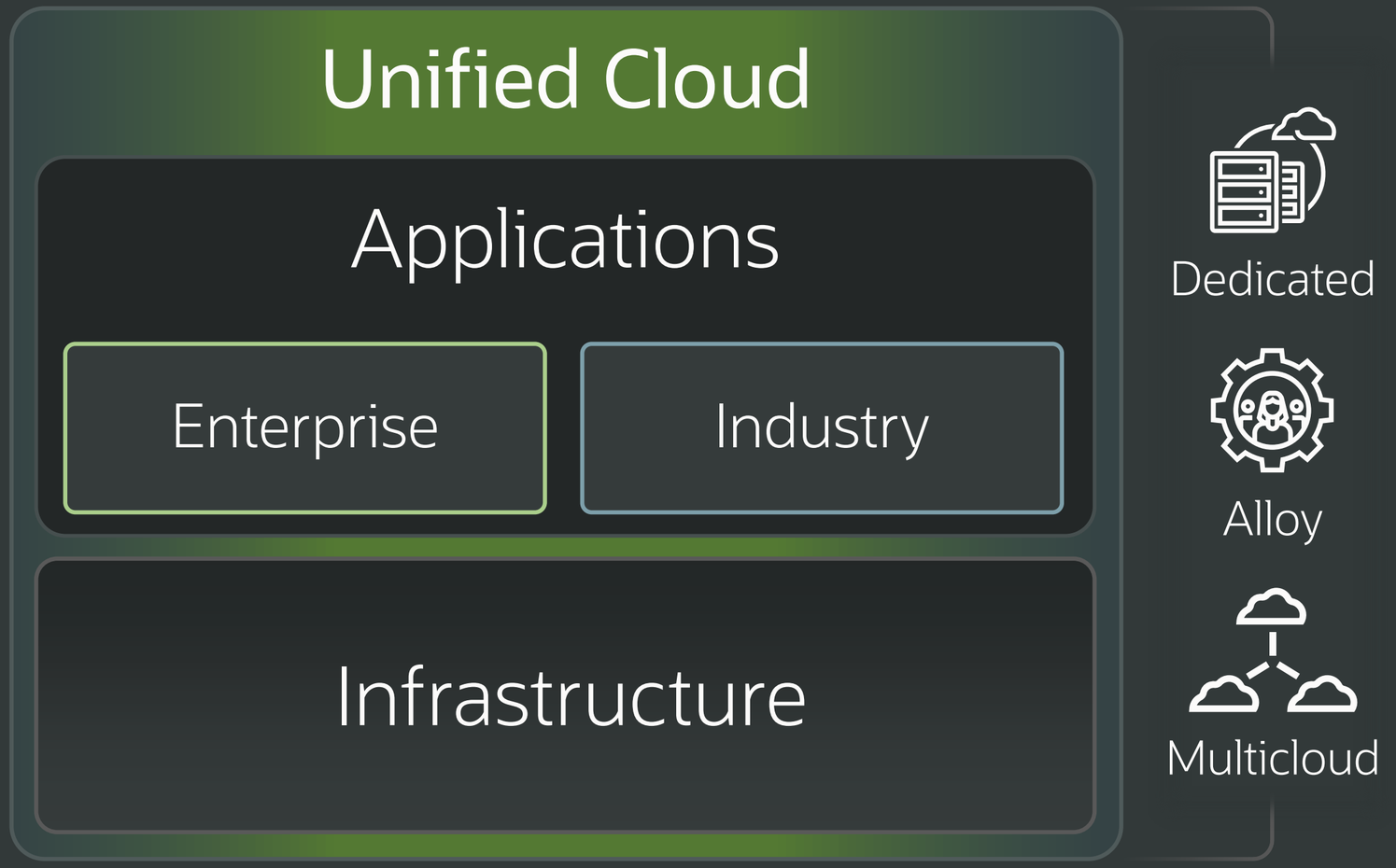
Run workloads where you choose

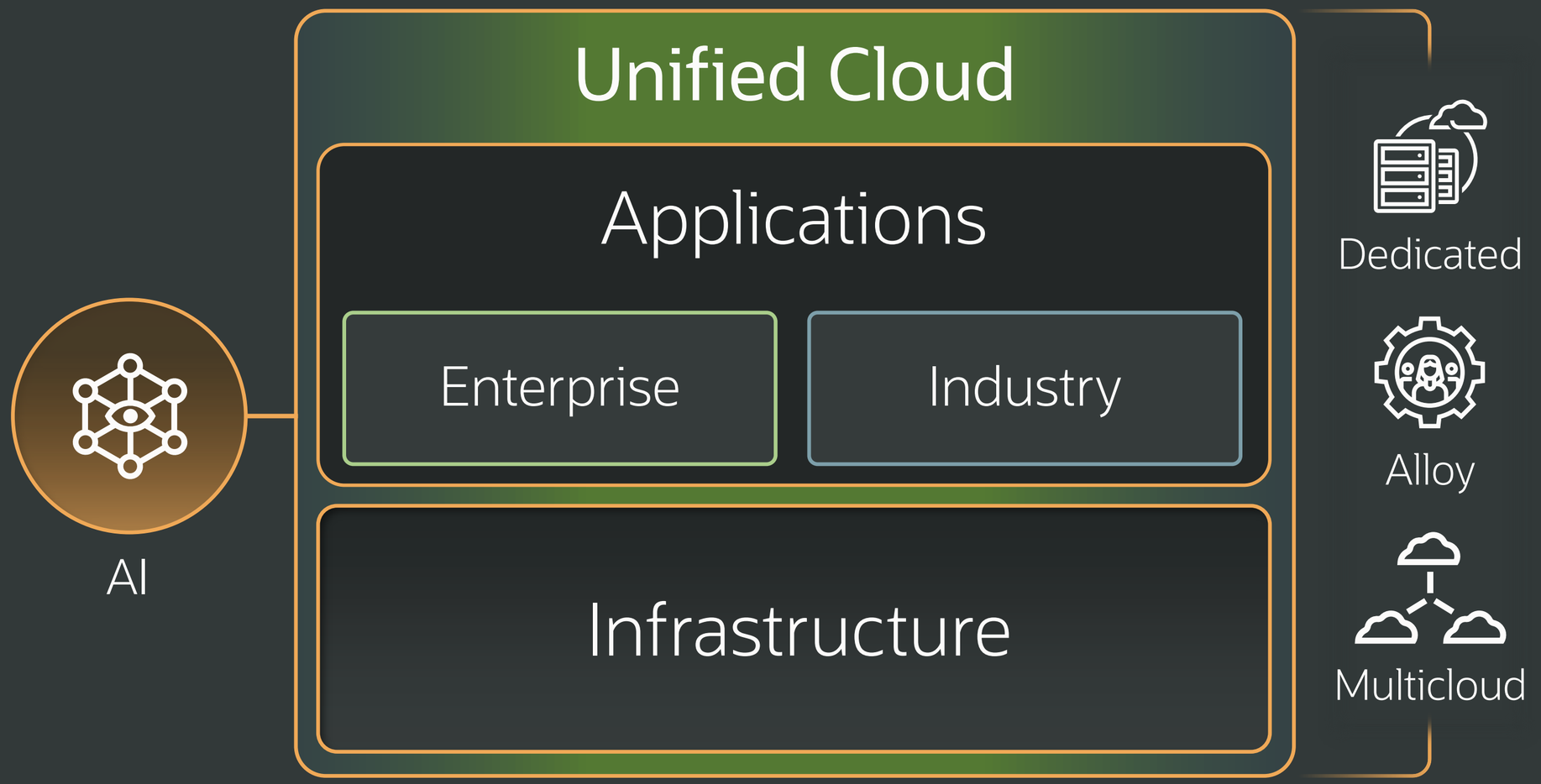
Migrate, modernize, and innovate with Oracle and Azure services

Simplify cloud purchasing and management



The Oracle Cloud is distributed.


Unified Cloud
Applications
Enterprise
Industry
Infrastructure
Dedicated
Alloy
Multicloud


Unified Cloud
Applications
Enterprise
Industry
Infrastructure
AI
Dedicated
Alloy
Multicloud

Machine learning has been around for years.

