

Oracle Autonomous Database Panel



Oracle Autonomous Database Customer Panel

ORACLE
Oracle Global Leaders Program

MESTEC
MANUFACTURING PERFORMANCE. REDEFINED.



Vertice
CLOUD



Mark Carleton
Chief Executive Officer
MESTEC



Anthony Shallow
S01 Cadet Information
Systems
HQ Army Cadets



Simon Hunt
Independent Contractor
Army Cadets



Dr. Abigail Giles-Haigh
Chief Data Science Officer
Vertice Cloud





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Digitalise • Optimise • Simplify

MESTEC Solution

The world's first Software-as-a-Service Manufacturing Operations Management solutions.

Digitise the whole of the manufacturing life-cycle:



Give manufacturers the actionable insights they need to drive tangible improvements in all aspects of manufacturing performance:



> 50% Labour Productivity



20% Lower Inventory



>50% Reduction in Complaints

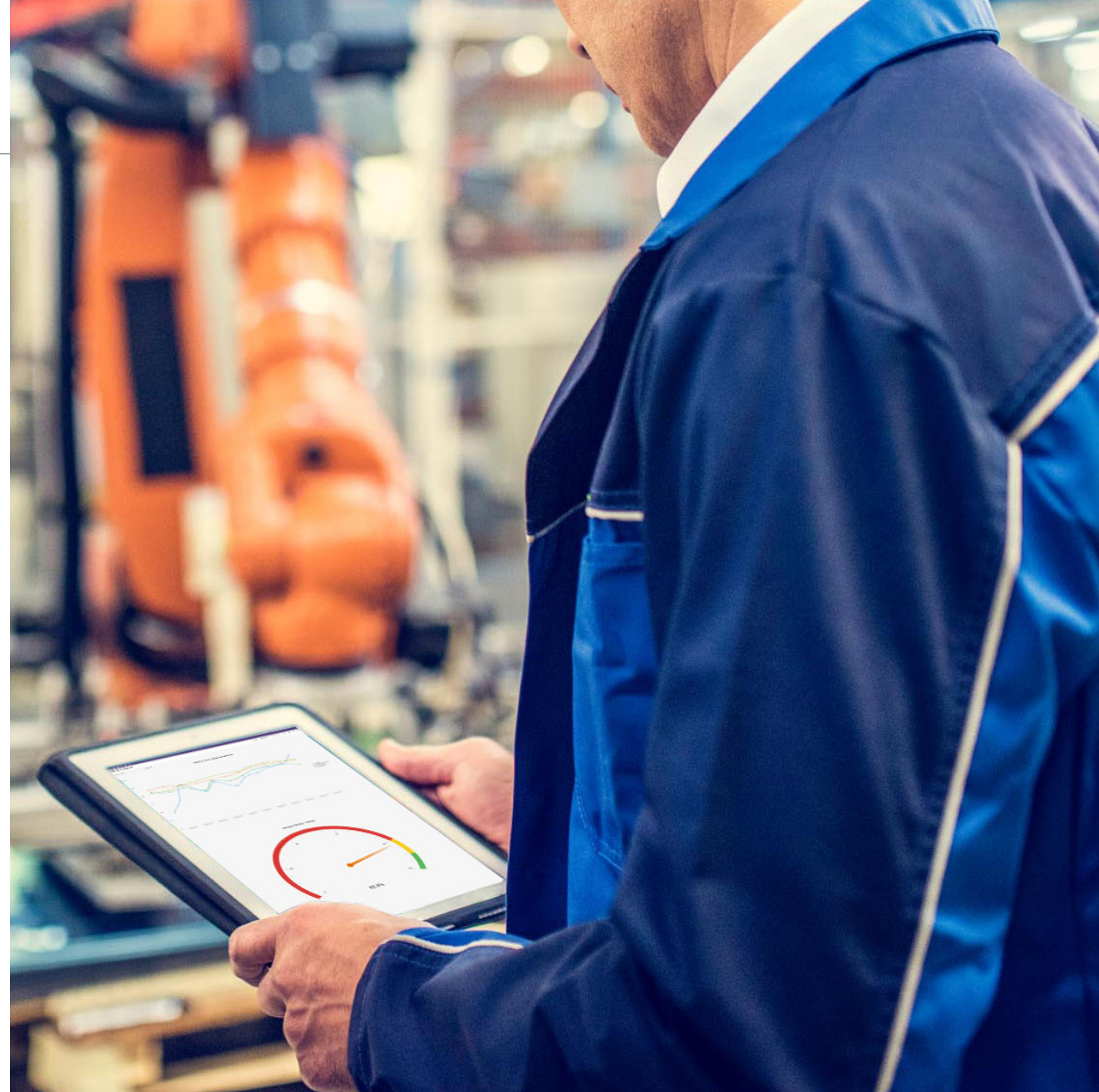


Improved On Time Delivery

Most competition: a) huge up-front costs and b) focussed on automation.

Lower barriers to adoption / implementation:

- Cloud-based
- Simple subscription with **No Up-Front Costs**



Journey to the Cloud: Chapter 1 - IaaS



24x7



Mission Critical



Performance sensitive

First iteration:

- Deployed on Infrastructure-as-a-Service (IaaS)
- Hosted with another provider who provided database as a managed service. (Even then we were looking for PaaS, but didn't know it by that name!)
- Removed many of the barriers to adopting our solutions, BUT...
- Shifted all the responsibility for providing and maintaining a highly available, performant and secure infrastructure onto us!

