

# Unlock The Power of Postgres: Every Datatype, Every Cloud, Everywhere

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# Postgres

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the most transformative open  
source technology since  
*Linux*

# PREDICTED TRENDS

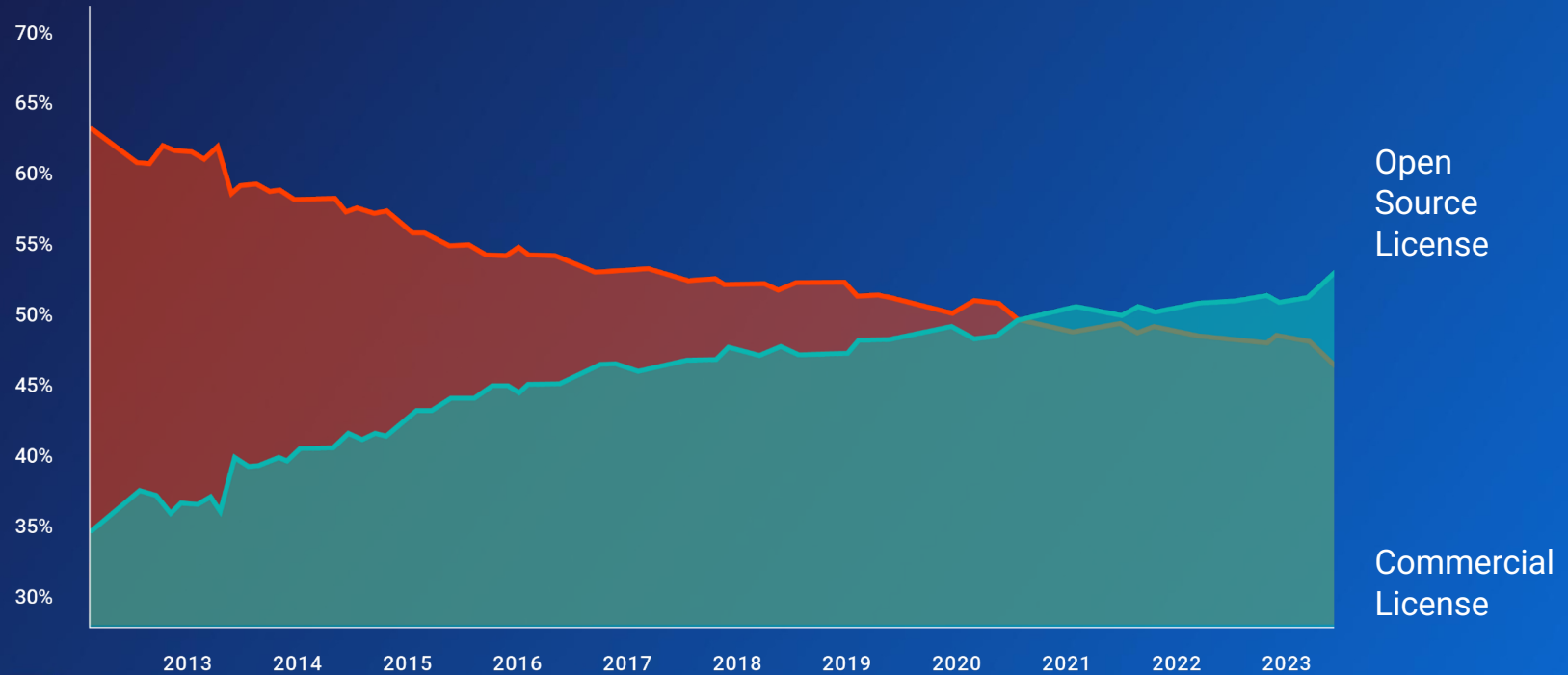
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According to Gartner: "By 2022, more than 70% of new in-house applications will be developed on an Open Source Database Management System (OSDBMS) or OSDBMS-based Database Platform-as-a-Service (dbPaaS), and 50% of existing proprietary Relational Database Management Systems (RDBMS) instances will have been converted or be in process of converting."


