

# Oracle Autonomous Database Update



Keith Laker  
Senior Principal Product Manager  
Autonomous Database

# Key focus areas for Autonomous Database

## Enterprise-Class



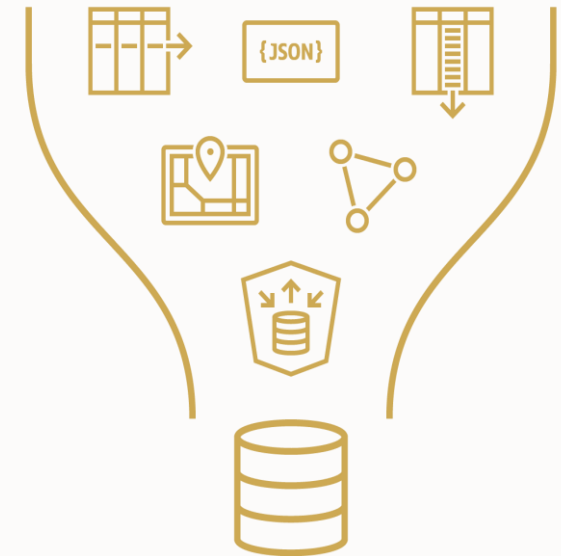
Maximum availability,  
scalability, and performance

## Self-Driving



True cloud-elasticity  
for low cost

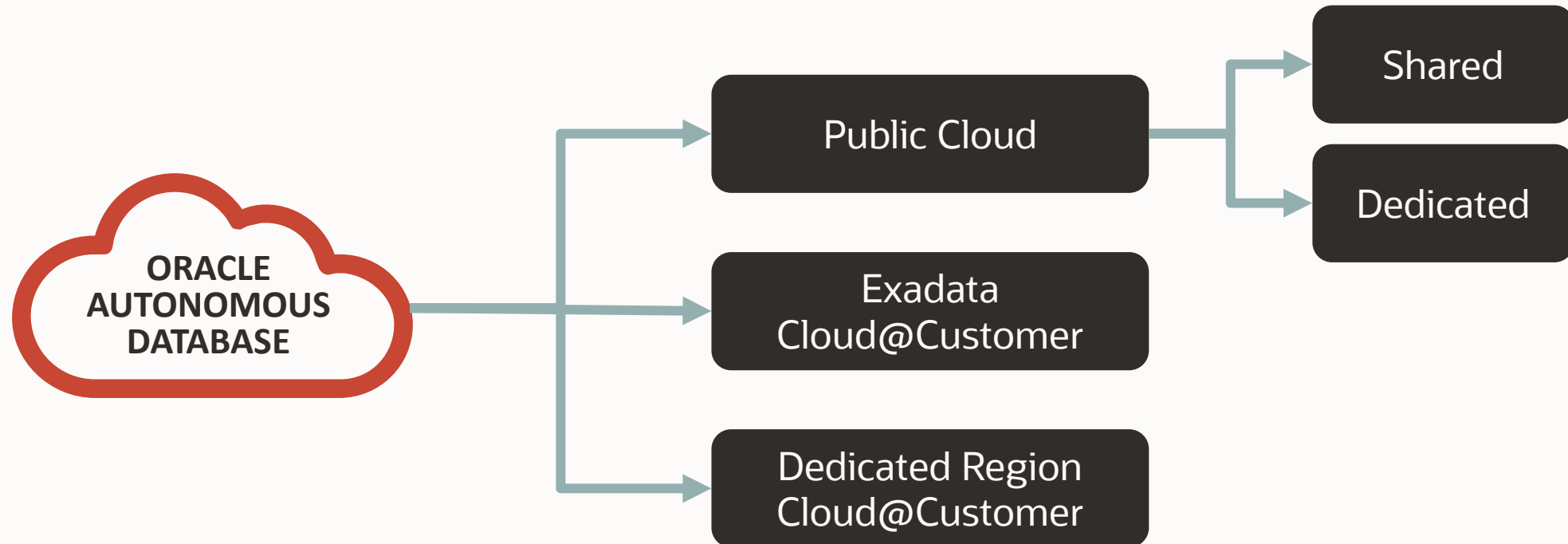
## Most Productive



Maximize opportunity with  
converged database

# Deployment choices for Autonomous Database

Flexible deployment models



# Autonomous Database workload types

Optimized for specific workloads



## ADW

Optimized for all  
types of analytical  
processing



## ATP

Optimized for OLTP  
and real-time  
operational  
applications



## AJD

Optimized cloud  
document service for  
JSON-centric apps



## APEX

Low-code  
development  
service

# Notable **recent** features for Autonomous Database

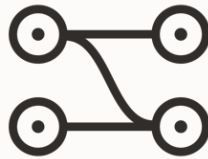
Enabling a self-service ecosystem for non-IT users