Journey to the Cloud: Chapter 2 - PaaS



- ATP, Oracle Autonomous Transaction Processing Database
 - MESTEC first production instance of ATP in UK?



- Azure WebApps
 - Huge breadth of services to support scalable web app on Azure stack

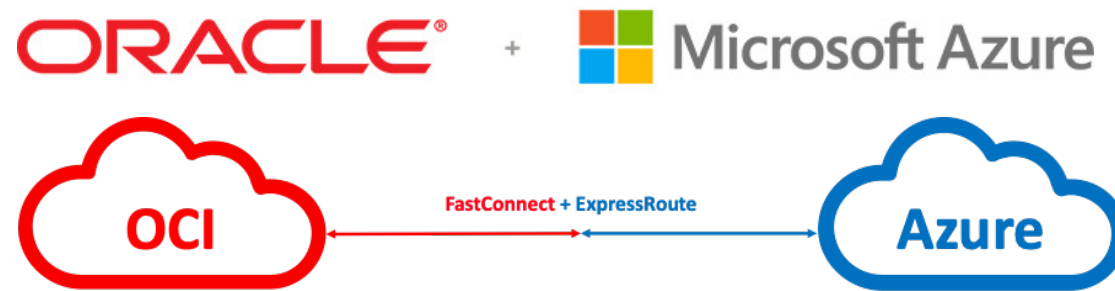


Multi-Cloud: Azure-Oracle Interconnect

- Best-in-class PaaS database in different cloud to best-in-class webservice.

Speed? / Security? / Support?

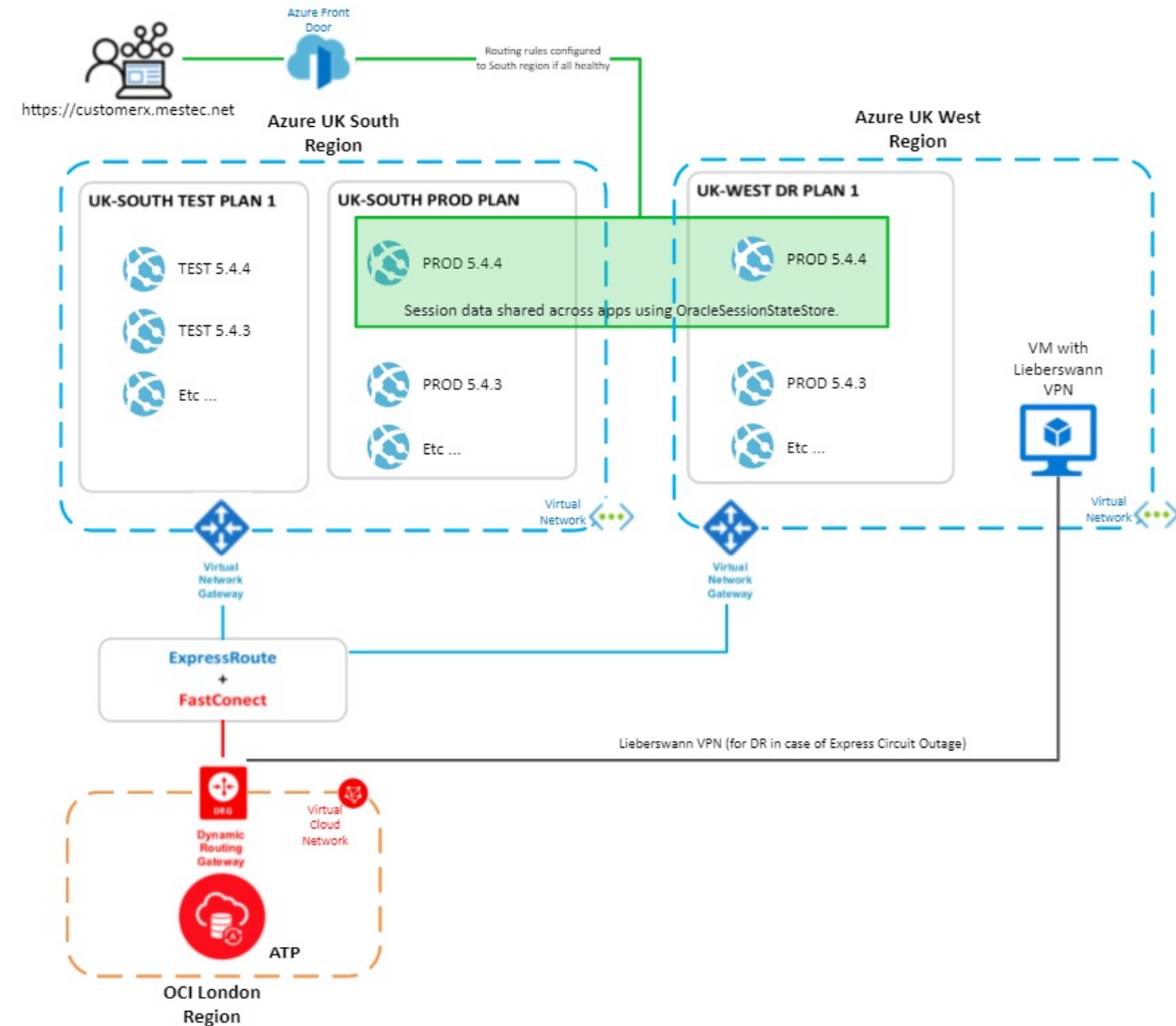
- Reassured (and slightly surprised!) when proof-of-concept showed that ATP and Azure over public internet actually faster than legacy data centre!
- Oracle-Microsoft Partnership showed we weren't crazy!