*Gartner, State of the Open-Source DBMS Market,  
2019, 17 October 2019, Merv Adrian, Donald Feinberg.*

# THE TIPPING POINT

## Open source database licenses now outpace legacy



source: db-engines, IDC



Companies must shift to new **digital** operating models to compete and **stay relevant**

A NEW WORLD HAS EMERGED

- Data is the currency
- Data ownership is an economic advantage
- Databases are a strategic asset

THE DIGITAL  
TRANSFORMATION IS  
UNDERWAY

The modern stack is  
defined by **open source**

**Re-platforming of  
CORE DATABASE  
PLATFORMS  
is central to this shift**

# What has changed in the Database Market?

90% of IT leaders are now using enterprise open-source innovations

- Cloud Native development
- Faster innovation
- Performance and scalability
- Stability, security and control
- Cost Savings
- “Always On”
- Deploy Anywhere
- Any Cloud
- Any Hardware

# INDUSTRY LEADERS ARE ADOPTING POSTGRES

## Financial Services & Insurance



## Technology

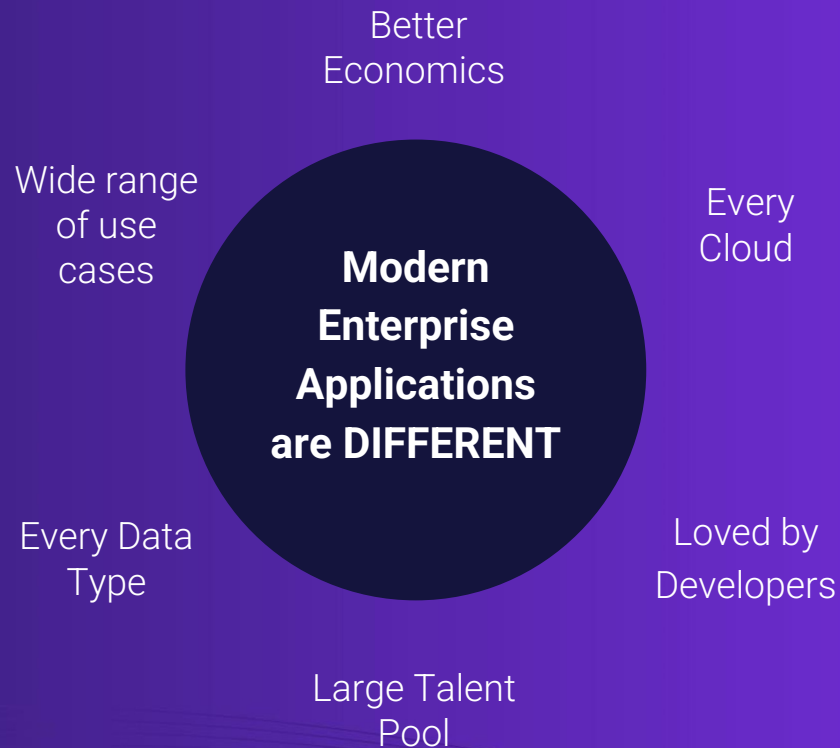


## Telecom





Database strategies  
must be **modernized**  
to **adapt more readily**  
to **business demands**



# You're not alone...

Here are the **top 5** reasons enterprises leave legacy databases for **PostgreSQL**



Innovation action is in open source



Avoid vendor lock-in



Easier to re-platform to cloud/hybrid



Smoother path to Digital Transformation



Significant cost savings



# Postgres is the **economic game changer**

- Databases are the #1 software spend in IT
- Every enterprise application powered by Postgres frees up significant IT budget
- 80% cost reduction after switching to Postgres from Oracle
- Greater business agility and flexibility
- Focus on development and not limit capability due to cost

