

Capgemini 

ORACLE



INTELLIGENT CLOUD OPERATIONS





THE CLOUD TCO CHALLENGE



CLOUD BENEFITS

- The flexibility of Data Centre as Code are undeniable
- The Product based operating model gives high frequency organizations the upper hand



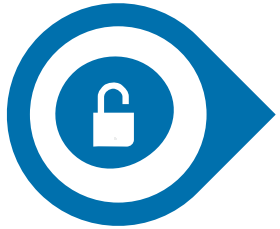
CLOUD BARRIERS

- Regulation, Jurisdiction & Security
- Expensive transformation risks a missed opportunity



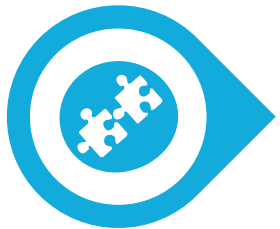


WHY IS CLOUD ADOPTION DIFFICULT?



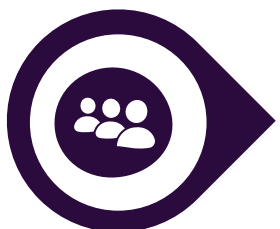
MISSION CRITICALITY

- Mission critical workloads often operate in regulated environments because of their sensitivity and/or criticality



ARCHITECTURE

- Many Enterprise Applications can't migrate to cloud without significant refactoring



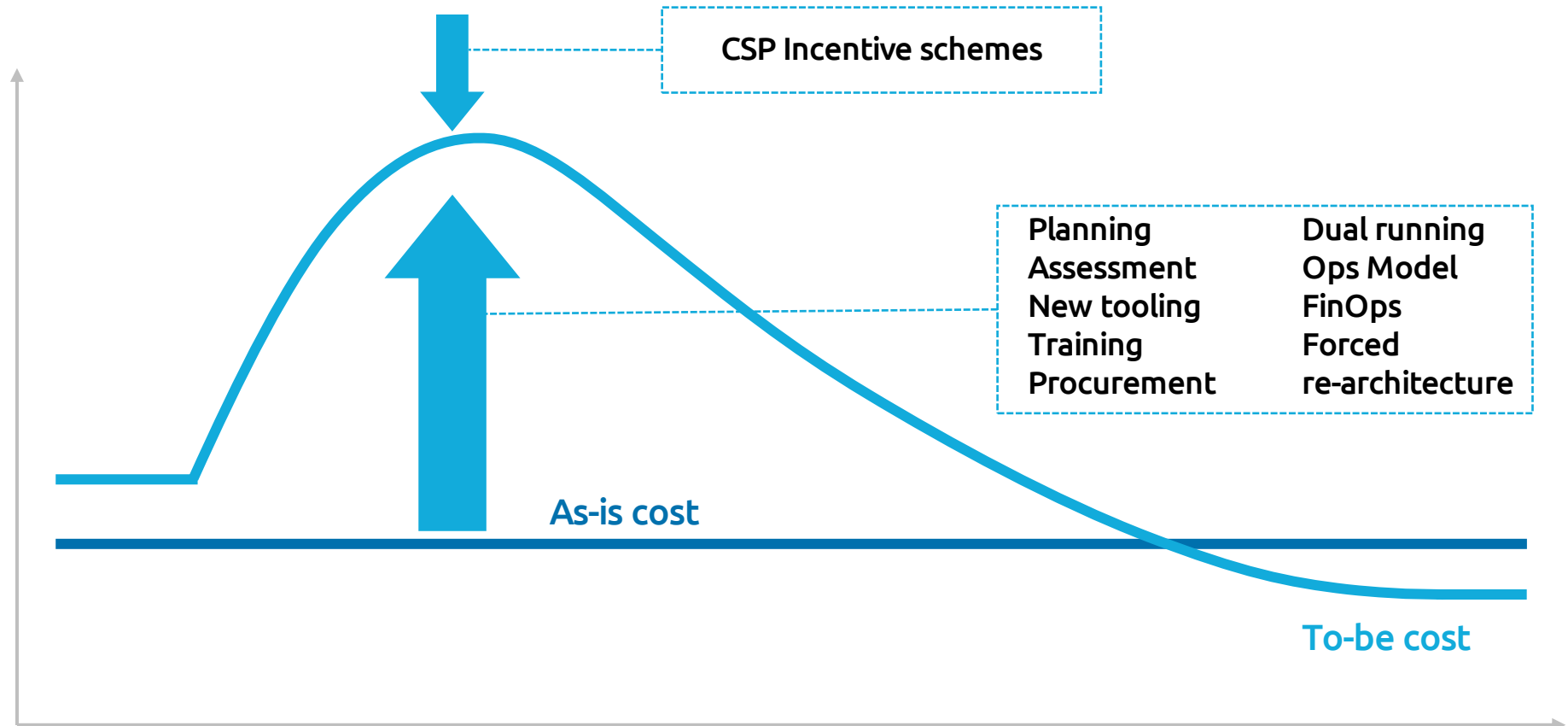
OPERATING MODEL

- Successful exploitation of the Cloud demands identifying and adopting a Target Operating Model for the delivery & integration of cloud services



THE CLOUD TRANSFORMATION COST BUBBLE

Solutioning the Platform, the Architecture and the Operating Model drives a cost bubble which many enterprises find difficult to justify.





THE IMPACT OF THE CLOUD ADOPTION CHALLENGES

The challenges of criticality, architecture, ops model and cost are impeding deeper adoption.



60%

STILL ON-PREMISE

Most workloads are still on-premise



80%

MISSION CRITICAL

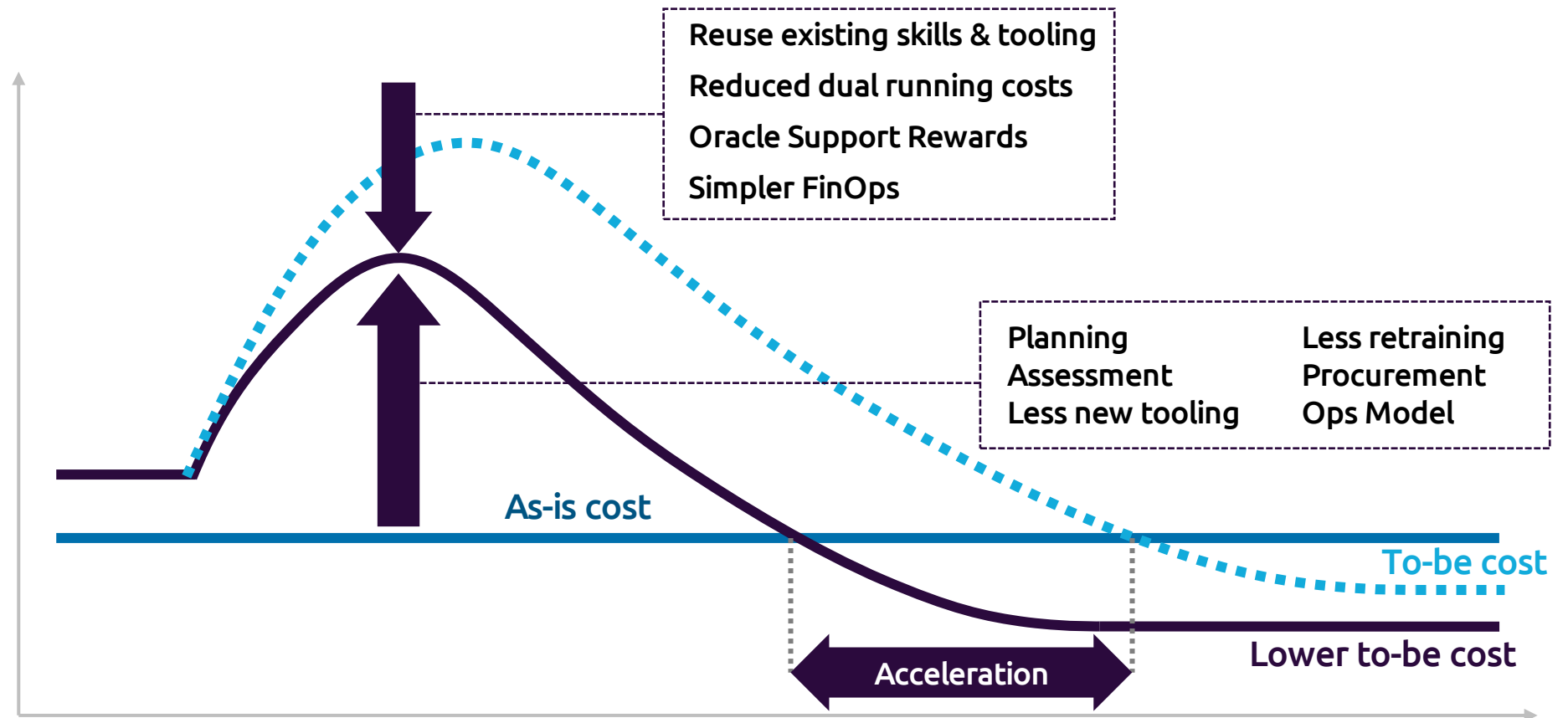
Only one fifth of mission critical workloads have moved to cloud

In a 2020 Pepperdata survey of 750 IT professionals, **1 in 3** respondents projected cloud spend to be over budget by **20-40%**.