Recommendation engines

Object detection

Facial recognition

Natural language processing

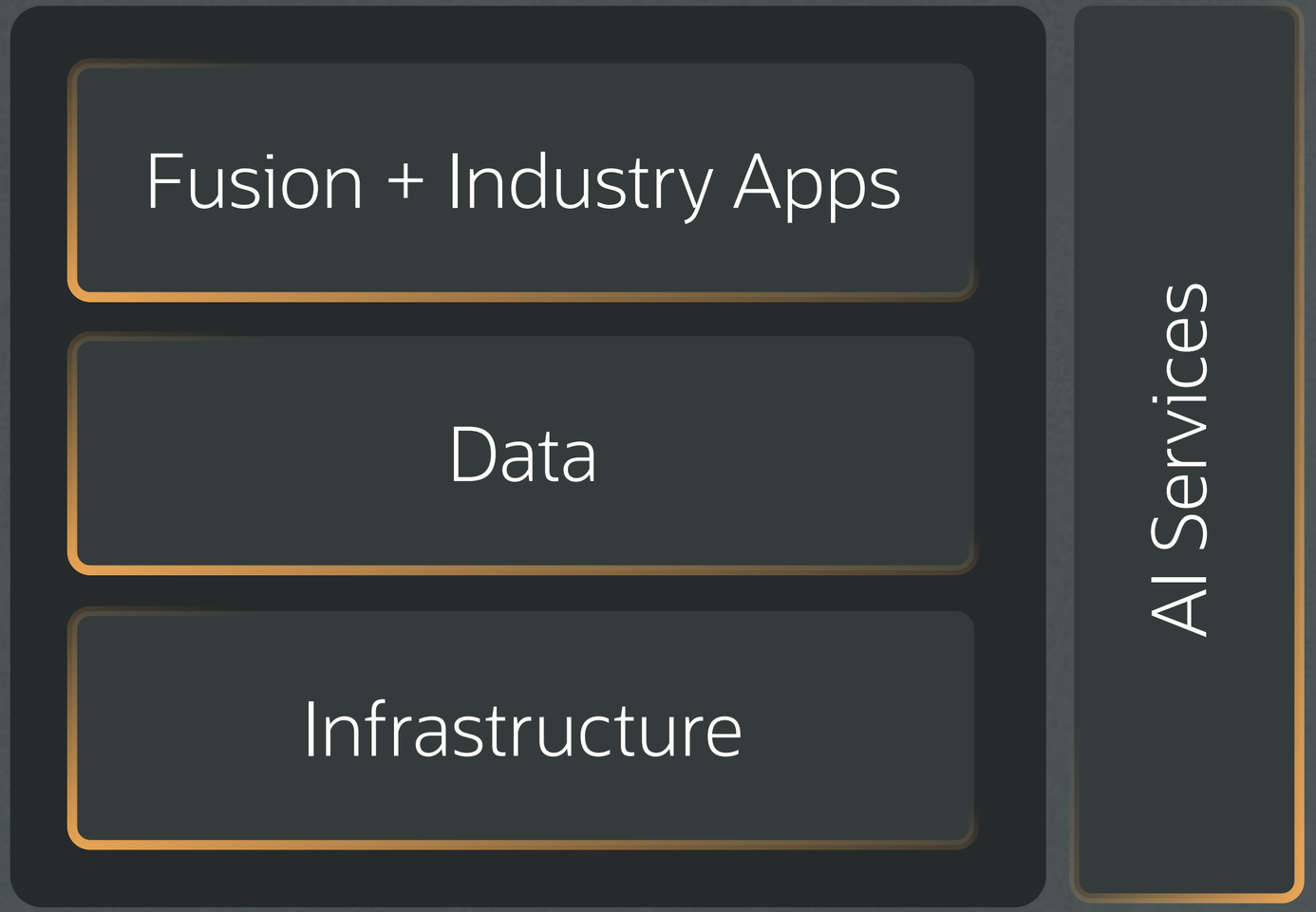
Price optimization

Route planning

Travel time estimation

Email classification

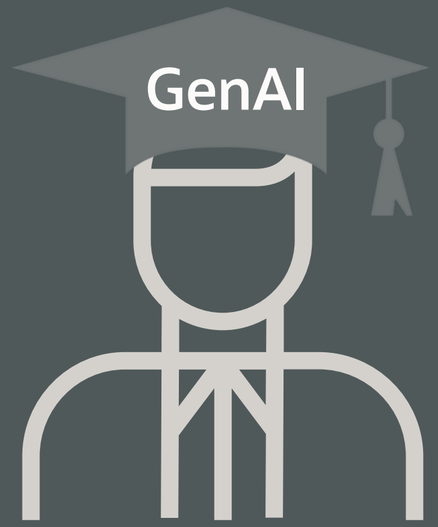
AI capabilities embedded throughout



What Oracle AI is NOT

Generative AI is like a smart college graduate

Generative AI is like a smart college graduate



Imagine you hire smart college grads to answer your company's support calls

The grads have lots of general knowledge, but know nothing about your products or past product issues

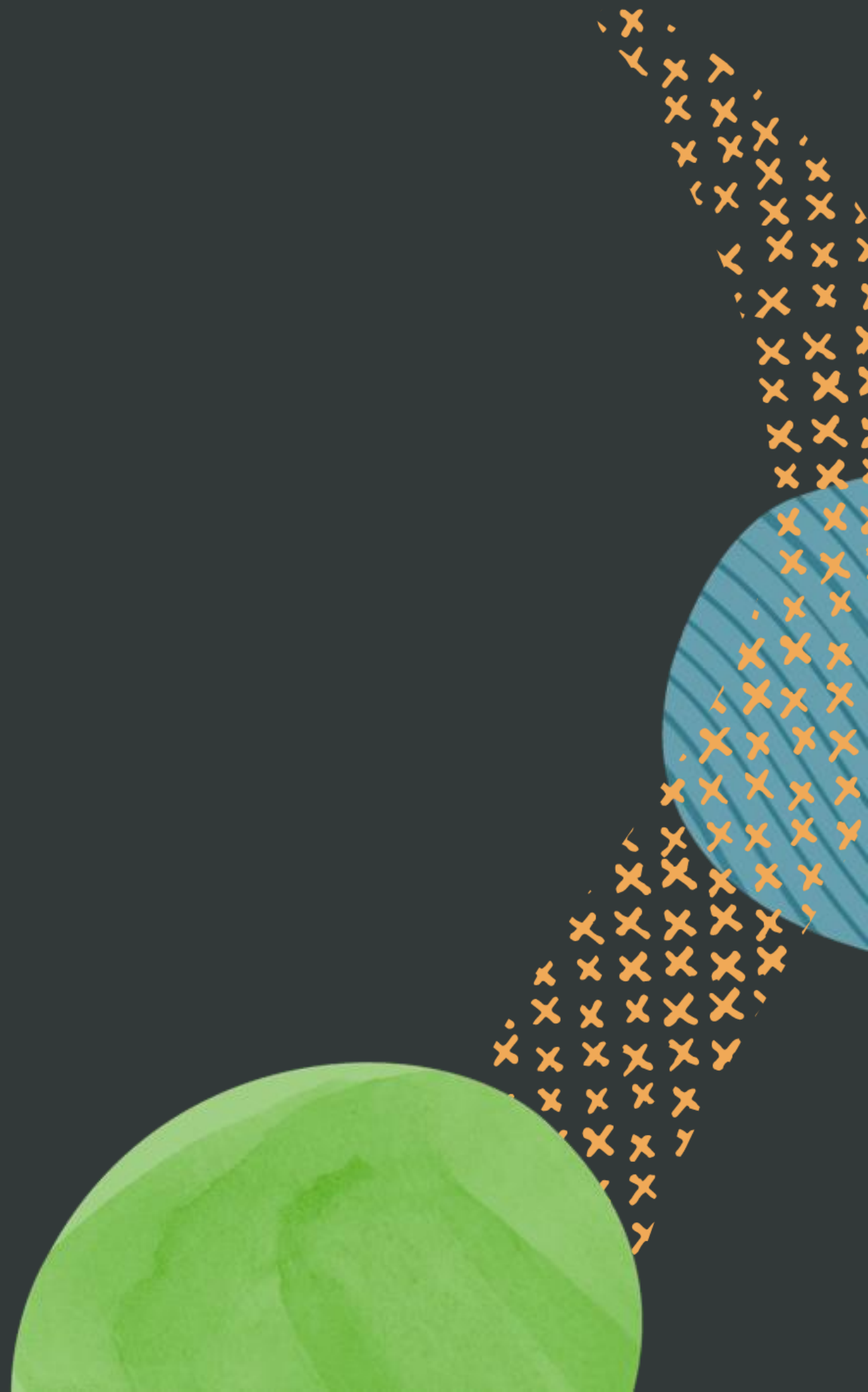
Oracle AI:
Your AI Advantage

The best AI starts with the best data – your data

Our data expertise helps you make the most of it

Naturally embed it across your entire business

What’s new?



