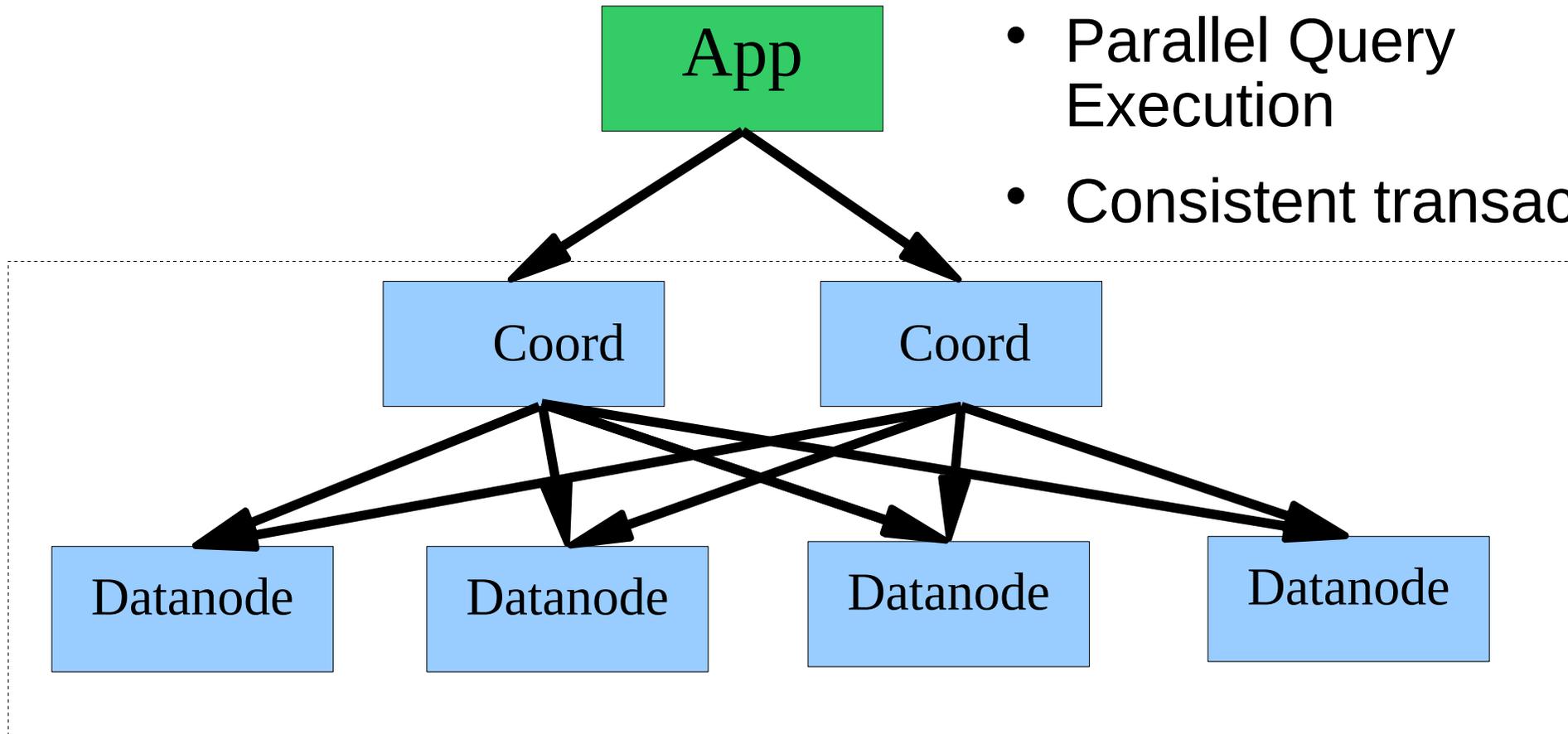**2ndQuadrant®**
**Professional PostgreSQL**