## Load



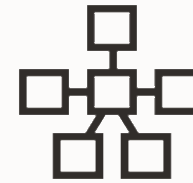
Simple drag & drop loading  
([DEMO](#))

## Transforms



Declarative transformations  
and data cleansing ([DEMO](#))

## Business Model



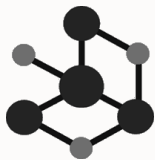
Automatically create powerful  
business models ([DEMO](#))

## Insights



Guided discovery of hidden  
patterns and anomalies ([DEMO](#))

## Graph



Prepare and explore graph  
data ([DEMO](#))

## ML Model



Easily create models with  
AutoML ([DEMO](#))

## Deploy



Integrate ML models into  
apps via REST or SQL ([DEMO](#))

## Build



Low-Code app-dev platform  
(APEX)

## Notable **recent** features - automated data protection

Highly available out of the box, 99.95% SLA with cross-region Autonomous Data Guard



Built-in highly-available,  
self-healing infrastructure

Automatic recovery for  
server/storage failures

### Autonomous Data Guard



**Primary**  
(Ashburn)

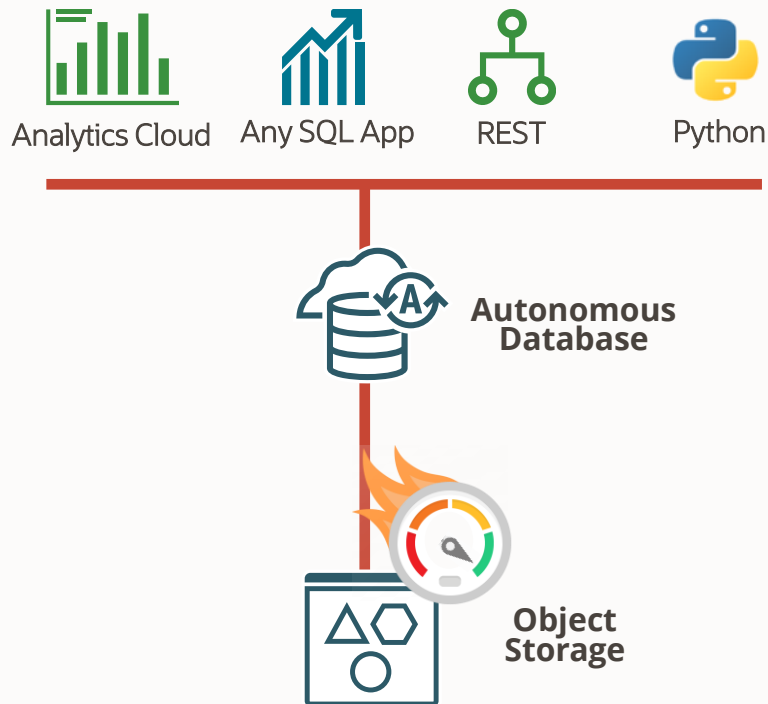
**Standby**  
(Phoenix)

Enhanced protection against  
disasters

Now with cross-region standbys

# Notable **recent** features – smarter, faster data lake queries

Queries over Object Storage just got transparently smarter and faster



## Scale-out data lake smart scans

- Smart scanning: partition + predicate pushdown
- Reduce impact on your database workload
- Object store processing is isolated from DB cores

## Automatic and transparent

- Engages only when necessary
- Uses auto scale to augment database compute for the life of the query

# Notable **recent** features – integration with OCI Data Catalog

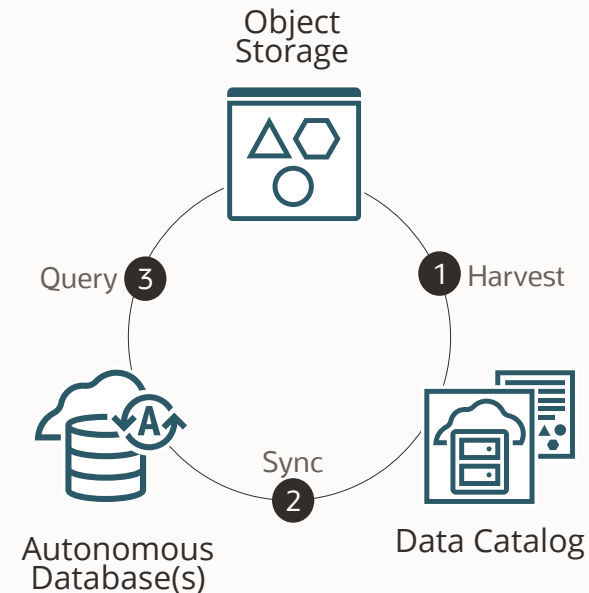
Autonomous Database acts as both source and consumer of information in data catalog