2017

Better software

Transformer model

Context and meaning from relationships in sequential data

Image recognition model

10,000 images to train

vs.

Transformer model

What is the Oracle Cloud?

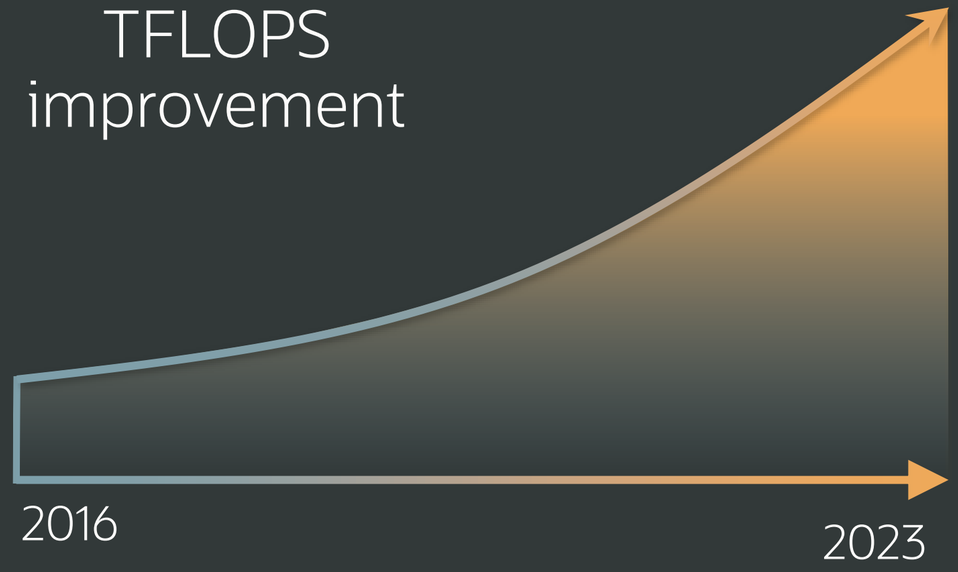
Terabytes of text to train

2017 Better software

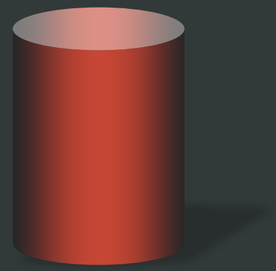
2021 Better hardware

100x

TFLOPS
improvement



GPUs for all



Optimized for 3D calculations on pixels or vertices

Researchers use the calculation engines to solve new problems

Performance, scaling, efficiency are ideal for neural networks

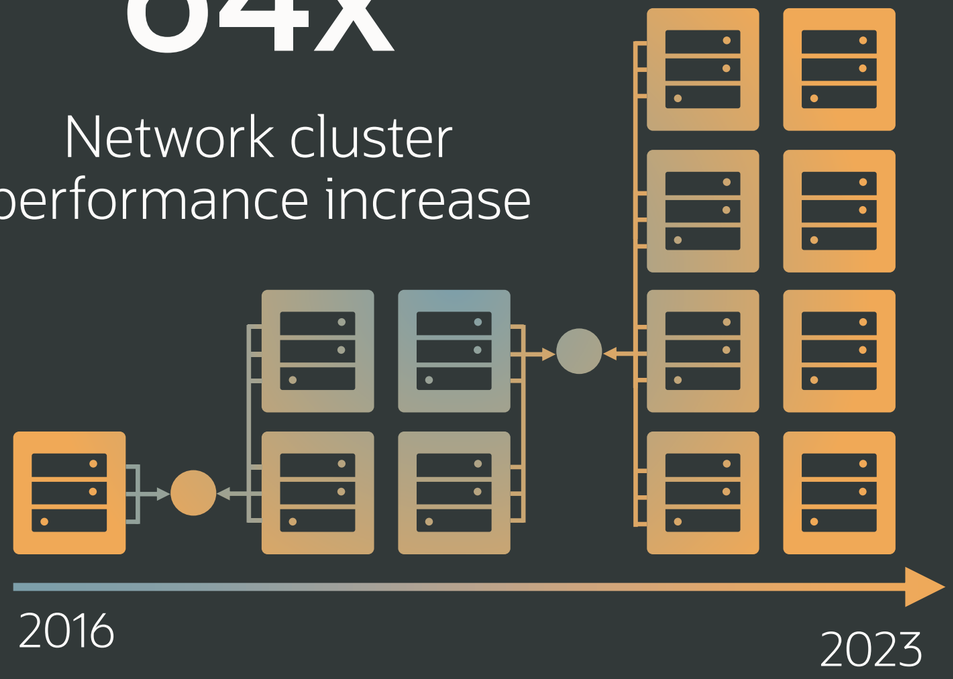
2017 Better software

2021 Better hardware

2022 Better networking

64x

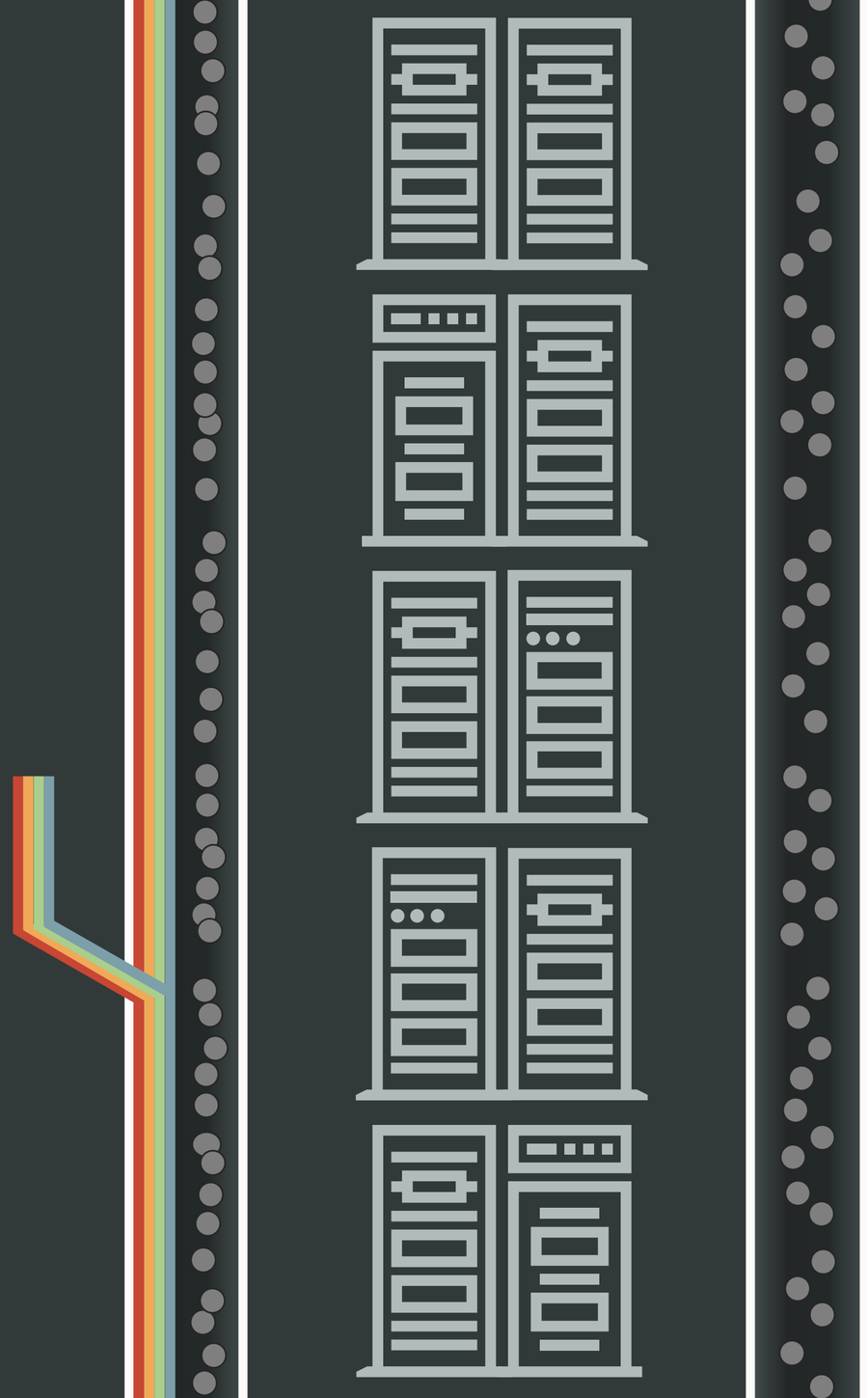