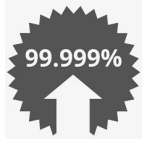
- MESTEC first to implement interconnect in UK.
- Now we have deployed the interconnect (first in UK?) we have seen ~10% performance improvement, but more importantly a more consistent speed.

Multi-Cloud and High Availability

- Architecting a robust solution across Azure and Oracle with regional failover was a complex task.
- Some Azure region dependency in Express Route circuits
- No region resilience available through Autonomous DataGuard



ATP – What made us go for ATP?



High Availability

- Primary reason for the move
- HA “out-of-the-box”



Security

- Always patched



Performance

- A slice of Exadata infrastructure
 - 5x faster, fewer CPUs
- Auto-scaling



Ease of Deployment

- Familiar with std Oracle
- Easy (commercially) to trial
- Almost instant instantiation with immediate access from anywhere
- Reduced need for in-house expertise



Cost

- Roughly half the cost of an equivalent environment hosted on IaaS
- Pay-as-you-go
- Auto-scaling

Where Next?

- Make integration easier – Oracle Integration Cloud POC in progress
- Get more out of the data
 - Oracle Analytics Cloud
 - Machine Learning
- New Regions?



Contact us



www.mestec.net

Contact me

mark.carleton@mestec.net

www.linkedin.com/in/mcarleton

01344 535 125



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OCI MIGRATION JOURNEY

Benefits of an Autonomous Database

Cadet Information Systems

Presenters

Simon Hunt – Cadet IS Solution Architect

Anthony Shallow – SO1 Cadet IS

Use Case

- UK Cadet Forces
- ACF, VCC, CCF, SCC, GCF
- 150,000 Personnel
- Backoffice MIS
- New - Cadet Portal



Rank Progress



Cadet

Next: Cadet Lance Corporal



Time On Strength: 2 Years 10 Months



Army Proficiency Certificate



APC 1 Star

Next: APC 2 Star



7 Modules out of 10



Duke of Edinburgh's Award

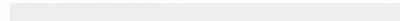


Get Started

First: DofE Leader



0 Modules out of 4



Shooting

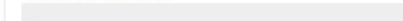


APC Shooting

Next: Competition Shooting



0 Modules out of 1



First Aid

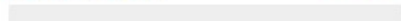


Youth First Aid

Next: Activity First Aid



0 Modules out of 1



Vocational Qualifications

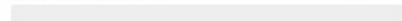


Get Started

First: BTEC Level 1



0 Modules out of 1



Adventurous Training

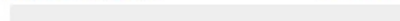


Get Started

First: Multi Activity Package



0 Modules out of 1



Signals

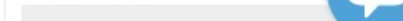


Get Started







First: CyberFirst Adventurers



0 Modules out of 1



Proficiency
Army Proficiency Certificate ▾

	Level Module Description	Progress		Last Updated	
	APC Basic	<div style="width: 87.5%;"><div style="width: 87.5%;"></div></div>	7/8	13 Mar 18	View Details
	APC 1 Star	<div style="width: 100%;"><div style="width: 100%;"></div></div>	10/10	15 Aug 19	View Details
	APC 2 Star	<div style="width: 70%;"><div style="width: 70%;"></div></div>	7/10	08 Mar 20	View Details
	APC 3 Star	<div style="width: 0%;"><div style="width: 0%;"></div></div>	0/10		View Details
	APC 4 Star	<div style="width: 0%;"><div style="width: 0%;"></div></div>	0/2		View Details
	APC Master Cadet	<div style="width: 0%;"><div style="width: 0%;"></div></div>	0/2		View Details

During your time in the Army Cadet Force (ACF) you follow a syllabus called the Army Proficiency Certificate (APC) which gets more challenging each year. As you learn more about each topic and get better at it, you go up through the star levels until you reach four star or even Master Cadet.

Filters

Sort By
Relevance ▾

Qualification ☰
[Clear](#)

Category

- Conference (4)
- Adult Training (3)
- Competition (1)
- Course (1)
- Training (CCF Only) (1)

Owner

Country

Dates

Activity Type

Attendance Status

Booking Status

Instructor Training - Adults



CFCB Board 199

Nationally Appointed List
09 Oct 20 - 11 Oct 20(2.1 Days)
Westbury

CFCB/C199/20/715515

Competition



National First Aid Competition 2020

Regional Command HQ
09 Oct 20 - 11 Oct 20(1.9 Days)
Duke of Gloucester Barracks,
Cirencester, Gloucestershire,

20/727795

Specialisation Training - Cadets



Ex STEM CHALLENGE

Regional Command HQ
26 Oct 20 - 29 Oct 20(3.3 Days)

