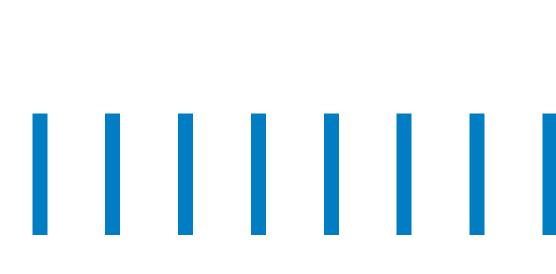
## **NAVIGATE YOUR NEXT**







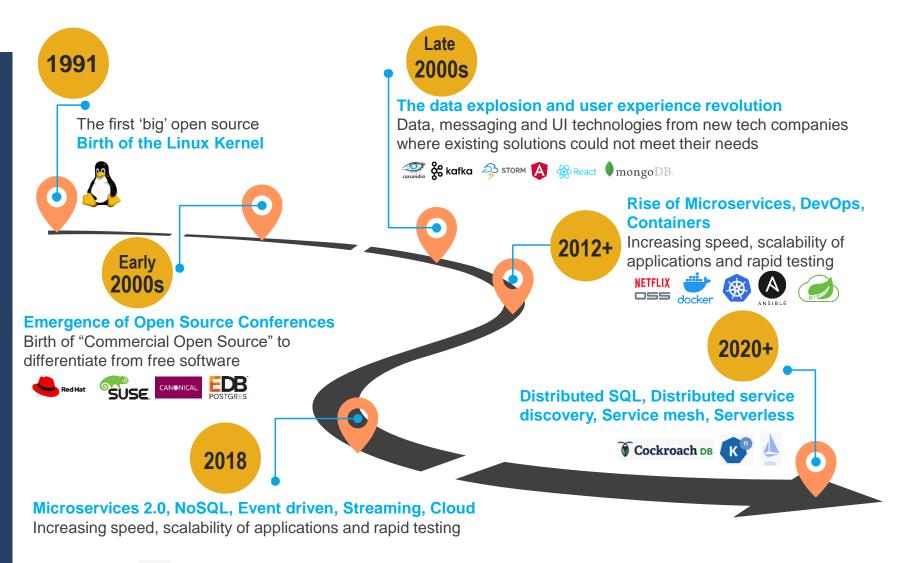
Open Source, Data & Postgres An Enterprise View

Gautam Khanna

VP & Head - Modernization Practice, Infosys



## **OPEN SOURCE HAS COME A LONG WAY** AND THE **POSSIBILITIES ARE ENDLESS**

















## FOSS is no longer a four letter word for enterprises

Enterprise adoption of Open Source is mainstream



95%

Companies say Open Source is **important** to their enterprise#



60%

Clients say #1 challenge is

Huge cost incurred to maintain
and upgrade monolith systems
built on proprietary
technologies^



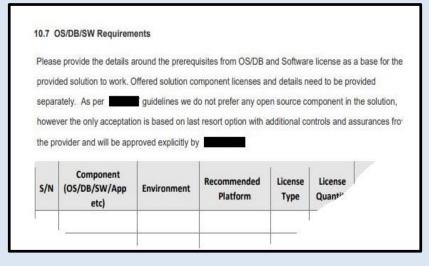
60%

Companies say Open Source is being used for IT Modernization#



## WE HAVE PLAYED A KEY ROLE IN CONVERTING THE NON BELIEVERS...

## **Before**



2017 RFP - Redacted

#### After

SI#	Layer	Recommendation
1	Core GRC product	MetricStream
2	UI/Portal	Liferay
4	BPM	jBPM
5	Document Management	IBM FileNet
7	Database	PostgreSQL
8	Reporting	QlickView
9	os	RHEL

Final approved solution stack



GSTN STACK – Largest Open Source grounds-up development project in the country



Needed to replace 30+ indirect taxes with uniform tax laws across states





6.4 m tax payers migration from existing tax regime

15 m tax payers to file taxes in the new system





50% of filing on last day – 1,2 B invoices



Used Open Source technologies with light weight platform



Platform based architecture with faceless engine exposing API for consumption



Key design principles – Platform approach, SEDA and distributed everything



End-to-End DevOps pipeline built on Jenkins, Maven, Docker etc..

