ORACLE

Oracle Cloud for CIOs: Lead Your AI Vision to Reality

A complete cloud to build, automate, and scale

CIOs are empowered to lead change, improve business processes, reinforce competitive advantages, and harness the growing data from across their ecosystem to better inform decision-making.

Embracing the latest AI and cloud technologies can deliver deep insights, accelerate innovation, enhance transparency, reduce costs, and provide the ability to combat cyberthreats without sacrificing quality or compliance with changing regulations.

Five challenges CIOs can tackle now

Seize the moment. Excitement about AI means that CIOs have a rare opportunity to deliver substantial ROI while realizing an inspiring technology vision. By spearheading AI adoption and creating an AI center of excellence, CIOs can provide cutting-edge capabilities that delight customers, engage partners, and energize employees.

AI-driven automation and other cloud services free up time and budget for initiatives in areas such as data management, application modernization, security, and governance. Embracing AI doesn't mean starting from scratch. Extend existing investments and skills using familiar open source and Oracle data, analytics, and AI solutions to deliver quick wins, minimize risk, and reduce costs.

However, with opportunities come significant challenges, which CIOs must address.

1   IT innovation moves too slowly

When faced with supporting business growth, the last thing CIOs want is for IT to be viewed as too bureaucratic to move fast. If your teams are maintaining legacy systems, resourceful business leaders eager to adopt AI will act alone to create applications and data platforms that are incompatible with IT priorities and policies.

How can CIOs partner with line-of-business peers by providing resources and expertise to start and scale new projects efficiently and securely?

2 Data is fragmented and expanding exponentially

As the business demands personalized customer experiences, accurate cash forecasting, and efficient recruiting, CIOs need to manage hundreds of internal and external data sources—with more added daily—to provide consolidated, accurate, and timely data that delivers trusted predictive analytics to nontechnical business users.

How can CIOs establish a unified data management strategy across a distributed architecture of applications and infrastructure in both public clouds and on-premises data centers?

81%
of time of managing data is spent on searching, preparing, and protecting[1]

3 Skills gaps in tech and engineering

Nearly every company faces skills and headcount challenges, especially those in higher-skill technology and engineering fields. Enable business growth and talent development by using better tools to help automate repetitive and low-value tasks and leveraging existing skills and open source communities to free up time so employees can focus on more-creative and fulfilling work.

How can IT create a highly engaged and productive workforce?

4 Security breaches are diverse and risk is growing

AI cybersecurity attacks from internal and external actors continue unabated. No matter where sensitive data resides, preventing threats on a massive scale consumes resources that could be better allocated to innovation. Plus, AI implementation that involves external partners or third-party solutions brings additional risks, such as the inadvertent sharing of IP assets or lapses in data security.

How can CIOs use AI and automated security to help safeguard cloud infrastructure, data, and apps and fight AI attacks?

5 Corporate and ESG compliance is complex and evolving

CIOs wield significant influence over their organization's environmental, social, and governance (ESG) and financial reporting compliance. Challenges for a sustainable business include tracking third-party providers' performance, optimizing the use of energy-efficient cloud resources, reducing time-consuming manual processes, and analyzing data across global supply chains.

How can CIOs address data regulations across their organization's jurisdictions?

92%
of large companies report ROI on their data and AI investments[2]

[1] IDC Planning Guide: Employing Data Management and Analytics Technologies
[2] NewVantage Partners Data and AI Leadership Executive Survey 2022

Drive success with advanced AI technology

Oracle's integrated suite of AI services and applications gives CIOs the power to bring innovations to market faster and make their organizations more responsive. Oracle Cloud Infrastructure (OCI) offers choice, performance and security at the same low price in all cloud regions and complete cloud services for any workload worldwide, across clouds, or in your data center.

97%
of organizations have adopted multicloud strategies[3]

Oracle Fusion Cloud Applications span 18 industries and every area of the business, they include Oracle Fusion Cloud Enterprise Resource Planning (ERP), Enterprise Performance Management (EPM), Human Capital Management (HCM), Customer Experience (CX), Supply Chain & Manufacturing (SCM), and more. Deploy one capability at a time or several at once from a single integrated suite with a common data model to quickly meet business needs and easily tap into new capabilities as requirements change.

[3] 451 Research, part of S&P Global Market Intelligence"Multicloud in the Mainstream" Global Survey, 2023

Drive productivity and deliver on your vision with AI-powered applications

Equipped with a complete suite of AI-powered applications, CIOs can improve collaboration between finance, human resources, supply chain, operations, sales, and marketing. Deploy systems that provide the right people throughout the company with the transformative power of AI-driven automation and insights so teams can do more with less, collaborate using a single, trusted view of business performance, identify and assess risks, and delight customers.