ICON FLATTENS THE CLOUD TRANSFORMATION COST BUBBLE

ICON maximizes the use of your existing investment and skills, reduces nugatory transformation effort, reduces dual running costs and migrates you faster to accelerate digital transformation.



ICON - THE CLOUD WITHIN REACH



MISSION CRITICALITY

- Industry's broadest choice of deployment models
- Global reach

ARCHITECTURE

- Less enforced re-architecture
- Maximum servitization



CLOUD OPS MODEL

- Product-based Ops Model
- High frequency & Low friction



**DEPLOYMENT
MODELS FOR
EVERY
EVENTUALITY**



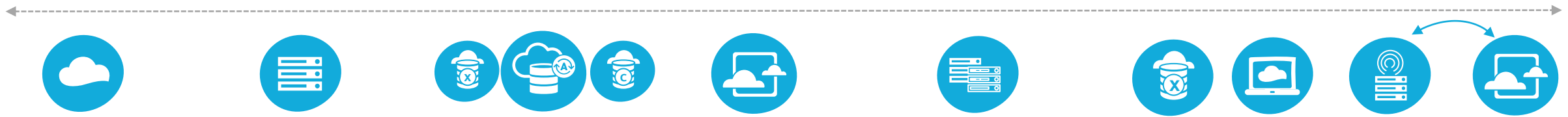


ICON – ORACLE WORKLOADS, SECURE, SERVICIZED, ANYWHERE

ORACLE® CLOUD INFRASTRUCTURE

Public Cloud

Isolated Cloud



Public Cloud	UK/US Government Regions	Exadata Cloud@Customer + Private Cloud@Customer	Dedicated Region Cloud@Customer	National Security Regions	Exadata + Private Cloud Appliance	Roving Edge Infrastructure
Internet-connected	Internet-connected	Internet- connected	Internet- connected	Disconnected/Isolated	Disconnected/isolated	Customer Network
Multi-tenant	Multi-tenant	Single-tenant, or customer-controlled multi-tenant	Single-tenant, or customer-controlled multi-tenant	Single-tenant, or customer-controlled multi-tenant	Single-tenant, or customer-controlled multi-tenant	Single-tenant
Commercial	Government	Commercial or Government	Commercial or Government	Government/Defense/Intel	Commercial or Government	Government
Standard industry certifications	Specific government certifications	Customer Defined	Customer Defined	Customer Defined	Customer Defined	Specific government certifications
Shared ops teams	Ops teams that meet certain gov requirements	Shared ops teams	Shared ops teams	Dedicated ops teams with clearance by customer	Customer team (supplemented by SI/ACS)	Ops teams that meet certain gov requirements
Highly secure software delivery, GDPR for Europe FedRAMP High JAB for US.	Highly secure software delivery, GDPR for Europe and G-Cloud, Cyber Essentials Plus, UK Cloud Security Principles, FedRAMP High JAB for US	Highly secure software delivery, GDPR for Europe, FedRAMP High JAB for US.	Highly secure software delivery, GDPR for EU, FedRAMP High JAB for US.	Customer pre-approved highly secure software delivery process	Customer pre-approved highly secure software delivery	Highly secure software delivery, that meets gov requirements



OCI'S GROWING GLOBAL PRESENCE

July 2022: 39 Regions, 5 planned; Azure Interconnect Regions





ORACLE DATABASE SERVICE FOR AZURE

Building on the existing OCI-Azure Interconnect, Database Service for Azure is an Oracle managed service that enables customers to easily provision and manage Oracle databases running on OCI using an Azure-native API and console experience.

Combine the best of Microsoft Azure with OCI and Oracle Database services with no charges for ports or network traffic between the clouds.



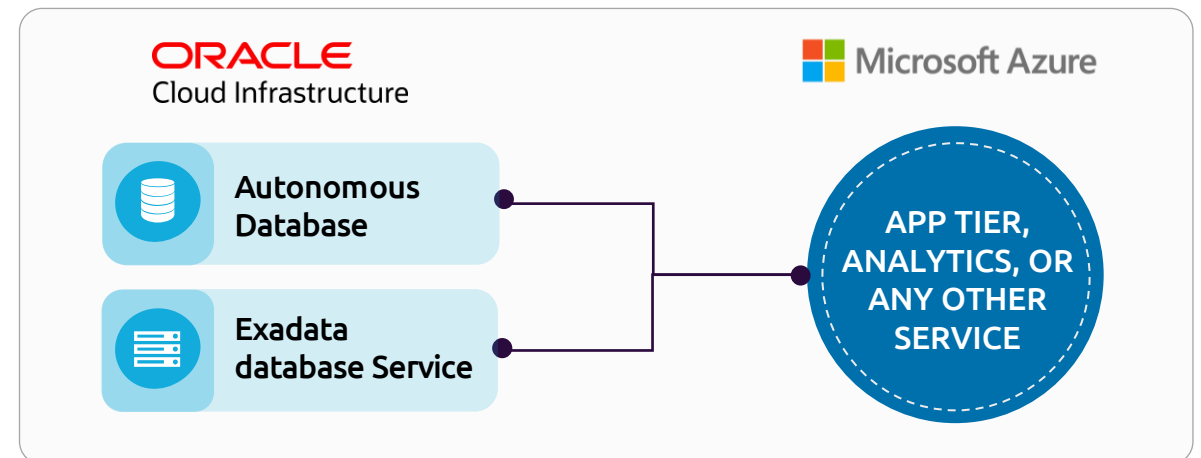
SEAMLESS AND SECURE INTEROPERABILITY

- Familiar Azure-native user experience
- Automated identity, networking, and monitoring integration
- Private interconnect and networking
- Use Microsoft Azure services with OCI databases together
- Collaborative support



ENTERPRISE-GRADE CLOUD SERVICES

- <2 ms latency private interconnect-suitable for nearly any app
- Zero downtime high availability with native Oracle RAC
- Scales up to 31 PB data warehouses and 10 million+ SQL IQPS
- Completely hands-off, multi-modal Autonomous Database

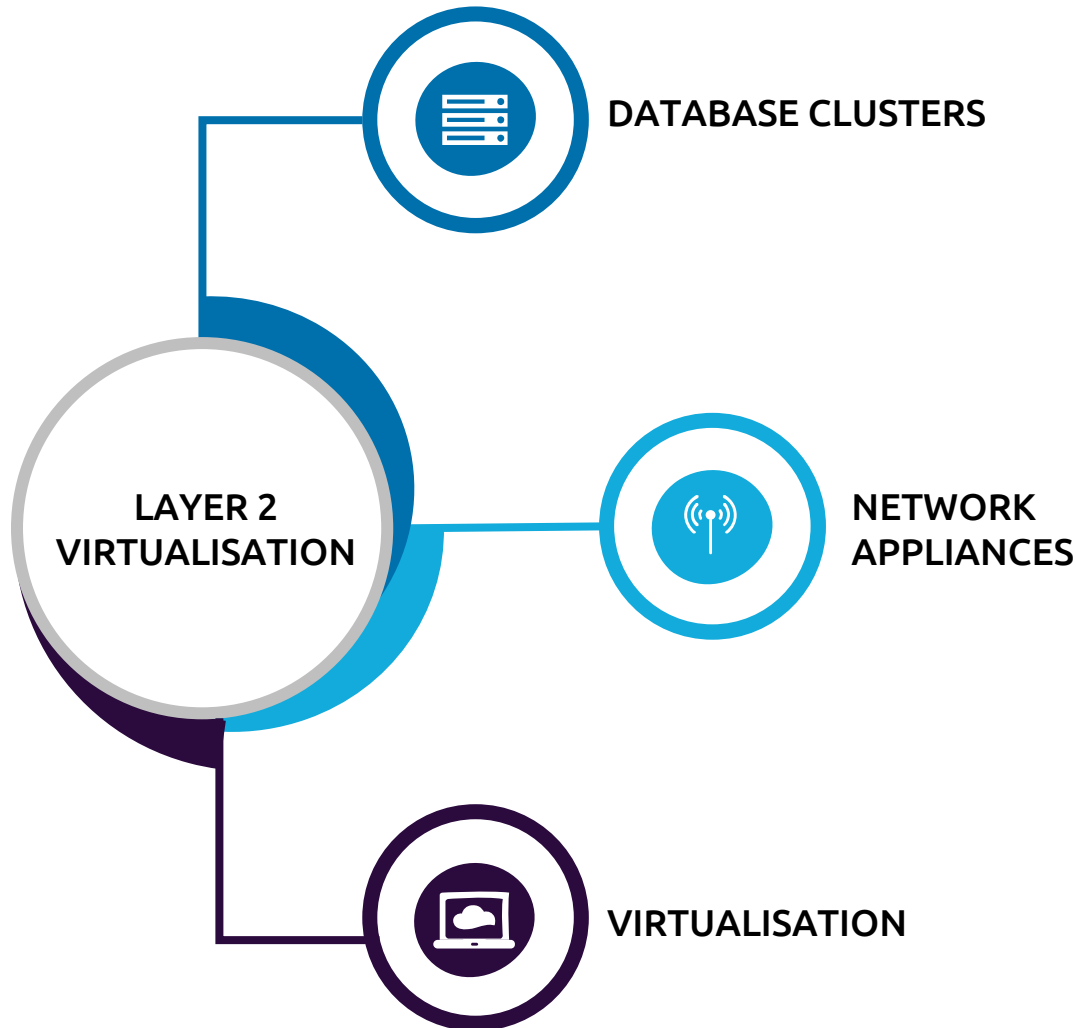


**REFACTOR &
REDESIGN LESS**





ICON – ENTERPRISE WORKLOADS, SECURE, SERVICIZED, ANYWHERE



Oracle is the first hyperscaler to virtualise the cloud network at Layer 2.

