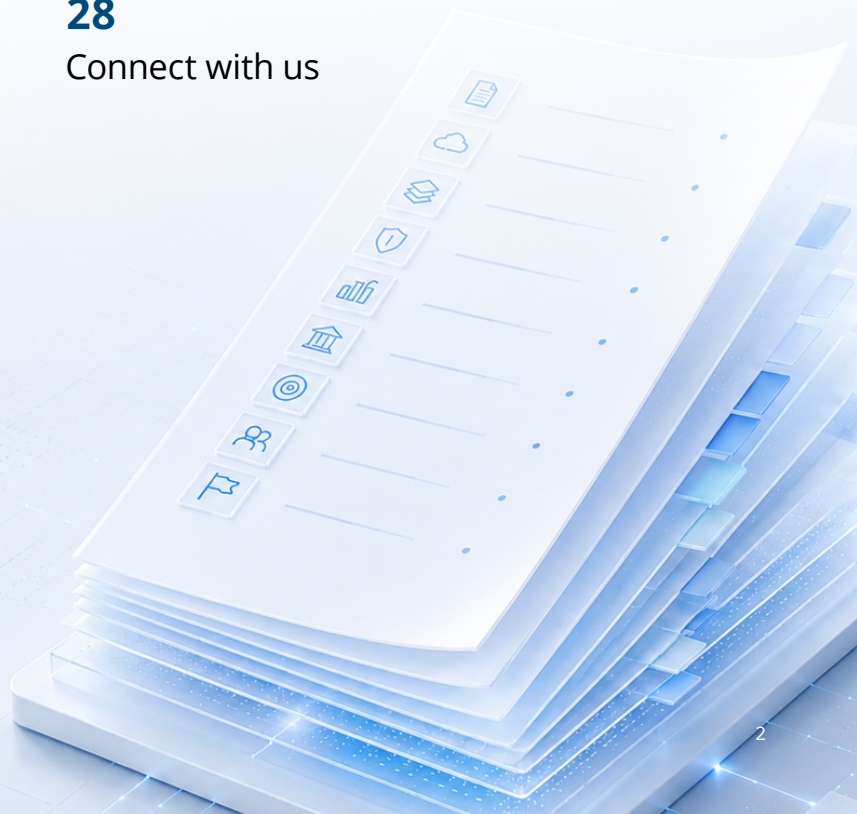




Controlling cloud spend while accelerating business outcomes

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Executive summary

As companies increasingly adopt cloud solutions, they face an unexpected new obstacle: the **cloud's cost is growing at a rate that is exceeding their budget**. As a result, many IT leaders are reassessing their cloud strategies because while larger cloud providers have provided opportunities for increased flexibility and innovation, the expenses of infrastructure, data transfer and AI services are requiring companies to implement alternative cloud solutions.

Recent studies and customer reports suggest that **Oracle Cloud Infrastructure (OCI) could provide organisations with as much as 40 percent** in cost savings for similar workloads for compute, network, database and AI services. In addition, built-in OCI AI services are available to provide organisations the ability to make enhancements to their business processes and increase productivity using AI across the entire organisation.

