Safe harbor statement
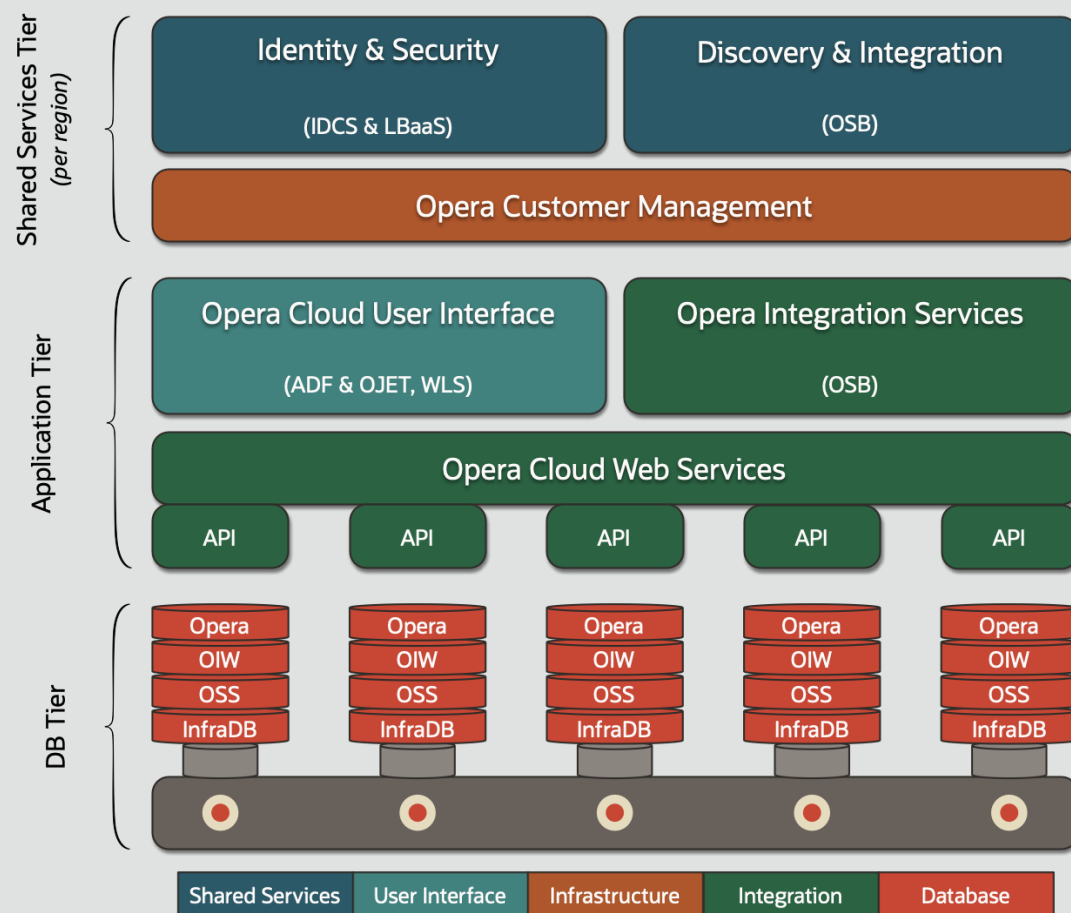
The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

OPERA Cloud

Cloud Migration

OPERA V5

OPERA
ECOSYSTEM

Interfaces

Security & Compliance

Property Interfaces

Reporting & Analytics

Evolving Opera Cloud Architecture

Shared Services Tier *(per region)*

Identity & Security	Discovery & Integration
(IDCS & LBaaS)	(OSB)

Opera Customer Management

Application Tier

Opera Cloud User Interface	Opera Integration Services
(ADF & OJET, WLS)	(OSB)

Opera Cloud Web Services

API	API	API	API	API

DB Tier

Opera / OIW / OSS / InfraDB (×5)

Shared Services	User Interface	Infrastructure	Integration	Database

Cloud-Native Infrastructure

New builds in modern cloud data centers

Migration of existing customers beginning

Significantly higher throughput, capacity and deep automation

Application Architecture Leap

Stateless no-touch container model for all mid and web-tier components

Pluggable database provides tenant isolation, independent maintenance management and frictionless migrations