# Postgres-XL Overview

**Pavan Deolasee**

# **Postgres-XL**

- Single system image
- Multiple datanodes and coordinators
- Parallel Query Execution
- Consistent transactions
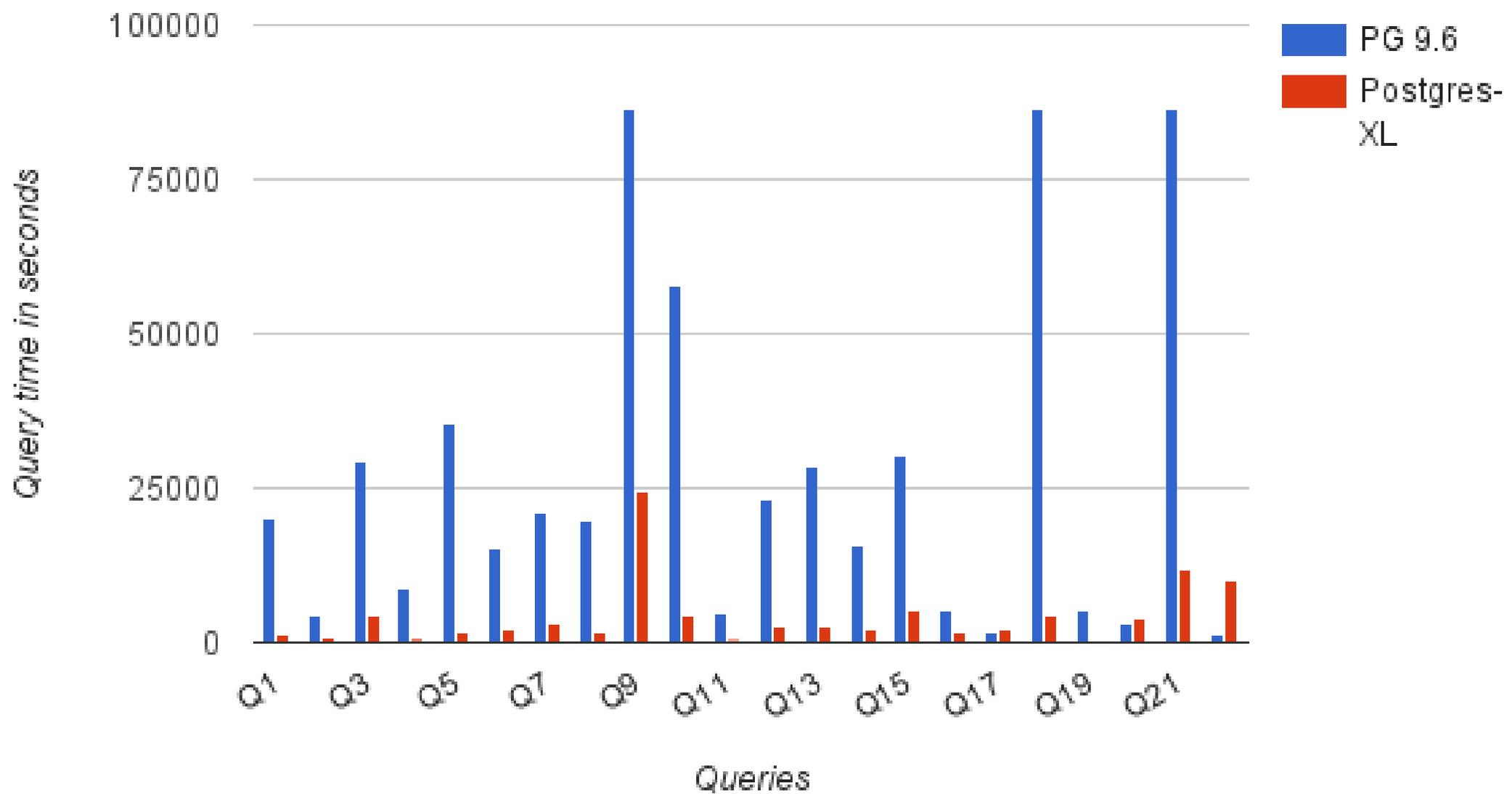
# **Users**