## Data Catalog is the source of truth for Object Storage metadata

- Harvest object storage to derive schemas
- Manage business glossary, terms and tags
- Discover data using powerful search

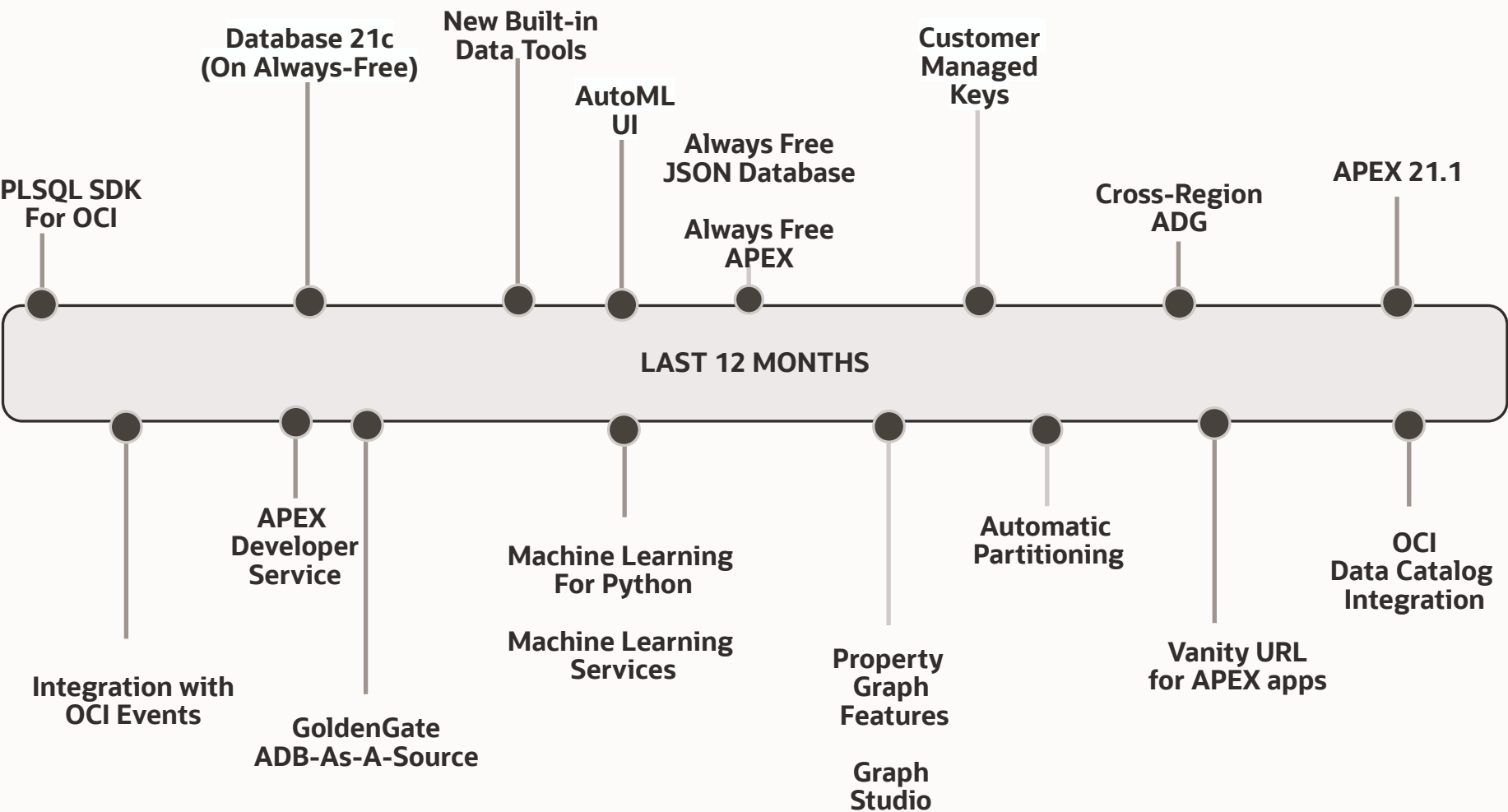
## Use Autonomous Database to discover and analyze data sets

- SQL to query both object storage metadata + data



# New features delivered in last 12 months

Autonomous Database (Shared)



# Where to hear and learn about new features

Documentation: What's New in Autonomous Database

<https://docs.oracle.com/en/cloud/paas/autonomous-database/adbsn/index.html>

<https://docs.oracle.com/en/cloud/paas/autonomous-database/adbam/index.html>

Monthly Newsletter

<https://blogs.oracle.com/datawarehousing/category/dwh-newsletter>

Introductory blog post - [how to subscribe](#)