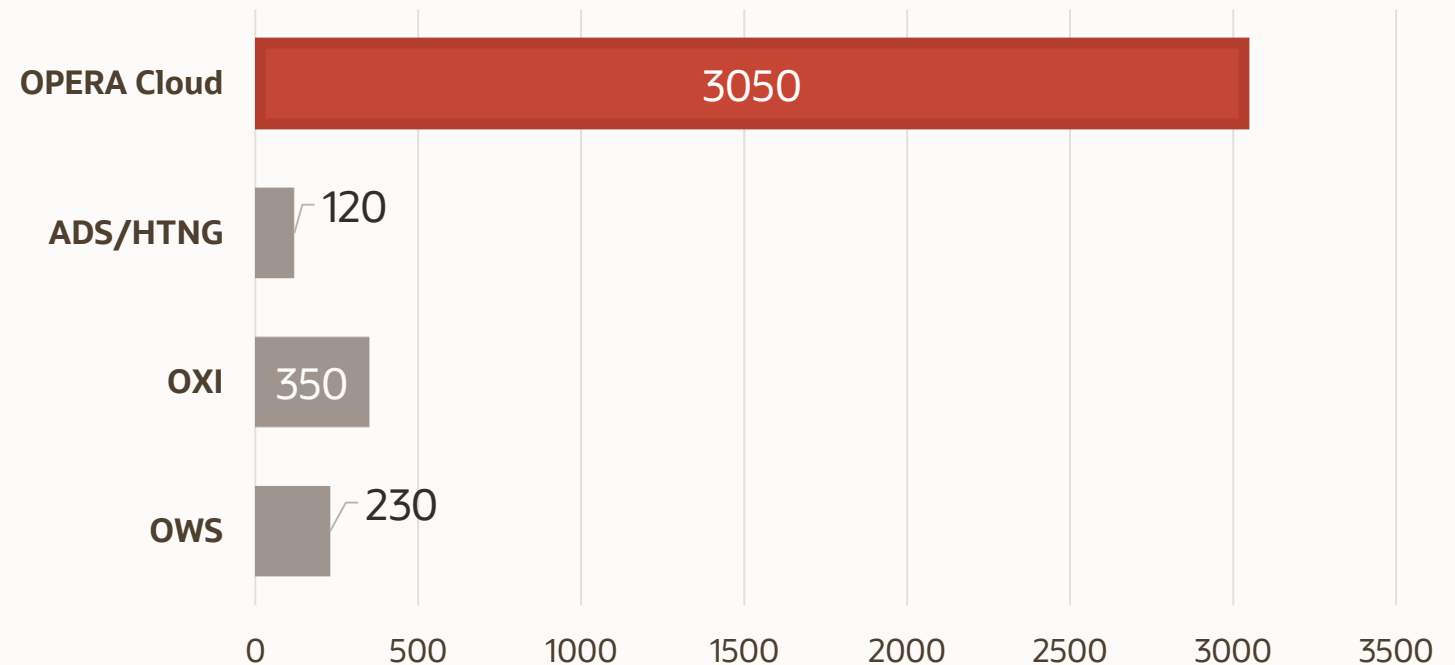Removal of Windows completes migration to single unified tech stack

Human Error Mitigation

No-touch environments avoid operational mistakes

Network, storage and database configuration via automated scripts only

CI/CD pipeline enforces full verification, security testing and regression analysis before push
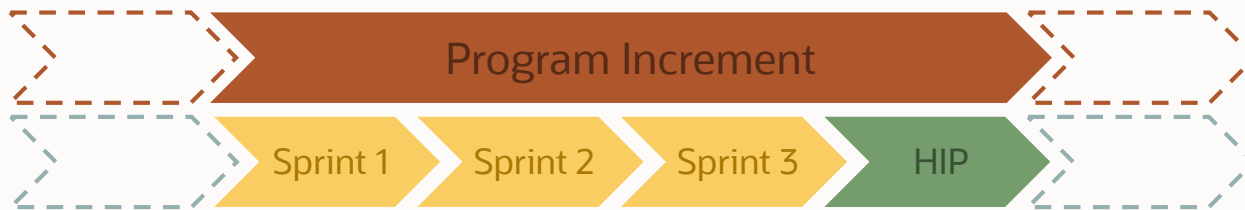
OPERA API Advancements