# EVERY CLOUD, EVERY OS, EVERYWHERE



Every Cloud

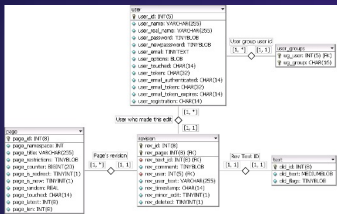


Every Platform



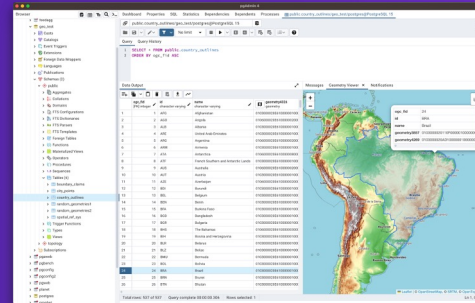
Every OS

# EVERY DATATYPE



Tables and relations

Geographic



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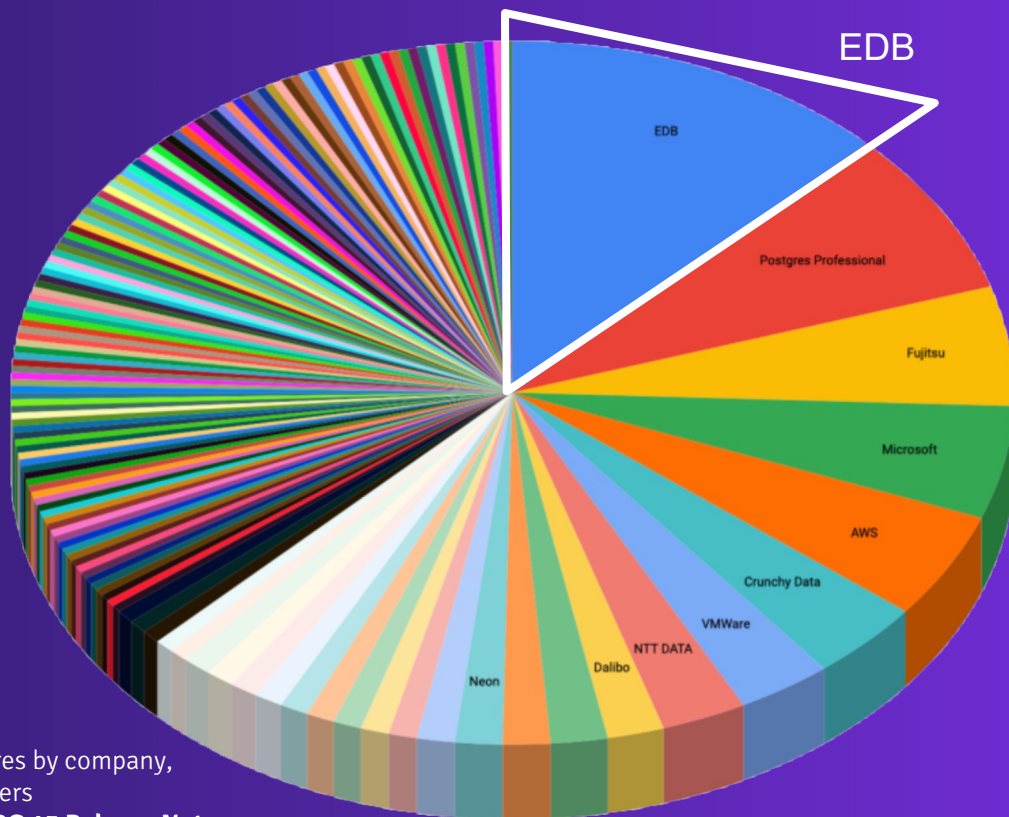
XML



