



EDB™

***It's not you, it's Oracle.
Leave them for
Postgres***

May 30th, 2023

AGENDA

- Introductions
- Why companies are leaving Oracle
- Where to begin
 - Validate the need to migrate
 - Mobilize your organization
- The true costs & benefits of a migration
- Technical aspects of a Migration
- EDB Guaranteed Postgres Migration Program

INTRODUCTIONS



Gianni Cioli

Field CTO Solutions Architecture, EDB



Why Companies are leaving Oracle?

Poll: Why companies are leaving Oracle?

- Appeal of other database systems
- Deployment options (cloud, containers)
- Costs
- Innovation
- Consolidation into fewer platforms
- Other reasons

Where to
begin?

ORACLE EXIT: GETTING STARTED

TO REAP THE **REWARDS**, ORACLE MIGRATION **REQUIRES PLANNING**



For enterprise scale migrations:
To **maximize efficiency, speed, and enable ongoing success** we advise considering the exercise from these **four aspects**

VALIDATE THE NEED
TO MIGRATE

Be clear on the **goals** of migration, ensure they are **realistic** and **achievable**

MOBILIZE YOUR
ORGANIZATION

Define the **approach**, who needs to be involved, **build support** for the exercise, **set targets**

OPERATIONALIZE

Build / optimize your **target DB platforms**. Get the **process and tools** in place to migrate at scale

SUSTAIN

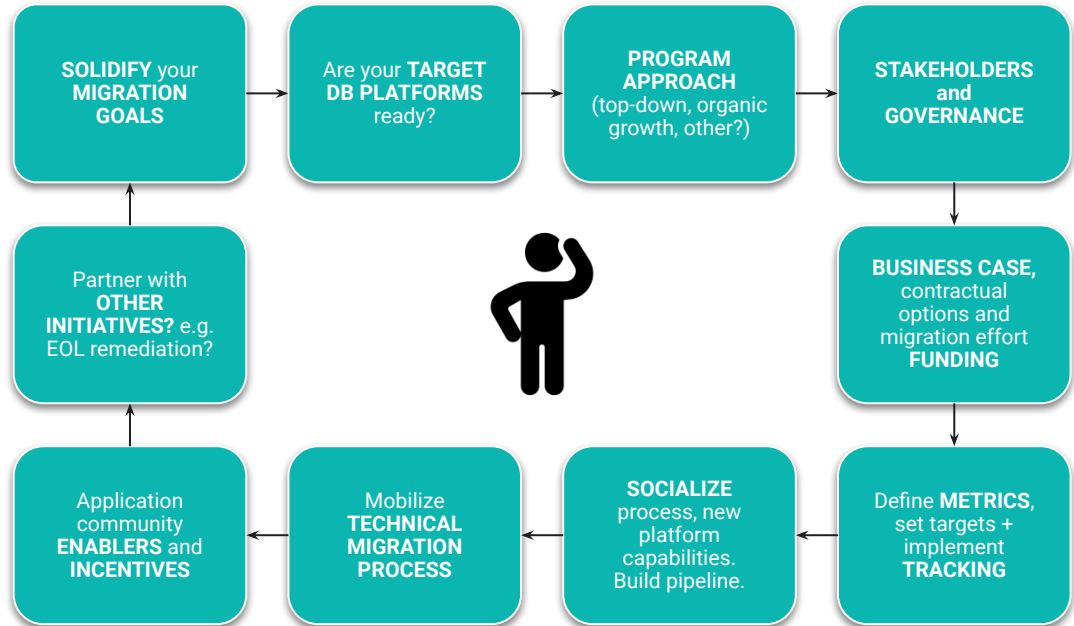
This is a marathon not a sprint. **Track** progress, **identify & address issues**, stay the course to unlock the benefits

ORACLE EXIT: MOBILIZING YOUR ORGANIZATION

FOR MAXIMUM SUCCESS, BUILD SUPPORT

You know **what** you want to do, the question is...**how?**

- Reality is the technical migration activities are only a fraction of the work involved.
- Key **challenges to overcome:**
 - Getting **buy-in** with application teams
 - Demonstrating the **business case**
 - Getting into application teams release cycles and maintaining their commitment to see this through
 - Having the support to react to the technical challenges that will arise



MIGRATION BUSINESS VALUE ASSESSMENT

WHY PERFORM THE ASSESSMENT?