Oracle focuses on practical AI, prioritizing the needs of the user and the business case. Identifying AI's highest-value use cases is key to reaping its rewards. AI and machine learning (ML) are embedded into adaptive, intelligent applications and digital assistants to solve specific business challenges. Taking advantage of these capabilities requires no technical expertise.

With generative AI capabilities—such as summarizing documents, building tables, synthesizing ideas, and creating text—embedded in cloud-based business applications, including industry-specific applications, you can increase knowledge workers' productivity and efficiency while freeing up time for value-added tasks and improving the overall employee experience.

To derive the full benefits of AI for your business, you can further train and refine Oracle's prebuilt AI models to suit your specific business use cases. You'll also have access to data provenance and lineage for greater transparency.

With Oracle Fusion Cloud Applications, you can increase employee satisfaction and productivity through automation and enable informed, intelligent, and predictive decision-making across your business, all backed by the power of AI. Connect these applications to other models, including industry-specific solutions, to further benefit from AI advancements across the business.

Oracle Fusion Cloud HCM enables you to identify skills gaps within your workforce and offer personalized development and upskilling opportunities. It can also accelerate recruitment and onboarding processes so you can fill open positions faster and more efficiently.

With Oracle Cloud CX, you can leverage AI to deliver personalized customer experiences throughout the customer journey.

Anticipate possible disruptions, streamline procurement and vendor management, and maintain up-to-the-minute, end-to-end visibility into your supply chain with the AI-enabled capabilities of Oracle Fusion Cloud SCM.

To improve productivity and free up valuable resources, automate manual business processes with Oracle Fusion Cloud ERP, and use embedded intelligence, scenario modeling, and built-in advanced analytics and planning to drive better decisions with Oracle Fusion Cloud EPM.

Extend these capabilities with Oracle Fusion Data Intelligence Platform, a family of prebuilt analytics applications that provide ready-to-use metrics and KPIs across departments to further improve decision-making.

> "Oracle Service and its use of machine learning and AI makes for a very rich journey and uplifts the role of service technician to a conveyor of change."
>
> **Mike Ellis**
> Chief Digital Officer, Johnson Controls

Achieve success with AI-enabled innovation

• Harness all your data to gain valuable insights to inform accurate forecasting and analysis and support data-driven decisions that fuel growth.

• Run your business more efficiently by seamlessly integrating AI and ML into day-to-day operations and analytics.

• Evaluate investments and innovations more accurately.

• Align your workforce to meet your business needs and counter talent shortfalls.

• Make processes resilient and adaptable.

• Use automated reporting to easily demonstrate the business value of your AI investments.

• Refine AI models based on your business needs.

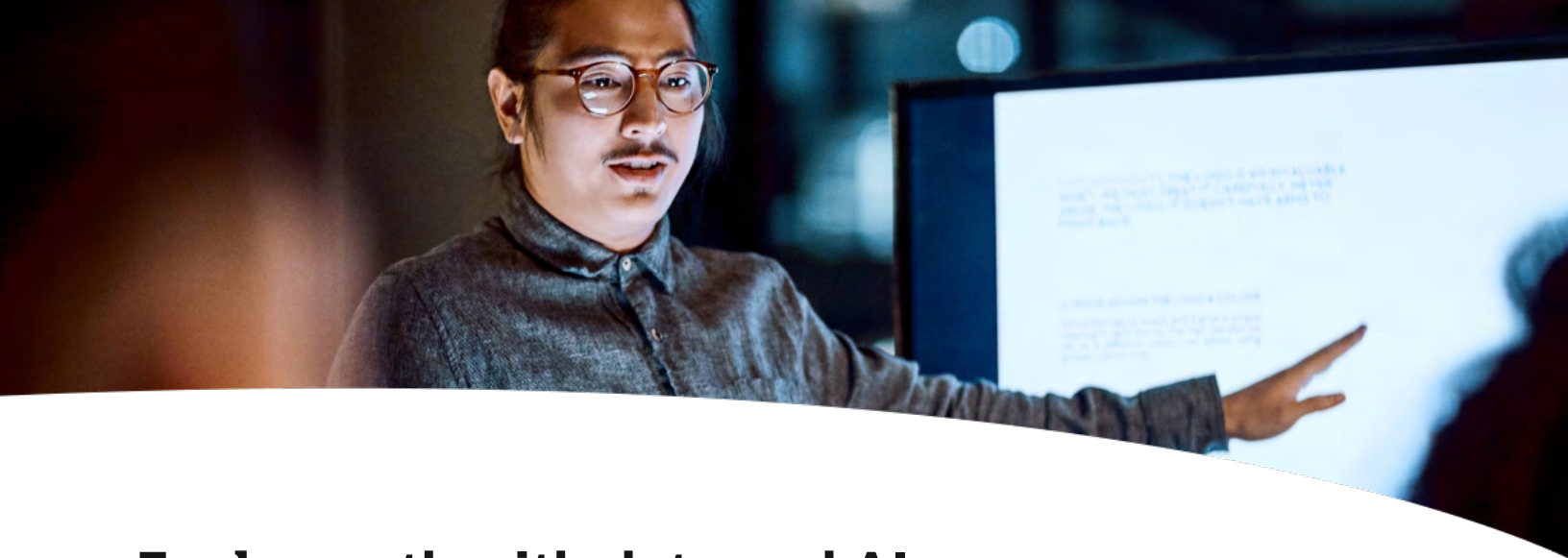• Increase transparency with tools to access data provenance and lineage.