Documents,  
Key Value Pairs

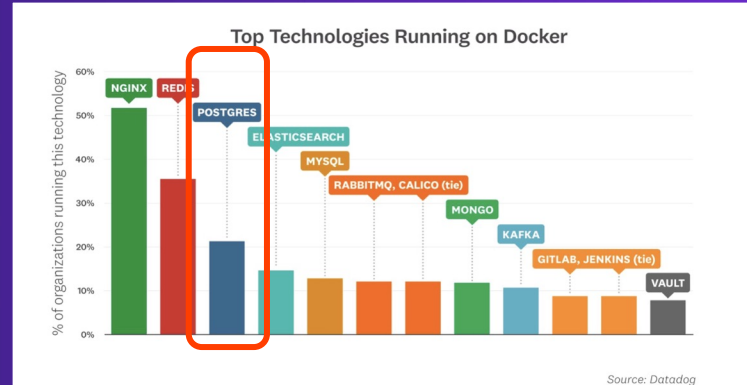
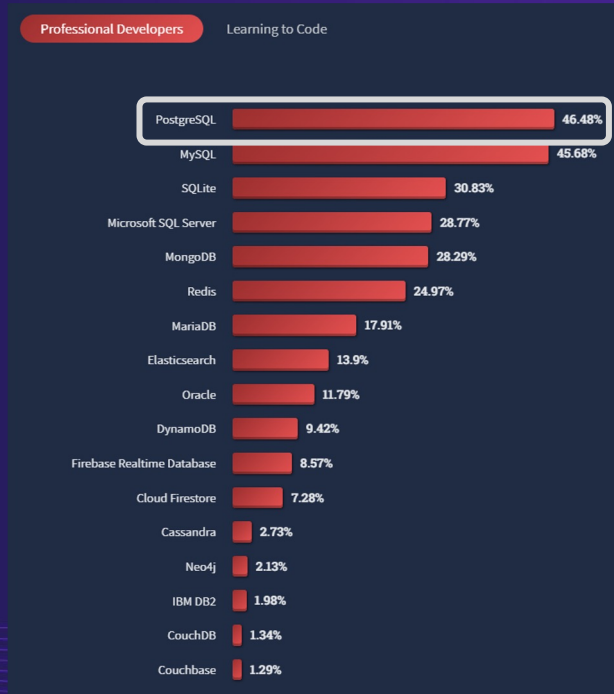
# VIBRANT COMMUNITY & LARGE TALENT POOL

- 700 + contributors
- 55,000 commits
- 144 companies actively contributing to Postgres
- EDB is #1 contributor to Postgres

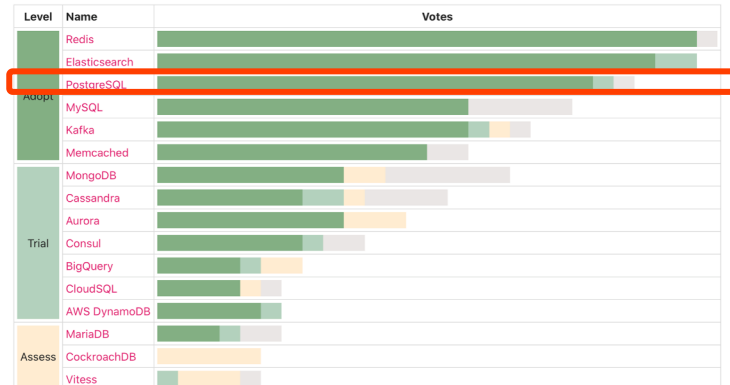


Code contributors to Postgres by company,  
> 1 contributor, no freelancers  
Source: [PostgreSQL.org](https://www.postgresql.org) + PG 15 Release Notes

# LOVED BY DEVELOPERS AND DBAs



The CNCF End User Community was asked to describe what their companies recommend for different solutions: Adopt, Trial, Assess or Hold. This table shows how the End User companies rated each technology.



Stackoverflow 2022 Developer Survey

Cloud Native Computing Foundation Technology Radar

# WIDE RANGE OF USE CASES

## New developments

- Custom solutions
- Micro services
- COTS

## Migrations

- Lift and shift from Oracle, DB2, SQL Server, Informix, Sybase
- Application Modernisations

## From Data marts and transaction systems, to IOT and edge solutions

- Data marts, ODS, OLTP, IOT/Edge, ...
- Open source
- Standards based

## Cloud transformations

- Every cloud (AWS, Google, Azure, private, hybrid cloud)
- Every platform (DBaaS, IaaS, K8s)
- Every operating model (Fully-managed, self-managed)





# EDB: MORE THAN COMMUNITY POSTGRES

- Enterprise-grade solutions
- Hardened security, including TDE
- Extreme high availability
- Oracle compatibility
- World class, 24x7 support
- Better performance
- Reduced costs
- Scalability
- Fully-managed and self-managed Postgres





# Central Credit Management

## Company profile

This central network partner strengthens savings banks and guarantees consumer security and reliability when it comes to loans. For over 350 consumer banks and over 200 automotive dealerships they manage over 8.7 billion Euro in loans, adding security and trustworthiness to the industry.