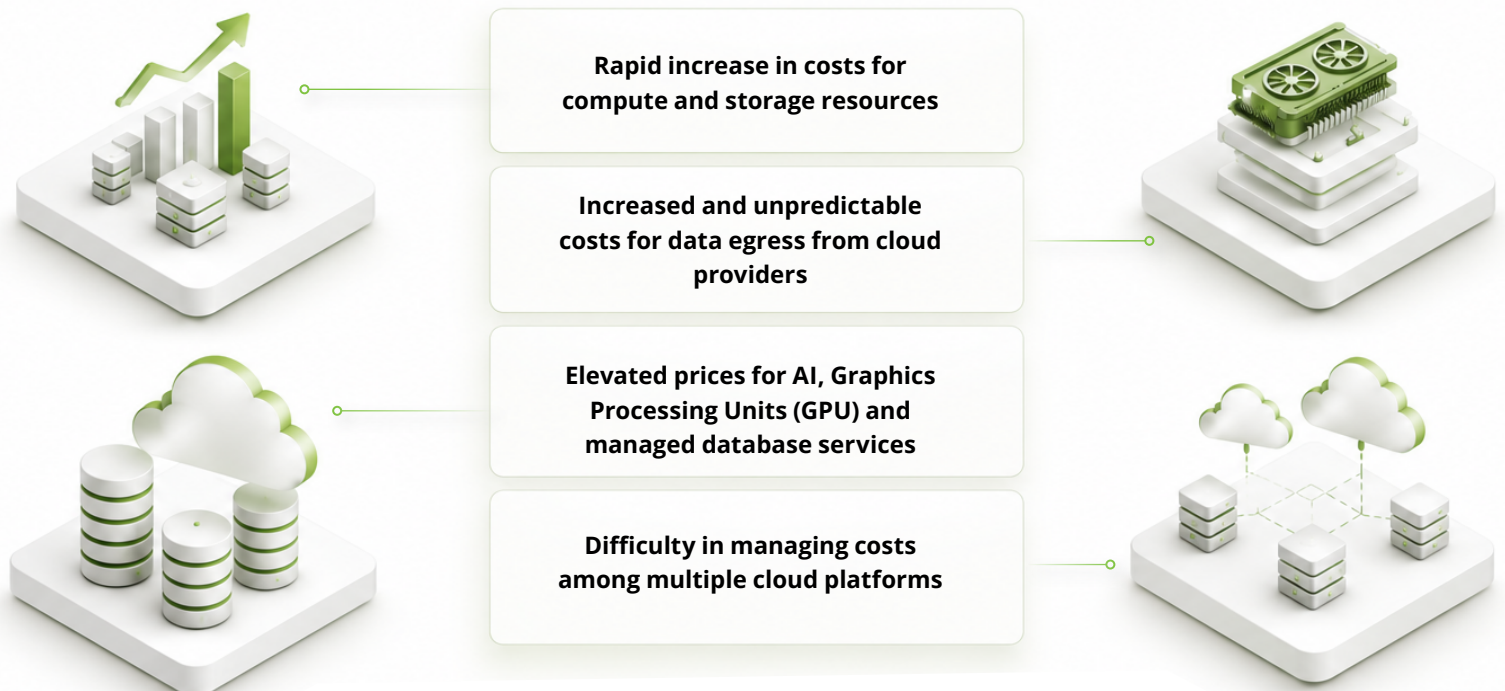


The cloud cost challenge



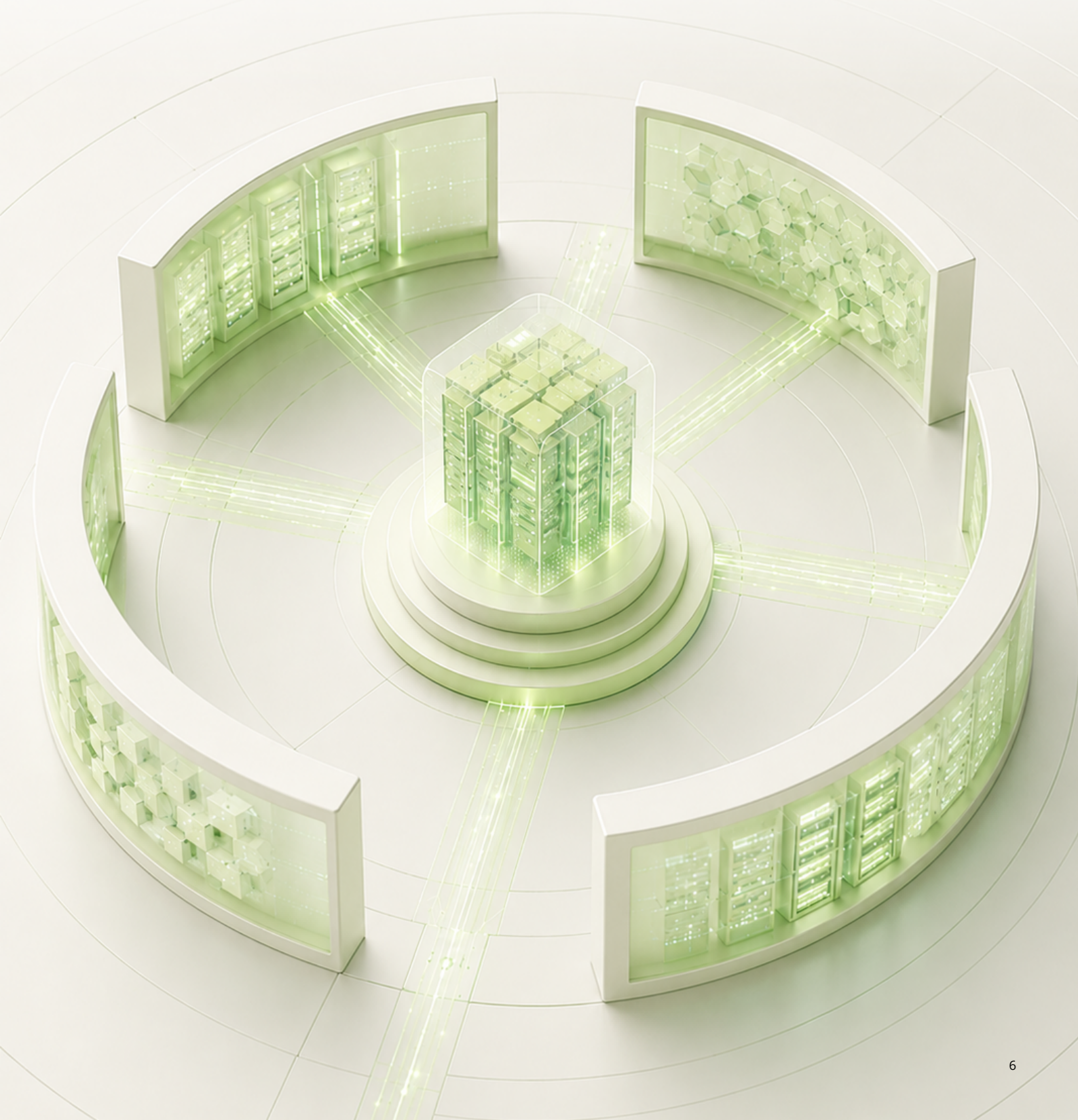
Spending on cloud is increasing at a rate that has surpassed IT budgets

Organisations today rely heavily on clouds to support their critical operations, analytic systems and AI tools; however, some of the obstacles they experience include:



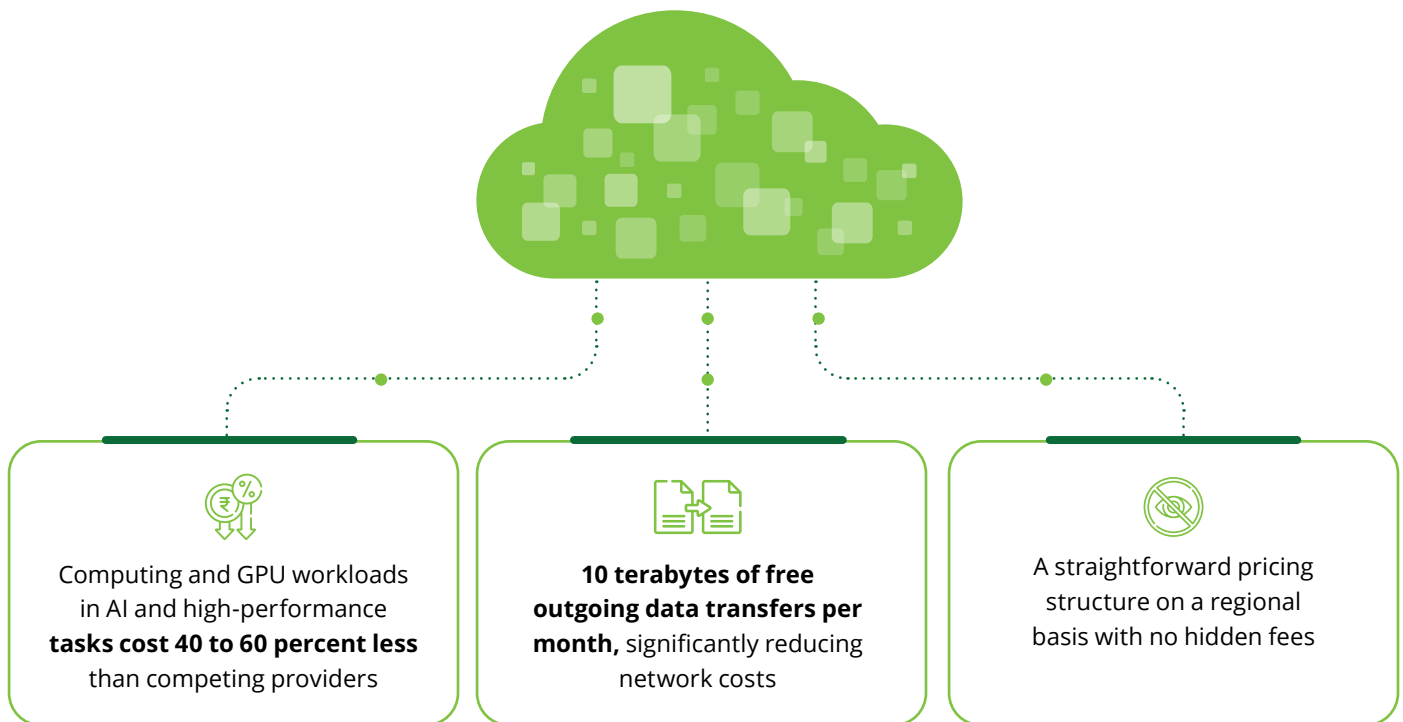
In many situations, spending by organisations has exceeded their IT budgets, which can generate challenges for them in believing that they will meet the overall goals they have established. Overall, difficulties with excessive, erratic and unpredictable cloud costs are causing many companies to revisit cloud providers to identify those that provide the greatest levels of cost savings.