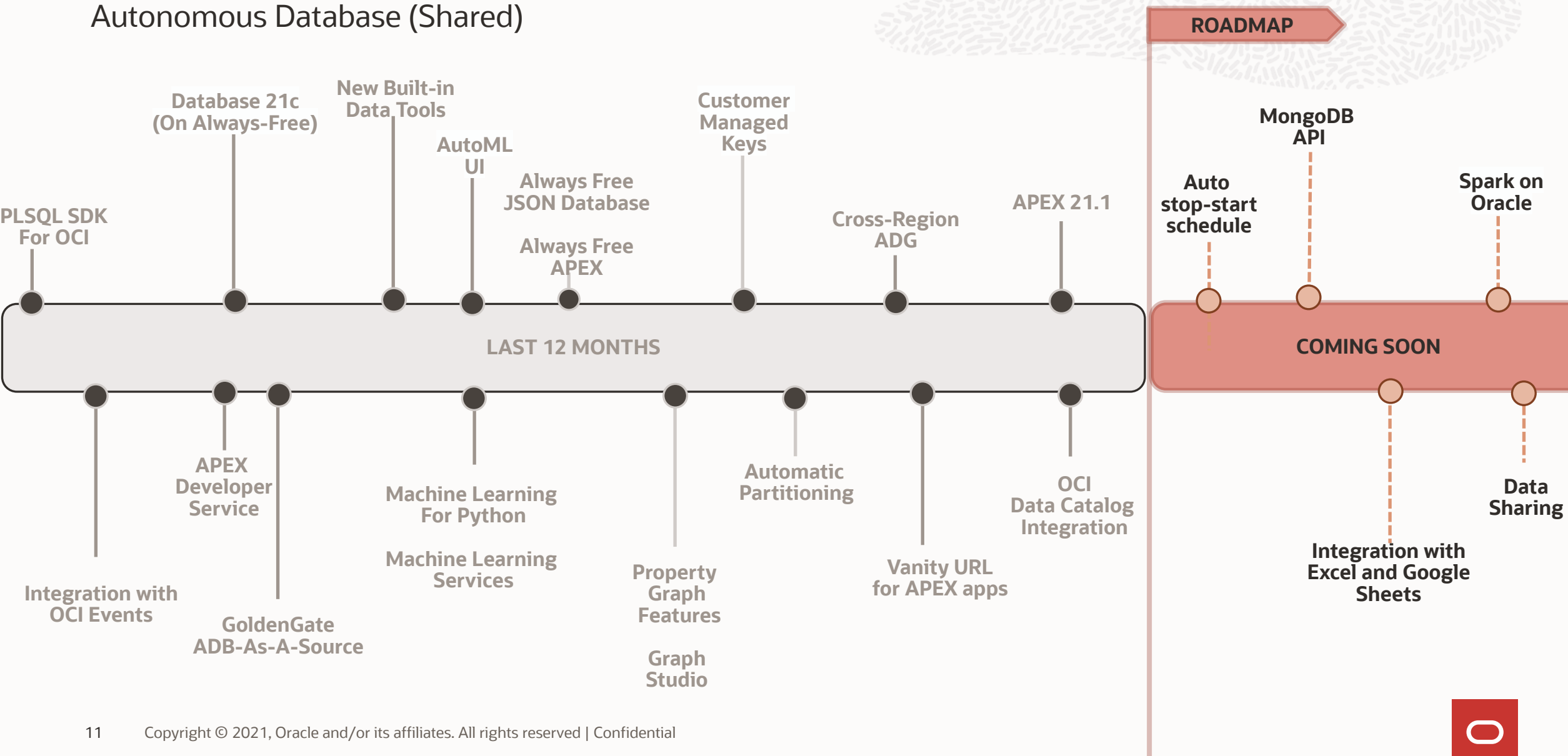
Oracle Data Warehouse Solutions YouTube channel:

<https://www.youtube.com/playlist?list=PL-zBCcmcC63tT0zoGbOoP7l84q8y9McW8>

**We want you to leverage the full value of Autonomous Database!**

# Looking further ahead – notable roadmap features...

Autonomous Database (Shared)



# Notable **roadmap** features for Autonomous Database

Theme: Self-service

## **Auto stop and start** schedule for ADB instances

- Automatically starts and stops based on date-time schedule
- Reduce costs by scheduling shutdown periods for times when a system is not in use

## Oracle **API for MongoDB**

- Access JSON in ADB using MongoDB API's, drivers and tools

## **Excel / Google Sheets** integration

- Easy access to data in Autonomous Database from spreadsheets

## **Data Lake** integration

- Spark-on-Oracle: Efficient queries over data within Autonomous Database from Spark

## **Data Sharing**

- Simple sharing of data sets between databases

# Notable **roadmap** features for Autonomous Database

Theme: Cloud-native and multi-cloud



ADB today integrated with all core OCI capabilities

# ORACLE