**151 BUSD** 

Tax collection over 18 months

110 k

Concurrent users with <2 seconds response time

Highly ranked site

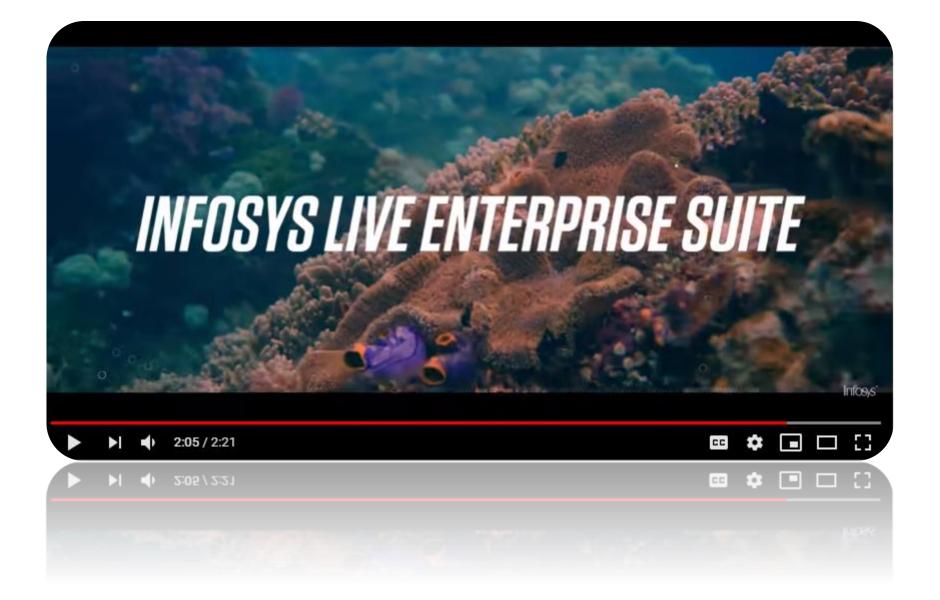
75 on SimilarWeb.com and 140 on alexa.com **70** m

page visits and return filings

**Zero RPO** 

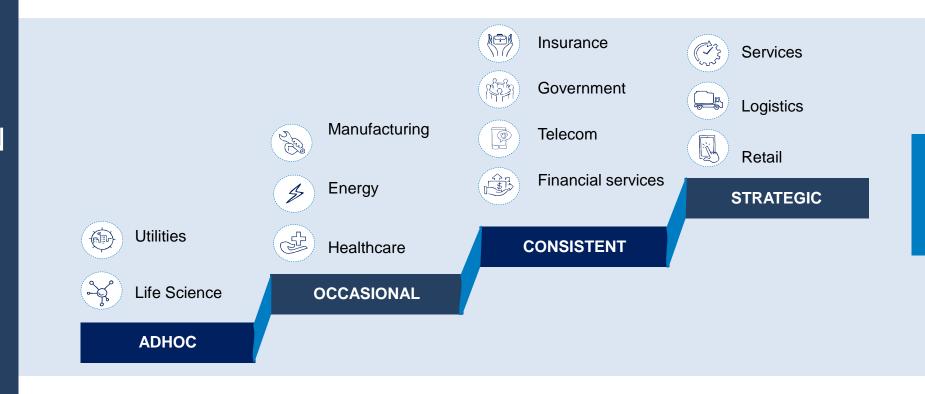
And a 30 minutes RTO to provide a robust DR solution