Network cluster performance increase



Moving faster

Virtualized Front End Network

Highly featured with cost to bandwidth and latency



Cluster Network

Optimized for high performance

Superclusters are powering the world's best models.

OCI Superclusters

Microsecond latency with RDMA

Cluster up to 32k NVIDIA GPUs

mosaicML

inworld

Is that enough? No.

It’s hard to get access

It’s hard to control

Controlled access

OCI Generative AI

Available now

Available as sovereign AI

Fully managed enterprise service

LLM choice

Control your instance

Is that enough? No.

It’s not easy to integrate

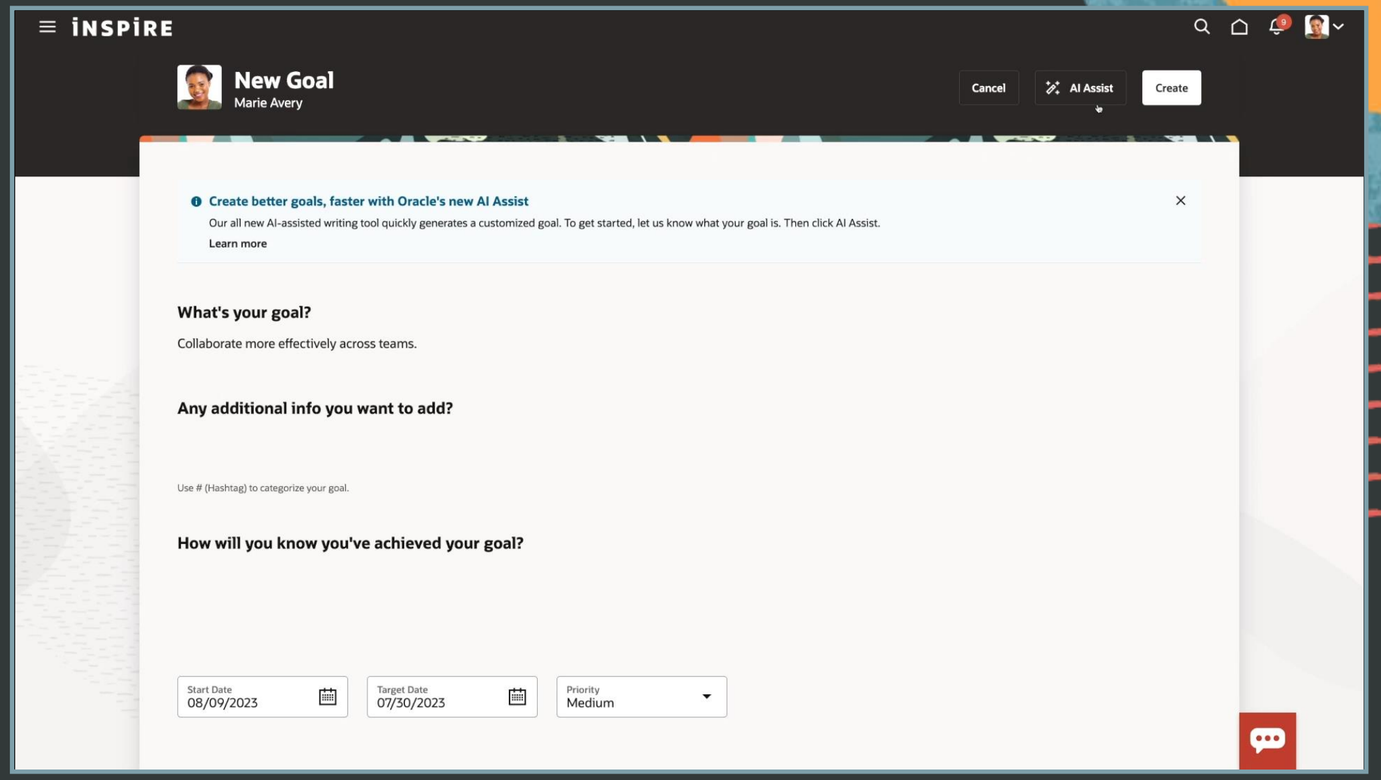
The best kind of integration is the one you don’t have to do.

We've done the integration work.

