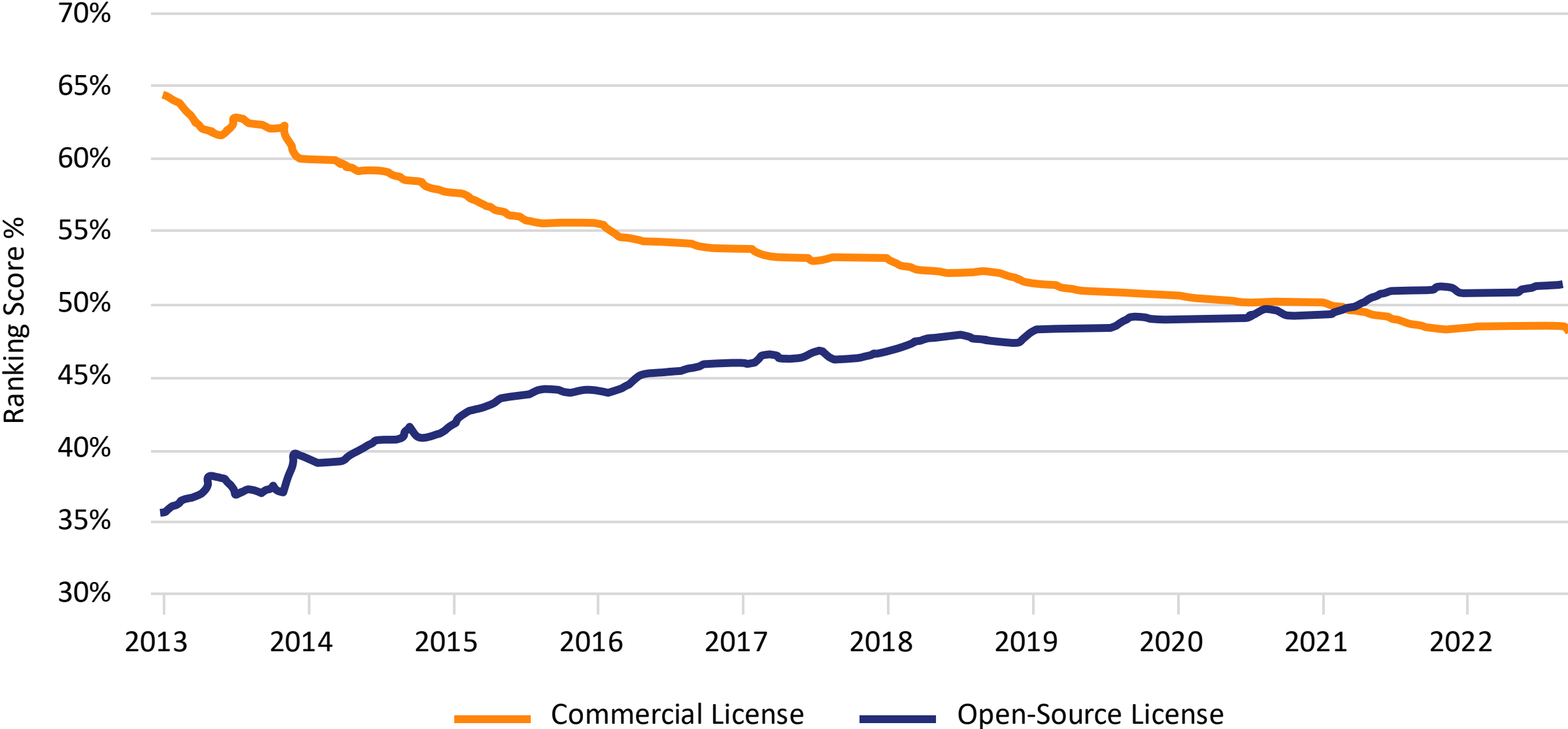


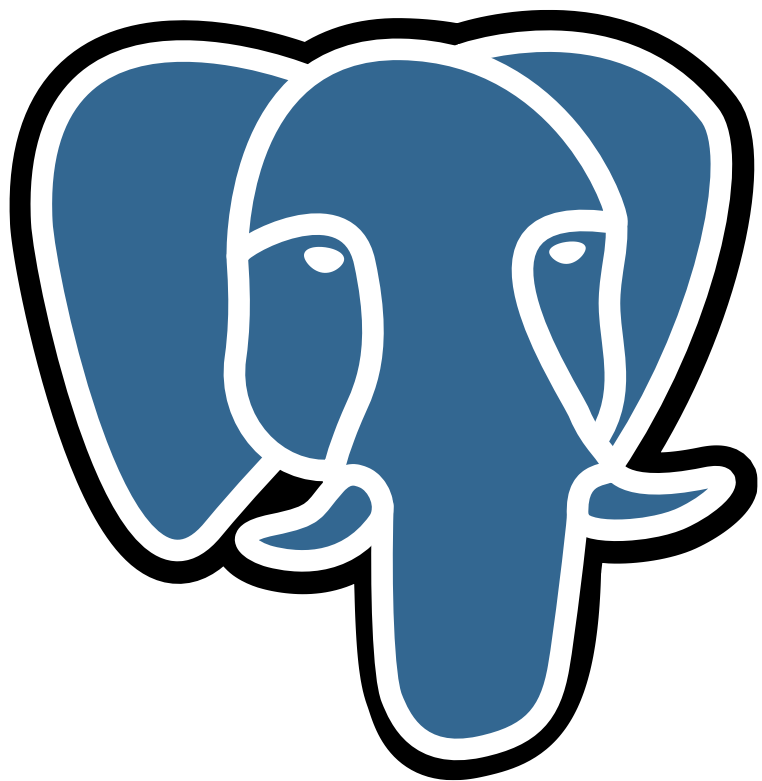
PGCONF.EU  
2024

## Lightning Talk

Migration Consideration:  
Oracle to PostgreSQL

# Open-source DB > 50% Market Share

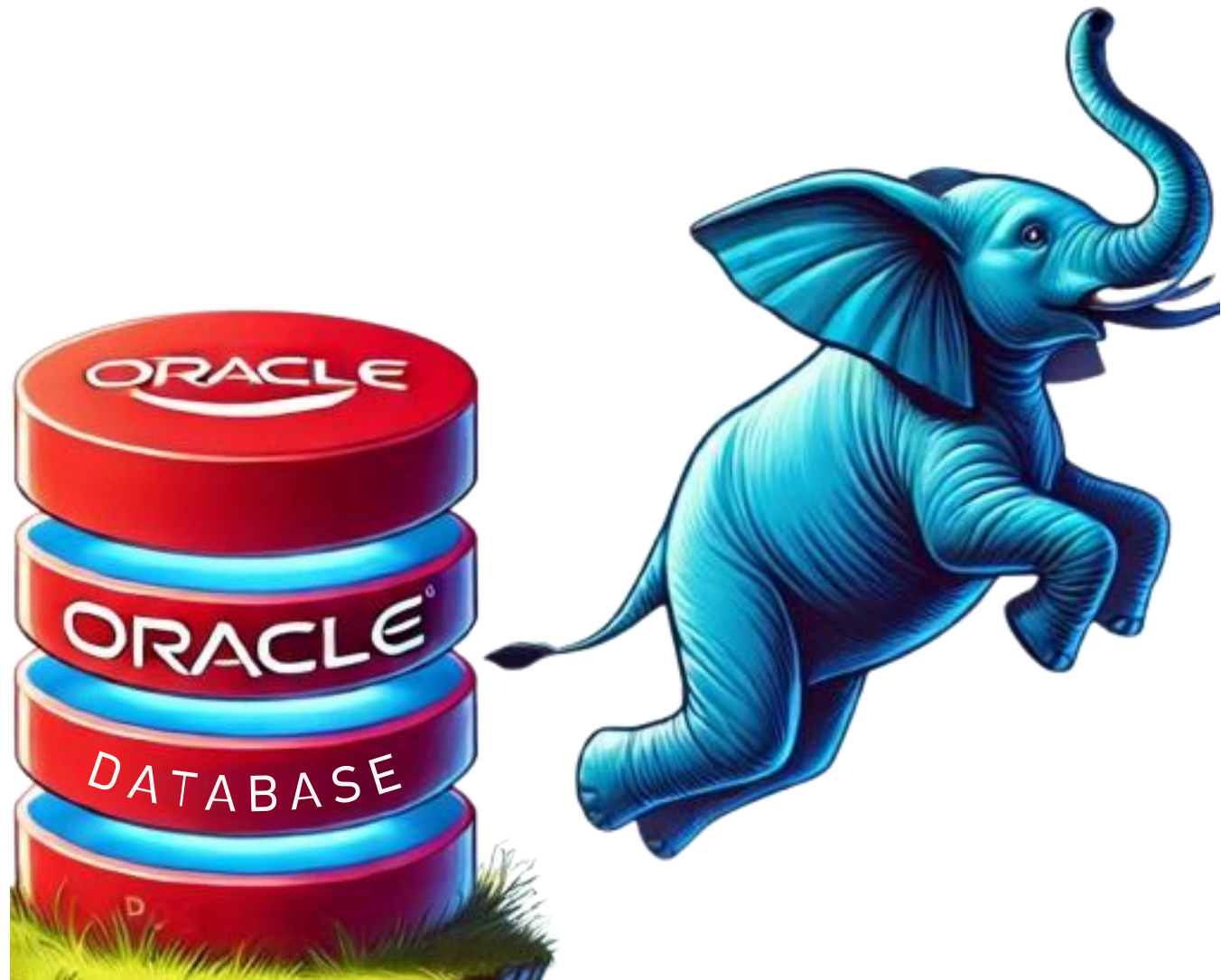




**How do I get to  
PostgreSQL?**

# Assessment

- How complex is the Oracle schema?
- What are schema dependencies?



# Schema Conversion

- How do I convert PL\*SQL?