ORACLE
Oracle AI for
Fusion Applications

Learn more on
Oracle AI for Fusion
Applications

10K+
Discover Financial Services eliminated 10K+ hours of manual labor per year with process automation

80%
Williams reduced reports by 80%

Fuel growth with data and AI

Put your data to productive use with OCI, a modern, hyperscale cloud. Build apps and experiences by integrating prebuilt AI services, using existing skills, and leveraging investments in Oracle data platforms for more control and faster innovation.

Speed time to value and lower risk by taking advantage of user-friendly AI models and analytics where the data resides on OCI to uncover patterns and predictions that were previously difficult to identify in large data sets.

Innovate, reduce risk, and develop intelligent apps with your choice of open source tools, such as Java, the #1 programming language for cloud native development, and MySQL, the world's most popular open source database. In addition, we have a strong commitment to the open source community and directly support Hadoop, Kubernetes, Linux, Python, and more.

Uber

"We needed a cloud provider that will help us maximize innovation while reducing our overall infrastructure costs. Oracle provides an ideal combination of price, performance, flexibility, and security."
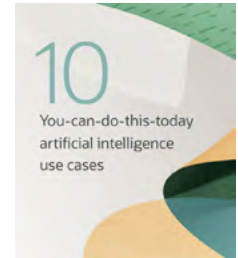
Dara Khosrowshahi
CEO, Uber

Read Uber's story

Build IT that's ready for anything

Leverage your data on OCI to innovate and drive business outcomes

- Integrate your data sources to improve data quality and access in a modern data platform that's open and modular.

- Enrich data with easy-to-use AI services with prebuilt models for developers, data scientists, and business users.

- Eliminate complex administration for any size organization with AI embedded in the industry's only autonomous database.

- Simplify lakehouse architecture with MySQL HeatWave, which combines transactional and analytical data processing with built-in ML for performance querying of object storage.

- Shorten analytics workflows with integrated data preparation and visualization for greater IT efficiency and self-service.

- Deploy in a distributed cloud to help meet data residency, sovereignty, and connectivity requirements and regulations.

10
You-can-do-this-today artificial intelligence use cases

10 AI use-cases to help improve productivity and increase sales

✓estuda.com

300X

faster performance of queries at 85% less cost

Build innovative applications with AI faster and for less on OCI

- Create and train robust ML models, including generative AI, with supercomputing performance and scalability.

- Build a supercluster with up to 32,768 GPUs on a high performance, low-latency network that can run large language models.

- Develop cloud native apps with open source tools such as Java, Kubernetes, Postgres, and Python for fast time to value.

- Rapidly build new apps on open source MySQL platforms or in low-code APEX on Oracle platforms with minimal assistance.

- Break down silos across back-office, industry-specific, and custom applications with a complete cloud platform.

Exit your data center to innovate and reduce costs with OCI

- Move a workload to the cloud to lower capital and operational costs with less infrastructure while gaining more control.

- Modernize legacy Oracle or non-Oracle workloads for more automation and capabilities that allow you to get to market faster and meet demand fluctuations and help improve profitability.

- Virtualize capacity with flexible and affordable compute services, including bare metal instances, VMs, containers, and serverless.

- Safeguard data and mitigate risks via security services for privacy, encryption, and cyberthreat protection.

- Enable and expand authorized data access and sharing along with analytics using streamlined business processes to foster collaboration and synergies.

- Address your regulatory and sustainability goals with more than 70 global and industry compliance programs.