APIs for every

Business

Transaction

OPERA Cloud — 3050

ADS/HTNG — 120

OXI — 350

OWS — 230

0   500   1000   1500   2000   2500   3000   3500

Now with 100% of operations available via REST

"Kaizen (改善)" Continuous Improvement

"Develop on Cadence
& Release on Demand"

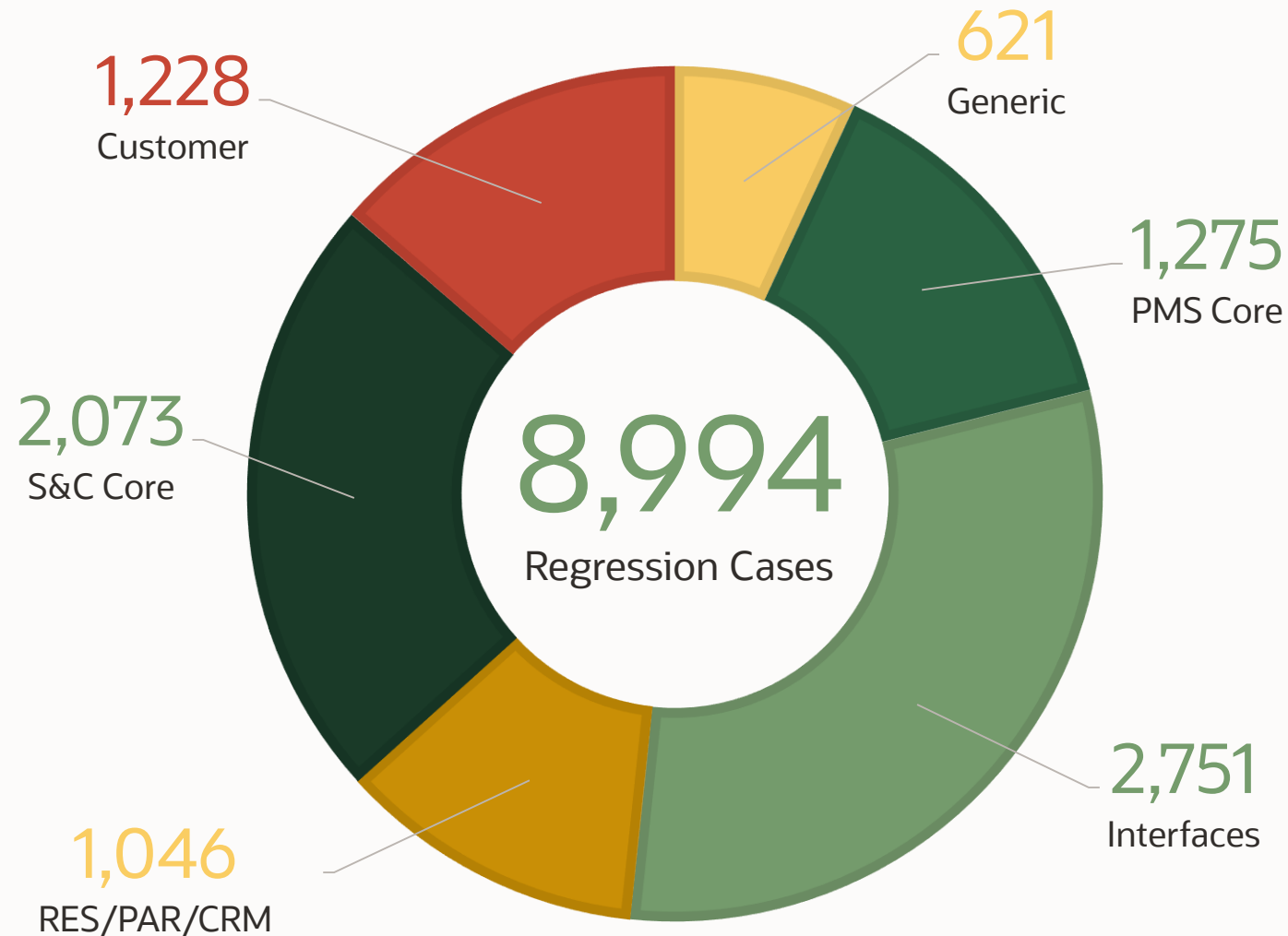**2019 RELEASES**

6
OPERA Cloud
19.x

5
OPERA Cloud
1.20

6
OPERA V5.6

6
OPERA V5.5