- How do I certify my schema?

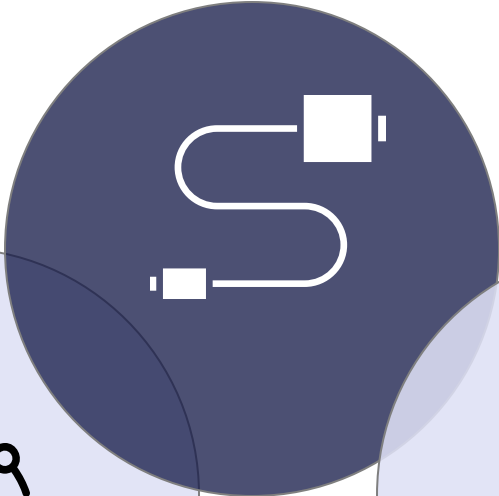
Oracle Objects/Features	Occurrence
Associative Array	310
Associative Array	2
Autonomous Transaction	24
Bulk Collect	103
DB Scheduler Jobs	2
Execute Immediate	1689
Forall	53
Goto	106
Nested Table	111
Package Global Variable	752
Pipelined Functions	2
Pivot Or Unpivot	161
Save Exceptions	2
Varray	45

Data Type (Oracle)	Data Type (Postgres)	Occurrences - # of columns
BLOB	Bytea	60
CHAR	Char	14451
CLOB	Text	40
DATE	Timestamp	20028
FLOAT	Numeric	22
LONG	Text	15
LONG RAW	Text	7
MY_TAB_T	User defined data type	1
NAME	User defined data type	1
NUMBER	Numeric	85152
NVARCHAR2	Character Varying	12
OBJ1	User defined data type	1
RAW	Bytea	63
ROWID	Oid	4
TIMESTAMP(6)	Timestamp	17
UROWID	Oid	1035
VARCHAR2	Character Varying	73540