AI Assisted Goal Setting
Oracle Fusion HCM

Job Description Generation
Oracle NetSuite

Schedule AI Assist
Oracle Construction and Engineering



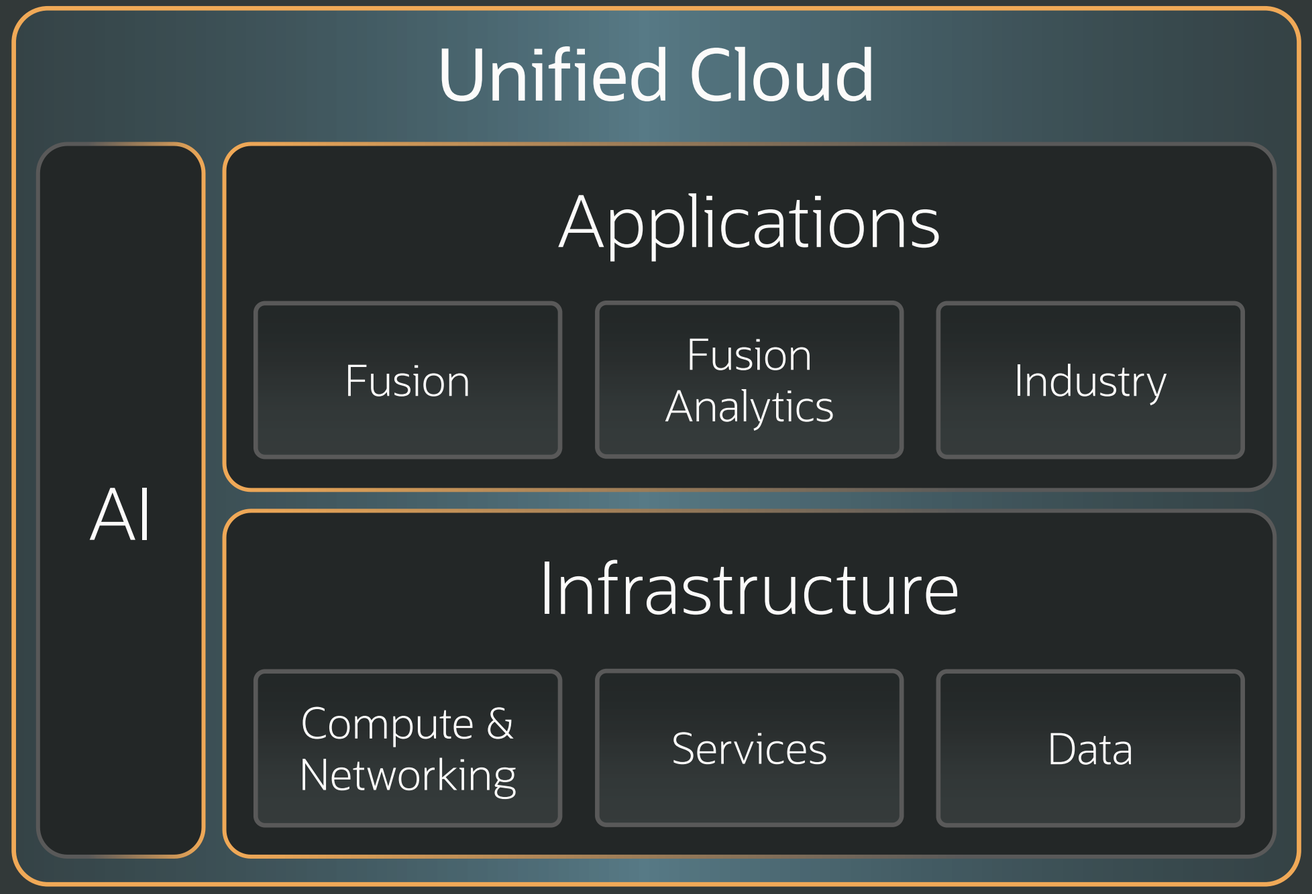
A complete cloud AI solution

Infrastructure

Databases

Models & services

Embedded in apps



The Oracle Cloud is continuously learning.

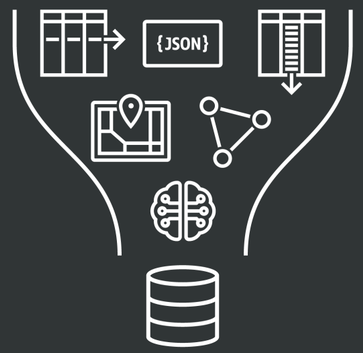
Oracle Database Vision

Make modern apps and analytics
easy to develop and run
for all use cases at any scale

How we deliver the Vision

Complete and Simple Platform for All Data Management Needs

Complete



Converged Database

Complete support for all modern data types, workloads, and development styles

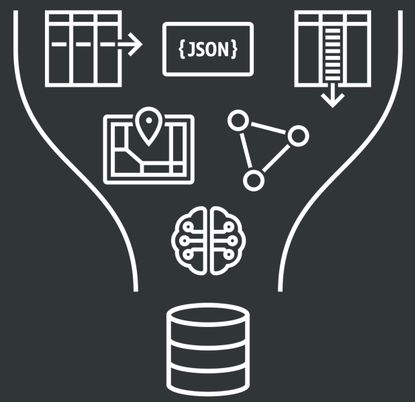
Simple

Autonomous Database

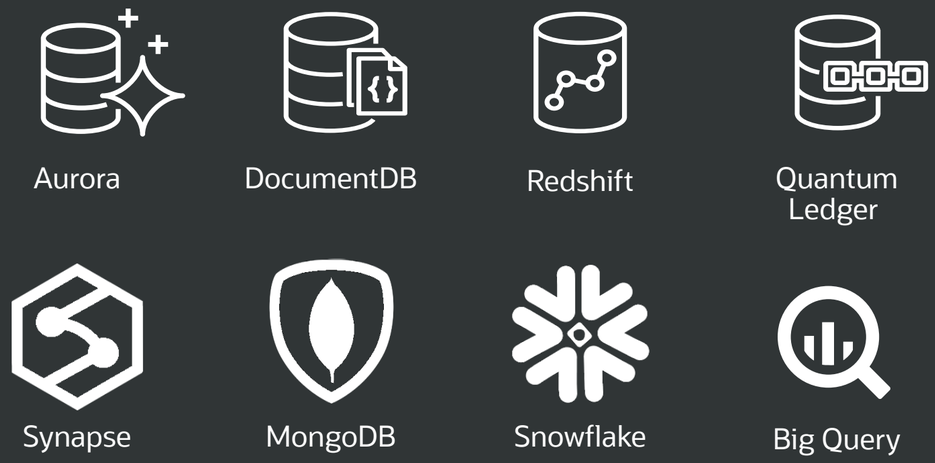
Converged DB on Exadata Cloud delivered as a self-driving, self-securing, self-repairing **service**

Comparing Database Strategies

Run converged, open, SQL Database



Instead of single-use proprietary databases



Developers and IT focus on Innovation

Developers and IT focus on Integration

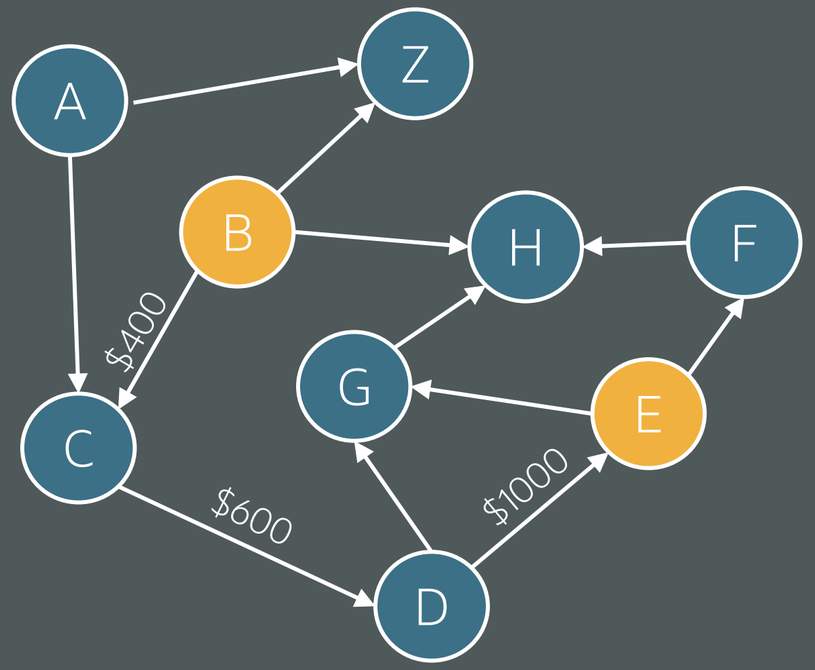
Unification of Graph and Relational Delivers Developer Nirvana:

Navigation simplicity of Graph with the Power of Relational

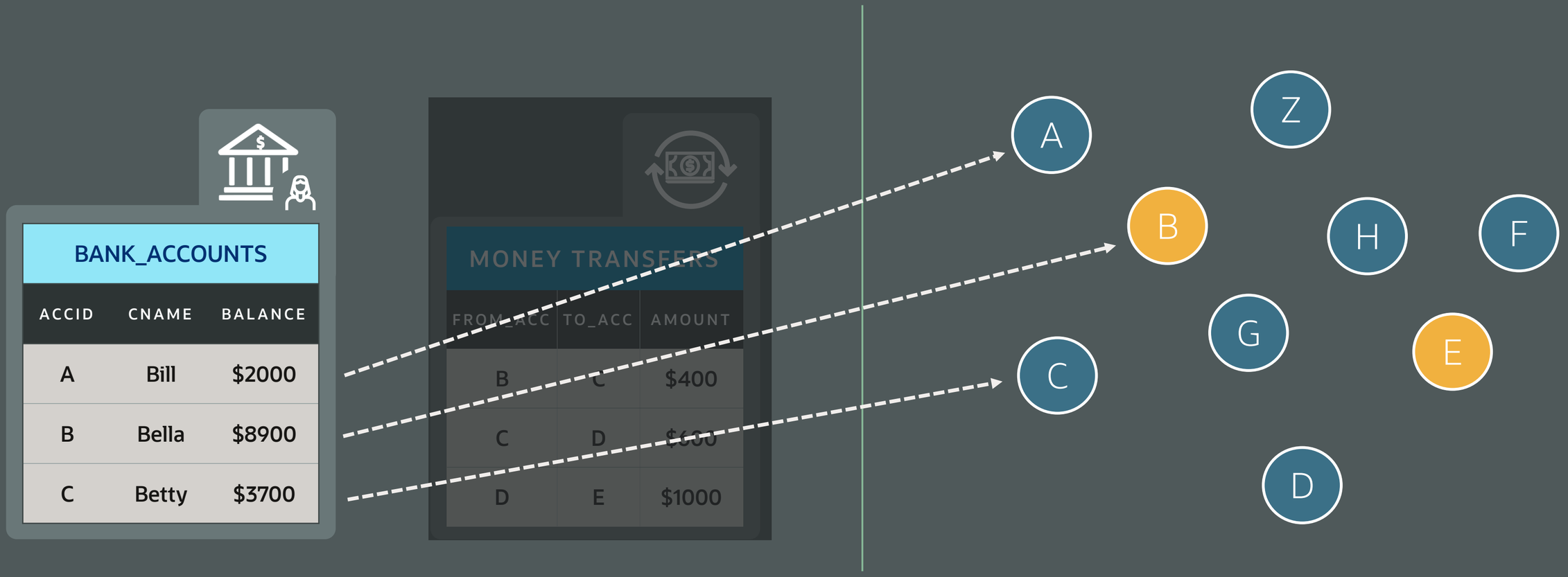
New Property Graph Views in Oracle Database 23c enable developers to treat data as vertices or edges in a graph

