



Journey to AI Innovation

Oracle AI and your path to enterprise modernization



AI Why now ? Why Oracle?

We're hitting that flashpoint, now

31%

of companies now have AI
in production

27%

of businesses claim at least 5% of
earnings are attributable to AI

92%

of large companies report ROI on
their data and AI investments

Oracle AI enables different paths to innovation



**Leverage
prebuilt
models**



**Create custom
models**



**Build on AI-
optimized
infrastructure**



**Leverage pretrained
models**

Benefits of OCI AI Services



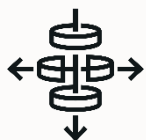
Machine Learning and
AI

AI for everyone



- An AI starting point, even without data science experience

Prebuilt for enterprise requirements



- Prebuilt models trained on industry-derived data
- Optimized for use cases across finance, manufacturing, and more
- Built-in insight highways into your SaaS applications with Oracle NetSuite, Fusion, and custom apps

Customizable for your needs



- Tailor your AI models without data science experience
- Save costs by training AI models already on OCI

Best-in class support



- White glove treatment
- Data scientists on staff, dedicated to ensuring your organization's success
- Pricing to support AI experimentation

OCI AI Services

Applications

AI Services



Digital Assistant



Speech



Language



Vision



Document Understanding



Anomaly Detection



Forecasting

Machine Learning Services

Advanced GPU infrastructure

Data



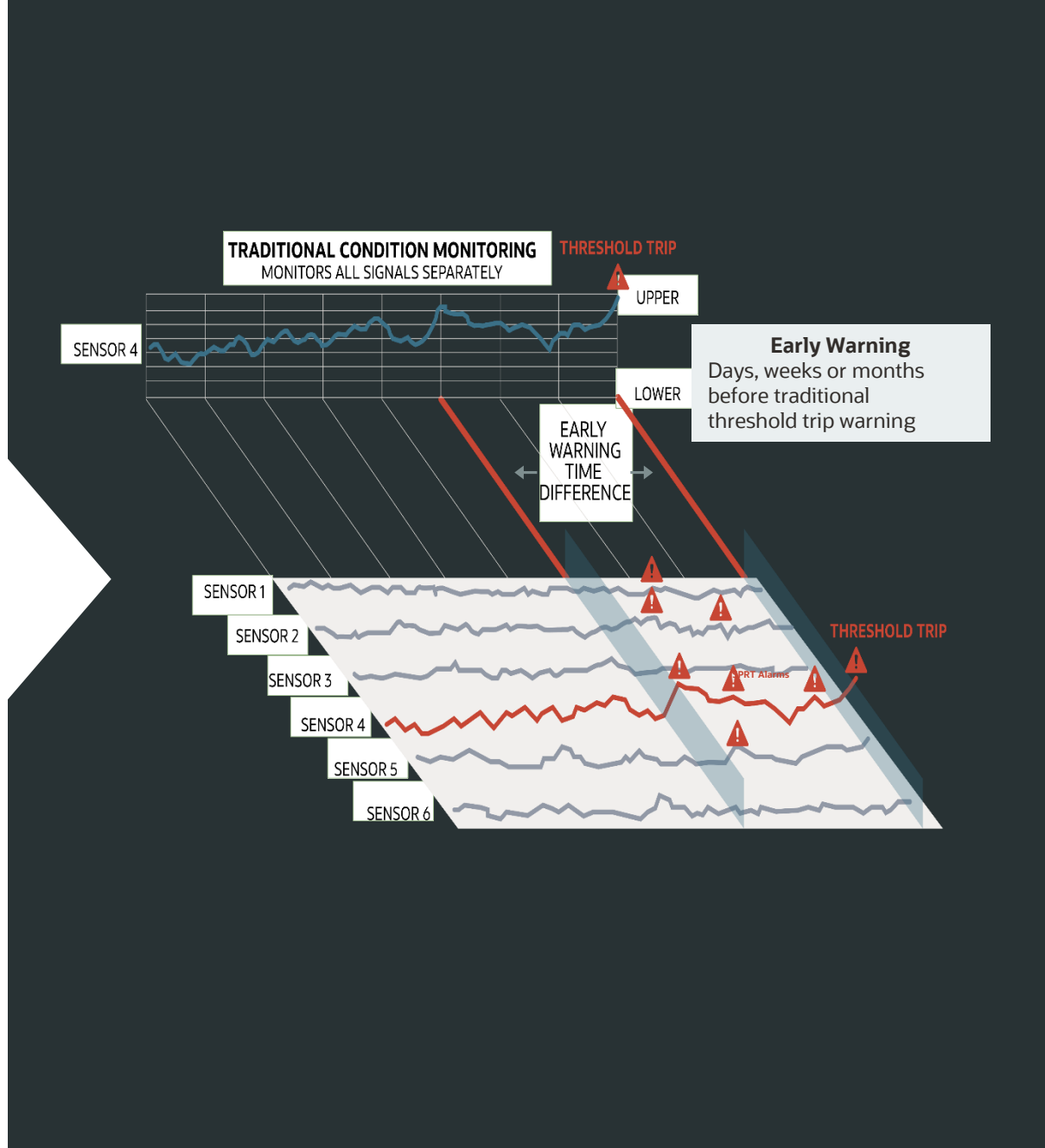
Anomaly Detection

Predict critical incidents by identifying outliers

Predict and respond to critical events equipment failure

Automatically detect issues and trigger remediation processes

Recognize and adapt to demand changes before it's too late





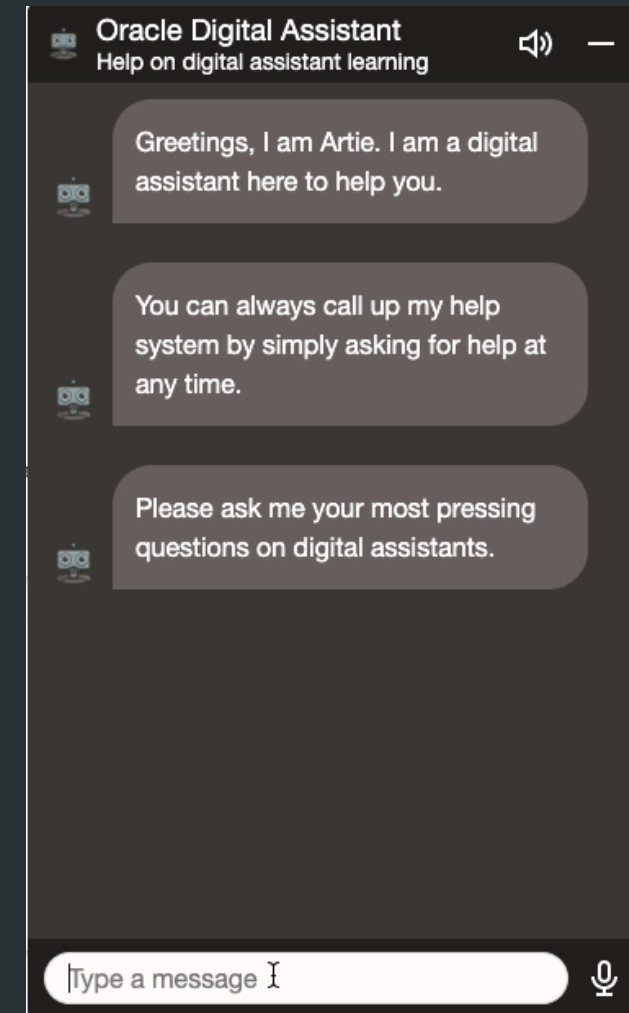
Digital Assistant

Intelligent self service chatbot providing chat, text message, and voice interfaces

Improve self-service experiences with chatbots, voice interfaces, intuitive search

Reach new audiences by creating new application interfaces and dashboards

Create more intelligent customer experiences with added personalization, prediction, analytics, and more





Document Understanding

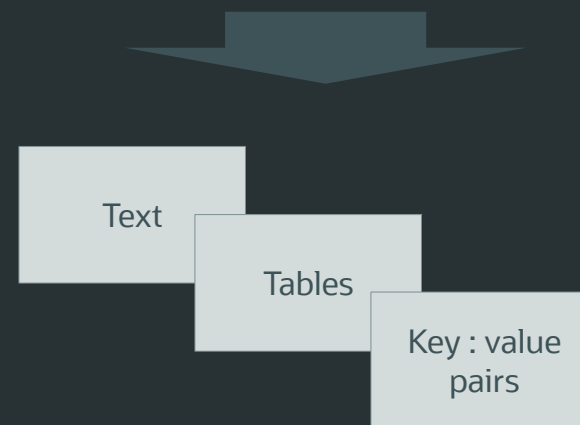
Recognize and extract text, tables, and key data