- Many customers have an aspiration to move away from current state but wrestle with:
 - Articulating **cost / benefits**
 - **Building internal support** for multi-year, mass migrations
 - Determining **where to begin**

OUR GOAL

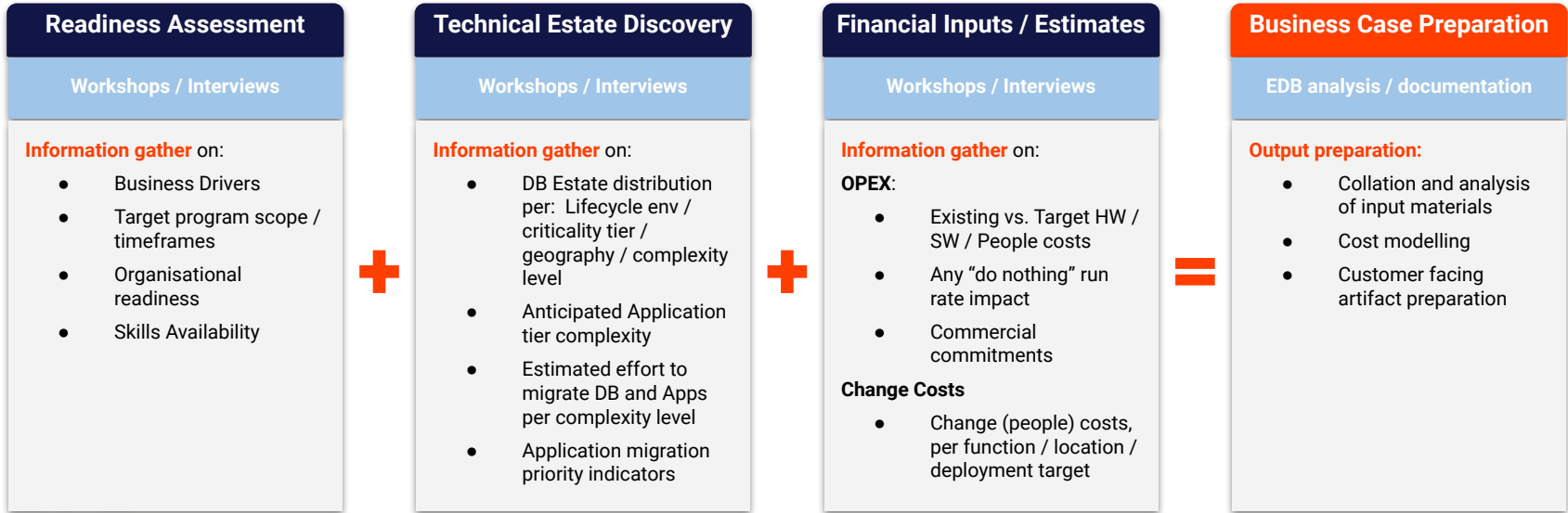
- In addition to our technical expertise, offer **business case support** and **consultancy** for Oracle to Postgres migrations
- Help refine the migration business case per customer
- **Provide artifacts** that our customers can use as appropriate with internal stakeholders **to help mobilize**

PRODUCE DOCUMENTED OUTPUT COVERING:



BUSINESS VALUE ASSESSMENT: PROCESS

- **Step 1:** Run an assumption based [preliminary ROI](#) to show “**the art of the possible**”
- **Customer inputs** will be required to validate the assessment and deliver more accurate outputs
- The following **primary phases** of activity are foreseen (+ sample inputs):