Why Oracle Cloud Infrastructure (OCI) is different



Up to 40 percent lower infrastructure costs

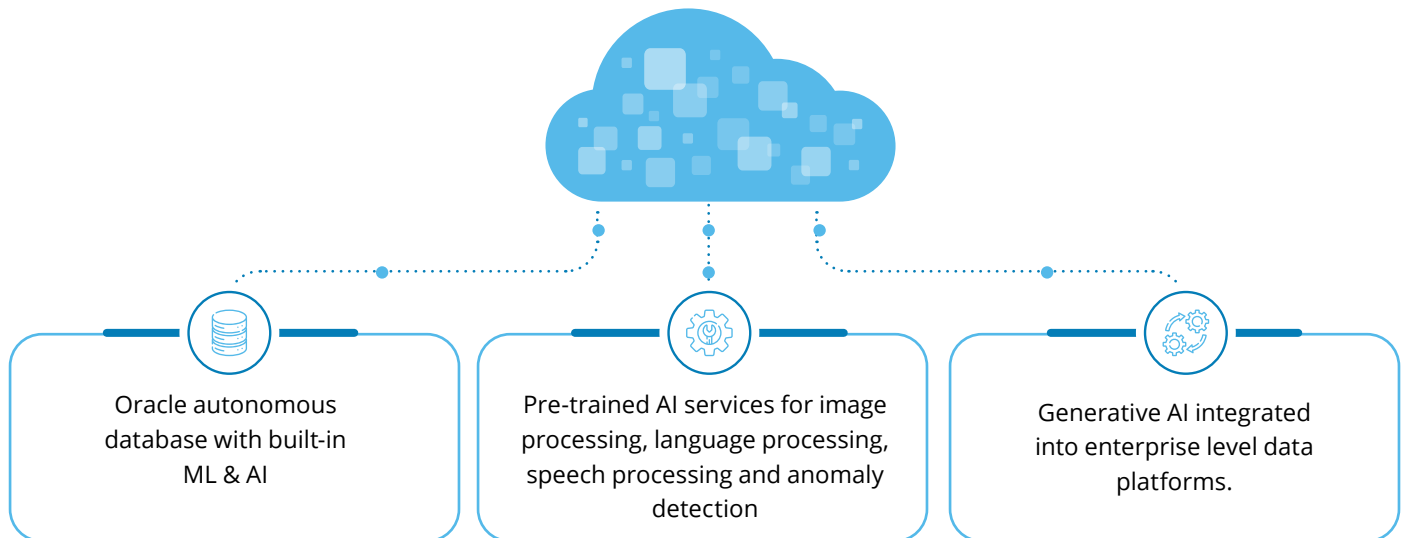
OCI was designed with good value for performance rather than providing more service for less money. For example, benchmark tests have shown that:



OCI provides substantial cost savings on many workloads, especially databases, Enterprise Resource Planning (ERP) systems analytics and AI inference.

Built-in AI services available at very low costs

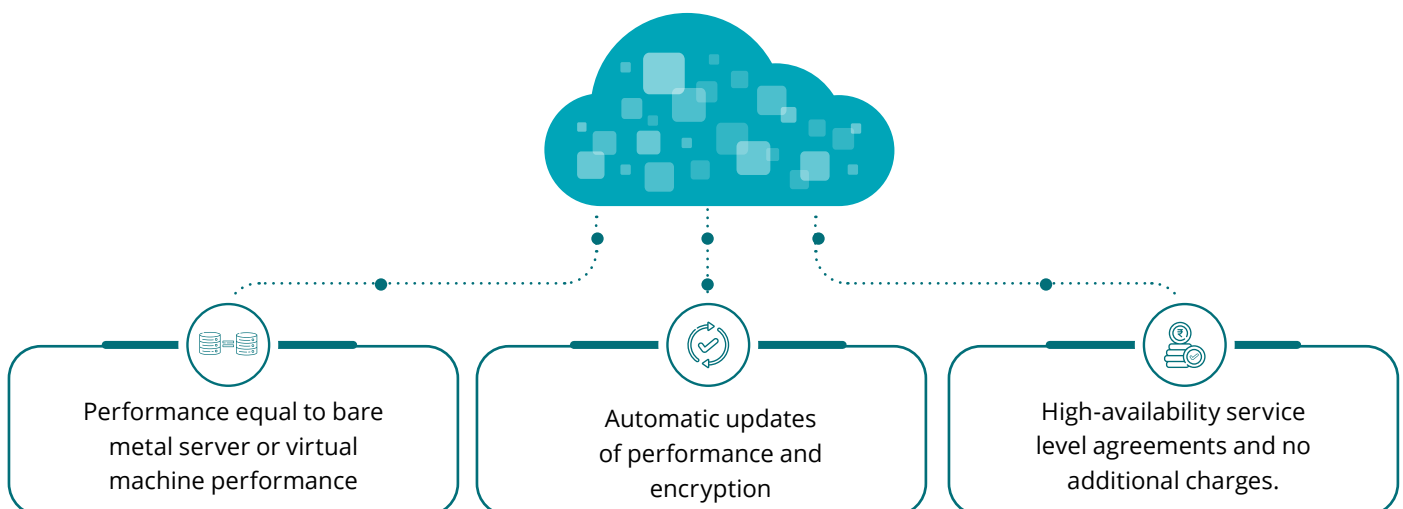
Most major cloud providers require additional paid software for AI features they offer; OCI has included AI features as part of its overall offering (as opposed to requiring customers to pay extra for their addition).



All the above-mentioned AI services can be used according to consumption, they provide tight integration, removing the need for complex AI implementations and third party high-cost applications. In many cases, the cost increase associated with the addition of AI will be negligible, but the benefits received will be immediate.

Enterprise-level performance and security

OCI was built initially for enterprises and regulated industries; as such, it has:



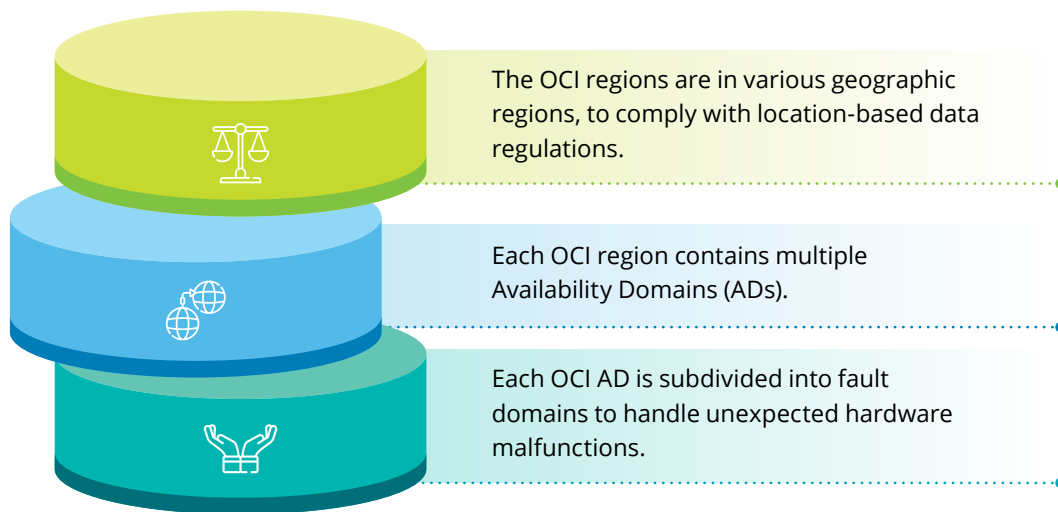
OCI is a great fit for industries such as finance, manufacturing, healthcare, information technology (IT) and public services which want an efficient process but do not want to give up on quality.

OCI architecture – At a glance



OCI is a cloud built from the ground up, as an enterprise level offering with performance isolation, predictable pricing and security to begin with. While legacy cloud systems were initially developed based on consumer or small business needs, OCI was created for mission-critical processes requiring high reliability.