# Data Migration

## CONVERT

Convert data into target environment data model



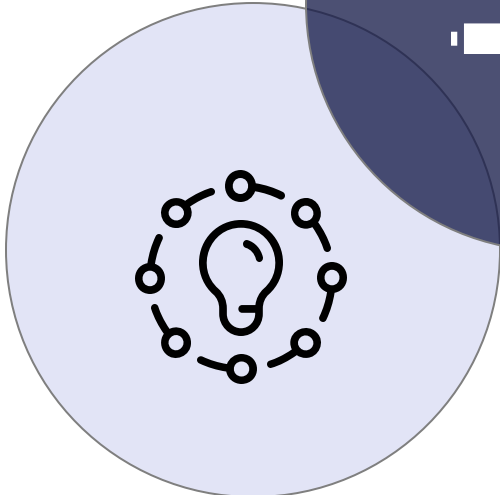
## TEST & OPTIMIZE

Confirm data accuracy & system performance



## GO-LIVE

Cut over to new system



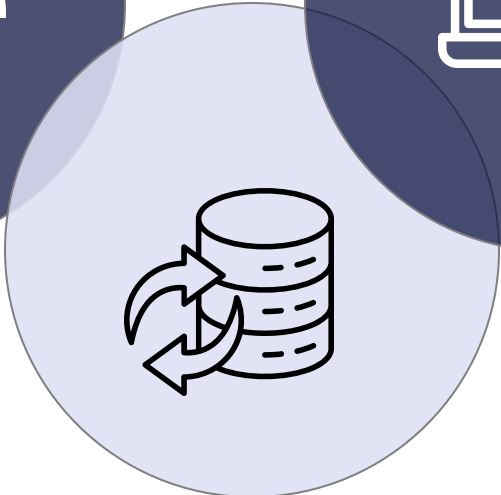
## DISCOVER

Inventory data source



## MIGRATE

Move data to staging environment



## SYNC

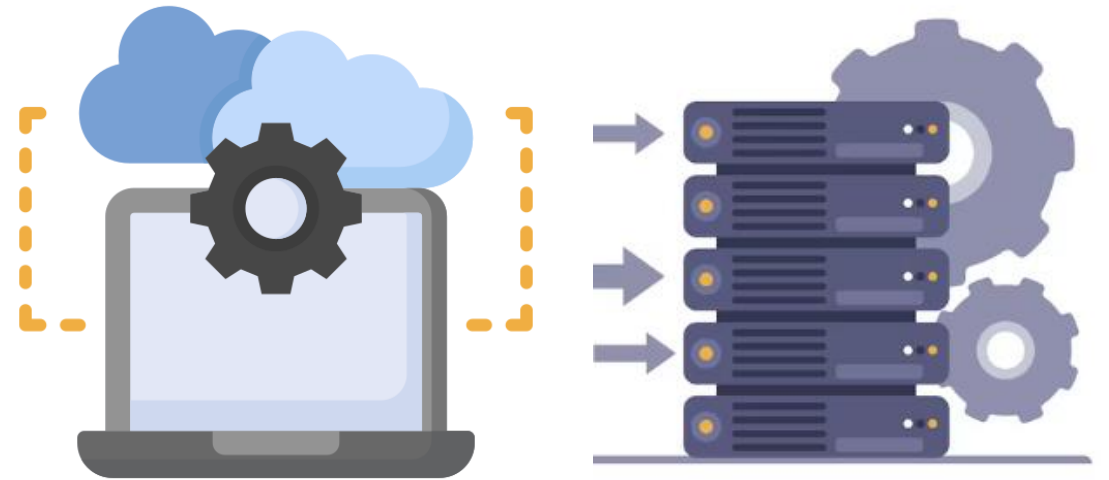
Sync live data with new environment

# Who Migrates without apps?

- Embedded SQL Remediation (Static + dynamic Queries)
- Data Type Changes
- Procedure Changes
- Input/Output changes