EXSTEMCHALLENGE/20/746046



Conf/Mtg



CFATO Conference

Regional Command HQ
30 Oct 20 - 01 Nov 20(2 Days)
Bury

CFATO/20/701336

Conf/Mtg



Meeting/Conference



Instructor Training - Adults

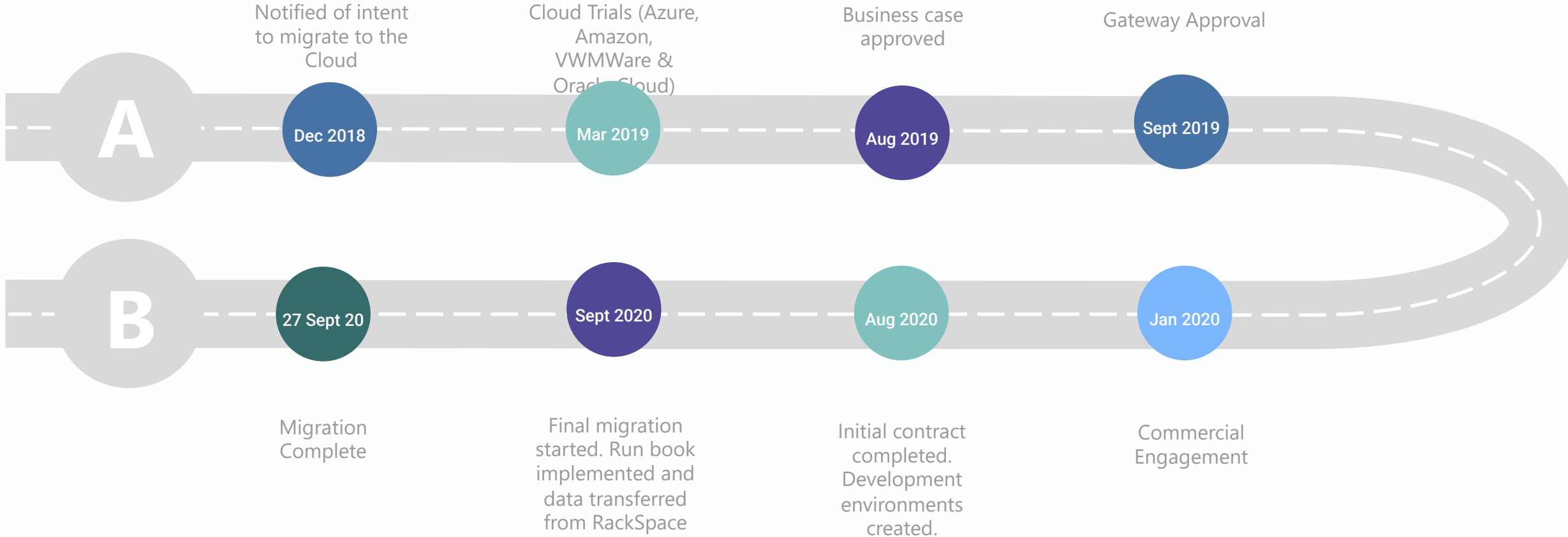


Instructor Training - Adults

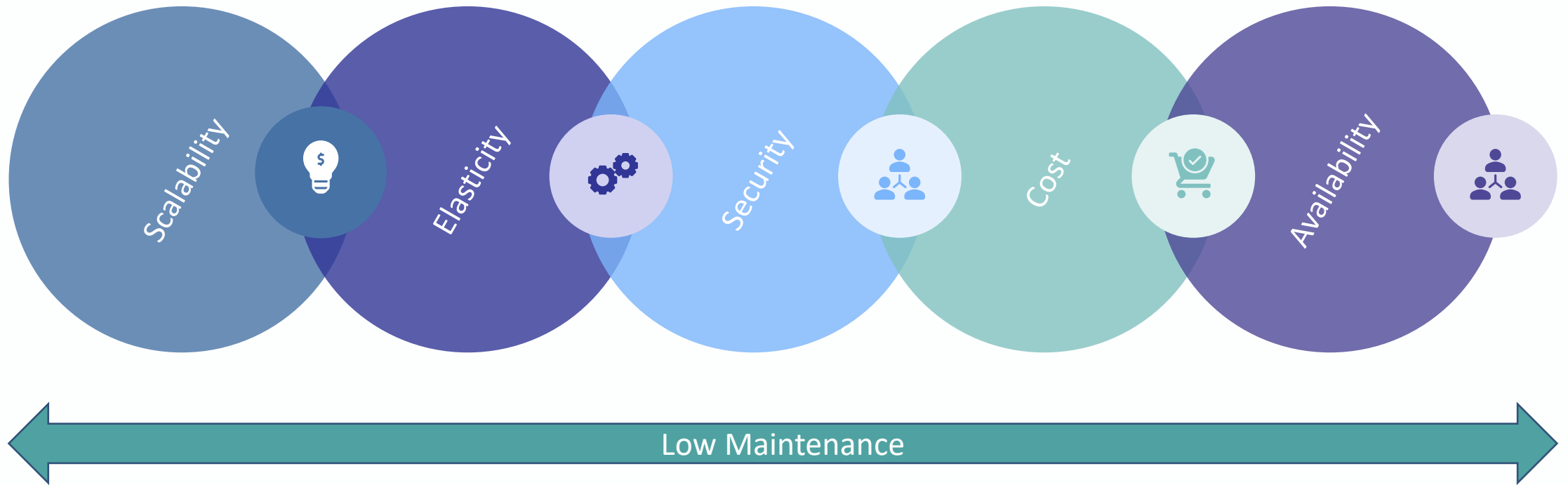


Timeline

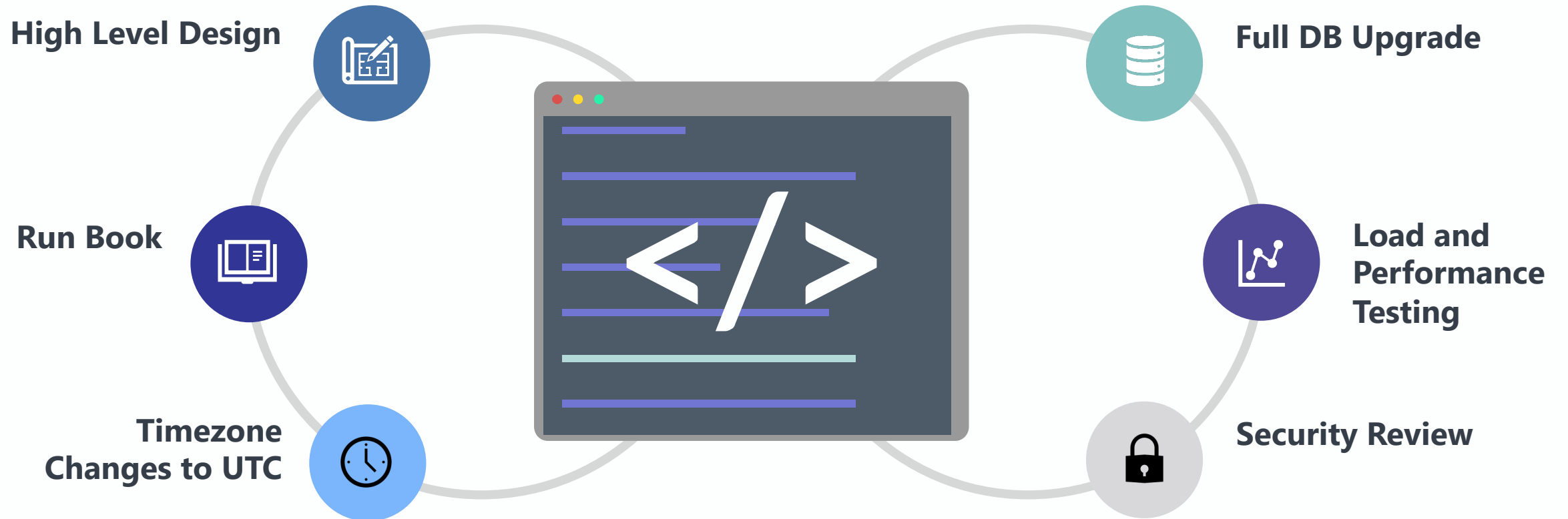
The road to migration










Cloud Migration – Why?



Getting Cloud Ready



Bill of Materials

-  Web Application Firewall
-  Web Servers
-  Media/Print Services
-  Object Storage
-  Database
-  Analytics
-  Enterprise Identity and Access Management