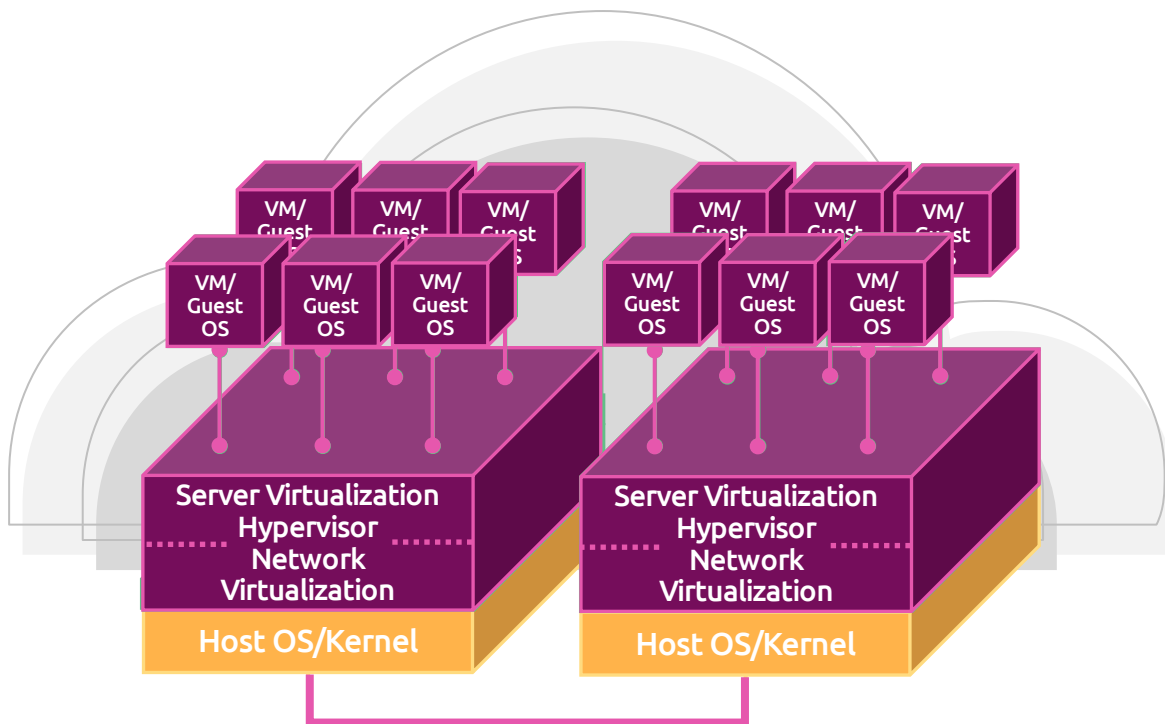
Technologies which rely on features of physical networking can move to OCI unchanged.

Other hyperscale clouds simply lack this support, and force applications to be redesigned.

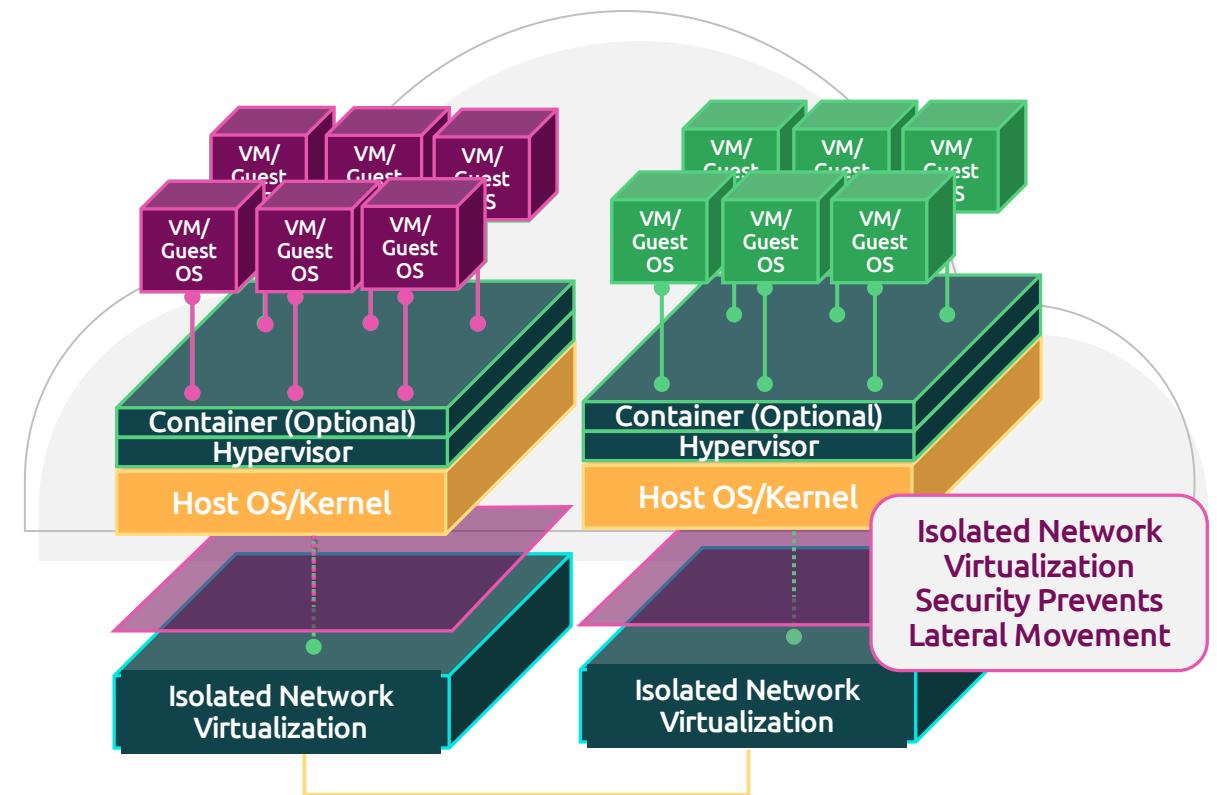


ICON – ORACLE WORKLOADS, SECURE, SERVICITIZED, ANYWHERE

1ST GENERATION CLOUD



ORACLE 2ND GENERATION CLOUD





**CLOUD
OPERATING
MODEL**



A REVOLUTIONARY SHIFT

THE TRADITIONAL ORGANISATION



Slow and difficult to change



NEW WAYS OF WORKING

+

CLOUD

Business Outcomes	True Agile Organization
Operating Model Transformation	Everything as Code
Decoupled Architectures	New Commercial Models