Extract text from scanned documents, mobile uploads, PDFs, and more

Preserve table formats and key value relationships recognized in documents

Easily automate tedious business processes based on data output in JSON format

Pretrained using enterprise focused data, providing accurate results for enterprise focused use cases



Application processes and automations



Language AI

Text AI to classify sentiment and extract important entities

Analyze text at scale

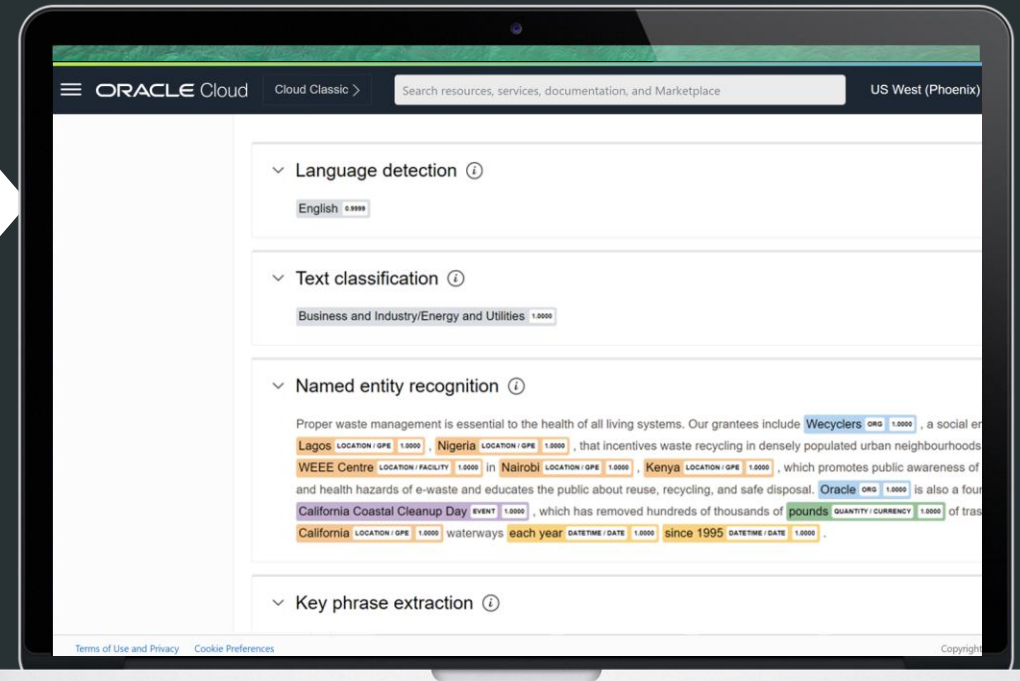
Translate to/from 20+ languages to easily reach new audiences and consumers

Improve user experience by understanding sentiment from text

Recognize sensitive information to protect privacy and ensure compliance

Input text:

Reviews
Voicemail transcriptions
Social media posts
Reports
Articles





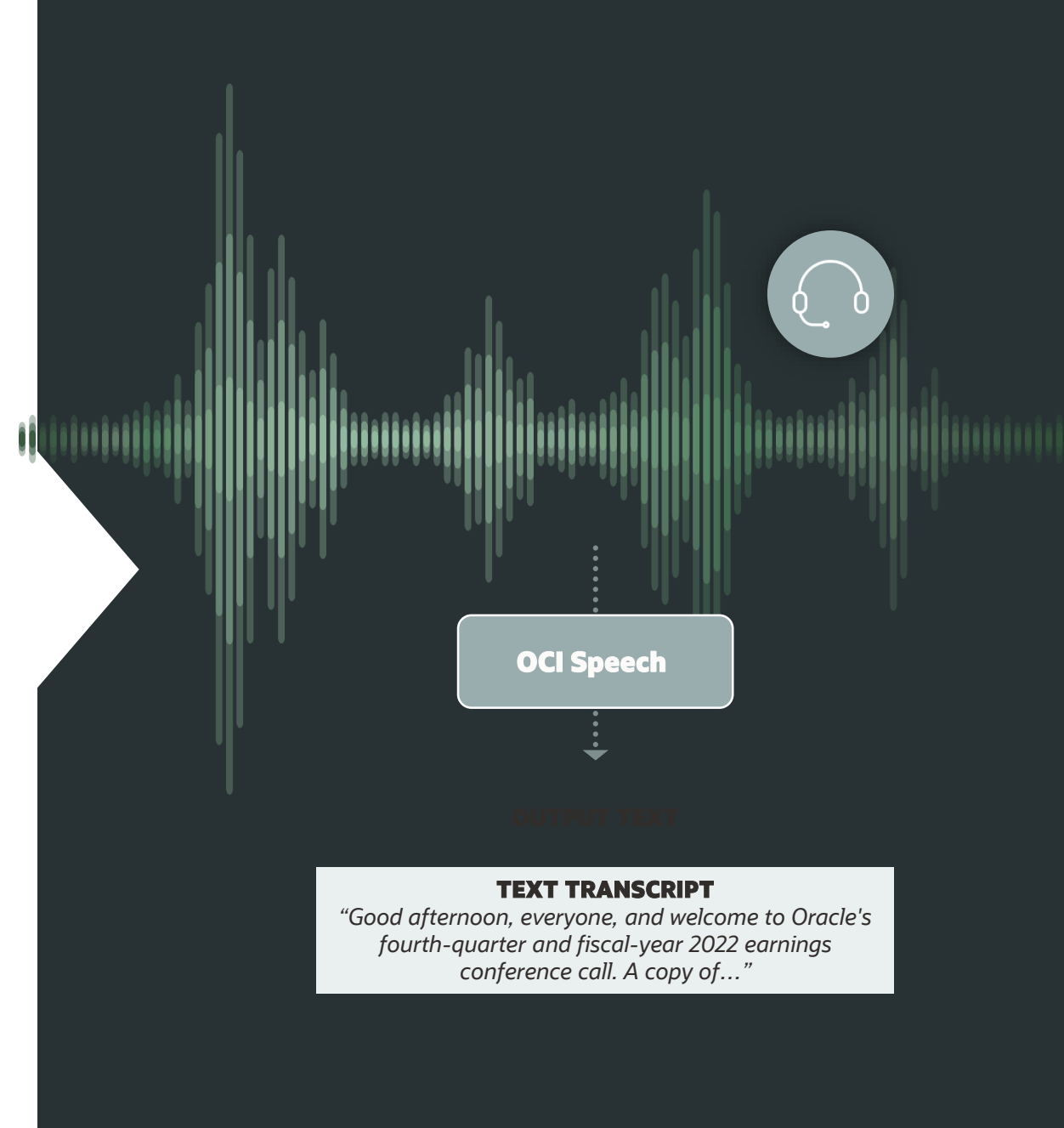
Speech AI

Transcribe spoken audio with multilanguage support

Create searchable, indexed data by transcribing audio files

Filter profanities and leverage confidence scores

Combine with Language or other AI services to analyze sentiment, translate to other languages, and extract key information