**Modernize your IT estate with Oracle's distributed cloud
for more control, faster innovation, and a familiar UX**

- A single control plane provides a unified end-to-end experience across your Oracle Cloud ecosystem.

- Public cloud consists of more than 44 regions in 23 countries and offers a consistent set of more than 100 cloud services, with consistent, low service pricing worldwide.

- Multicloud solutions let you combine OCI services with other vendors' clouds to optimize cost, functionality, and performance.

- Hybrid cloud offerings, such as Oracle Exadata Cloud@Customer and Oracle Compute Cloud@Customer, provide a highly optimized and managed database in your data center.

- Gain full-stack visibility and management for hybrid and multicloud environments with continuous monitoring and anomaly detection.

- Dedicated cloud solutions provide Oracle public cloud services in a self-contained, independent cloud region in your data center.

Deutsche Bank ╱

€100M+

**cost savings and 50% less energy
use with a hybrid cloud**

**Develop and run innovative solutions on OCI
while reducing your environmental impact**

- OCI is committed to building a clean cloud and providing technologies to enable a sustainable future.

- OCI manages and maintains a very dense computing environment, attaining much higher utilization rates than an organization can achieve with an on-premises system.

99.9%
of retired hardware we recycled and reused

100%
of OCI data centers in Europe are powered by renewable energy

46%
of OCI global energy usage was renewable in 2021

Realize AI's potential in your industry

AI will revolutionize organizations. Leaders need instant insights to navigate demands on their business and push toward sustainable, profitable growth. Industry-specific tools that help manage data and guide strategic choices are key to success—processing the massive amount of data generated by Industry 4.0 technologies alone requires fast hardware and sophisticated software.

Let's look at AI's potential in two industries: construction and engineering and utilities, specifically energy and water.

Build the future with agile, secure, and AI-powered analytics

Revolutionize construction and engineering with unified project and asset lifecycle data for enhanced performance and collaboration and secure data management, analytics, and integration

The industry is grappling with a vast amount of data generated from multiple sources, including design documents, building information models, Internet of Things devices, sensors, and project management software, which must be integrated effectively to protect sensitive information and maintain project efficiency.

Whether by using AI-powered drones to survey and monitor construction sites, implementing machine learning algorithms for predictive maintenance, or exploring the many other applications of emerging technologies, CIOs can embrace innovation to optimize efficiency, reduce costs, and improve safety. With Oracle, CIOs can connect project teams, turn data into intelligence, and better orchestrate resources for smoother operations across the supply chain.

SKANSKA

"We were early adopters of Oracle Fusion on-premises, and that's where we started to build up a very close relationship with Oracle. And it just continues on the cloud today. The jump from Fusion on-prem to Oracle Cloud HCM and ERP was minimal. Under COVID-19, the project team never met, but Oracle as One Oracle has adopted a really good environment that we had to play within."

Mikael Stohm
IT Chief Operating Officer, Skanska Sweden

Read Skanska's story

81%
of architecture, engineering, and construction organizations see unifying their data in one project and portfolio management system as a key initiative in their data strategy

30%
Bild gained a 30% increase in data collection efficiency

50%
VINCI Construction was able to speed up operational processes by 50%

Power innovation with predictive intelligence

- **Track performance and mitigate risks:** Track and report on forecasts versus actuals, schedule timelines, and other KPIs with [Oracle Construction Intelligence Cloud](#). Power your data with AI to make informed, proactive decisions and drive continuous improvement across project planning, construction, capital programs, and asset operation. Leverage predictive intelligence to spot and address potential problems before they materialize.

- **Drive an efficient, sustainable supply chain:** Respond quickly to changing demand, supply, and market conditions, and optimize material and subcontractor management while having confidence in your ESG tracking and reporting—for example, scope 3 emissions monitoring. Boost efficiency with [Oracle Textura Payment Management](#), which helps builders, owners, and subcontractors simplify the monthly draw process. Reduce risk by securely managing compliance, and increase visibility into downstream payments to pay the supply chain on time.

- **Attract and retain talent:** [Oracle Fusion Cloud HCM](#) enables you to find, engage, and develop employees via award-winning digital user experiences that help increase employee effectiveness and streamline HR service delivery by reducing manual tasks. Oracle Cloud supports business continuity by providing employees with access to business-critical applications anytime, anywhere.

- **Accelerate cross-functional connection:** Drive growth and innovate faster during disruption. CIOs can leverage [capital program management solutions](#) to increase visibility, control, and assurance from portfolio planning to project execution. Using OCI, companies can gain complete control over all aspects of every project. [Oracle Smart Construction Platform](#) helps synchronize activities and resources while connecting teams and empowering individuals to make proactive decisions.