THE HIGH-FREQUENCY ORGANISATION



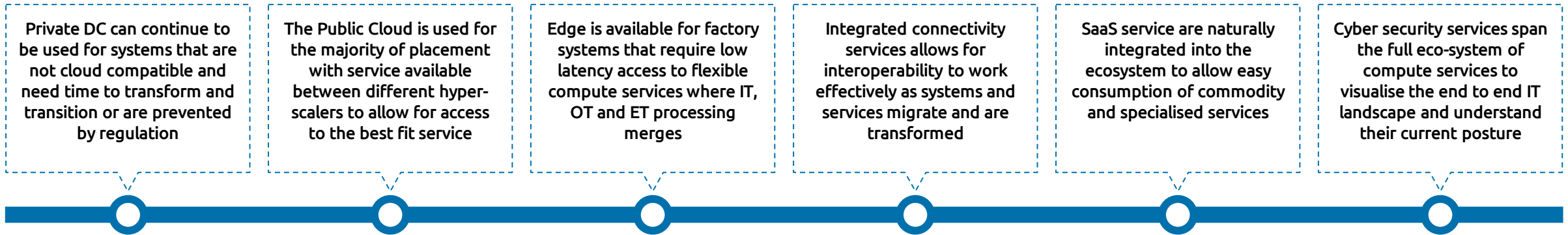
Adapt quickly, effortlessly



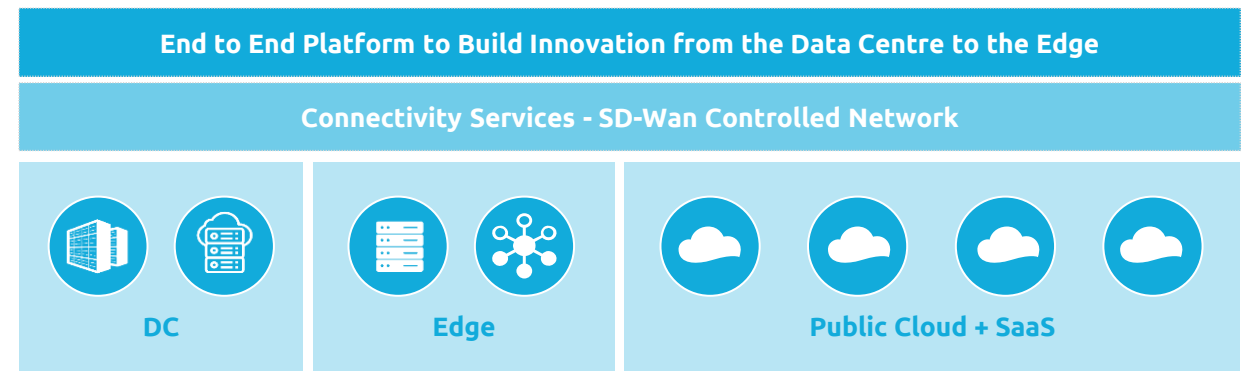


THE DYNAMIC PLATFORM

To allow a cloud platform and cloud service wrapper to work correctly for an organisation you must build the approach with key services that enable product teams to place their apps in the appropriate, best fit location.



This allows for an edge to edge eco-system to be established that can quickly access new services, connect, share and exchange data and enable innovation





THE CAPGEMINI APPROACH TO CLOUD

EVERYTHING AS CODE

Infrastructure-as-code is the foundation of ICON. ICON uses a template driven, modular approach to define the cloud Landing Zone of IaaS and PaaS components. With template architectures for different topologies, the modular approach allows specific customer requirements to be designed out and provisioned rapidly.

SECURE CI/CD PIPELINES

Automation drives efficiency and standards. Whether it's Platform, Virtual Machine or Container, all configurations can be stored in version control for audit and reuse. Capgemini has reference architectures for CI/CD pipelines proven with customers in Government (including Secure), Blue Light Services, FS, Transport and more. Automated guardrails, code analysis and the four eyes principle reduces risk, providing control, consistency and improved productivity.



BUSINESS AGILITY WITH AIP

A raft of capabilities and tools to harness the power of OCI to accelerate your digitalisation. Modernization in the broadest sense, supported by accelerators, blueprints & tooling for Microservices, iPaaS, API Management, Digital Integration Hubs and lo-code. AIP packs solutions to innovate, integrate, connect and digitalise not just in and around SaaS, but for your legacy Systems of Record. Modularity means you can start small and add capabilities as and when required.

RIGHTSHORE™ DEVELOPMENT

Leverage cost effective Development & Test Resources. Secure & regulated organisations can access innovation more easily, test and learn to get results more quickly before repatriating artefacts. Failure is acceptable and healthy in a cost effective and fast-moving environment. Release the code only when you have built confidence through modern test-driven development techniques.

OUR PURPOSE

Unleashing human energy through technology for an inclusive and sustainable future

A diverse collective of over 340,000 strategic and technological experts across more than 50 countries, driven by one shared passion: to unleash human energy through technology.

Our commitment is to unlock the true value of technology for your business, our planet and society for a more inclusive, sustainable future.



OUR AWS PARTNERSHIP AT A GLANCE



- PREMIER CONSULTING PARTNER
- MANAGED SERVICE PARTNER
- MIGRATION COMPETENCY
- FINANCIAL SERVICES COMPETENCY
- SAP COMPETENCY
- Industrial Software COMPETENCY
- IoT Consulting COMPETENCY
- Travel & Hospitality COMPETENCY
- Mainframe Migration Consulting COMPETENCY



OUR PARTNERSHIP

- More than **11 years managed partnership** driving Digital Transformation with joint enterprise customers worldwide
- **Partnership governance** presence in five continents
- **Strategic Initiatives** launched in 2018 and 2019 together with AWS with focus on Europe and NA
- **Ongoing priorities:**
 - Continually creating and launching new, sector-specific managed business services on top of the AWS Cloud
 - Growing business relationships at a local level
- **Only one of five partners** to hold the distinction of Premier Consulting partner since the programme's inception in 2012
- **One of four partners** that AWS is investing heavily through a NLI, ramping up the team dedicated to Capgemini to **more than 60 FTE globally**



GLOBAL CAPABILITIES

- **31,000+** trained **AWS resources** world-wide, targeting to increase exponentially in 2022
- Reaching **5,000+** active certifications (Associate and Professional) of which **430+** Professional and Specialty
- **Dedicated AWS COE's** to drive Industry specific Sales
- Capgemini executing **Well Architected Reviews** in Europe and NA
- **Leading together on Sustainability** through the Capgemini/AWS offerings
- One of four launching partners invited to participate in the **VMware Cloud on AWS** initiative
- **Launch Partner for AWS Panorma**
- **Launch Partner for AWS Lookout for Vision**



COMPETENCIES

- Capgemini is certified as a **Managed Service Provider on AWS**
- Capgemini invited to participate in the **AWS MAP programme**
- **AWS Migration Competency**
- **AWS SAP Competency**
- **AWS Financial Services Competency**
- **AWS Industrial Software Competency**
- **AWS IoT Competency Altran**
- **AWS Travel & Hospitality Competency**
- **AWS Level 1 Managed Security Service Provider Competency**
- **AWS Mainframe Migration Consulting Competency**
- **AWS Well Architected Partner**
- **AWS Serverless Service Delivery Program**
- **Amazon Connect Service Delivery Program**
- **Amazon EC2 for Windows Server Delivery Program**
- **AWS Managed Services (AMS)** accredited partner



2021 SALES PLAYS:

- SAP on AWS
- Migrations to AWS
 - Mass migrations
 - Database migrations
 - Datawarehouse migrations
 - Etc.
- Cloud Native and Apps Modernization
- VMware cloud on AWS
- Insights & Data – Big Data & AI
- Managed services & Managed Solutions
- Financial Services
- 5G
- Intelligent Industries



RECENT AWS PARTNER AWARDS

- 2021 AWS Public Sector Partner of the Year – UK
- 2021 AWS GSI Partner of the Year – DACH
- 2021 AWS Consulting Partner of the Year – France
- 2020 Most Customer Obsessed Win – UK
- 2020 GSI partner of the year in China
- 2018 Transformation Award – Germany



OUR MICROSOFT PARTNERSHIP AT A GLANCE

<p>Gold Microsoft Partner</p>	<p>Gold Microsoft Partner</p>	<p>Azure Expert MSP</p>	<p>Microsoft</p> <p>Cloud Solution Provider (CSP)</p>
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#1 PARTNER IN THE CAPGEMINI GROUP FOR FY'19, FY'20 AND FY'21

Ambition: move from €2.2Bn to €5Bn business in 3 years

22 years of partnership, Globally and locally managed across 25 countries

<p>100,000+ Trained FTEs Globally</p>	<p>25,000+ Certified Consultants 12000+ in 2021</p>	<p>2,340 Client Accounts in 2021</p>
<p>22 Gold Competencies</p>	<p>YoY Growth : Azure: 86.23% Business Applications: 160% Modern Workplace & Security: 135%</p>	<p>390+ Customers on CSP</p>
<p>10 Microsoft Specialisations</p>	<p>~30% Growth Per Year on Average</p>	<p>10+ Global Microsoft awards over the last two years.</p>

2021

- Partner of the Year, GSI Digital Transformation
- Partner of the Year, Financial Services
- Partner of the Year, Analytics
- Partner of the Year, Netherlands (Sogeti)
- Partner of the Year, Spain
- Microsoft Academy - Business Applications, Italy
- Microsoft Sustainability, France
- Microsoft Azure Expert Managed Services Provider

2022

- 2022 Partner of the Year, Power Apps (Sogeti)
- 2022 Partner of the Year, Germany
- 2022 Partner of the Year, SAP on Azure – Finalist
- 2022 Partner of the Year, Global System Integrator – Finalist

[Check our Awards and Accreditations page for details.](#)

**ICON
SUB-OFFERS**





THE SITUATION

High-Performance Computing (HPC) is an established key enabler in Science, Technology and Engineering, and is increasingly important in the fields of Manufacturing, Entertainment and more. HPC platforms traditionally require large capital outlay and a commitment to operate and maintain the platform for 5 years or more before another cycle of hardware refresh. The relentless evolution of CPU/GPU, Storage and Networking technologies, allied to the complexity of delivering physical HPC solutions means that there is an inevitable degree of inbuilt obsolescence.