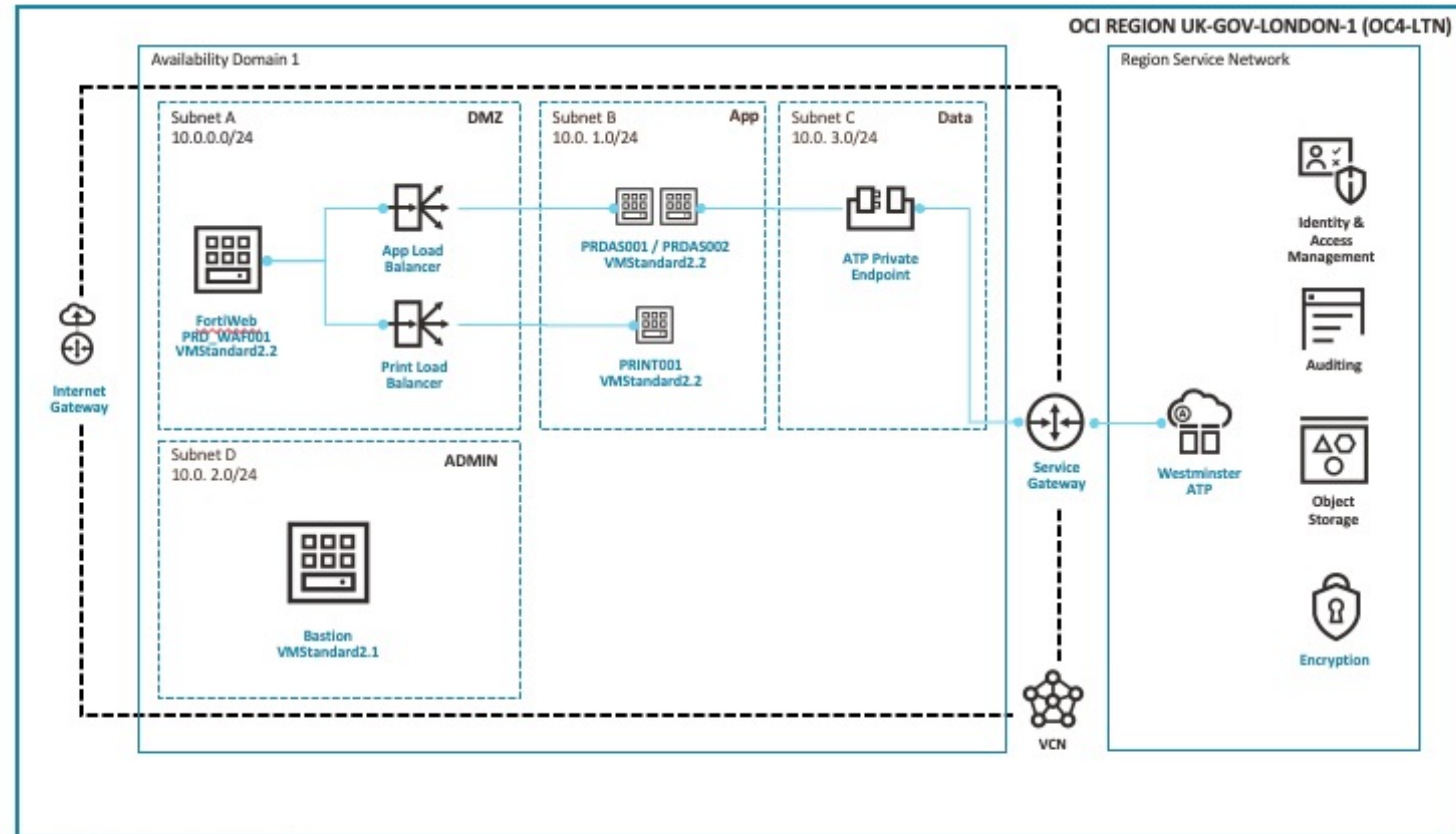
Costs



“Approx 1/3 Costs”

- BYOL
- 2 for 1 (oCPU to vCPU) Licences
- Elasticity
- PaaS vs IaaS

OCE Architecture



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Oracle Autonomous Database

- Oracle APEX
- High Availability
- Fast Provisioning
- Automated Backups
- Automatic Upgrades
- Self Tuning
- Elasticity
- Reduced Costs
- BYOL
- High Security

Summary & Key Points

- Accredited
- OCI - Not Just for Oracle Workload
- Competitively Priced
- GEN2 UK Gov Region (2 Regions)
- OCI Migration Support Team
- CPU Based Licenses
- BYOL
- PaaS (IDCS, Digital Assistant, Analytics, ML etc)

Future Scope

- 99.995% Availability
- Chatbot
- Blockchain
- Analytics / Machine Learning
- Citizen Development
- Oracle Kubernetes Engine
- Elastic Search
- New User Communities
 - Joiners
 - Parents

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Chief Data Science Officer
Vertice Cloud



Global Leaders – Oracle Autonomous Database Use Case: An Post

Customer Success – Verticals

Retail	Technology	Utilities	Financial Services	Pharmaceuticals	Public Sector	Education