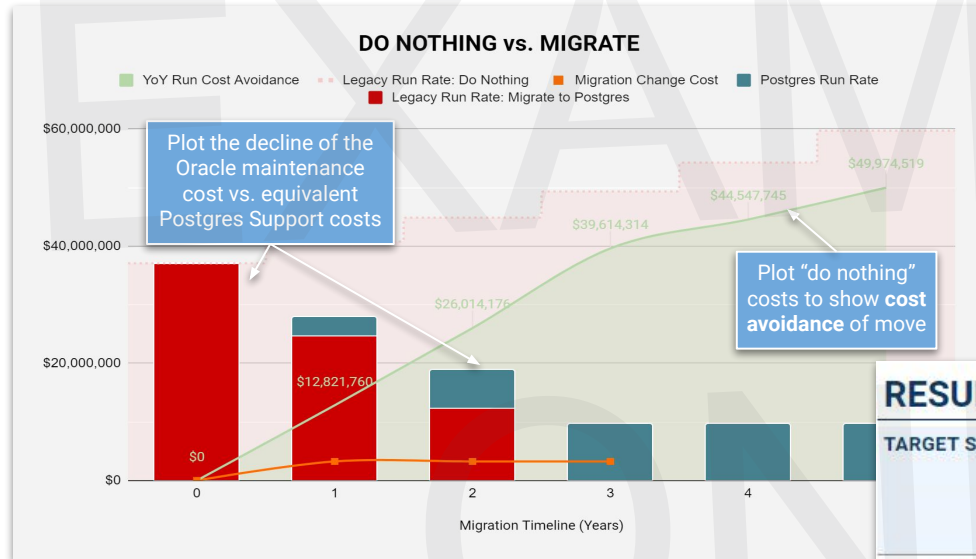




The true costs
& benefits
of a migration

COST / BENEFIT ANALYSIS

Generate a **graphical view** depicting movement of run **costs over time** and **saving / avoidance opportunities**



INPUTS

- Key inputs are estimated **current operating cost vs. target** with Postgres
 - We include primarily software related costs but if the migration is anticipated to reduce HW / compute costs e.g. as result of migrating to commodity HW we can include these costs in the model
- We also provide a methodology for **consistently estimating the change costs of migration** (both database migration and any app tier remediation required)

RESULT

	ROI
TARGET STATE RECURRING ANNUAL OPEX REDUCED FROM TODAY BY	75%
from	\$37,065,600
to	\$9,090,000
<i>\$\$ reduction of</i>	\$27,975,600
TOTAL COST OF CHANGE	\$9,738,698
<i>Number of years until ROI</i>	3
CUMULATIVE COST AVOIDANCE OVER TERM	\$175,492,514



Technical aspects of a migration

FACTORS TO CONSIDER WHEN MIGRATING



Database schema definitions and procedural objects



Application data in the database



Infrastructure hosting the database and application



Application(s) using the database

ORACLE DATABASE MIGRATION SOLUTIONS



SCHEMA



DATA



DB CODE



API



TOOLS

Part of the way
SCHEMA AND DATA ONLY



Most of the way
SCHEMA, DATA AND CODE



Almost there
SCHEMA, DATA, CODE AND INTERFACE

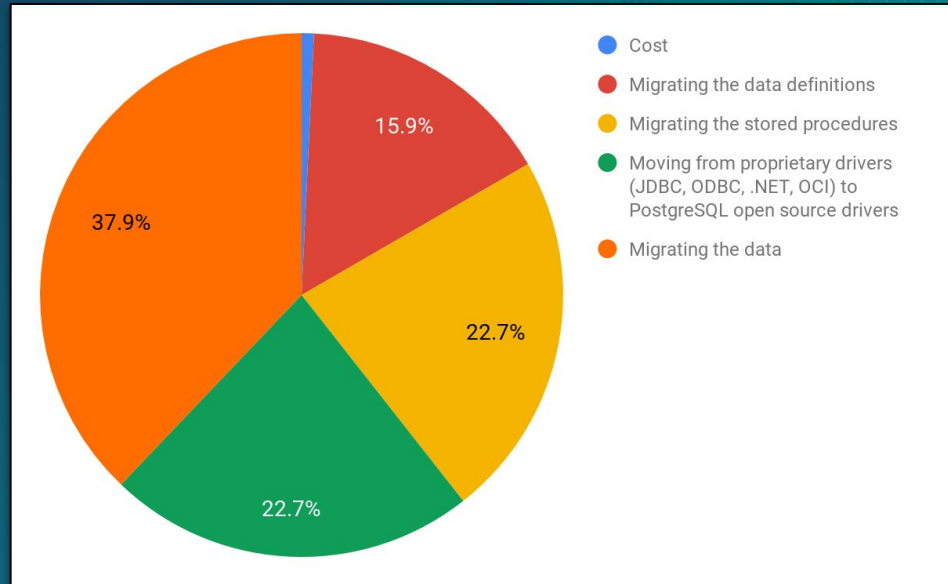


All the way
SCHEMA, DATA, CODE, INTERFACE AND OPERATIONAL TOOLS



SURVEY: What is your biggest obstacle when migrating Oracle databases to Postgres?