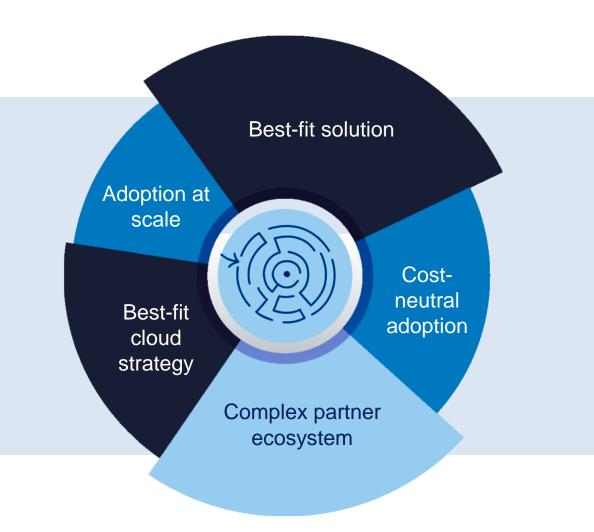


## ...BUT THE ADOPTION MATURITY VARIES...





...AND
ORGANIZATIONS ARE
FACING CHALLENGES
IN THEIR
MODERNIZATION
JOURNEY





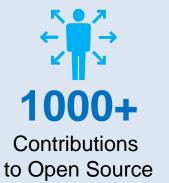
## INFOSYS IS TAKING A STRATEGIC VIEW OF OPEN SOURCE AND POSTGRES IN PARTICULAR

32,000+
Employees trained on Open Source

2019

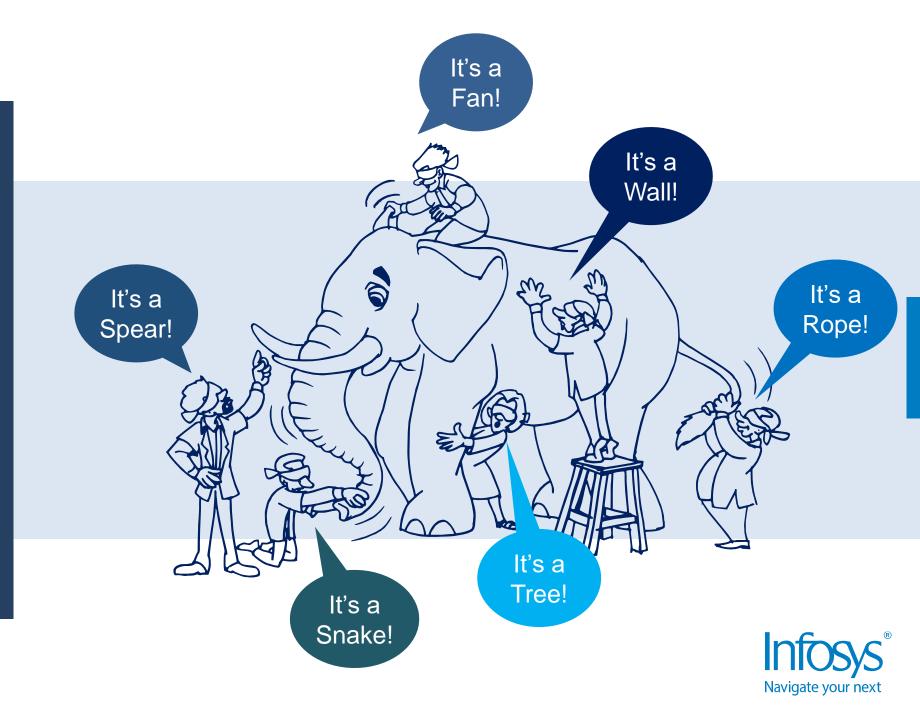


Projects executed on Open Source

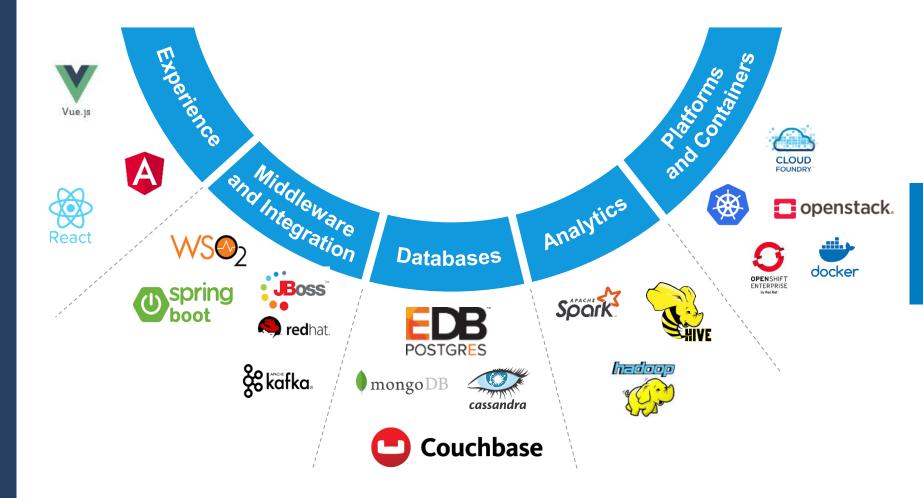




WE SEE THE
COMPLETE PICTURE

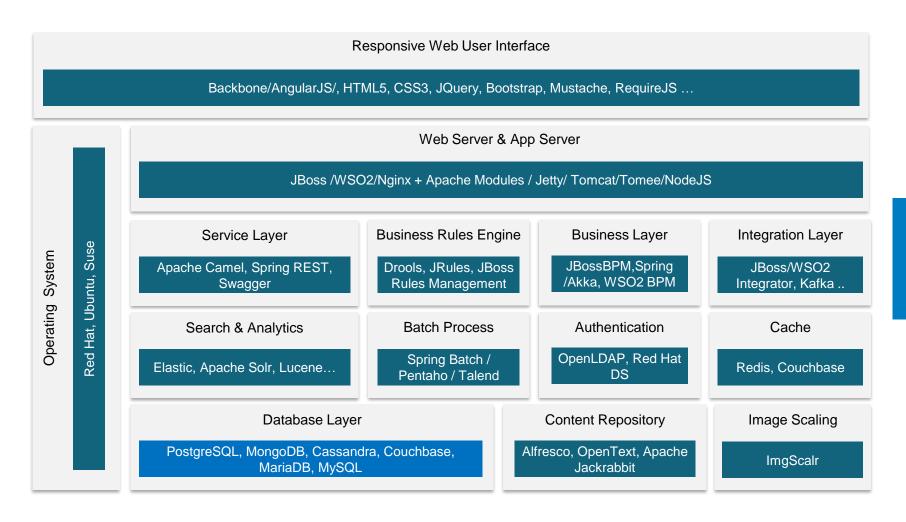


...THAT REQUIRES
BOTH BREADTH
AND DEPTH OF
TECHNOLOGY
KNOW-HOW



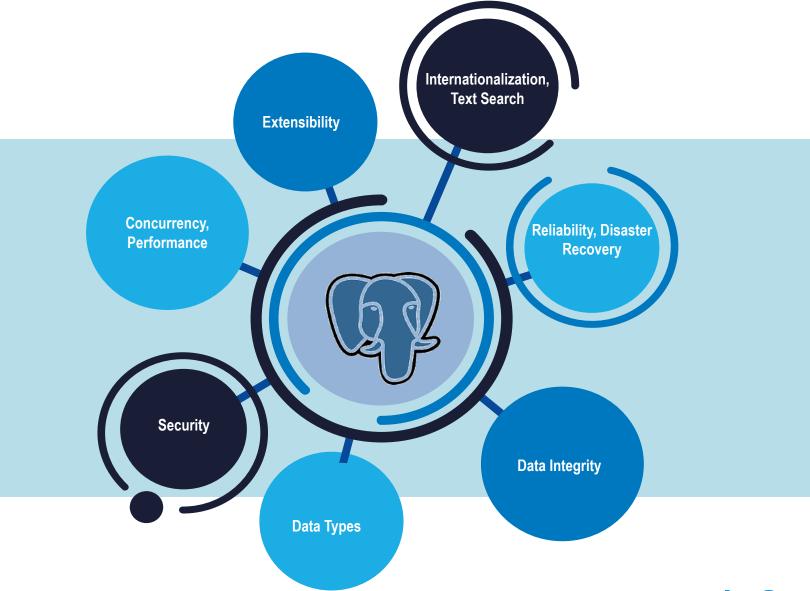


## OPEN SOURCE INNOVATION IS VERY STRONG IN THE DATABASE LAYER



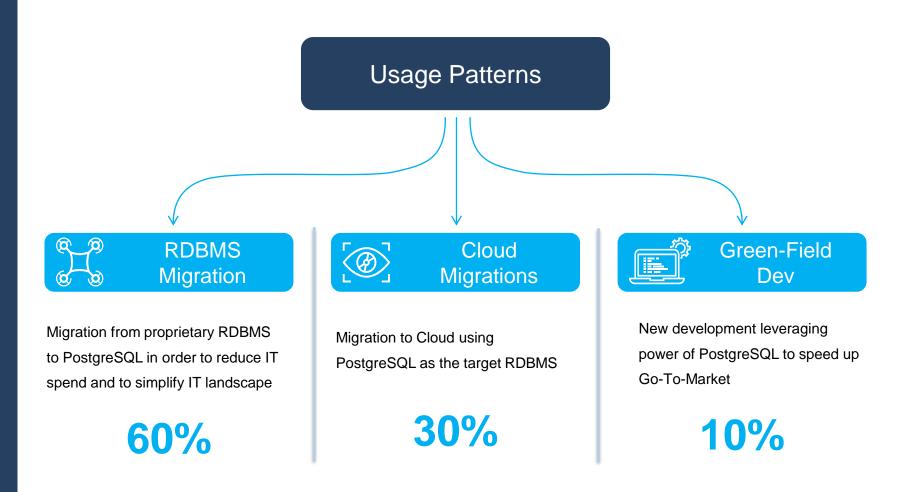


POSTGRES IS
PROPELLING
THE OPEN
SOURCE RDBMS
REVOLUTION
IN G2K
ENTERPRISES