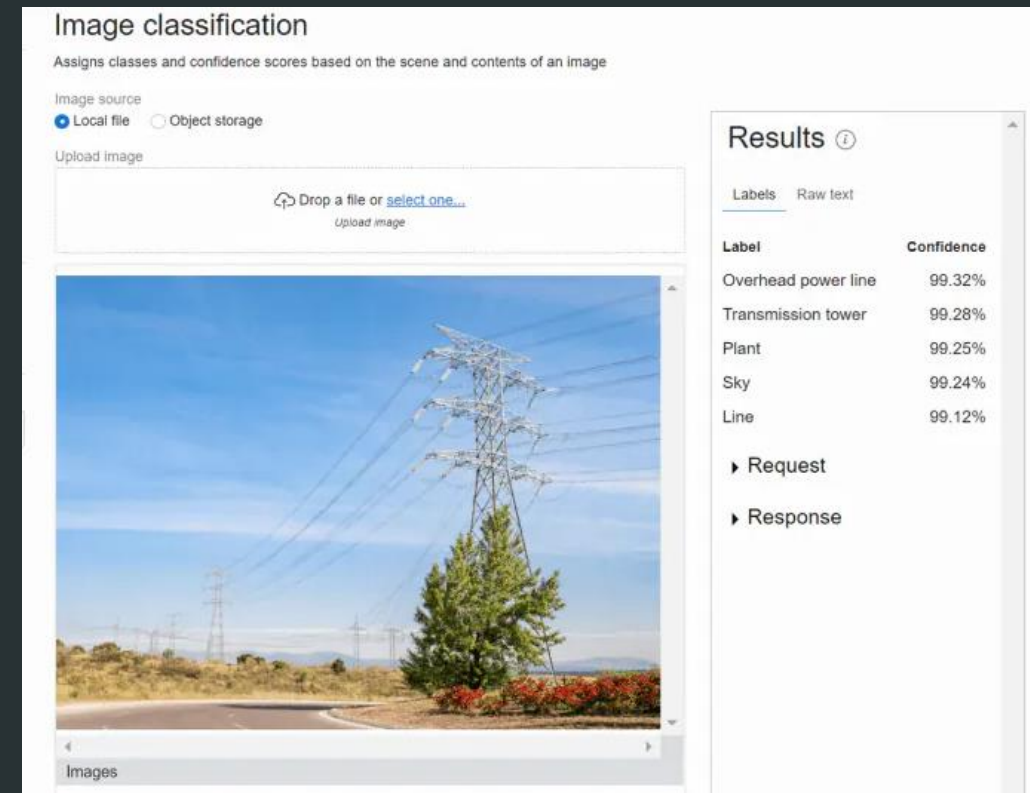
Vision AI

Understand images and detect objects

Automate workflows and actions based on image analysis

Gain insights from visual data by automatically extracting text and objects

Enrich image-based files with metadata, including objects and colors for better indexing and retrieval in a digital asset management system



Use Case Examples

Healthcare



Hospital Staff Scheduling

- Optimize hospital staff scheduling based on forecasted demand and skillset

Financial Services



Fraud Analytics

- Prevent fraud and financial crimes
 - Insurance claims fraud prediction (property insurance, health insurance)
 - Anti-Money Laundering
 - Know your customer

Retail



Customer Experience

- Understand customer sentiments based on social media and website data
- Improve customer engagement via conversational bot
- Deliver personalized recommendations

Manufacturing



Production Monitoring

- Monitor operations metrics and forecast to improve planning
- Monitor equipment KPIs and predict failures

Transportation



Inventory Analytics

- Monitor inventory and forecast to improve cost and production plan
- Optimize procurement and replenishment schedules

Benefits of machine learning services



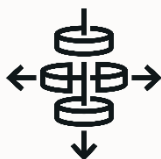
Machine Learning and
AI

High-performance data science



- Provide access to automated workflows for building models
- Operationalize ML more easily with reusable jobs and e2e orchestration for ML lifecycle
- Run distributed, high-performance workloads with access to bare metal GPUs

Open platform



- Access to world's best AI software and hardware on OCI
- Use favorite open source tools, frameworks, and models
- Run your AI models anywhere, including hybrid or multicloud platforms

Improved AI experience



- Single discovery and publishing experience for models, features, datasets, and labels
- Operationalize ML at scale
- Choose from in-database machine learning or options with access to open source

Best-in-class support



- White glove treatment
- Data scientists on staff, dedicated to ensuring your organization's success



Create custom models

Machine Learning Services from Oracle

Applications

AI Services

Machine Learning Services



Data Science



**ML in Oracle
Database**



Heatwave ML



Data Labeling

Advanced GPU infrastructure

Data



Unlock new opportunities

Create data science models with access to open source technologies

Leverage cutting-edge technologies to improve existing processes

Create new opportunities with more insights and knowledge

Drive revenue growth and enter new markets

OCI Data Science

- Accelerate and automate the entire end-to-end data science lifecycle
- Use favorite open-source Python tools and frameworks
- Gain enterprise-grade MLOps with flexible interfaces and unlimited scale
- Collaborate with teammates on shareable and reproducible data science assets
- Run large-scale workloads with access to bare metal GPUs





Faster access to data insights

Gain greater visibility into data and increase efficiency

Decrease timelines for manual processes from months and weeks

Reduce backlogs in gathering and visualizing data

Gain new insights to change business decisions

Machine Learning in Oracle Database

- Support data scientist productivity and empower non-experts with AutoML
- Gain algorithm-specific data preparation, integrated text mining, and partitioned models
- Benefit from over 30 high performance in-database machine learning algorithms
- Deploy and update machine learning models in production via SQL and REST APIs
- Deploy R and Python user-defined functions using managed processes