Program Increment

Sprint 1 | Sprint 2 | Sprint 3 | HIP

Test Case Statistics

621
Generic

1,275
PMS Core

2,751
Interfaces

1,046
RES/PAR/CRM

2,073
S&C Core

1,228
Customer

8,994
Regression Cases

Oracle Hospitality Connect

Diamond sponsor VISA
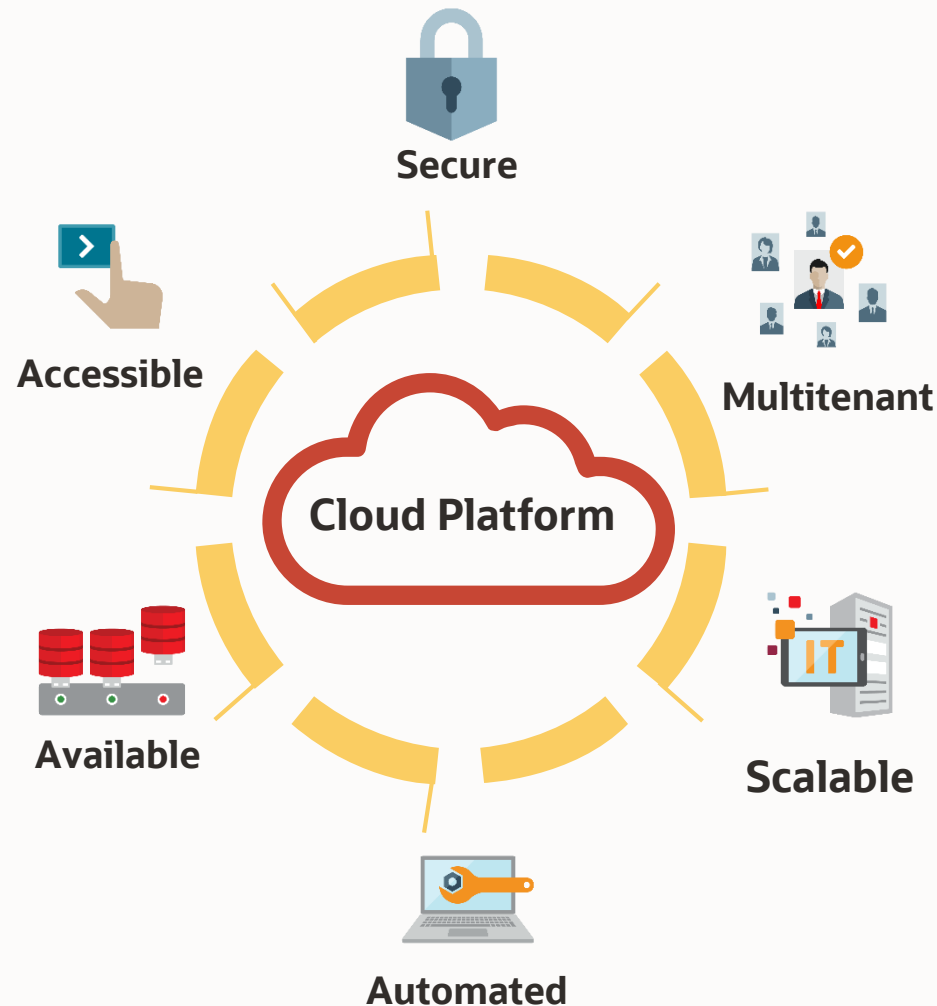
Cloud Platform Requirements

Delivering …
- secure
- scalable
- automated
- multitenant
- available
- accessible