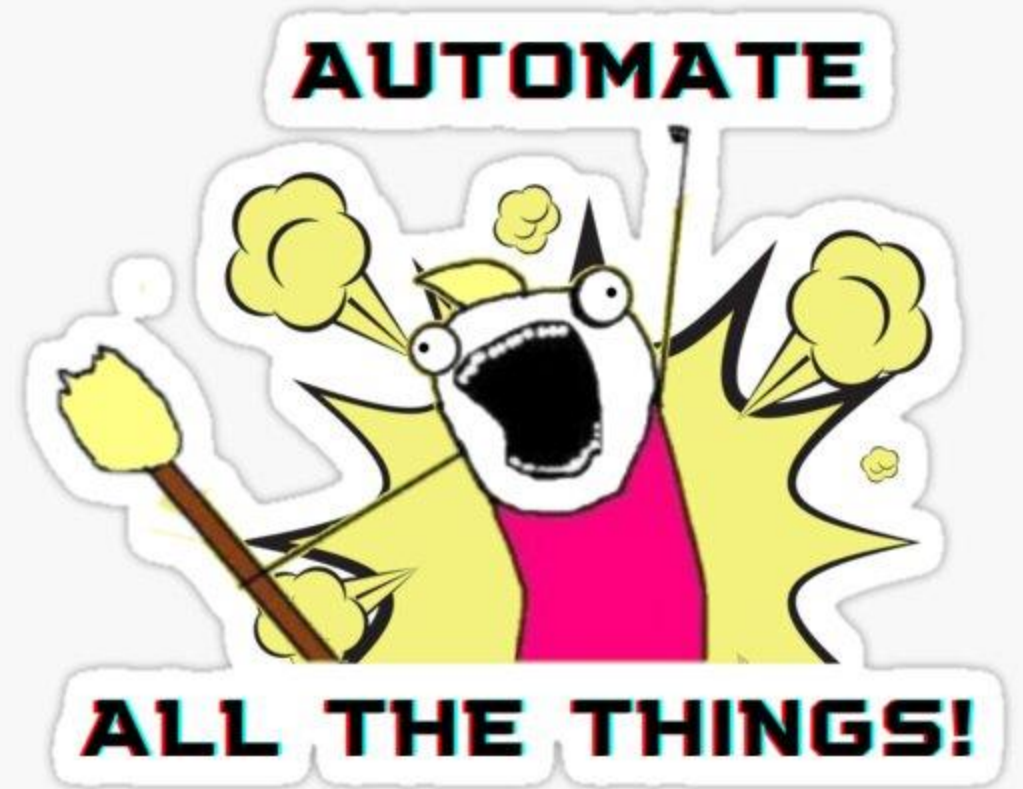
# Let's not forget interfaces, upstream/ downstream jobs



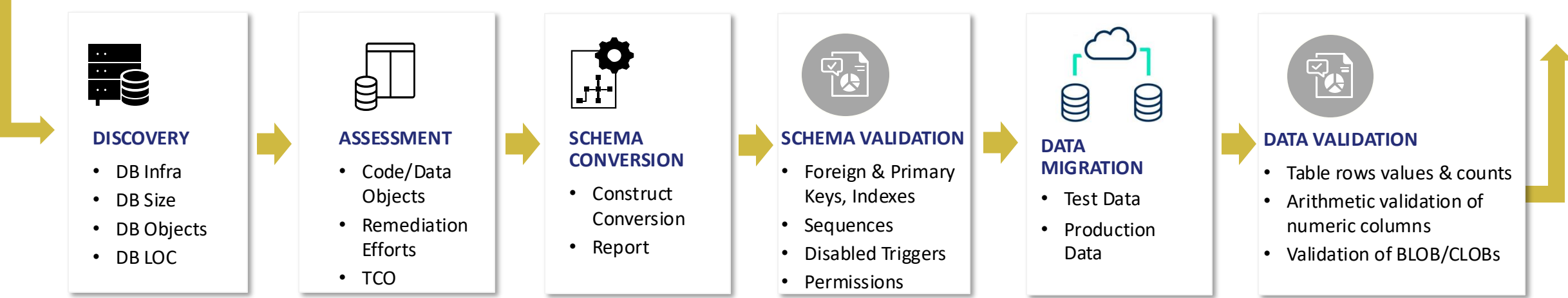
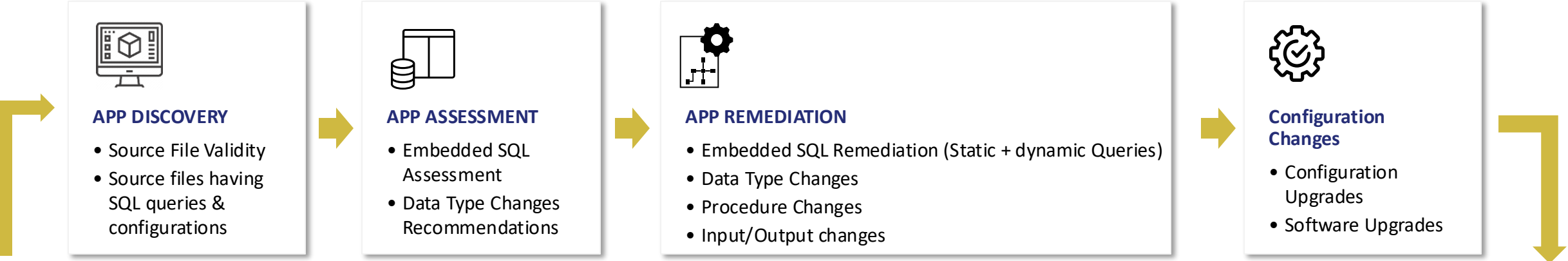
**Embedded SQL** every where!!