Graphs are a powerful way to query connections and relationships between data

For example, to discover indirect money movements from bank account 'B' to bank account 'E'



Graph views enable treating bank account rows as graph vertices



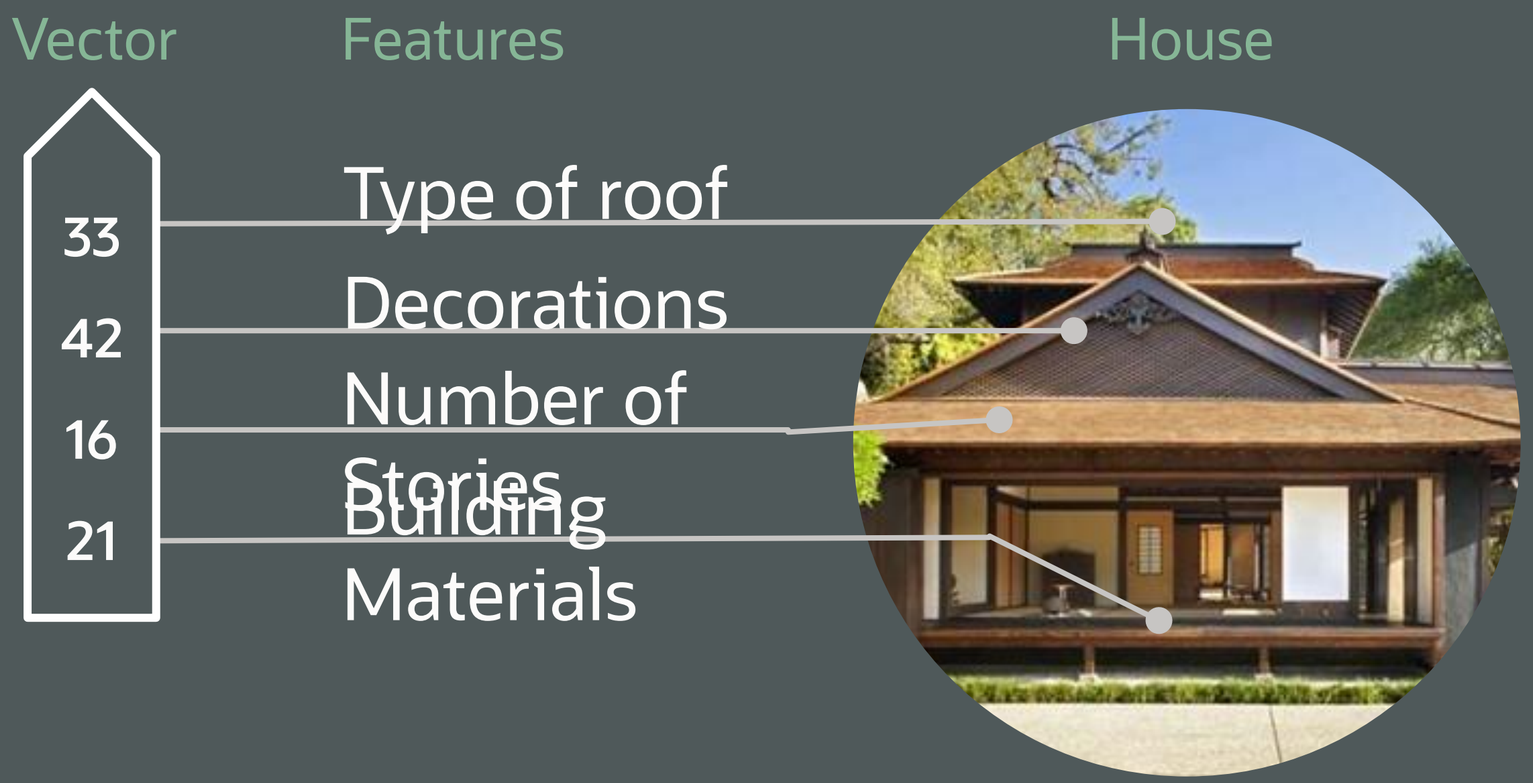
Unification of AI and Databases

AI uses a data representation called Vectors

Vectors represent the semantic content of images, documents, videos, etc.

A vector is a sequence of numbers, called dimensions, used to capture the important “features” of the data

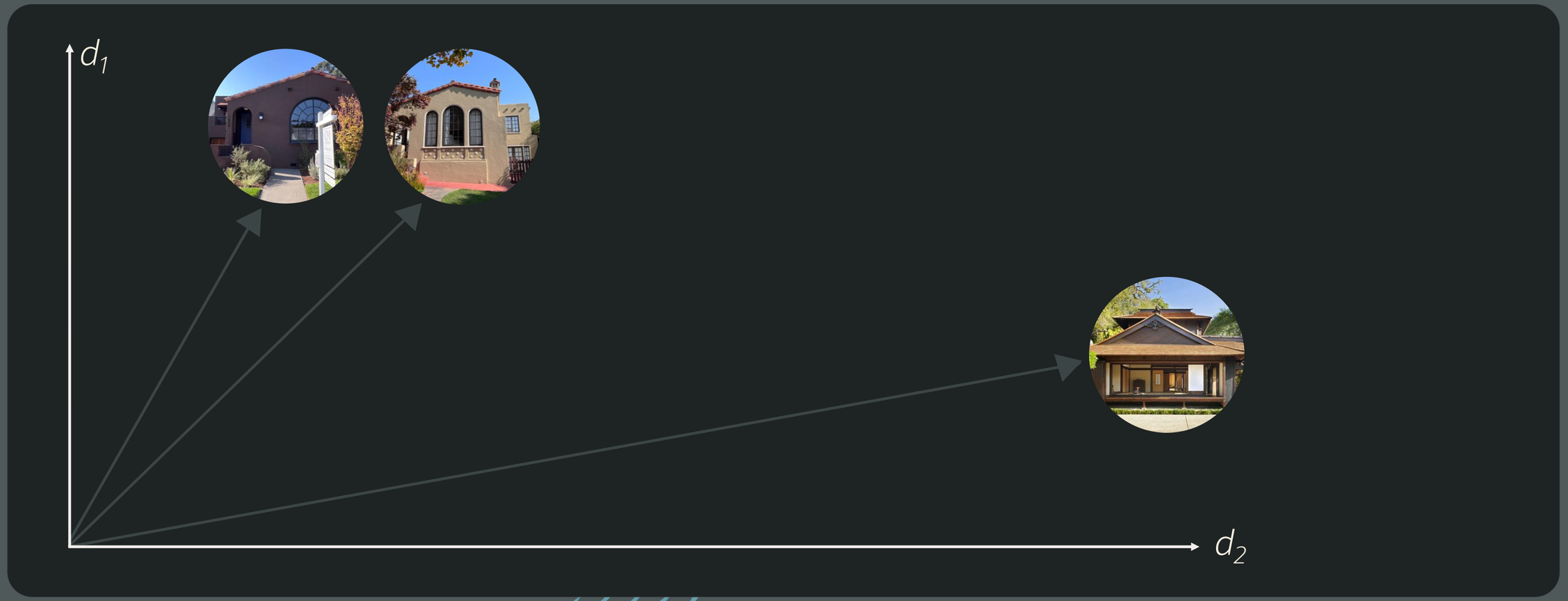
Example: the features for a house image could be