An additional complex dimension impinges on any business case for HPC, in that demand volume can be unpredictable. This can result in an underutilized HPC investment or an oversubscribed one with long job queues and contention for resources between different projects and consumers.

Cloud HPC changes the game, lowering the entry price for HPC, or augmenting existing platforms with burstable capacity on-demand.

Solving complex problems faster means fewer physical prototypes, accelerated development and testing, and decreased time to market. Cloud HPC brings these benefits within the reach of more Enterprises than ever before.

HIGH PERFORMANCE COMPUTE

OUR OFFER

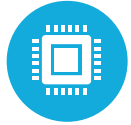
- **Requirements Analysis** to identify the right solution for your HPC needs, including assessment of the security posture of the workload
- **Conceptual Design** of the OCI HPC platform, which can include architectural views for Data, Business, Security, Applications and Technology
- **High Level and Detailed Design** of the platform, including identity integration, monitoring and SOC integration or provision
- **Availability and continuity** provision as required
- **Performance testing** definition, management and execution
- Detailed implementation planning and execution
- Support for **custom image** creation
- **Image lifecycle management** to patch, upgrade and maintain images
- **HPC Scheduler** integration using skills from Capgemini engineers and our partners, or the customer's preferred vendor
- Support for the **accreditation** process in regulated environments
- Transition into support, or into a fully managed Capgemini service
- Can host workloads at OFFICIAL SENSITIVE or SECRET

VALUE PROPOSITION

- On-demand access to HPC resources for Computational Fluid Dynamics, Weather Forecasting, Molecular Modelling, 3D Rendering and more
- Run performance-intensive HPC workloads requiring millions of IOPs and microsecond latency within a cluster, and many GB/s of bandwidth, while experiencing on-premise levels of HPC performance.
- The most advanced Cloud High Performance Compute, Storage & Networking capabilities
- A range of CPUs and GPUs with RoCE v2 networking
- An evergreen HPC platform
- Shift from Capex and hardware refresh to OpEx and pay for consumption
- Reduction of Oracle Support and Maintenance costs in the wider estate via Oracle Support Rewards
- Ability to burst into cloud or operate in the cloud as the norm
- Per second billing
- Deep pan-sector expertise
- Capgemini can take accountability end to end, from design to implementation



OCI DIFFERENTIATORS FOR HPC



BARE METAL

- Bare Metal with no provider software and no hypervisor
- Latest hardware and chipsets
- All-flash local and remote block storage for millions of IOPS

High performance



NETWORK

- Flat non-blocking network
- Off-box I/O virtualization
- Not oversubscribed so no jitter and consistent high performance
- Industry first RDMA

Consistent performance



DEDICATED

- No noisy neighbours
- Scalable and flexible Universal Credit model
- Evergreen – access to the latest IaaS as requirements evolve

Best performance, security, automation



SIMPLE UI

- Integrated services engineered to work together
- Automated build, migration and provisioning tools
- Inbuilt monitoring and cost management

Easy migration, path for the future



HIGHLY SECURE + COLLABORATIVE

- Commercial, Government, Sovereign, Dedicated Region and National Security Realm models
- No-trust architecture where Oracle cannot see customer data
- All data is encrypted
- Core to edge security
- Collaboration is easier

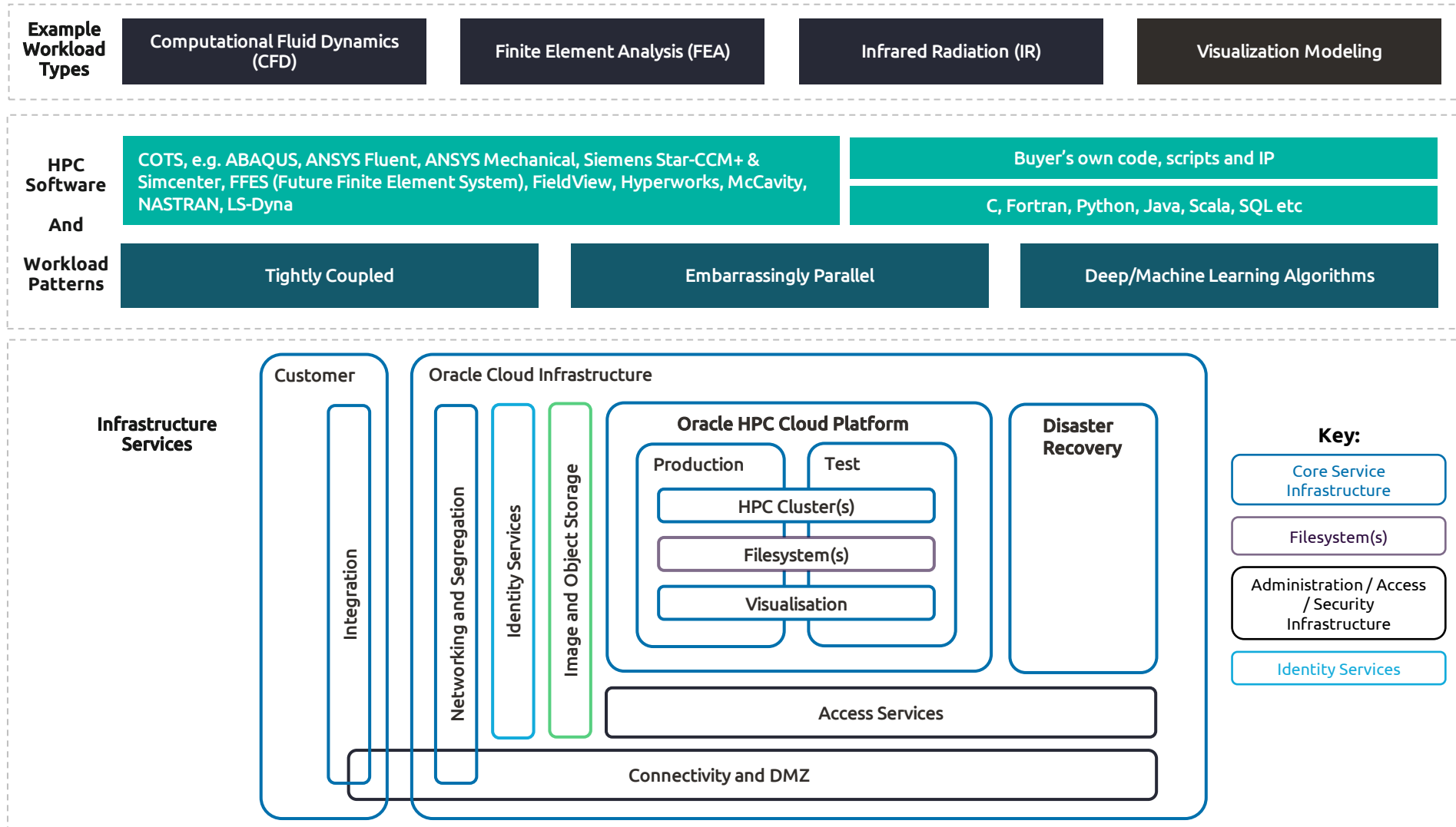
Security built-in

Run toughest workloads Performance/Management/Availability SLAs



EXAMPLE SOLUTION OVERVIEW

- Resilience and modularity of design built in
- Production scale HPC workloads proven on OCI with many commercial and custom codes
- The latest Intel CPUs for extreme performance
- OCI already used for HPC across many industries – often in a cloud first model
- Oracle provides Bare Metal and an on-prem like experience but with all the benefits of cloud
- OCI HPC offers near linear high scalability – better than any other cloud
- Future proof – new IaaS technologies will be available to customers in an evergreen model





THE SITUATION

Oracle's multimodel database still leads the industry for Enterprise capability, performance and security. With a raft of PaaS hosting models available from Public Cloud to Data Centre, the data management pillar of any digital strategy can unlock high value from Capgemini's ICON sub-offer for database modernization. Furthermore, with Autonomous Database, Oracle has the industry's only self-tuning, self-healing, self-securing database, found by IDC to offer a 417% ROI. <https://www.oracle.com/in/autonomous-database/business-value-of-autonomous-data-warehouse/>

Oracle has continued to develop the Database Server product's cloud capabilities, to the extent that Oracle scored highest in all four Use Cases in the 2021 Gartner Report "Critical Capabilities for Cloud Database Management Systems for Operational Use Cases".

The multimodel design paradigm mitigates the need to build expensive and complex data integrations between diverse single-use databases, an option unavoidable with other hyperscalers. Non-Oracle hyperscalers compound this by charging for data movement enforced by the single-use paradigm. With Oracle database on OCI, or in the data centre, customers can consume a platform which Gartner's study recognizes as head and shoulders ahead of the competition, especially for automated performance tuning/optimization, consistency, workload management and security.