…cloud for Opera

Oracle Cloud Infrastructure – Run Smarter and Faster
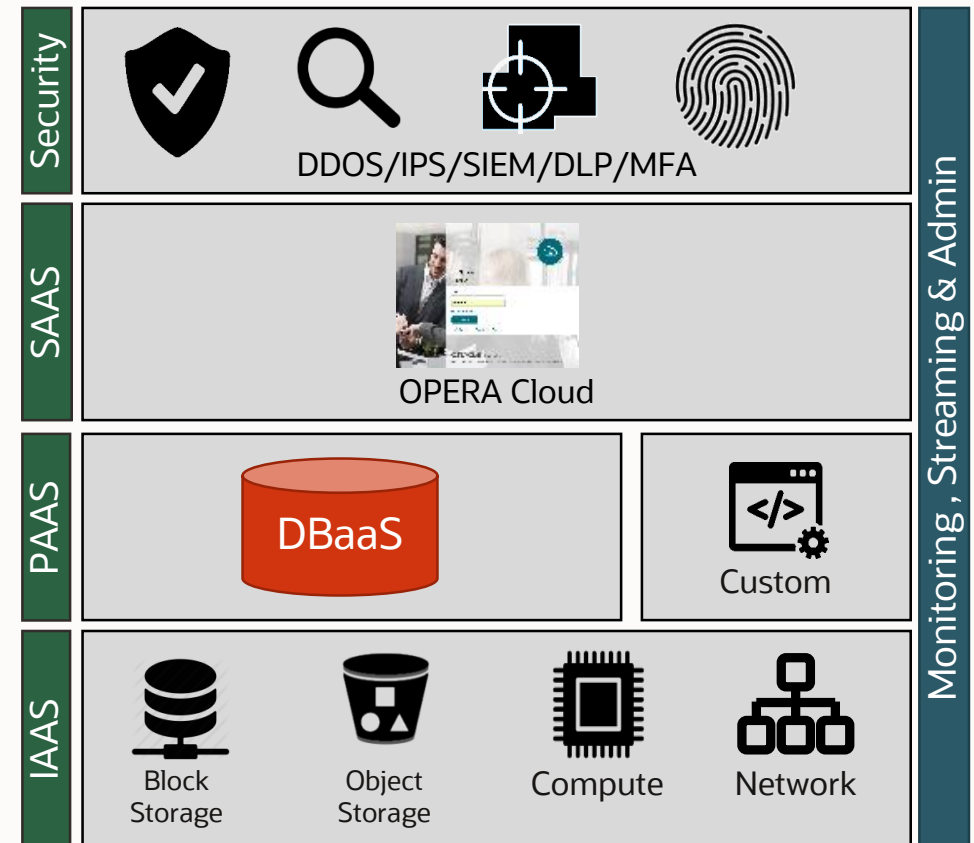
Architected for Oracle Workloads

Cost Effective

Security & Governance 'Baked in'