## WE ARE SEEING THREE MAJOR PATTERNS IN G2K ADOPTION OF POSTGRES





## SOME KEY EXAMPLES



#### Asia-based financial services group

- Core banking application running on-prem with proprietary database
- Needed to be made cloud-native
- Implemented oeCloud version of Finacle

80%

Reduction in database licensing costs by moving to EDB Postgres



## SOME KEY EXAMPLES



#### High-speed broadband network provider

- Cloud migration for geospatial system that supports network planning
- Storage capacity size of data to be initially 4 TB with upper limit of 100 TB, Number of concurrent users ~550.

**500K AUD** 

Annual cost savings by choosing RDS Postgres

30%

Increase in performance of system



## SOME KEY EXAMPLES



#### Oilfield services company

- In-house system for monitoring oil rig performance
- Database centric application with extensive usage of Packages; Procedures; Functions; Triggers; Advanced Queues
- \$ 400K

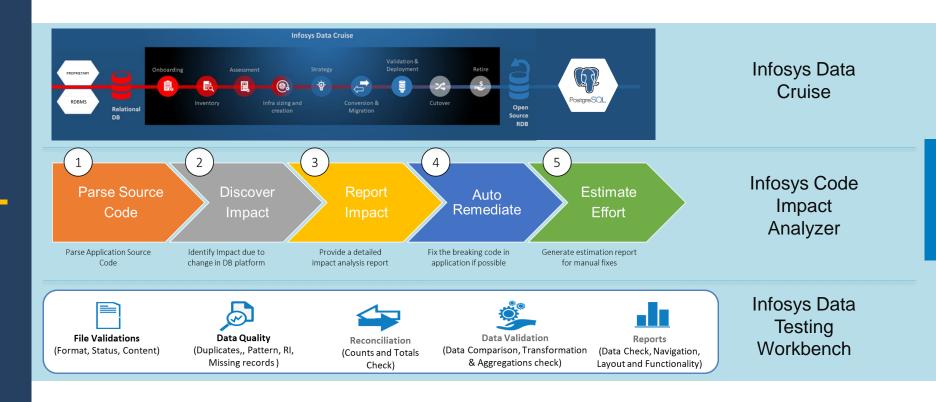
License cost savings per year on every instance of the application

**\$ 3M USD** 

Cost saving annually by enabling eventual movement to Cloud



# INFOSYS IS INVESTING HEAVILY IN TOOLS THAT HELP CLIENTS OVERCOME SOME OF THE BIGGEST HURDLES IN MOVING TO POSTGRES





AND OUR
PARTNERS
HELP SOLVE
SOME OF THE
OTHER
CHALLENGES



Who do I call at 2 AM?



Can I avoid the code conversion heavy lift?



What about Enterprise features like monitoring, failover and replication?





## OUR PROMISE TO OUR CLIENTS









# OPEN SOURCE MOVEMENT — A JOURNEY WITH ENDLESS OPPORTUNITIES



The trouble with the world is that the stupid are cocksure and the intelligent are full of doubt.

**Bertrand Russell** 



### THANK YOU