ICON accelerates Oracle database transformation to cloud with blueprint architectures, a proven migration approach and operational best practices.

DATABASE MODERNIZATION

OUR OFFER

- **Requirements Analysis** to identify the right solution for your Database needs, including assessment of the security posture of the workloads to design the right hosting solution
- **Conceptual Design** of the Database platform and migration approach, which can include architectural views for Data, Security, Applications and Technology
- **High Level and Detailed Design** of the platform, including Identity Integration, Monitoring and SOC integration/provision, HA & DR
- **Analysis of source databases** to map target treatments based on characteristics including size, feature usage, criticality, availability
- **Performance testing** definition, management and execution
- Detailed implementation planning and execution
- Database upgrades to take advantage of new features, bug fixes and enhancements
- Migration to **pluggable database** architecture, which can reduce memory consumption by 30% and greatly simplify operational procedures
- Migration to **Oracle Autonomous Database** which frees DBAs from mundane and repetitive operational tasks to focus on higher value and more strategic work
- Support for the **accreditation** process in regulated environments
- Transition into support, or into a fully managed Capgemini service
- Can host workloads at OFFICIAL SENSITIVE or SECRET

VALUE PROPOSITION

- Access to the latest features of Oracle Database delivered in the most performant and cost-effective platform for your requirement
- Oracle Database Cloud Service (DBCS) can be hosted on VMs, Bare Metal, Exadata Cloud Service or Exadata Cloud@Customer depending on your requirement, and offers the most efficient database performance at the most attractive price point
- Use your existing Oracle licences or have the right to use the software included in the service
- Per second billing for database services
- Modernised Oracle Database operating model
- Oracle multi-tenant to reduce resource consumption compared to traditional database architecture
- Shift from Capex and hardware refresh to OpEx and pay for consumption
- Offset at least 25% of your OCI spend against your Support & Maintenance of Oracle Licences using Oracle Support Rewards
- Click-to-patch database upgrades
- Autonomous database frees your teams of the operational burdens of patching, scaling, upgrades, diagnosing and repairing incidents and tuning



ICON – ENTERPRISE WORKLOADS, SECURE, SERVICIZED, ANYWHERE


PUBLIC CLOUD



ORACLE
Autonomous
Database



ORACLE
Exadata Cloud
Service

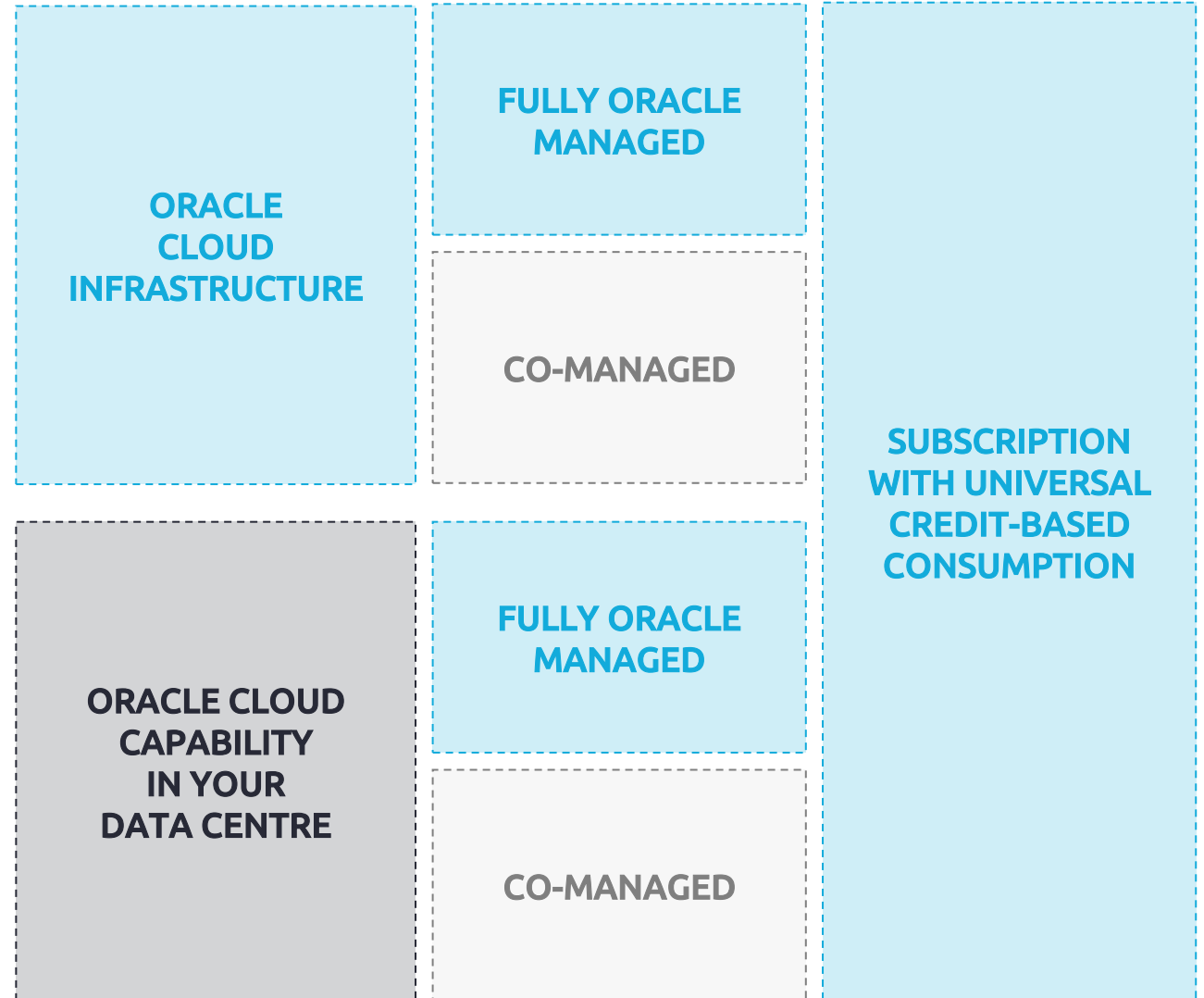


ORACLE
Autonomous
Database on Exadata
Cloud@Customer



ORACLE
Exadata
Cloud@Customer


CUSTOMER
DATA CENTRE





THE SITUATION

Modern applications are expected to be secure, performant and scalable, but traditional infrastructure hosting inevitably means overengineering platforms or accepting compromises on performance and scalability. Security patching can be onerous and perilously slow.

As well as migrating to public cloud to address some of these challenges, organizations are increasingly containerizing applications to gain lifecycle agility and workload efficiency. Adoption of Kubernetes has spawned a raft of Container Orchestration platforms, but some of these fork the Kubernetes code or provide managed services which remove degrees of control from the customer. Operating proprietary container orchestration platforms can quickly become expensive.

Capgemini 50/50 accelerates the migration of Oracle ERP to OCI, and for WebLogic and Java applications, the WLS Marketplace images plus the WLS Kubernetes Operator mean you can run WebLogic apps as VMs or Containers. With Oracle Verrazanno, Oracle offers a curated Open Source polyglot container platform which is cloud independent, allowing a consistent deployment in public or private cloud and across the hyperscalers.

Migrated applications can leverage PaaS for extensions and innovation using Capgemini's *Agile Innovation Platform*.

APPS MIGRATION

OUR OFFER

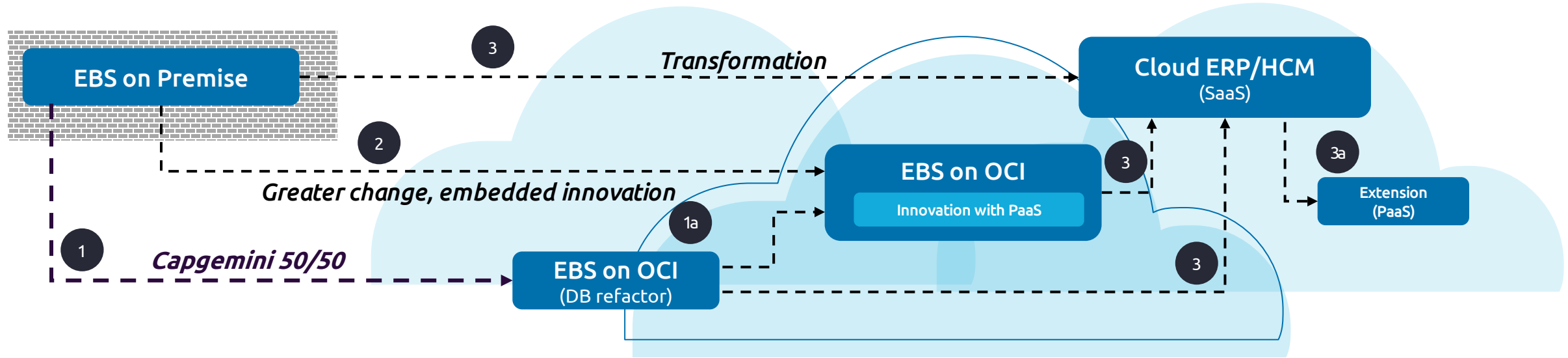
- **Requirements Analysis** to identify the right migration treatment for your applications, drawing on Capgemini's economic **Application Portfolio Management (eAPM)** solution for portfolio assessment and decision support
- **Conceptual Design** of the target platform and migration approach, which can include architectural views for Data, Security, Applications and Technology
- **High Level and Detailed Design** of the platform, including Identity Integration, Monitoring and SOC integration/provision, HA & DR
- **Performance testing** definition, management and execution
- Detailed implementation planning and execution
- Support to build a business case that demonstrates achievable TCO improvement
- Application Containerisation and deployment to **Oracle Kubernetes Engine (OKE)** in OCI
- Optional implementation of **Oracle Verrazanno** as a curated open source MultiCloud container orchestration platform
- Support for the **accreditation** process in regulated environments
- Transition into support, or into a fully managed Capgemini service
- Blueprint architectures and accelerators
- Innovation and extension using Oracle PaaS and Capgemini's *Agile Innovation Platform*