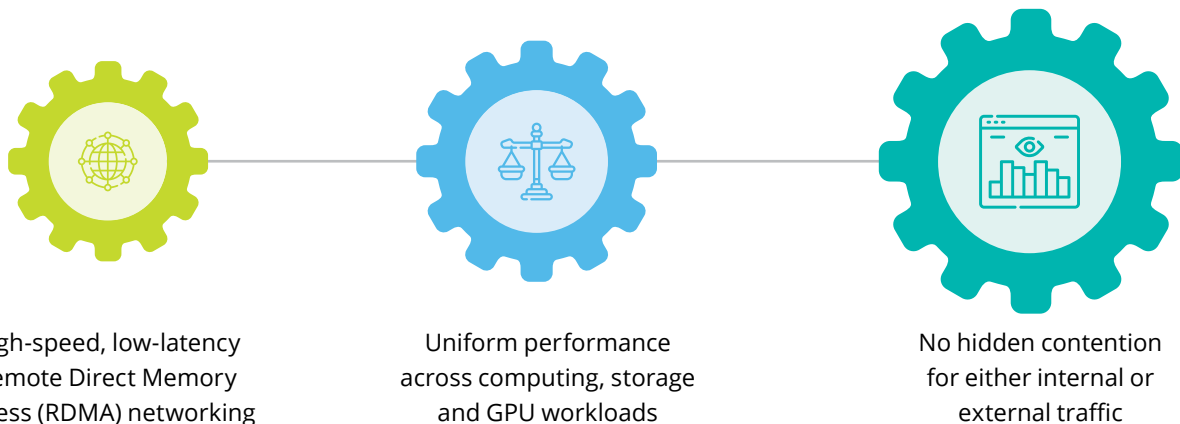
Regional availability domains and fault domains design



This hierarchical system architecture provides redundancy without the use of complex or costly solutions.

Network as the predominant architectural component

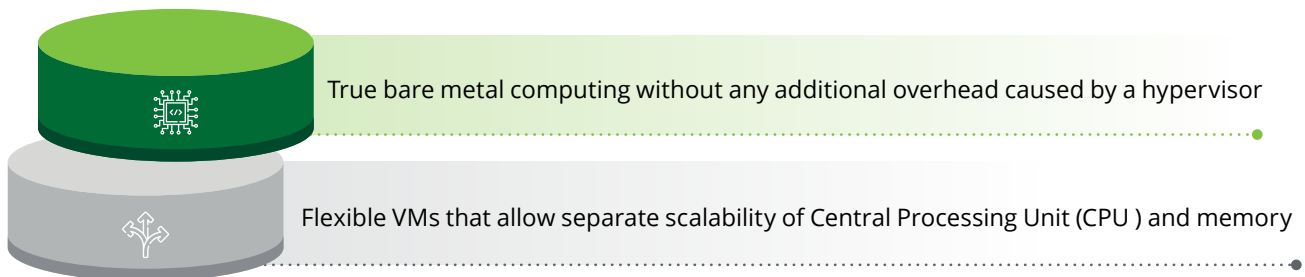
OCI uses an easily-understandable non-redundant network to provide



These factors are critical to use cases for databases, AI/ML, high-performance computing, ERP systems and analytics applications.

Compute architecture (Virtual machines and true bare metal)

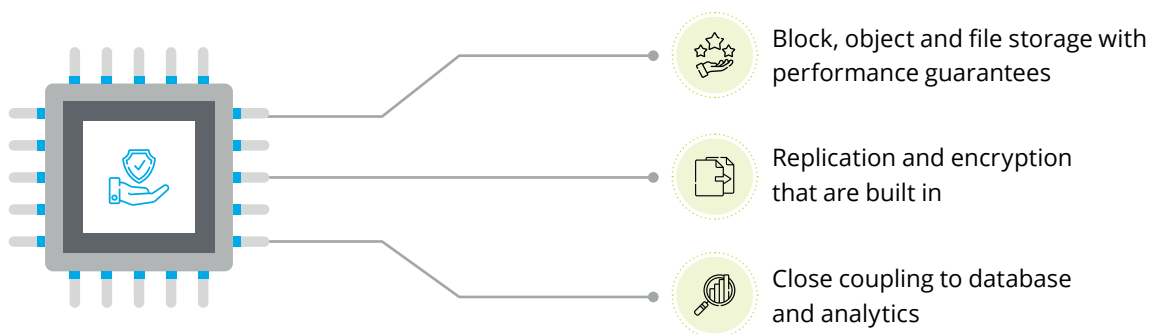
OCI provides the following:



This allows businesses to utilise the precise amount of computing resources they require resulting in minimal waste and cost.

Storage architecture

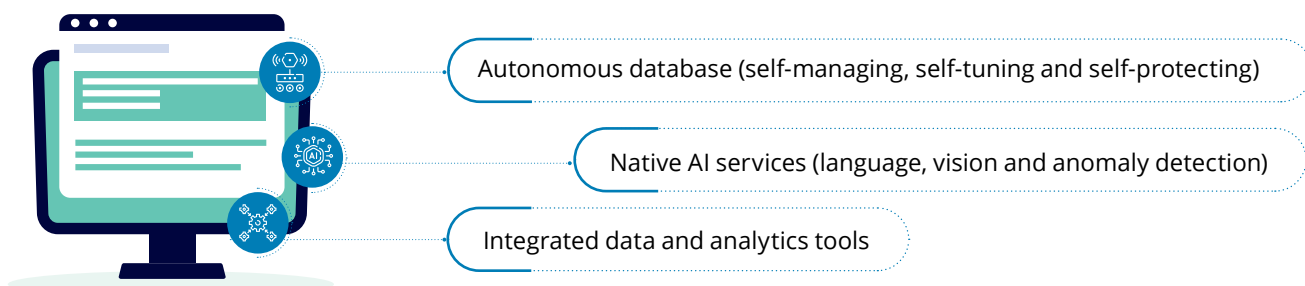
OCI storage provides reliable and consistent performance:



When the system is under heavy load, performance will not drop, helping to avoid common challenges associated with shared systems.

Autonomous and AI-embedded platform services

OCI uses AI and automation features throughout the service catalogue:



AI and automation are features that are included in all service levels, rather than a cost that is added on top of existing infrastructure.

Key benefits of OCI



Predictable performance (Noisy neighbour effect)

OCI ensures predictable performance through:

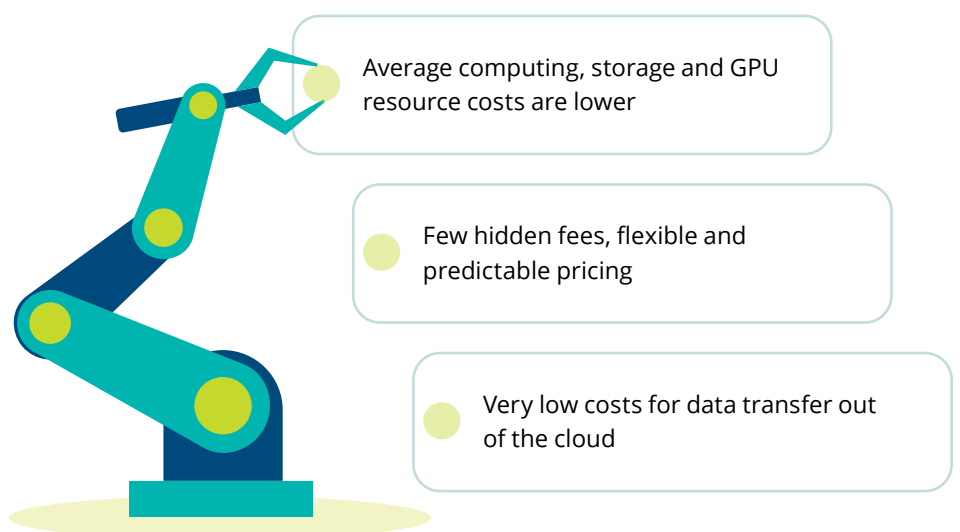


Benefit

Ideal for regulated, low latency and mission critical workloads.