Who We Are

Go-To Partner
in Cloud Market Place

Founded in 2010

9 Specialisations

Accomplished

Successive, Multiple Oracle
Global Excellence Awards

European Presence

25 Oracle
Certified Experts

Successive, Multiple Oracle
Ireland Partner of the Year
Awards

Oracle UK & Ireland
Autonomous Database
Partner of the Year 2020

Proud of our strong Oracle
Partnership

42 Employees
across 4 countries



Oracle University Partner

Oracle Platinum Partner



Respected

An Post

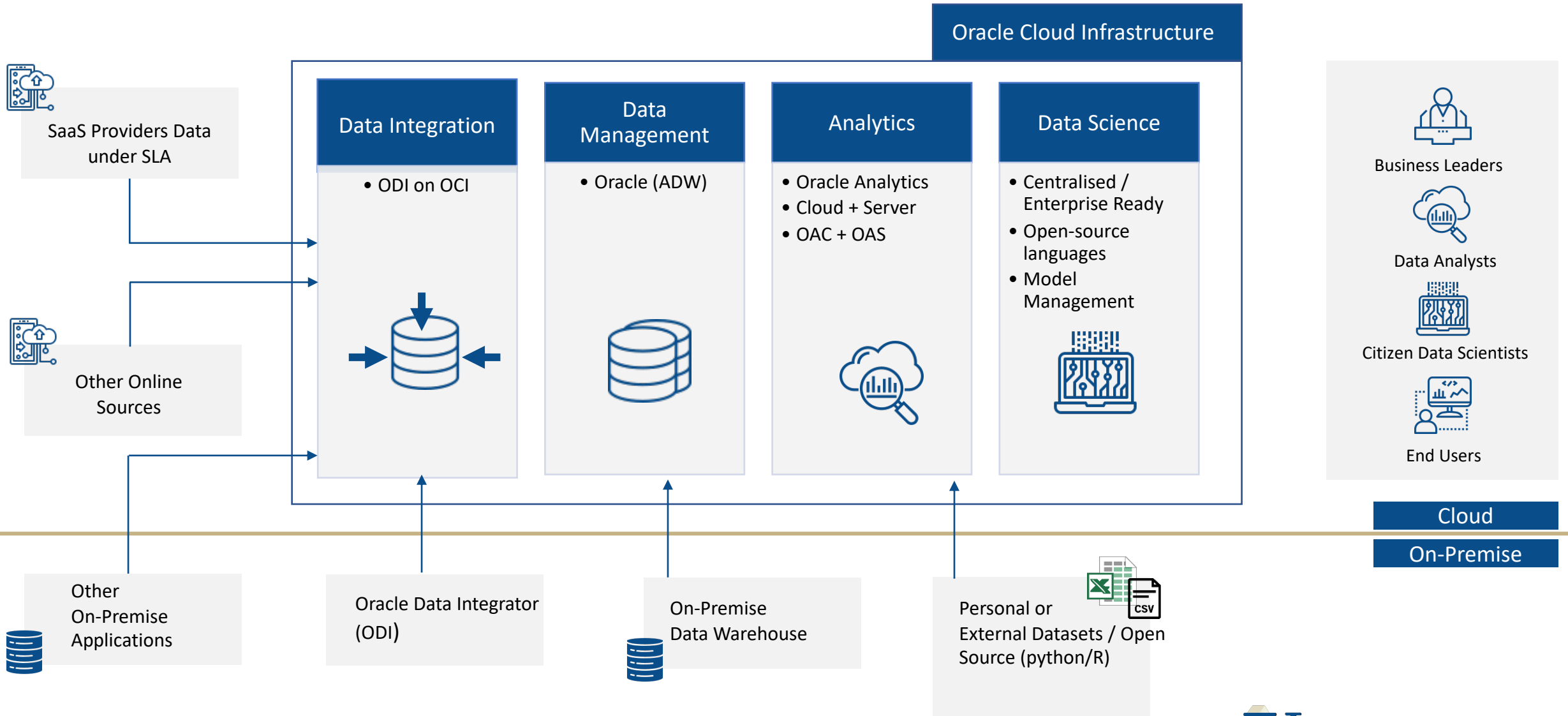
- State owned provider of postal services in Republic of Ireland
- Located on O'Connell Street, Dublin, Ireland
- Existing Oracle Customer
 - Hybrid Big Data Analytics Platform:
 - OBIEE, Exadata, ODI, Goldengate, Essbase, OML, OAC, OAS, ADW
- **Moved to Cloud for Augmented Analytics and Data Management**
 - OAS, OAC, ADW and ODI
 - Step 1: Customer Analytics – Live on ADW and OAC
 - Step 2: Single Customer View – In Progress on ADW & OAC
- **Drivers:** Organisational Structure Change / Digital Transformation