- **Accelerate billing and revenue models:** Use flexible billing and revenue business models to maximize your ROI and adjust quickly to changing client requirements. Power your applications with OCI to run IT for a lot less with ease, saving money with flexible up-front commitments.

Power a green future with increased organizational collaboration and integrated insights

Meet sustainability and efficiency goals in the utility industry through modernization.

To thrive and build a sustainable future, utilities must strive to deliver exceptional customer experiences, enhance energy efficiency, and effectively manage networks and assets to provide reliable and affordable essential services to their communities.

Embracing advanced technology, including AI, enables businesses to achieve these goals. By harnessing AI's power, companies can optimize energy distribution, detect leaks, and achieve lower asset downtime with predictive maintenance. Advanced analytics and machine learning drive data-driven decision-making, asset management, and sustainability efforts. The industry can enhance efficiency, reduce costs, and attain a better future for energy and water management through these measures.

72%
Light achieved a 72% increase in data consistency and accuracy

23%
Louisville Water increased work order throughput by 23%

22%
Scottish Water realized a 22% lower cost of IT ownership

Accelerate energy efficiency

- **Drive operational efficiency with intelligent meter insights:** Oracle Utilities Meter Data Management allows you to capture, manage, and analyze advanced meter and device data to accelerate billing cycles and drive operational efficiency.

- **Integrate efficient and sustainable systems into your core business:** Harness AI and behavioral science to influence customers to act on an enormous scale, drive change, and shift peak demand with Opower energy efficiency solutions. View, analyze, and leverage customer data and Opower insights from a single application to make the right program decisions. Oracle Fusion Cloud ERP provides the agility to reduce costs, sharpen forecasts, and innovate—all while retaining your customers' trust and expediting reporting for your regulators and shareholders. At the same time, Oracle Fusion Cloud EPM enables utilities to better integrate ESG considerations into their core business strategy and align their long-term sustainability goals with financial planning, risk management, and operational practices, helping to ensure transparent and accurate ESG reporting. In addition, apply AI-powered spacial analytics to help your company reduce revenue loss from service interruptions with OCI.

- **Drive cross-functional collaboration:** Forge deeper connections between customer care, utility billing, metering, and device management to grow revenue and resolve customer issues faster. Replace legacy customer information systems and use Oracle Utilities Customer Cloud Service to automate data management and common customer service workflows to stay ahead of customer needs.

- **Get ready for the next-generation utility workforce:** Keep your people trained, motivated, and productive; align payroll processes; manage transitions; monitor incidents and safety issues; manage performance, talent, recruiting, and approvals; and, importantly, foster an inclusive work environment—all with Oracle Cloud HCM.

- **Reduce network complexity while increasing maintenance efficiencies:** Help your team deliver on all aspects of real-time distribution monitoring, optimization, and control with Oracle Utilities Network Management System providing real-time distribution monitoring, optimization and control, while Oracle Utilities Work and Asset Management can support your full asset lifecycle, helping to reduce costs across all your assets with cloud and on-premises deployment options.

What success looks like for CIOs

- Achieve a cohesive architecture and a flexible distributed cloud strategy to build and modernize any workload and run any application faster and more securely for less while complying with regional data regulations.

- Accelerate AI adoption by creating intelligent apps that leverage familiar open source and industry-standard tools to improve productivity.

- Improve transparency and decision-making by seamlessly incorporating prebuilt AI into workflows and day-to-day analytics.

- Monetize data with a unified platform that collects, curates, and manages all data, analytics, and assets.

- Enhance security and reduce risk by applying adaptive, prescriptive, and integrated tools.

- Meet environmental sustainability goals with clean tech and help fulfill local and regional compliance regulations.

Why Oracle is the right partner for you

- Oracle offers a complete end-to-end platform for AI with advanced built-in security, best-in-class data management, and a comprehensive portfolio of cloud apps to address any business problem.

- Automatically secure, tune, and scale your apps with autonomous services.

- Get superior price-performance.

- Easily migrate critical enterprise workloads to the cloud.

- Get everything you need to build cloud native apps.

- Benefit from the most support for hybrid cloud strategies.

Take the next step to move your AI vision forward

CIOs have the opportunity to lead the charge across their organization to drive successful business outcomes. Oracle brings expertise, experience, and technology to help you navigate this transformative landscape. Let's talk.

Learn more

Explore Oracle Cloud
Request a demo
Strategies for the CIO
Learn why customers choose Oracle

Connect with us

Call +1.800.ORACLE1 or visit oracle.com

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