Superior cost-to-performance ratio

OCI typically offers lower prices:

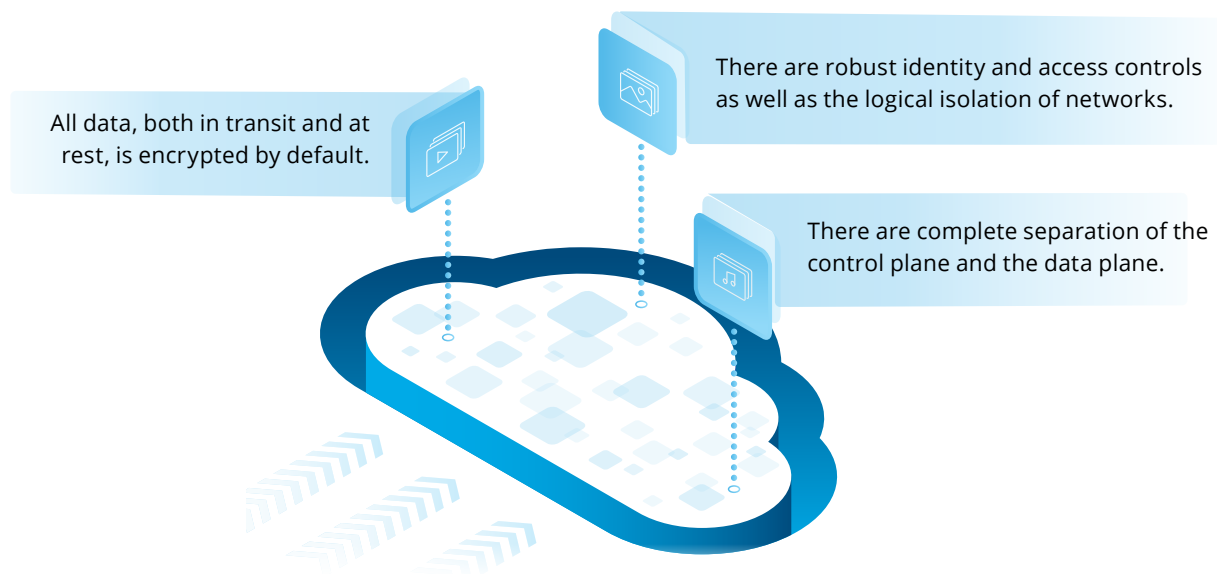


Benefit

Organisations that run steady-state workloads often report cost savings of between 20 percent and 40 percent.

Security built into the core

The OCI architecture incorporates security into its fundamental level, for example:

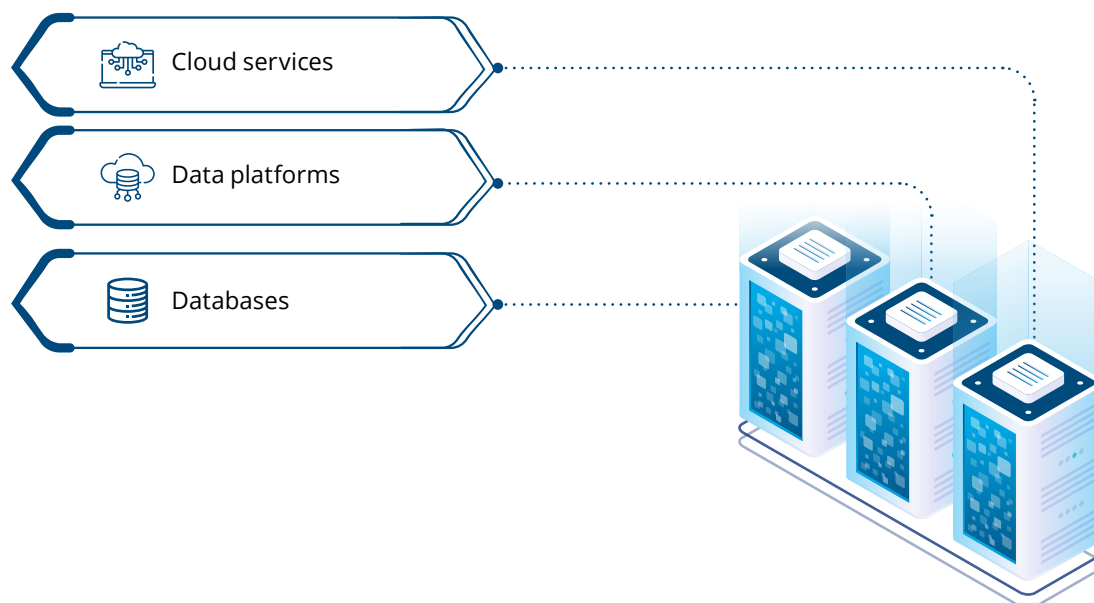


Benefit

There are additional protections available without the need to acquire other tools or pay additional charges.

Built-in AI without paying an AI premium

AI is part of the following platforms: its fundamental level, for example:



Benefit

AI can be deployed at a rapid pace with minimal additional costs.

Enterprise and multi-cloud native

OCI is capable of supporting the following types of organisations:



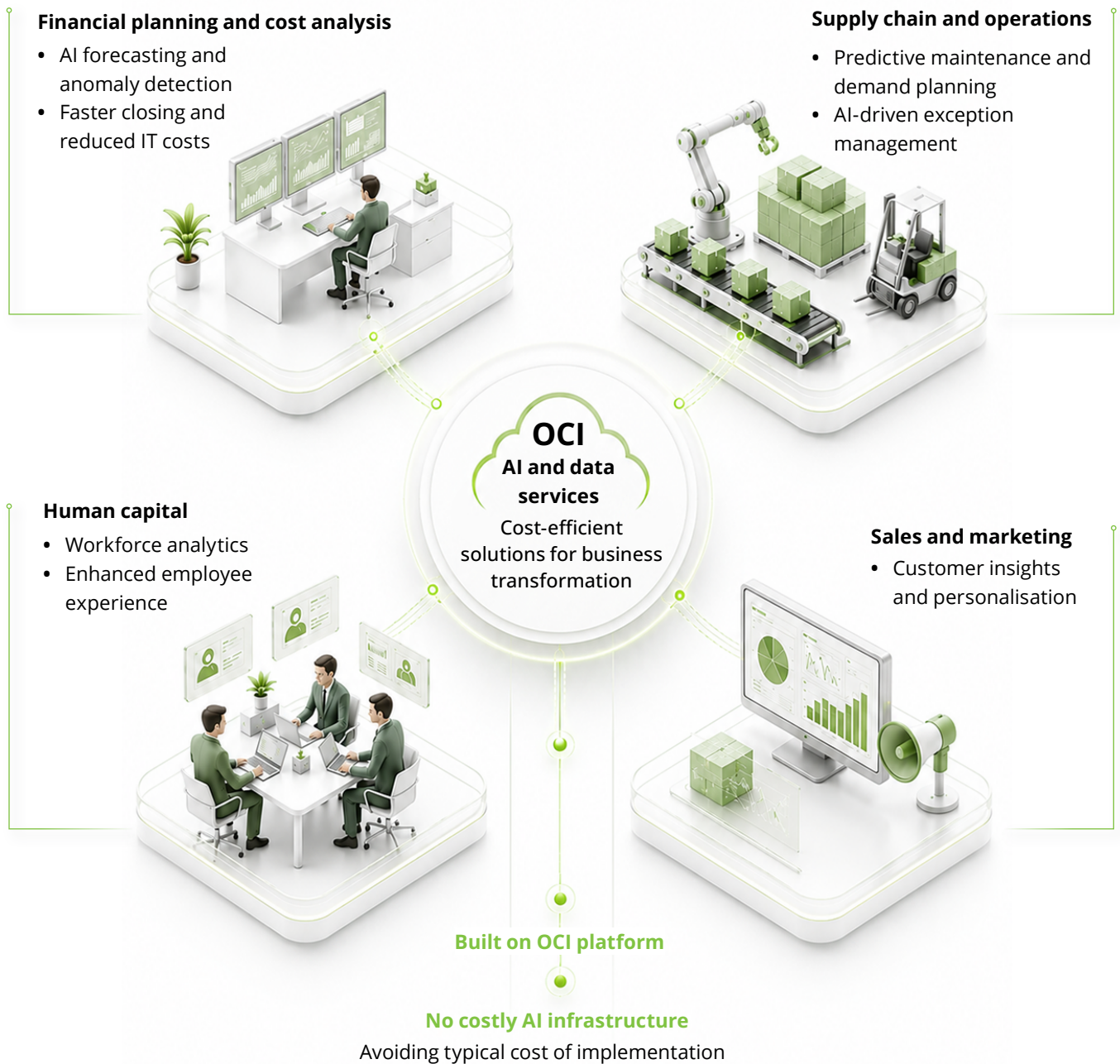
Benefit

Organisations can employ workloads based on their own business requirements.

Boosting productivity across business functions



OCI provides cost-efficient AI and data services that can improve overall productivity:



Since all these services are built onto the OCI platform, companies can avoid typical costs associated with implementing AI.

Industry-specific outcomes enabled by OCI



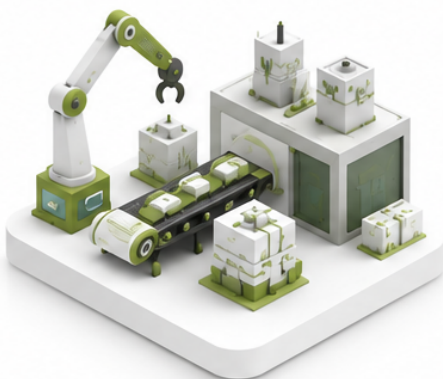
Financial services (Banking, insurance and capital markets)



Outcomes

- Lowered total cost of ownership (TCO) of core banking, risk management and analytics systems from 20 percent to 40 percent by using OCI
- Accelerated risk modelling and stress testing using capabilities found through OCI's high performance computing (HPC) system and embedded artificial intelligence
- Higher accuracy fraud detection because of the application of real-time artificial intelligence and machine learning (AI/ML) for fraud detection on transactional data
- Ability to comply with regulatory standards and data residency requirements using locked down, encrypted and isolated OCI capabilities
- Reduced operational overhead because of using Oracle Autonomous Database (ADB) with less need for manual labour associated with databases

Manufacturing



Outcomes

- Predictive maintenance via IoT and AI Analytics resulted in reduced unplanned maintenance
- Visibility improvement in supply chain (live analytics with lower cost) because of using OCI
- Improved production scheduling through AI-powered demand forecasting
- Reduced infrastructure costs for Manufacturing Execution Systems (MES), Product Lifecycle Management (PLM) and ERP
- Ability to create and maintain reusable digital twin platforms and services with predictable performance and pricing

Healthcare and Life Sciences



Outcomes

- Accelerated analytics and research workloads driven by high-performance computing
- Secure management of sensitive patient information leveraging OCI's secure-by-design architecture
- AI-driven diagnostics and imaging analysis with lower incremental cost of AI
- Improved interoperability between clinical and operational systems
- Reduced operational costs for electronic medical records (EMR), analytics and population health solutions

Retail and consumer goods



Outcomes

- Customised customer experience using embedded AI for recommendations and customer segmentation
- Improved demand forecasting and inventory optimisation
- Reduction in cloud computing costs associated with data-heavy retail analytics and omnichannel platforms
- Real-time price and promotional optimisation without high incremental costs associated with premium AI infrastructure
- Scalable seasonal demand management with predictable cloud economics

Energy and utilities



Outcomes

- Predictive maintenance of assets within utilities' grids, power generation plants and transportation pipelines
- Improved outage prediction and response, utilising AI and real-time analytics
- Reduced data egress and costs for analytics of sensor and telemetry data-heavy workloads
- Confident and secure integration of operational technology (OT) with enterprise IT
- Cost-effective high-performance computing (HPC) for simulation and forecasting workloads

Government and public sector



Outcomes

- Analysing and optimising networks using AI and real-time data processing
- Lowering infrastructure costs for data-intensive Operations Support Systems/ Business Support Systems
- Improving churn predictions and managing customer experience
- Developing large-scale 5G analytical platforms with predictable performance

Telecommunications



Outcomes

- Providing better services to citizens through AI-enabled digital products and services
- Using OCI dedicated and sovereign cloud models to support data sovereignty and compliance
- Decreasing the total ownership cost for mission critical systems
- Using scalable analytics for public health, transportation and urban development
- Upgrading legacy systems without any additional AI costs
- Decreasing the cost of moving data in distributed environments