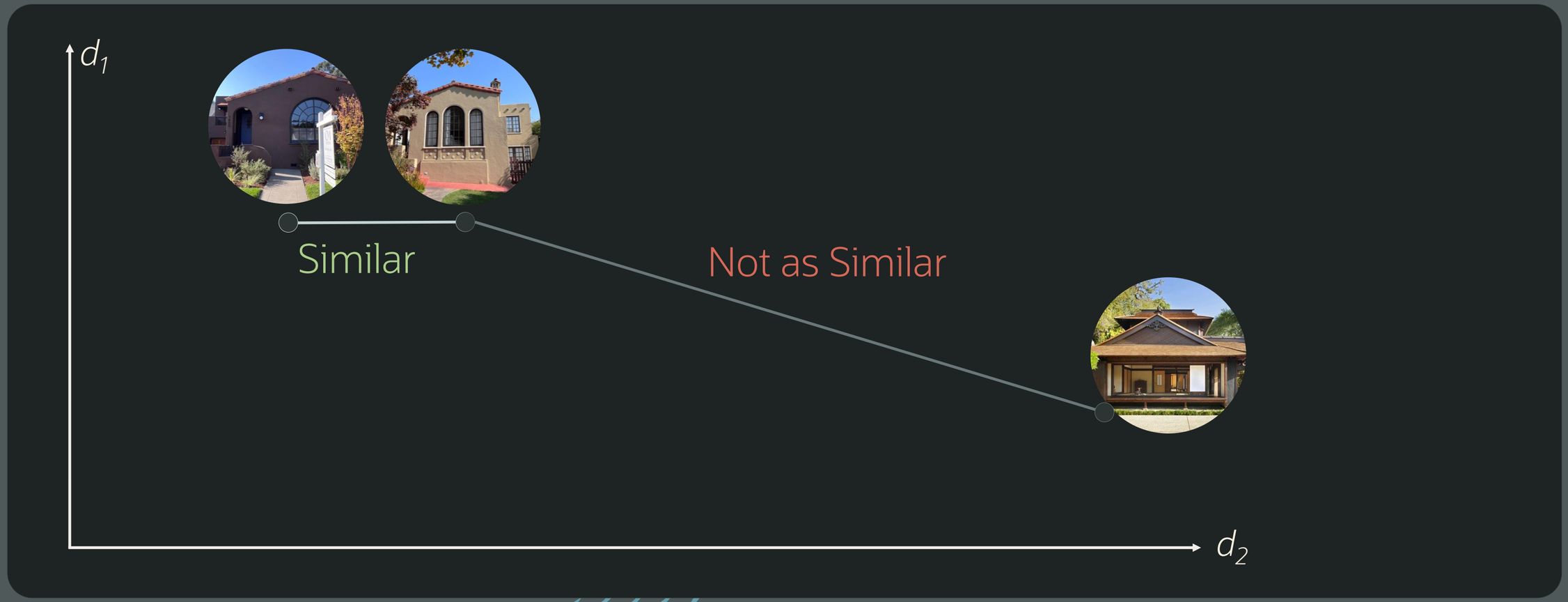
Each dimension (number), represents a different feature of the house

Note: Features are determined by ML algorithms so are not as simple as shown here

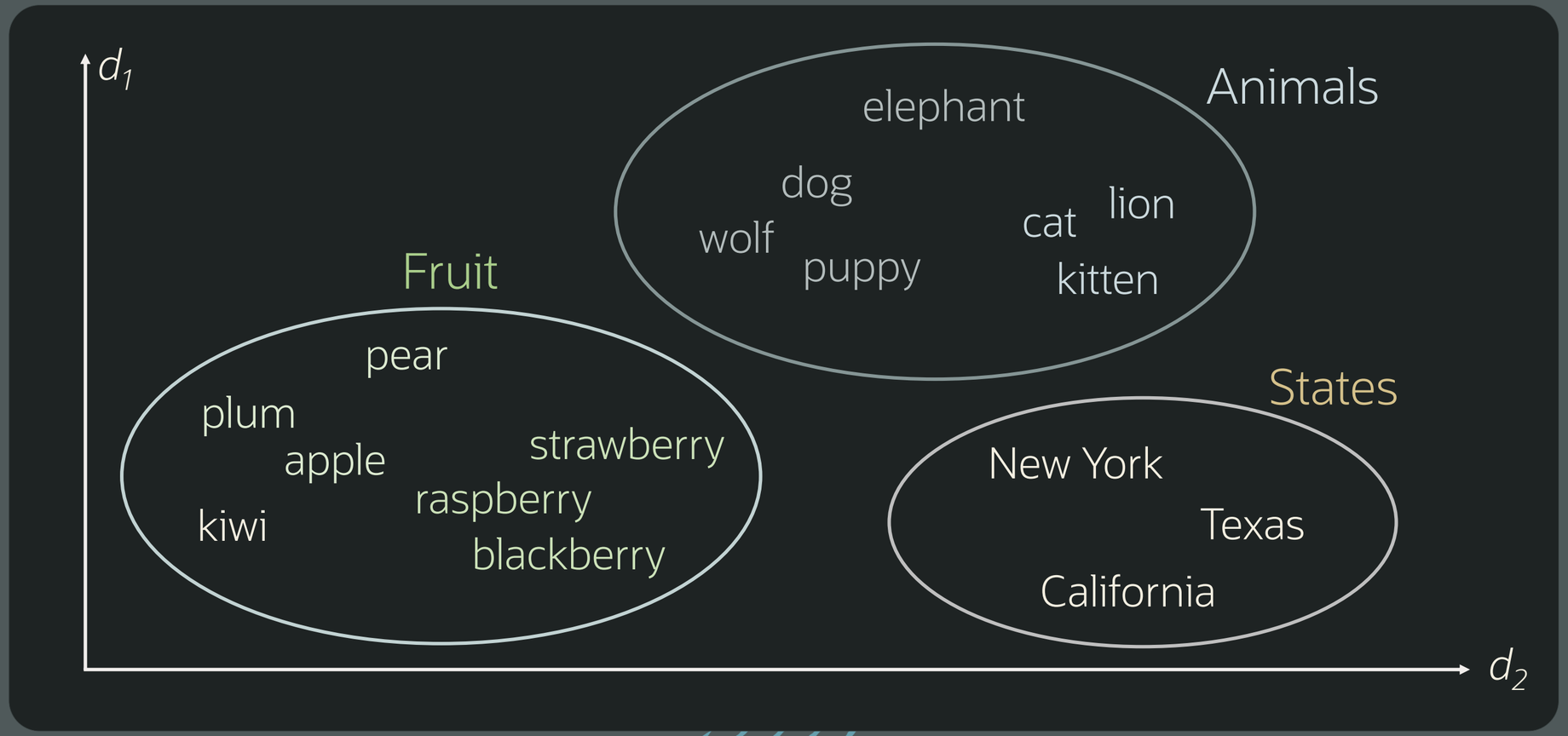
House vectors when collapsed into 2 dimensions instead of hundreds could look like this