EDB's cost, migration capabilities, and Oracle compatibility address all of these obstacles



Source: EDB Downloader Survey July 2020 (1,500 respondents)

HOW EDB SUPPORTS THE MIGRATION JOURNEY PHASES



Assessment

Analyze feasibility; plan, scope, prioritize, commit



Database Migration

Migrate schema, code, and data, and validate



Application Migration

Finish the migration: apps, reports, performance



Comprehensive Migration Capabilities

Database compatibility, deployment options, migration tools, and migration expertise

Robust compatibility with Oracle

EDB Postgres Advanced Server's compatibility is wide and deep

Data Types

Object Types

PL/SQL

Query Syntax

Data Dictionary
Views

Built-in PL/SQL
Packages

Database Drivers

Work-alike DBA
Tools

- What are the benefits of compatibility?
 - Significantly reduces the amount of time and effort required for a migration from Oracle
 - Eases the transition from Oracle to Postgres for Oracle DBAs and developers

EDB POSTGRES ADVANCED SERVER

Benefits of compatibility



Your business

Lower costs and reduce risks



Your people

Leverage the existing skills of your Oracle DBAs and developers



Your apps

Leverage existing infrastructure with native PL/SQL support and OCI interoperability

EDB POSTGRES ADVANCED SERVER DEPLOYMENT OPTIONS

Migrate your database to where your business needs it



On-premises

Physical Servers
VMs
Kubernetes / Containers
Private Cloud



Kubernetes / Containers



Public Cloud - Self Managed



Public Cloud - Managed Service



EDB'S KEY MIGRATION TOOLS AND SERVICES



Migration Portal

Free, web-based tool

Assess Oracle schema compatibility

Converts Oracle objects to EDB Postgres Advanced Server



Migration Toolkit

Command line tool

Granular control schema and data migration

From Oracle to EDB Postgres Advanced Server



Replication Server

Change data capture for large migrations with minimal downtime

Provides ability to perform replication between Oracle and Postgres

CLI and GUI options for configuring replication



Migration Services

For complex migrations

For organizations that are short-staffed

Helps ensure a smooth transition

EDB PROFESSIONAL SERVICES FOR DATABASE MIGRATIONS TO POSTGRES

Why use EDB Professional services for your migration journey



- Some migrations are more complex than others
- EDB has over 15 years of experience in helping customers with their migrations
- You may not have sufficient resources to perform a migration on your own
- You may not have sufficient PostgreSQL expertise
- You need help in assessing, prioritizing, and planning migrations for a large number of databases in your organization

WHAT IS NEEDED TO SUPPORT THE MIGRATED SYSTEM?

The needs will be similar to the legacy system, EDB has you covered

- ✓ Operational tools and processes to support
 - ✓ Monitoring and management
 - ✓ Backup and Recovery
 - ✓ High availability
 - ✓ Security and Auditing
 - ✓ Reporting
- ✓ Periodic minor version updates (bug and security fixes) and major version upgrades (new features)
- ✓ Trained administrators and users

GUARANTEED POSTGRES MIGRATION PROGRAM

ZERO-RISK GUARANTEE TO MIGRATE FROM ORACLE TO EDB POSTGRES

- Free migration assessment
- Free migration services:
 - Migrated schema and data
 - Remediate up to 25 application queries
 - Tune up to 10 queries for same or better performance



FILL OUT OUR [WEBSITE FORM](#) OR CALL US TO SEE IF YOU QUALIFY FOR OUR ZERO-RISK MIGRATION PROGRAM

EDB Guaranteed Postgres Migration Program

See if you qualify
today





EDB MIGRATION PORTAL DEMO

Q&A

EDB Open Source Learning Day





Thanks for joining us!

If your question did not get answered, please
submit it to: enterprisedb.com/contact