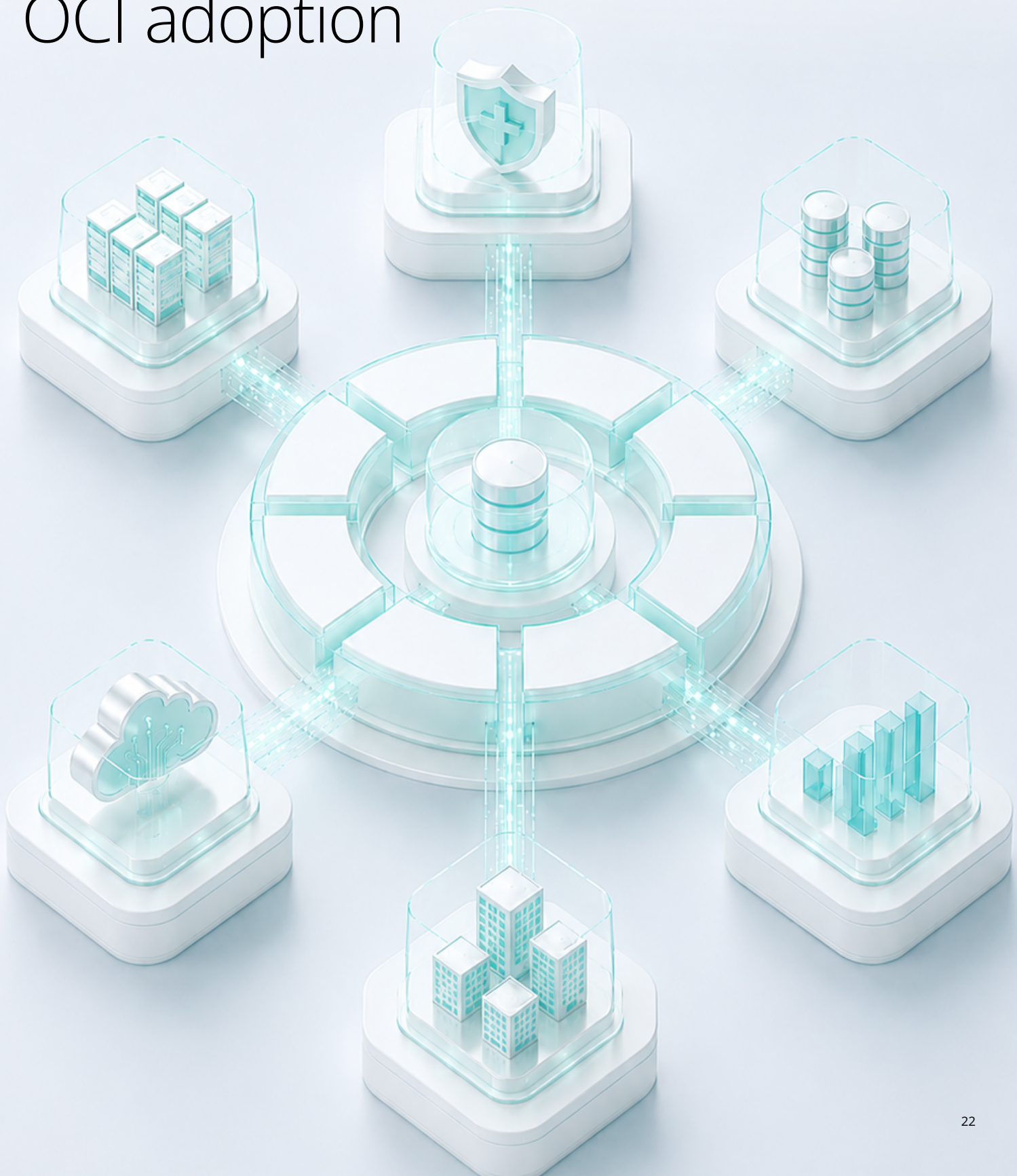
Technology, media and information services



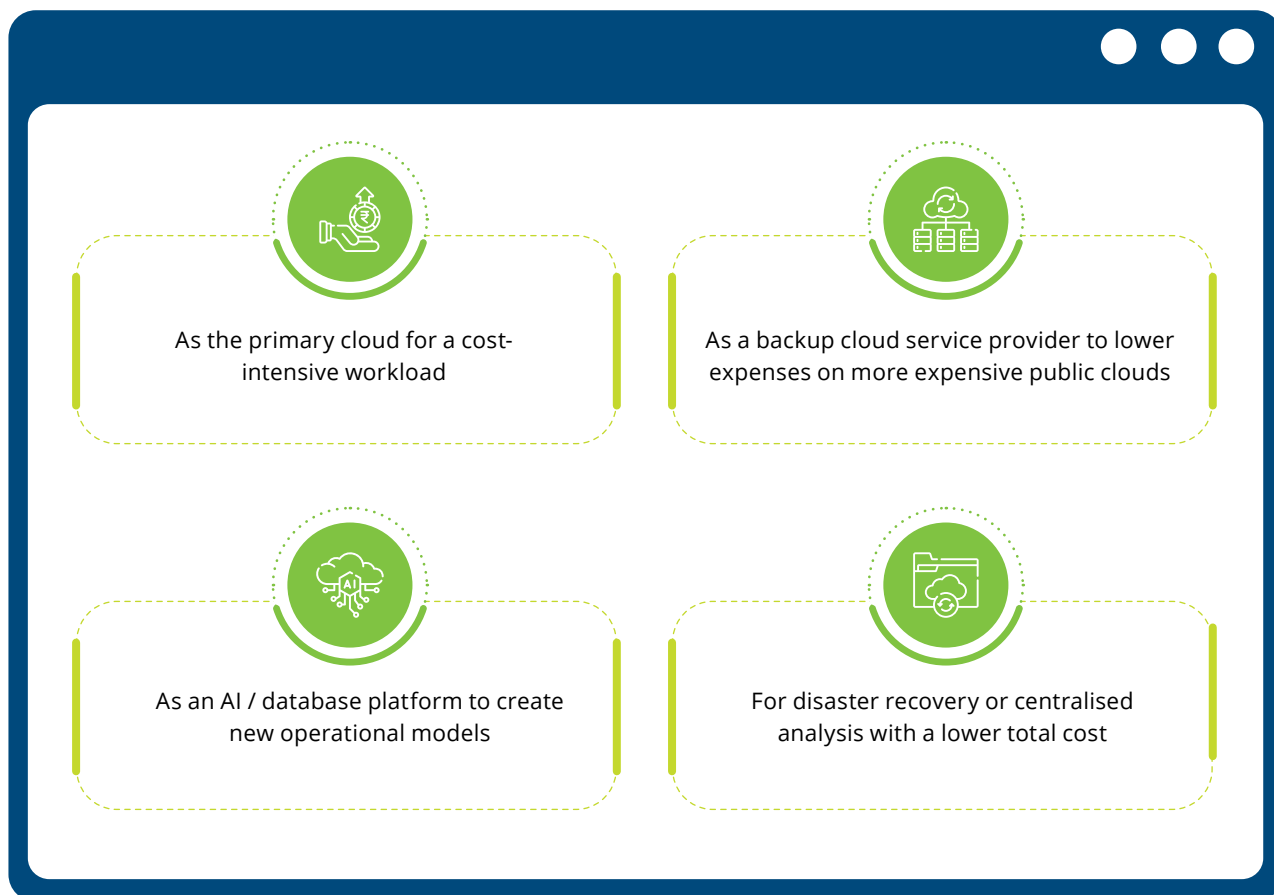
Outcomes

- Providing an affordable price for AI inferencing and content analysis
- Creating scalable data platforms that can accommodate a larger user base, while avoiding linear cost increases
- Improving recommendation processes and personalising user experiences
- Decreasing the costs associated with degrading content-intensive workloads
- Shortening the time to deliver digital products based on data.

Strategic use cases for OCI adoption



Companies typically use OCI for a variety of purposes:



This adaptable model enables an incremental improvement in company-wide cloud usage and return on investment (ROI) while also allowing for maximum benefit.