Business Challenge

- Mails Business in Decline / Common to all Postal Groups
 - Increasingly Competitive Market
- An Post key business focus on parcels for new revenue
- Offering new Service and related technology Innovations
 - Business Innovations: “Worldwide Open” Marketing campaign on Parcels business
 - Technological Innovation: “Customer Experience Management (CXM)” Dashboard
- As ADW is proven with OAC – extend to more business areas
 - Part of gradual migration strategy from OBIEE to OAC
 - Finance KPIs for CFO
- Currently rolling 3-4 months Track & Trace data in DBCS for CXM
 - Pertinent volumes of data for ADW

Architecture Overview



Why ADW?

- Pertinent volumes of data for ADW
 - Security by design aligning to GDPR
 - Security of the data enables only required data
- Performance for customers
 - Customer experience is critical
 - Near real time – on demand when they want it
- Offering new Service and related technology Innovations
 - Augmented analytics provides new innovative insights to customers
- As ADW is proven with OAC – extend to more business areas

Customer Delivery

Standard reports are supplied:

- Daily Summary
- Non Delivery Summary
- Pre Advised Summary
- Attempted Delivery Summary

The screenshot displays the Amazon Customer Experience Management Dashboard. At the top, it shows the Amazon logo and navigation options like Home, Catalog, Favorites, and Dashboards. Below this, there's a section for 'Not Delivered Detail' with a table listing various delivery attempts. The table includes columns for First Scan Date, Product, Barcode, Track Item, Acceptance Date, Actual Acceptance Date, Acceptance Scan Description, Accepted Days Ago, Out for Delivery Scan Site, Out for Delivery Scan Timestamp, Latest Scan Date, Latest Scan Office, Label Scan, Label Scan Days Ago, Delivery Address 1, Delivery Address 2, Delivery Address 3, Delivery Address 4, and Delivery Address 5.

Below the table, there are filters for Customer ID and Customer Name, and a 'Date Group' section with radio buttons for 'Last 2 Days', 'Last 7 Days', 'Last 14 Days', 'Last 21 Days', and 'Last 28 Days'. A 'Last Data Refresh Date' is also shown as 06/12/2018 11:02 PM.

The main dashboard area features four large circular icons representing key metrics:

- Total Items:** 53,459
- Successfully Delivered:** 20,099
- Not Delivered:** 32,276