EDB Postgres Advanced Server usage started off early 2015, including EDB training and consulting efforts



Postgres allows for **massive reduction of effective IT spend on Oracle upwards of 85%**

## Summary

Use Case	Prevent Oracle dependency
Workload	OLAP / data warehouse management
Application Name	Centralised loan verification system
EDB Tools of Interest	EDB Postgres Advanced Server

## Problem

- Prevent Oracle Database dependency
- Adopt a supported and secure Open Source platform

## Solution

- Use Postgres capabilities to build and maintain a centralised loan verification system

## Results

- Battle tested loan verification system running reliably on EDB Postgres Advanced Server for many years
- Massive reduction of TCO of database service operations



# Global Clearing Bank

## Company profile

A global leading provider of integrated solutions in clearing, execution, custody, financing and risk management.

With 10 offices globally, over 800 employees are able to service clients on 160+ exchanges, Multilateral Trading Facilities and Foreign Exchange liquidity centres, processing over 20 million trades daily.



EDB Postgres Advanced Server adoption in this financial institution started in 2011 with the fraud detection application



Est. savings in excess of 2M per annum after migrating to advanced Server and adoption of Postgres

## Summary

Use Case	Business application migration
Workload	OLTP / Operational
Application Name	Risk management applications
EDB Tools of Interest	EDB Postgres Advanced Server

## Problem

- Reduce spend on Oracle licences
- Pure community Postgres approach lacks enterprise tooling
- Technology independence

## Solution

- Migration, with a partner, to EDB Postgres Advanced Server
- Moving from Advanced Server to PostgreSQL

## Results

- Successfully transformed all possible applications to Postgres
- Realization of technological independence for this application stack



# Large Bank

## Company profile

A large multinational Asian bank with significant presence throughout Southeast Asia, offering personal and private banking in addition to commercial banking services to SMEs. The banks has 28,000+ employees and 80 branches. It is present in 18 markets globally, including six priority markets in Asia (Singapore, Hong Kong, China, India, Indonesia and Taiwan).



EDB Postgres Advanced Server rollout across this Large Bank started in 2017 and touched 12 countries



**Large Cost Savings** after restructuring modules for 1,350 cores of a total 3000 cores

## Summary

Use Case	Modernization / TCO Reduction
Workload	OLTP / Operational
Application Name	Infosys Finacle
EDB Tools of Interest	EDB Migration Toolkit

## Problem

- Find a lower cost database alternative to Oracle
- Increase profitability and position the bank for future IT requirements
- Reduce Digital Transformation costs

## Solution

- Built an implementation plan for migrating two applications of a 16 year old mission critical core banking system, Finacle

## Results

- Of the 3,000 cores under Finacle, EDB has helped restructure module use for 1,350 cores to date
- Rollout across the organization started in 2017 and touched 12 countries including Singapore, Hong Kong, Taiwan, India, Indonesia and China



# Stock Exchange Group

## Company profile

An international exchange organisation and innovative market infrastructure provider for a wide range of products, services and technologies covering the entire value chain of financial markets.

With around 9,000 employees both financial activities as well as software development and deployment are in operation.



EDB Postgres Advanced Server adoption for the development of a core clearing application began in 2013



Postgres allows for massive reduction of effective IT spend on Oracle

## Summary

Use Case	New application on a new platform
Workload	OLTP / Operational
Application Name	C7 Clearing Application
EDB Tools of Interest	EDB Postgres Advanced Server

## Problem

- Create a new Clearing application on a new data management system

## Solution

- Provide a secure and supported, future proof data management system to built the C7 application

## Results

- A clearing application that is used by multiple members of the Stock Exchange Group
- Expanding Postgres adoption throughout the Stock Exchange Group