OCI as a strategic platform for System Integrator (SI) led transformation



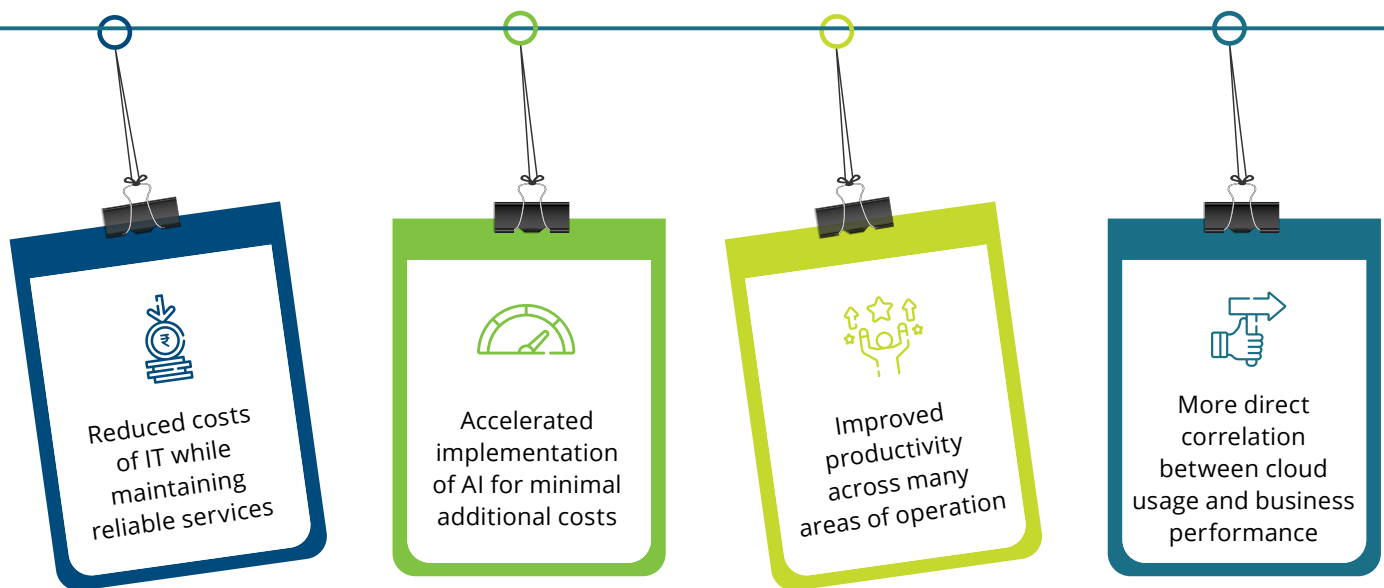
OCI serves as an evolution platform for transformation through SI-led teams.

Worldwide organisations are gravitating to the Cloud Transformation paradigm of balancing modernisation, reducing costs and delivering measurable results. OCI is well-matched with this process because it provides the ability to consolidate platforms, implement FinOps practically, and leverage built-in AI across a single cloud offering.

Predictable pricing, high performance, and integrated PaaS offerings will attribute to OCI's efficiencies primarily through system integrators' projects; thus, organisations participating in projects of IT modernising their enterprise resource applications, transforming their data platforms, and redesigning their processes with the help of AI.

Outcome-driven business impact

Utilising OCI's cost structure in conjunction with Deloitte's industry accelerators and business processes provides organisations the ability to realise:



Using the existing cloud infrastructure transforms OCI from being simply a lower-cost alternative to becoming a powerful, comprehensive transformation strategy.

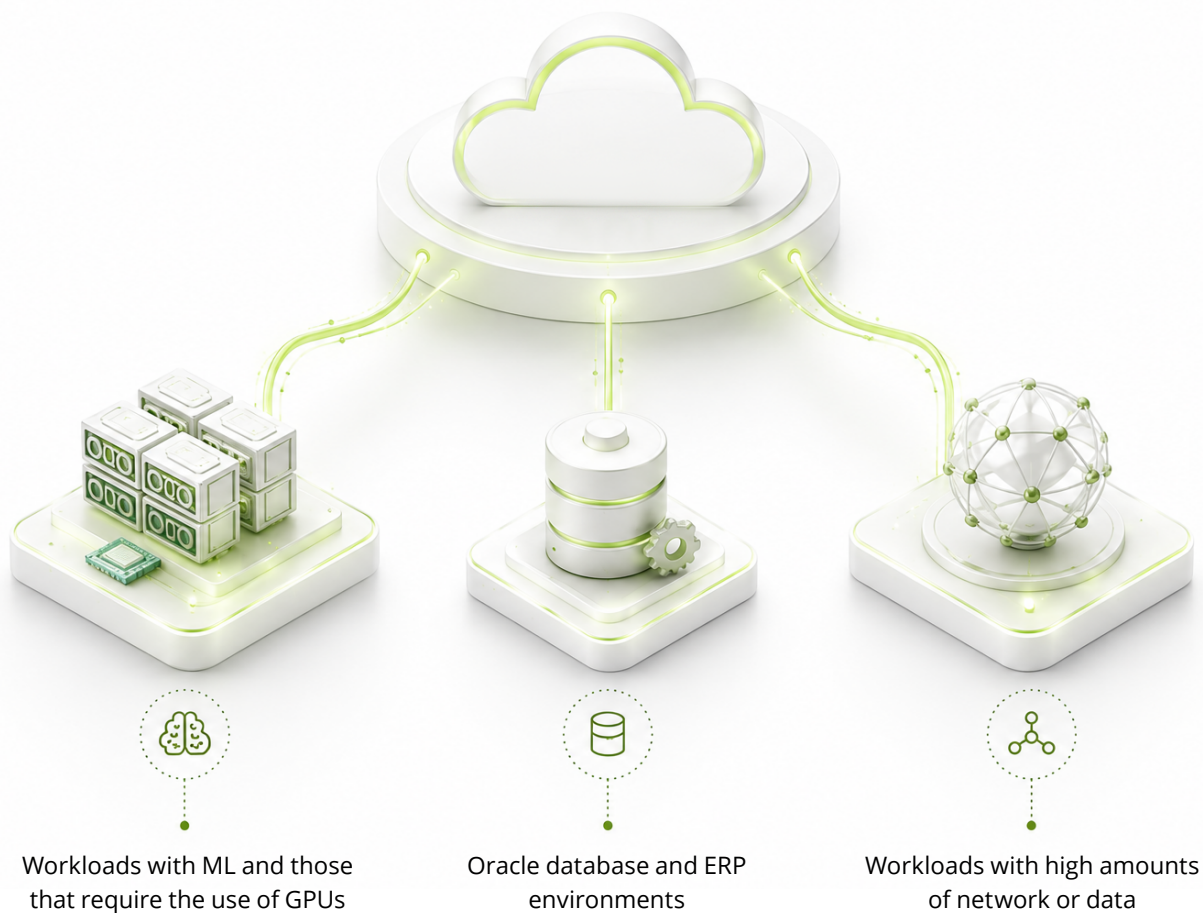
Where Deloitte adds differentiated value on OCI



Conclusion

With the shift to cloud computing creating an impact on the economics of IT, organisations must move away from a “cloud-first” to a “value-first” approaches. Through its offerings, OCI has the potential to deliver up to 40 percent lower overall costs, built-in capabilities for AI services and enterprise class performance while enabling organisations to manage their cloud expenses while accelerating innovation.

OCI regularly provides better value in the following points:



When supported by transformation programmes driven by Deloitte, OCI is becoming a simultaneous system upgrade, cost-cutting and productivity-increase solution via AI, which is also becoming a must-found of attention from companies as they take a tight budget path in this current cloud environment.

OCI is cost-effective and an enabler of long-term sustainable cloud and AI transformations.

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