VALUE PROPOSITION

- From containers and small VMs right up to bare metal for BYOI (Bring Your Own Image) and BYOH (Bring Your Own Hypervisor), you get the right host for each service
- No more 't-shirt' sizing. Flexible compute shapes allow the workload to be matched to the exact amount of CPU and RAM required
- Run any x86 or Arm workload and reap the benefit of offsetting at least 25% of your OCI spend against your Support & Maintenance of your existing Oracle Licences using Oracle Support Rewards
- 70-80% savings on bandwidth intensive workloads compared to AWS¹
- 95% savings on I/O intensive workloads compared to AWS¹
- 40-60% saving on general purpose workloads compared to AWS¹
- Verrazanno container orchestration as a subscription or free with WLS Suite licence
- Oracle/Azure Interconnect and Oracle Multicloud
- 20-30% improved performance for OLTP apps including Oracle ERP
- 2-10X faster reporting speed for Oracle ERP
- With Capgemini 50-50, migrate Oracle ERP in as little as 50 days, and reduce operational effort by 50%



CAPGEMINI 50/50 – EBS TO OCI IN 50 DAYS



CAPGEMINI 50/50 MIGRATES EBS TO OCI RAPIDLY AND WITH ZERO ENFORCED FUNCTIONALITY CHANGES.

- Migrate in as little as 50 days
- Reduce operational effort by 50%
- Reduced Capex for your ERP solution
- Reduced Opex for your applications
- Zero mandatory business changes
- Higher availability & greater resilience
- Higher performance (typically 20-30%)
- No more hardware refreshes
- A platform for innovation
- 30%+ TCO improvement

KEY

- 1 Capgemini 50/50
- 1a Add innovation
- 2 Capgemini 50/50 + Innovation
- 3 Transform to SaaS
- 3a Extend SaaS



THE SITUATION

Enterprises have long used virtualization platforms for hardware abstraction to better utilize infrastructure and gain deployment, operation, resilience, certification and capacity advantages. With approximately 80% of the on-premise VM software market, VMware has a mature and well supported product suite with good availability of skilled resources in the market.

Enterprises are under pressure to modernize their existing workloads and extend application portfolios, but also to unlock the benefits of public cloud: elastic capacity, accelerated operational and business velocity, and infrastructure cost optimization. For many, VMware estates represent a significant part of the workload.

Cloud migration of VMware ecosystems typically demands alterations in systems and application architecture, unplanned updates to operating systems and databases, and changes to long standing operational practices, all of which adds to risk and cost. There is a paradigm shift when moving to a VMware Managed Service, with a relinquishing of control on the underlying stack and its operation, which often forces technology and software change upwards through the stack to the applications.

What customers really need is the exact same on-premise VMware experience, but in the cloud; Uniquely, that is exactly what Oracle Cloud VMware Service offers. This difference also enables hybrid VMware environments to seamlessly span datacenter and cloud.

VMWARE TO CLOUD

OUR OFFER

- **Requirements Analysis** to identify the right migration treatment for your VMware hosted applications, to identify opportunities to leverage Oracle PaaS alongside VMware where appropriate, for services such as Oracle DBaaS, Exadata Cloud Service or Autonomous Database
- **Conceptual Design** of the target platform and migration approach, incorporating consideration of hybrid deployment where applicable, and architectural views for Data, Security, Applications and Technology
- **High Level and Detailed Design** of the VMware platform and any optional OCI services, including Identity Integration, Monitoring and SOC integration/provision, HA & DR
- Configuration of FastConnect and VMware services to support vMotion of workloads to the cloud, or for expansion into a hybrid model, or for DR provision
- **Performance testing** definition, management and execution
- Detailed implementation planning and execution
- Support to build a Business Case that demonstrates achievable TCO improvement
- Support for the **accreditation** process in regulated environments
- Transition into support, or into a fully managed Capgemini service
- Blueprint architectures and accelerators
- Innovation and extension using Oracle PaaS and Capgemini's **Agile Innovation Platform**

VALUE PROPOSITION

- VMware NSX-T, vSphere, VSAN, vCenter and HCX in the public cloud
- The only public cloud to provide layer-2 networking, vastly simplifying the migration process
- Workloads run on dedicated Bare Metal Clusters
- The only hyperscaler VMware service where the customer retains full administrative control, including root access
- Full control over when, and whether, to upgrade VMware
- Simple Cloud Networking - Oracle Cloud VMware Service (OCVS) can be colocated in the same Virtual Cloud Network (VCN) as the customer's other cloud services, instead of the near-location model offered by other hyperscalers
- Continue to leverage your existing tools, skills and operational processes
- Offset at least 25% of your OCI spend against your Support & Maintenance of your existing Oracle Licences using Oracle Support Rewards
- Oracle Tier 1 and Tier 2 support for Oracle-provided versions of VMware VCF components on OCI
- Tier 3 support routed to VMware with warm handoff from Oracle





THE SITUATION

The design and manufacturing velocity benefits offered by public cloud computing are undeniable.

Organisations using PLM which grasp this cloud opportunity stand to make even deeper gains through an increase in the richness and value of the Digital Thread. Cloud and Edge computing accelerate the adoption of technologies which enable this, like IoT, Artificial Intelligence and Machine Learning.

As ERP, MRP and other XLOB functions have matured as SaaS, their ability to also feed and consume the Digital Thread further increases the richness of information to support decision making, design, planning and execution across the enterprise.

Capgemini's ICON offer delivers public & private Oracle OCI Infrastructure and Platform Solutions using modern cloud tooling and industry-leading design.

This is complemented by our Teamcenter practice which can provide people expertise across all of the Siemens PLM portfolio

Capgemini has been a Global Siemens partner since 2005 and an Oracle partner for nearly 30 years.



TEAMCENTER IN THE CLOUD

OUR OFFER

- **Requirements Analysis** to identify the right capabilities for your PLM deployment in the cloud, including High Availability and Business Continuity
- **Conceptual Design** of the OCI platform, which can include architectural views for Data, Business, Security, Applications and Technology
- **High Level and Detailed Design** of the platform, including Identity Integration, Monitoring and SOC integration & provision
- **Infrastructure Operations** lifecycle process design
- **Migration of Teamcenter** to OCI
- **Performance testing** definition, management and execution
- **Detailed implementation planning** and execution, from design to operate
- **Modern Active Workspace** interface giving Teamcenter access within a browser
- **Dedicated** Teamcenter practice within the UK
- **DRIVE methodology** in place to ensure **robust** implementation
- Support for the **accreditation** process in regulated environments
- Transition into support, or into a **fully managed** Capgemini service
- Can host workloads at **OFFICIAL SENSITIVE** or **SECRET**

VALUE PROPOSITION

- On-demand access to hyperscale public cloud infrastructure for workloads below SECRET, with per second billing
- The only public cloud offering Oracle Autonomous Database, Oracle Database Cloud Service and Exadata Cloud Service
- Access to industry leading IaaS, from small VMs to Bare Metal Clusters with Bring your own Image or Hypervisor options
- The latest CPUs, GPUs and RoCEv2 networking for the most demanding HPC workloads
- Oracle Database as a cloud platform service, embedding the industry's leading multimodel database supporting Relational, Graph, Spatial, Key-Value, Document and NoSQL in one engine
- Fast, flexible global deployments of Teamcenter instances
- Lower costs than traditional on premise solutions
- Public cloud availability and resilience
- Purpose built custom accelerators for the automated deployment and testing of Teamcenter
- Access to internal MBSE/Engineering capability to augment engineering resource
- Framework to assess PLM/CAD maturity



THE SITUATION



Many organisations have invested heavily in systems that provide core functionality in a stable and well-understood manner, but which lack the flexibility afforded by modern applications. The architecture of such systems can make migration from data centres expensive, especially if proprietary technologies are in use. These applications frequently lack mobile channels, have aging UIs and a provide a poor user experience compared to modern, intuitive, responsive applications.