The distance between the vectors is proportional to their semantic similarity

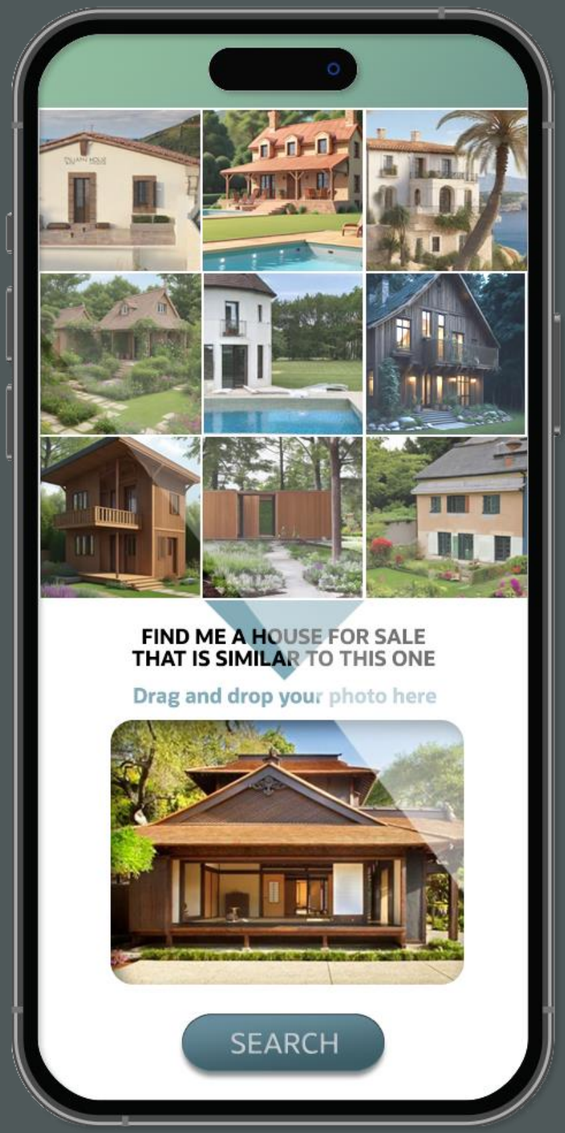


Word similarity works the same way
Word vectors that are close are more semantically similar



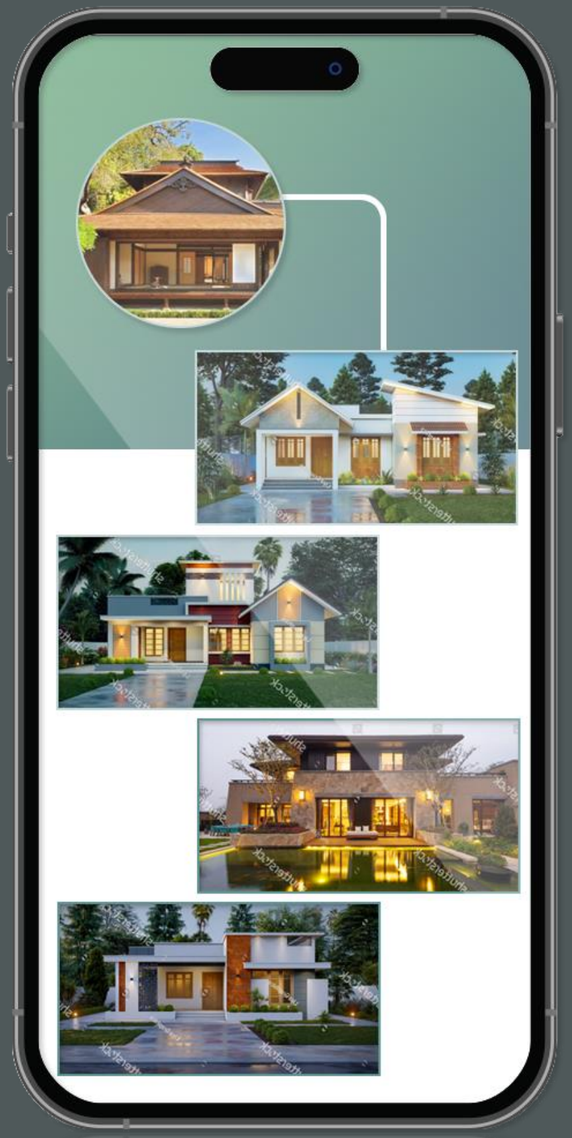
Documents also work the same way

Documents vectors that represent similar content are closer in distance than those representing dissimilar content



Let’s look at an example

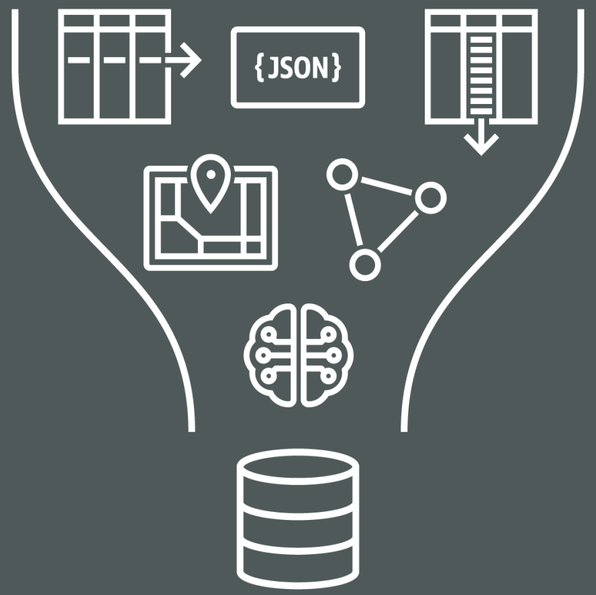
Imagine a house-hunting app that helps customers find houses for sale that are similar to a picture the customer uploads



Finding a good match requires combining semantic picture search with searches on business data including:

- Customer data such as location preference and budget
- Product data such as houses available for sale by location and their price

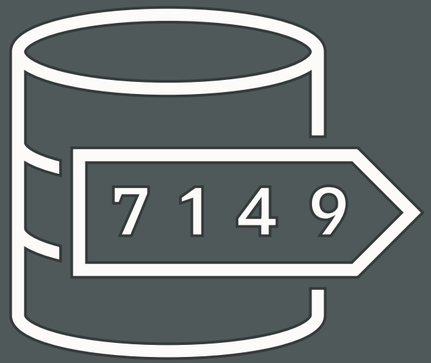
Searches on a combination of business and semantic data are more effective if both types of data are stored together



Business Database

One solution is to continuously send your business data to a vector database

User and Product Data



Vector Database

Oracle Autonomous Database

Addresses top operational pain points

- Fully automated provisioning, patching, upgrades, and hardware refreshes
- Auto-detection and proactive remediation of bugs and errors
- Auto-scale and enterprise-class business continuity

Improves developer productivity

- All the benefits of a converged database
- But it’s more than just a database - it’s a complete data platform
- With a built-in low code IDE, Data Studio, REST services, In-database graphs, ML/AI, data insight discovery, etc.

Announcing:
Oracle Database Cloud Services for Developers

Unlimited number of Zero to Low-Cost Developer Databases

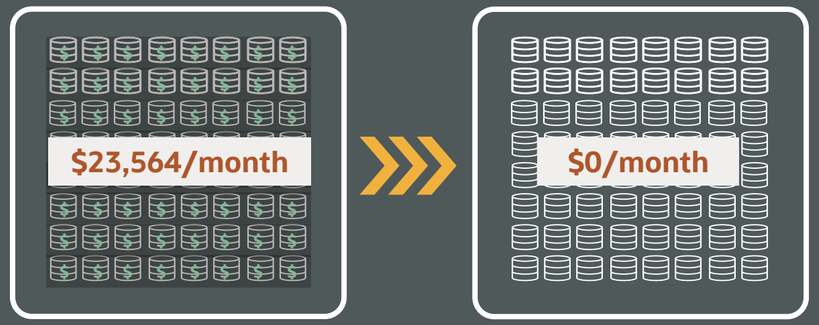
Oracle Cloud Economics

Simpler, Faster, Affordable*

AI and Database at Oracle Cloud

simpler, faster, with lower cost app runtimes

Cost of 100 Developer Databases



Now even more Affordable*

Development at Oracle Cloud

…now with even lower cost

Available **today** on **Autonomous Database,**
coming to all Oracle Database cloud services

* https://www.oracle.com/cloud/economics

Infrastructure and applications | Distributed | Continuously learning