Only Way



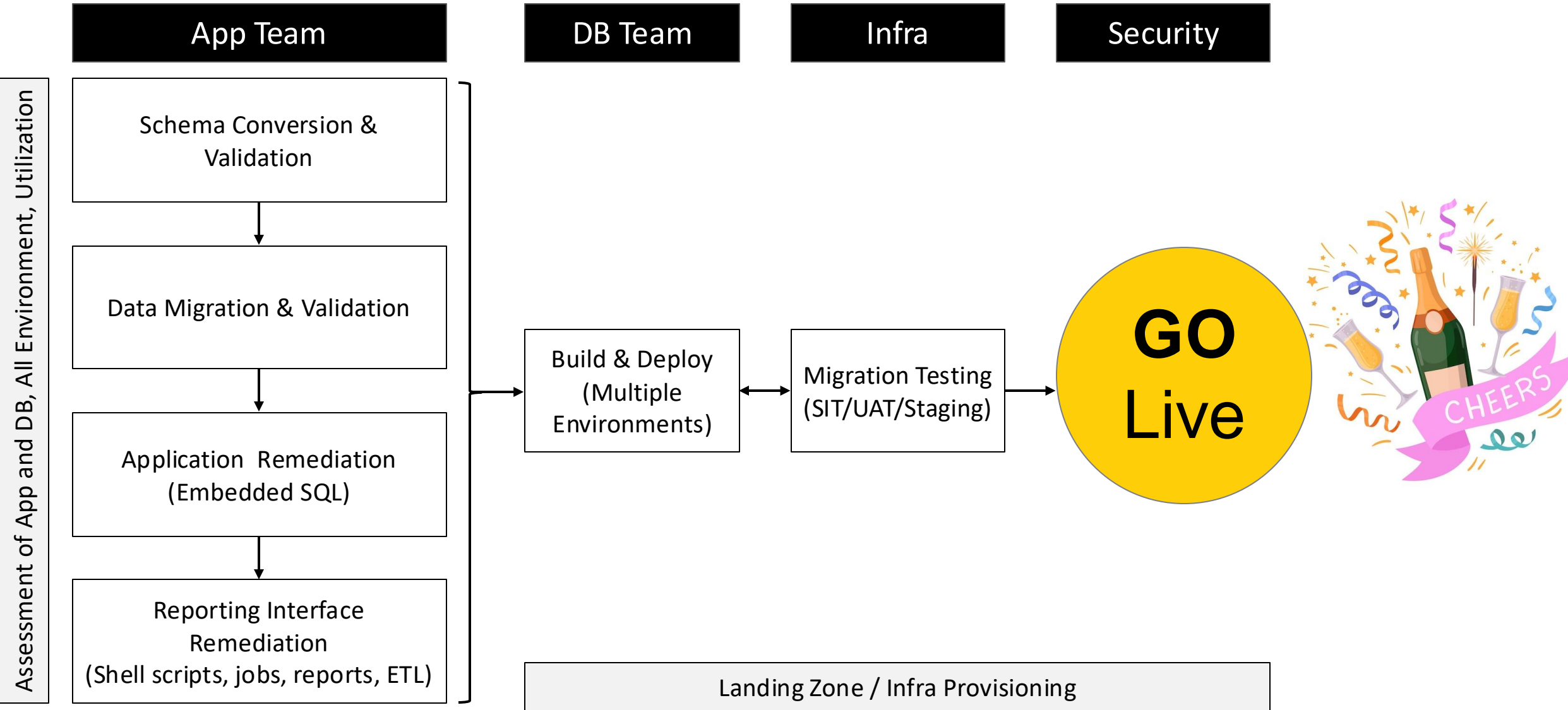
# Automation at Every Stage at Scale





**Do I Look Like a Guy with a Plan?**

# Get yourself a Cloud Migration Cockpit



# Migrate to PostgreSQL with DMAP

Faster. Better. Smarter.



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