Real-time marketing insights

Accelerate complex queries from minutes to milliseconds

Analyze massive amounts of data in real time

Understand investments and predict how changing to new channels will perform

Save cost and time

MySQL Heatwave ML

- Includes everything needed to build, train, deploy, and explain ML models
- Automated ML lifecycle, which means expert data scientists aren't required
- Avoid ETL effort and cost with no need to move data to a separate ML service
- Accelerate ML initiatives, while improving security and reducing costs



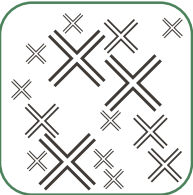
**Build on AI-optimized
infrastructure**

Accelerated AI and HPC Infrastructure

Equal to or better than on-premises

Workloads that previously
needed to be on-premises

Move to **Bare Metal Compute** on OCI



Billions of parameters

Intense AI computation



High performance file system

Rapid, parallel read & write



Computational fluid dynamics

Intense matrix computation

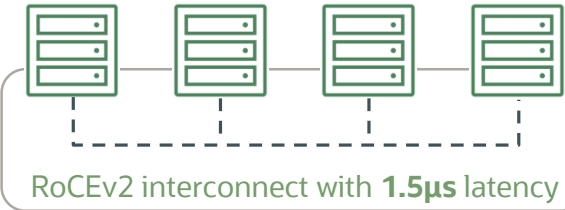


Monte Carlo Simulations

Multivariate computation and analysis

Build a high performance cluster

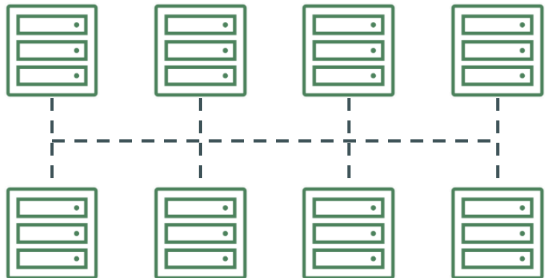
Choose between optimized CPU or accelerated GPU



RoCEv2 interconnect with **1.5µs** latency

Build a distributed, resilient file cluster

BeeGFS, Lustre, GlusterFS, WEKA, or IBM Spectrum Scale



Up to 2 Tbps throughput

Choose:

GPU

AMD: 64 cores
NVIDIA: 8x A100
2TB memory
1.6 Tbps RDMA

Up to 64

512 GPU cores
4,096 CPU cores
AMD
NVIDIA

Hi-speed CPU

Intel: 36 cores
512GB memory
100 Gbps RDMA

Up to 512

30K CPU cores
intel.

Dense I/O

AMD: 128 cores
2 TB memory
54.4 TB NVMe

Up to XYZ

xyz CPU cores
AMD





Advanced GPU clusters

Extreme performance NVIDIA shapes and networking

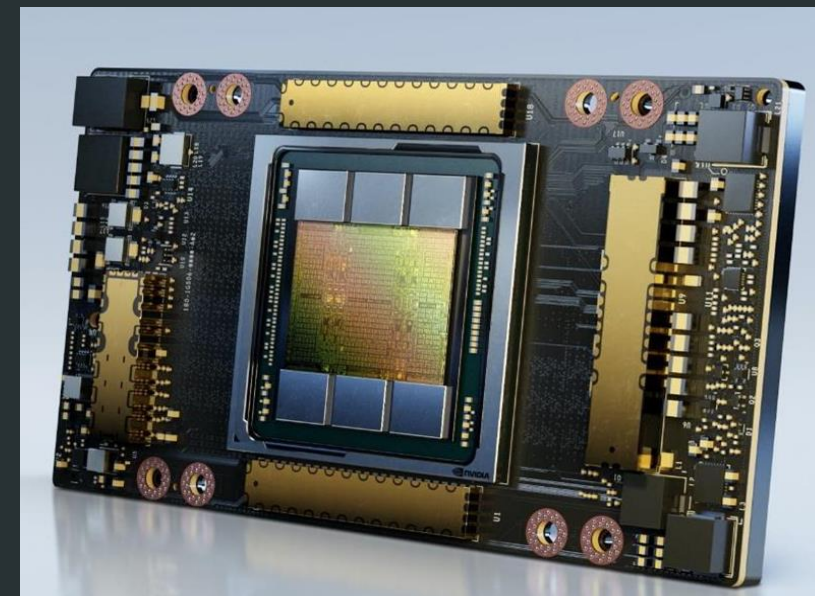
Train models faster than ever and improve time to market for your AI use cases