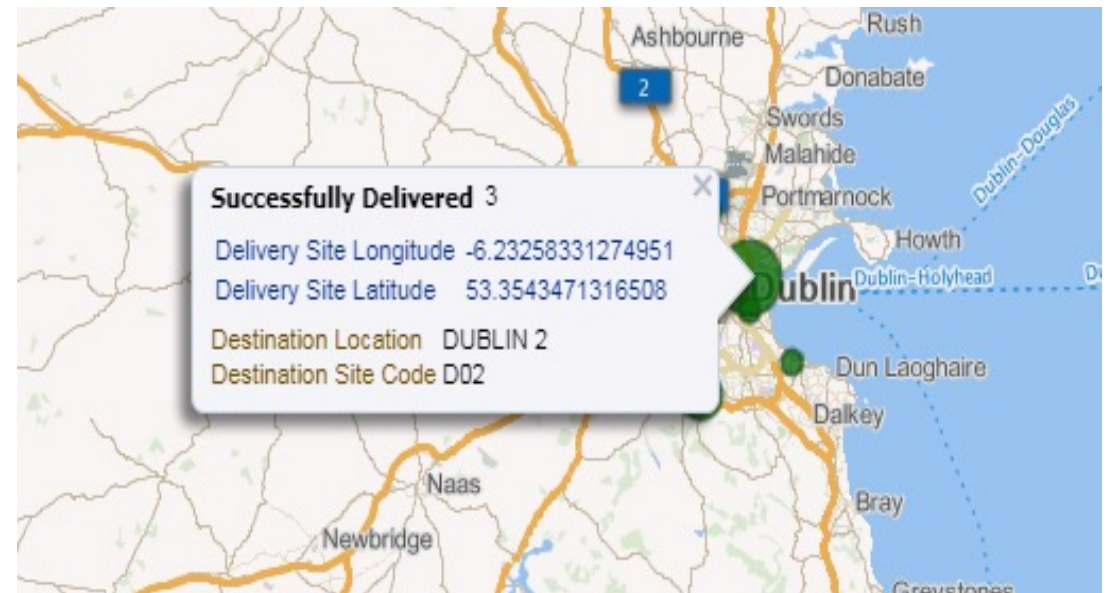
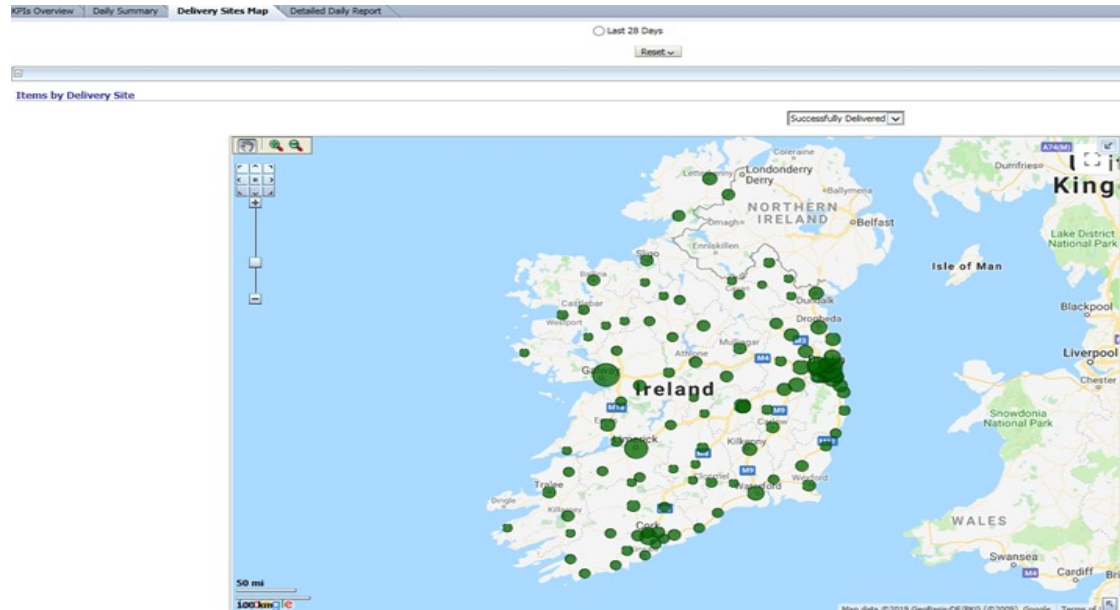
At the bottom, there are two bar charts:

- Daily Summary:** A bar chart showing 'Daily Summary Graph by Date' with categories like Total Items, Total Pre-Advised, Successfully Delivered, Attempted Delivery (Carried), Attempted Delivery (Not Carried), Out for Delivery, and Not Delivered.
- Non Delivery Summary:** A bar chart showing 'Non Delivery Summary Graph by Date' with categories like Total, Not Delivered, and Accepted (No Further Scan).

The screenshot shows the DOST parcels website's 'Track your item' page. It features a green header with the DOST logo and navigation links like Home, About An Post, Business Customers, Personal Customers, Customer Service, and All Your Local Post Offices. The main content area includes a 'Track your item' section with a barcode and a 'Track & Trace' section with a barcode. Below this, there's a 'Track & Trace' section with a barcode and a 'Track & Trace' section with a barcode. The page also includes a 'Track & Trace' section with a barcode and a 'Track & Trace' section with a barcode.

Customer Delivery

- The Map view provides detailed information on:
 - Successfully Delivered items
 - Out for Delivery items
 - Not Delivered items



Business Results

- Optimised process efficiency
 - An Post and all customers equally
- Reduced costs
 - Net effect in An Post reduction of 2-3 days of manual effort per month
- Business Retention
 - Existing customer retention much enhanced
 - E.g. Amazon, Sky TV and the Inditex Group
 - An Post Group CIO Global Excellence Award for Analytics
- New business
 - Customer Analytics seen as a strong USP which has attained new customers
 - E.g. Arvato



Amazon and DHL preferred deliver Partner in Ireland

CXM realised within business as a contributing factor



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Award



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Next Steps

- Analytics:
 - OBIEE Migration -> OAS/OAC
 - Most of the migration completed final deployment to OAS
 - Development and role out of Single Customer View (SCV)
 - Developed using Oracle Data Science and OML within the ADW
 - Enabling An Post to enhance customer experience
 - Providing new insight and market opportunities
- Cloud Infrastructure:
 - Further usage of OCI for Augmented Analytics
 - Moving to Cloud at Customer Exadata

Get in Touch



- Multiple Oracle Global Excellence Awards
- Multiple Oracle User Community Awards
- Multiple Oracle Partner Awards



Tel: +353 (01) 565 4038

Web: www.verticecloud.com

Address: 50 Northwood Court, Northwood Business Campus, D09 TR68, Santry, Ireland.



Thank YOU

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