- China – TenCent

- Europe – European Space Agency

- US - Javelin

# **AXLE**

- Updating XL9.2 to XL9.5, allowing full use of BI features in PG9.5

- Releasing some additional Extensions that work with both PG9.5 and XL9.5

- Formal testing

- Benchmarks to show performance gains
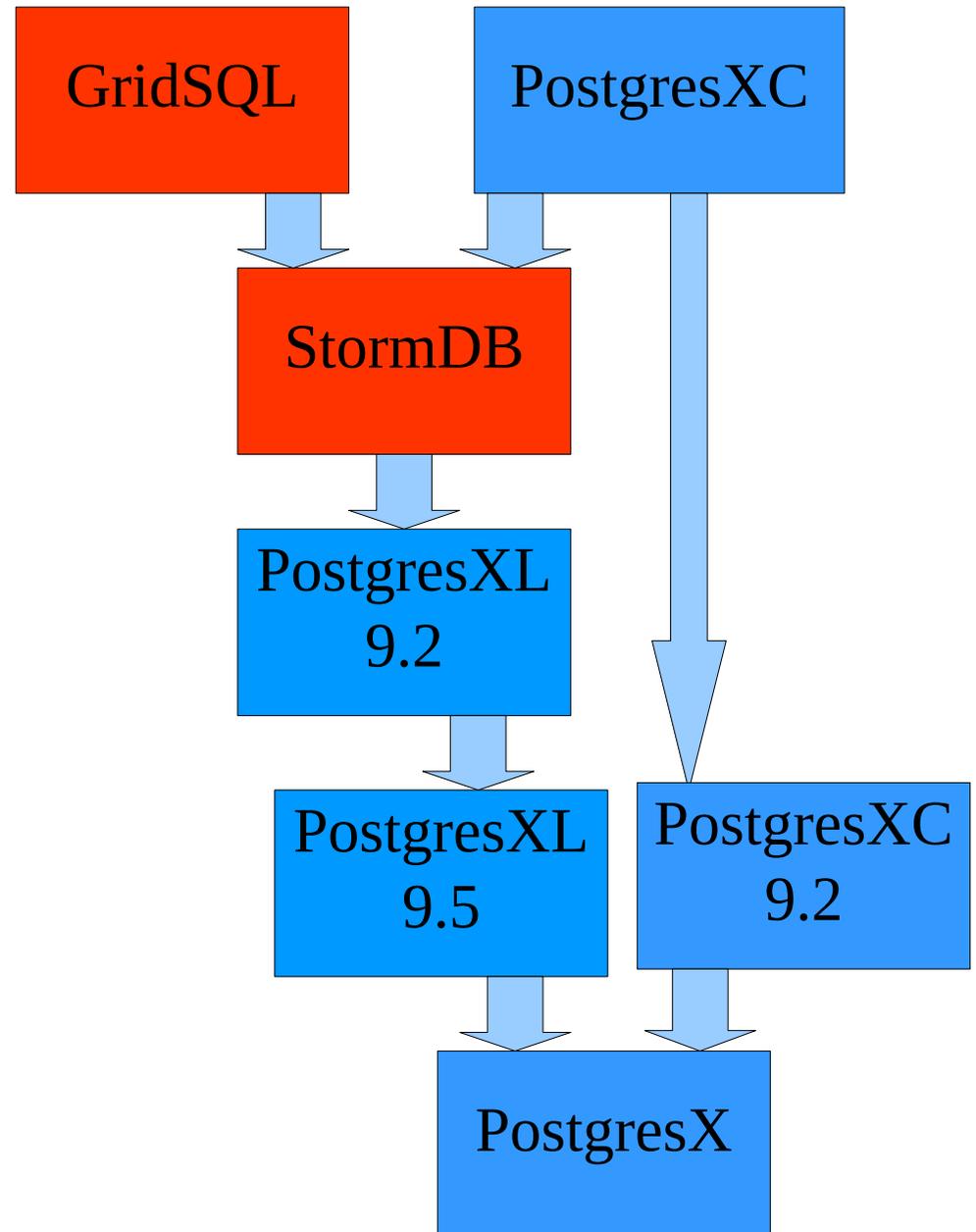
PG 9.6 and Postgres-XL - 3TB TPC-H

# Tests & Results

- 3TB (10TB including indexes) TPC-H test database

- Amazon AWS EC2
    - 16 datanodes (4 CPUs, 32GB RAM)
    - 1 coordinator

- "Average" x6.4 times faster on XL

- >50% of queries x10 faster

- Proves linear scalability of typical user queries

# History

- GridSQL

- StormDB

- PostgresXC – open source

- Translattice – open sourced XL code – thanks!

- X Group – open source governance

# 2ndQuadrant

- PostgresXL 9.5 release is PG+1, currently Jan2016

- Fully open source

- Fully supported by 2ndQuadrant Gold Support for 5 years from release

- Solution:   XL Now

- Future:     PostgreSQL core

- Strategy:  Incremental delivery via Community