Partnership and alignment with NVIDIA, the industry leading chip manufacturer

Competitive pricing and flexible deployment options to reduce overhead of on premises implementations

NVIDIA Shapes

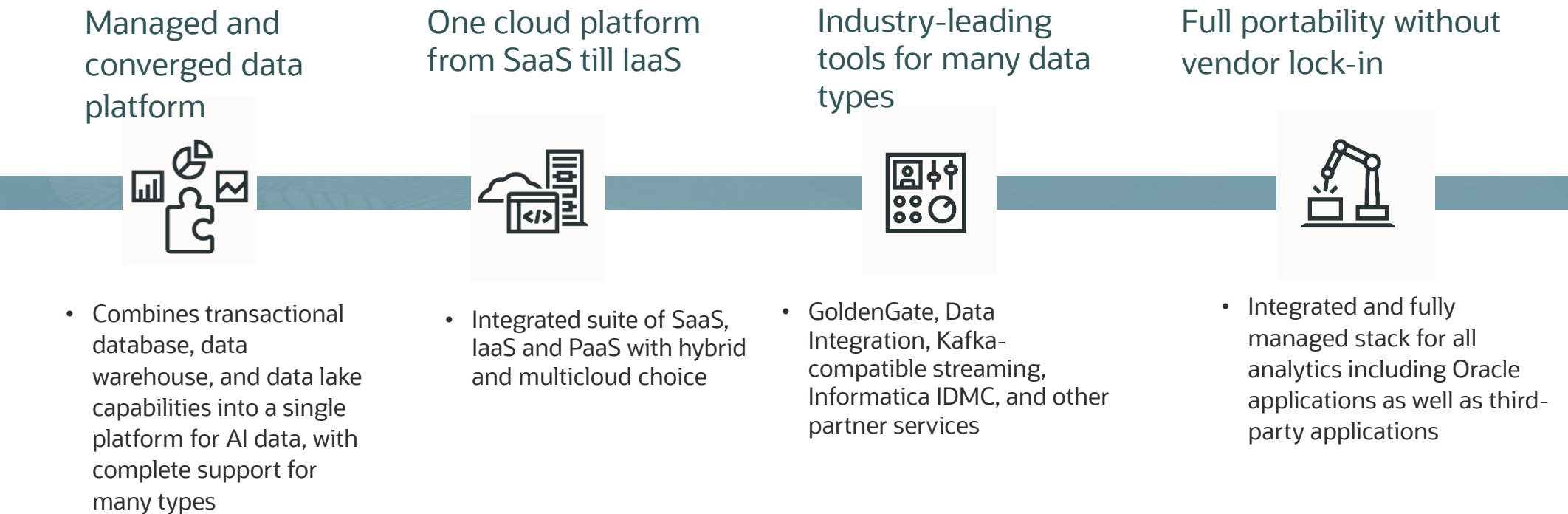
- A10
- A100
- H100 – coming soon





Why Oracle for AI?

Unlock your data's AI potential with a modern data platform



Oracle
Databases



Open Source
Databases



Data Lake



Storage



Analytics and BI



Build and extend apps with AI

Work
how you like:



- Access to favorite developer services – from Git to K8s
- Open-source based managed services
- Open ecosystem – easily plug-in the tools, technologies and frameworks you're used to
- Integrated with your CI/CD and DevOps processes

Improve
developer speed:



- Easy to use pretrained AI and advanced data services
- Managed and Serverless services let you focus on code, not managing servers

First-class
reliability:



- Secured by default
- Enhanced isolation- protecting your IP and Data
- High-performance networking for low-latency AI use cases
- Shared data, autonomous operations
- Designed for multicloud

Superior
cost-performance



- 3X better cost-performance compared to other cloud
- Granular Flex Shapes optimize resource consumption
- Better scaling economics
- Lower TCO with a seamless operational experience



Containers and
Functions



Developer
Services



Application
Integration



Compute

Integrate AI with Oracle's business applications

Better together



- A complete suite of SaaS applications that run on OCI
- Integrate with OCI AI Services, to add AI to your business apps

Modern user experience



- Use the award-winning Redwood Design System to extend Oracle cloud apps or build your own

Innovation that matters



- Rated as a cloud apps leader 49 times

Committed to your success



- Connected customer community to support you with proactive support and expert guidance

Oracle cloud applications

Enterprise resource planning

Human capital management

Supply chain management and manufacturing

Marketing

Sales

Service