Whether your applications have moved to Cloud using ICON, or remain on premise, our sister offer of *Agile Innovation Platform* unlocks a pathway to application modernisation through intelligent architecture, cloud services and agile development.

Cappgemini can deliver application extensions based on modern UIs and integration with legacy or SaaS, allowing you to benefit from cloud whilst reducing development and operational costs.

Agile Innovation Platform includes an approach for strangulation patterns to modernise legacy monolithic applications and move to discrete sets of autonomous microservices. Application modernisation can be used to move customisations out of ERP systems and simplify the core in readiness for SaaS migration, or to build multichannel UI extensions to expose key business functions embedded in legacy applications, creating value and enhancing supply chains.

APPLICATION MODERNIZATION

OUR OFFER

- **Requirements analysis and strategy definition** for your application modernization challenge
- **Development of new, customer focused UIs and services** using Oracle PaaS and Open Source
- **Microservices development** to augment existing systems or decompose functionality to improve the velocity of change
- **Creation of new mobile or web channels**
- **Improved value and supply chains** by integrating legacy apps with new SaaS products
- **A rapidly deployable, open-standards based innovation platform** with integrated tooling
- For existing WebLogic estates, **Oracle Verrazzano** can be used to rapidly containerise applications and deploy to Kubernetes, thus modernising the underlying infrastructure and moving workloads to any cloud
- **Replace/extend Oracle Forms & Reports** with modern web apps
- **API enablement** for existing applications to expose functionality and data to trusted third parties thus improving supply chains.
- **Automation of DevOps** processes to improve organisational efficiencies, reduce lead time and departmental hand-offs
- **Digital Assistant** enablement.
- Project Governance
- Test Management, Execution & Automation
- Early Life Support
- Go-live and transition into managed service

VALUE PROPOSITION

- A fully managed platform allowing you to concentrate on maximising the value chain and delivering new and improved customer experiences
- Cost effective virtual teaming using Cappgemini's Rightshore® delivery model
- Reduced capital expenditure and operational costs from the use of public cloud and per second billing.
- Increased velocity of change for existing applications by modernizing the development environment and introducing DevOps capabilities.
- Transition to a Product Centric operating model with high-frequency, low touch releases
- Improved UI experience focusing on the customer and employee.
- Creation of systems of differentiation and innovation, fully integrated with legacy applications
- Leverage intelligent PaaS services to reduce operational burden and allow technicians to focus on more strategic work
- Offset at least 25% of your OCI spend against your Support & Maintenance of your existing Oracle Licences using Oracle Support Rewards



THE SITUATION

In today's business environment, enterprises must rapidly respond to market needs and changing conditions. The High Frequency organisation releases small changes in short cycles to deliver ever evolving customer and employee experience across the value chain.

This capability is underpinned by loosely coupling services, or decomposing monolithic architectures. The resulting independently deployable microservices allow changes to be applied much more quickly, promoting innovation and reducing costs.

Agile Innovation Platform provides approaches and technology to rapidly enable modern software delivery, as well as a fully managed API platform to support the full lifecycle of API development.

APIs enable organisations to offer data, products and services seamlessly through multiple channels. *Agile Innovation Platform* provides full lifecycle support for API management, from API design and development, continuous integration testing, and promotion to different environments through to operational support and retirement.

AIP also delivers Oracle Functions, a fully managed, multi-tenant, highly scalable, on-demand, Functions-as-a-Service platform. It is built on enterprise-grade Oracle Cloud Infrastructure and powered by the Fn Project open source engine.

CLOUD NATIVE DEVELOPMENT

OUR OFFER

- **Requirements analysis and strategy definition** for microservice development to support the adoption of microservices architecture and cloud native technology
- **Design and implementation** of microservices using industry best practises that can be managed and scaled independently
- **Fully managed Kubernetes** environment based on either OKE or vanilla Kubernetes, depending on your requirement
- Full support for **event style architectures** for inter service communication using Oracle Streams
- **Oracle Functions** for lightweight serverless functionality
- **Fully integrated observability** solution
- **Full lifecycle API Management**
- **API security, governance and reporting** and operational controls
- **Web based portal** for developers to subscribe to APIs
- **API design using Apiary**, support for API stubs for rapid development
- **Development and deployment** of API implementations using **CI/CD pipelines**
- **Project Governance.**
- **Test Management, Execution & Automation.**
- **Early Life Support**
- **Go-live and transition** into managed service

VALUE PROPOSITION

- Respond quickly to market trends, improve quality and reduce implementation costs by breaking down large, monolithic, expensive, brittle, and inflexible applications.
- Adopt modern DevOps and Product based development models.
- Develop and test new business models in response to emerging consumer demands using a rapidly deployable and open-source integration platform.
- Decreased time to market
- Expose and leverage hard to reach Enterprise data across the value chain
- Deliver public facing APIs for the monetization of data and services
- Enable new product offerings, innovation and engagement channels
- Improved Operational efficiency
- Exposure of key business functions and data to trusted third parties to enhance supply chains
- Reduce operational burden through self-service capabilities exposed by APIs
- Drive customer value using innovative webapps for your products and services that employ public facing APIs
- Offset at least 25% of your OCI spend against your Support & Maintenance of your existing Oracle Licences using Oracle Support Rewards



THE SITUATION

Enterprise integration solutions have had to evolve with the rise of cloud, SaaS and increased digitalisation. The additional complexity of hybrid cloud architectures has demanded even more from integration solutions, whilst the explosion of interconnectedness driven by IoT & 5G demands extreme performance and scalability of integration.

Delivering integration at speed in such a context demands a robust integration strategy and a well designed, scalable architecture. ICON's sister offer, *Agile Innovation Platform* provides a fully managed set of cloud capabilities to rapidly implement integration solutions. With iPaaS provided by Oracle Integration Cloud, AIP supports low code SaaS to SaaS and SaaS to on-premise integrations.

API-based access to data that resides in one or more systems of records can also drive complex integration requirements, and without a well designed architecture, performance and manageability can become extremely challenging. AIP enables the delivery of Digital Integration Hubs that provide fast access to copies of legacy data that can be independently scaled, enabling API access for existing systems of record that can't expose modern APIs or do not support access at scale.

AIP supports data, process and application integration patterns as well as event streaming, with full observability and reporting based on open standards, ensuring that any issues are rapidly surfaced and handled before impacting service.

INTEGRATION REVOLUTION

OUR OFFER

- Highly automated and zero touch **fully managed** Enterprise Integration platform
- **Requirements Analysis** to identify your integration needs
- Design and implementation of integrations leveraging the Capgemini RightShore® model to minimise development costs
- **Accelerators** for SaaS integration
- **Cloud and Hybrid** integrations
- Support for open standards and multiple programming languages
- **Low code/no code** integrations
- Pre-packaged adapters allowing rapid connectivity to a host of applications and social platforms
- Development and lifecycle management of integrations including support for DevOps
- Support for **Event Driven Architecture** patterns of integration
- Integrated monitoring solution for observability of integration flows
- **API Management Platform**
- **Data integration hub** design and build leveraging Oracle autonomous database, replication, caching and Oracle streaming to ensure rapid access to a synchronised data cache
- Project Governance
- Test Management, Execution & Automation
- Early Life Support
- Go-live and transition into managed service

VALUE PROPOSITION

- Support for Application, Data, B2B and Process Integration as well as API Management
- AIP allows developers to concentrate on adding value rather than maintaining and provisioning environments, significantly reducing the cost and complexity of integration
- Rapidly integrate new SaaS products with existing on-premise applications to create innovation in value chains
- Reduce development times dramatically using low code integration and accelerators
- Benefit from pre-built adapters allowing backend systems to integrate with social channels
- Fully managed platform allowing teams to focus on value not operations
- Provide fast access to data and information held in systems of records
- Independently scale access to data and prevent backend systems from being swamped
- Increase quality, consistency and velocity of deployments using pre-built DevOps pipelines
- Offset at least 25% of your OCI spend against your Support & Maintenance of your existing Oracle Licences using Oracle

Consider OCI for Critical Oracle Business Applications and Potential Use for Non-Oracle Workloads your evaluation, especially ones with high performance and availability requirements

- Include OCI in your evaluation and selection process for core Oracle business applications and potential use for non-Oracle workloads.
- Evaluate OCI as an alternative cloud service provider (CSP) where mission-critical workloads demand high performance and availability requirements in your MultiCloud strategy.
- Ensure a fully optimized and effective technical strategy by sourcing Oracle-accredited expertise to provide architectural, migration and management support as part of any OCI or Oracle workload implementation

[Is Oracle Cloud Infrastructure Ready for Use in Your Multicloud Strategy? – Feb '22](#)



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About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of over 360,000 team members in more than 50 countries. With its strong 55-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2022 global revenues of €22 billion.

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