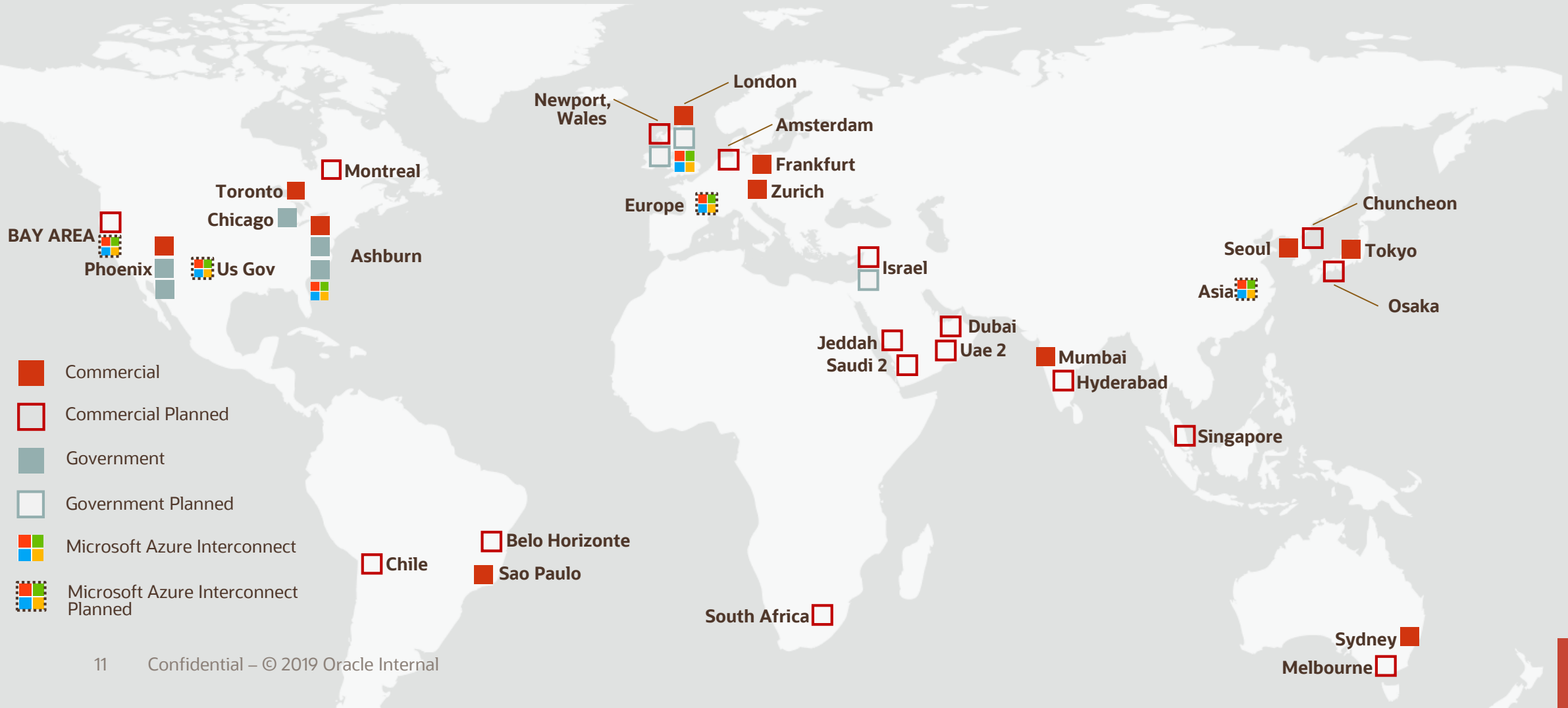Performance

Fully Automated

Open Standards based

SaaS/PaaS/Extensibility

Security
DDOS/IPS/SIEM/DLP/MFA

SAAS
OPERA Cloud

PAAS
DBaaS
Custom

IAAS
Block Storage
Object Storage
Compute
Network

Monitoring , Streaming & Admin

Oracle Cloud Infrastructure Global Footprint
November 2019: 16 Regions Live, 20 Planned

Diamond sponsor **VISA**

Legend:
- Commercial
- Commercial Planned
- Government
- Government Planned
- Microsoft Azure Interconnect
- Microsoft Azure Interconnect Planned

Locations:
Montreal, Toronto, Chicago, BAY AREA, Phoenix, Us Gov, Ashburn, Newport, Wales, London, Amsterdam, Frankfurt, Zurich, Europe, Chuncheon, Seoul, Tokyo, Asia, Osaka, Israel, Jeddah, Saudi 2, Dubai, Uae 2, Mumbai, Hyderabad, Singapore, Belo Horizonte, Chile, Sao Paulo, South Africa, Sydney, Melbourne

Premise to Cloud Migration Platform

OPERA to Cloud Migration's (OCM) purpose is to provide an easy-to-use set of tools to:

1. Create new migration requests and track their progress (workflow management)
2. Automated evaluation report in source DB to facilitate scope and effort estimation
3. Automated database backup
4. Securely Upload backup and relevant files to Oracle Cloud Infrastructure
5. Restore and Recover database on Migration server
6. Upgrade database and OPERA schema from source version to pre-production version
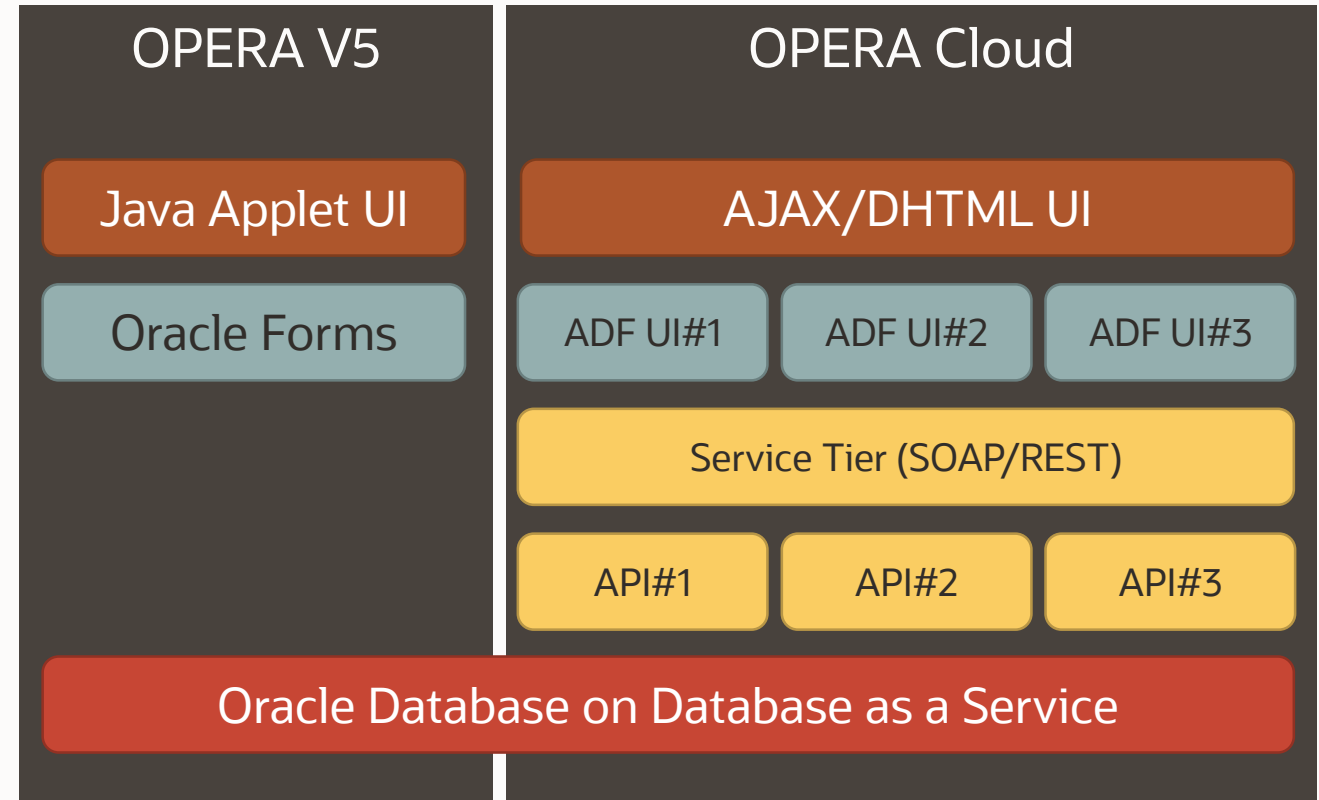7. Migrate data to Production (SaaS Pull)

Migration from OPERA V5 to OPERA Cloud (Once Hosted)

When we designed OPERA Cloud we knew we would have before us a challenge of migrating **40,000 hotels** onto the new product

OPERA Cloud is designed in its current form to run on the **same database** as version 5.6 with only additions to the data model

All OPERA deployments from **January 2020** are **hybrid deployments** where users may leverage both V5 and OPERA Cloud; only limited by permissions

Zero Downtime and Zero Impact Migrations

OPERA V5	OPERA Cloud
Java Applet UI	AJAX/DHTML UI
Oracle Forms	ADF UI#1 / ADF UI#2 / ADF UI#3
	Service Tier (SOAP/REST)
	API#1 / API#2 / API#3
	Oracle Database on Database as a Service

Diamond sponsor **VISA**

Thank you

—

David M. Clifton
Vice President, Product Development
Oracle Hospitality