# From Source Code to Source of Truth: 30 Years of Open Source Database Evolution

Alkin Tezuysal – Oracle ACE Pro Director of Services @ Altinity FOSS 2025 Chernihiv University - Oct'25

## About

#### Alkin Tezuysal

Director of Services @AltinityDB Open Source Database Evangelist



#### LinkedIn

linkedin.com/in/askdba/



@ask DBA

#### Previously

ChistaDATA, PlanetScale, Percona and Pythian as Senior Technical Manager, SRE, DBA

#### Earlier in Life

Enterprise DBA , Informix, Oracle, DB2 , SQL Server

#### Recent Recognitions:

Most Influential in Database Community 2022 - The Redgate 100 MySQL Cookbook, 4th Edition 2022 - O'Reilly Media, Inc. MySQL Rockstar 2023 - Oracle (MySQL Community)

Database Design and Modeling with PostgreSQL and MySQL 2024 - <Packt>

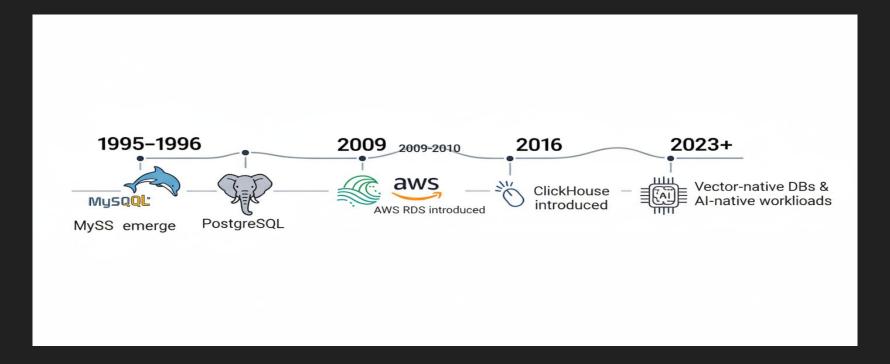
Oracle ACE Pro 2025 - Oracle

Avid sailor who works and authors at @svrubato





## The Journey So Far



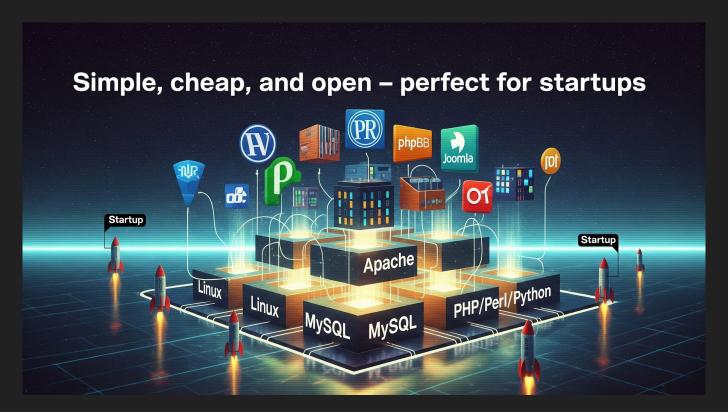
## Open Source Reshaped Data



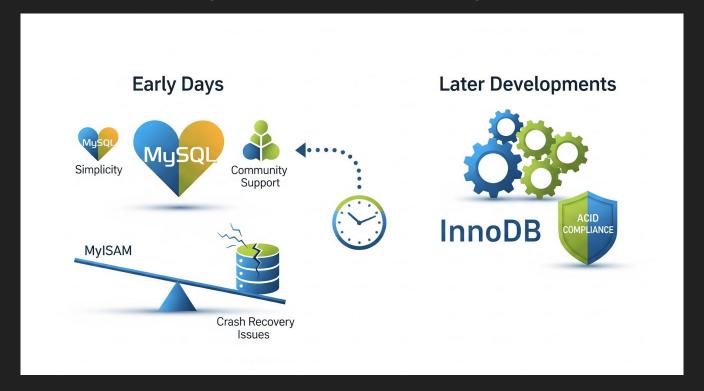
### 1990s: The Relational Foundation



## The LAMP Stack Era



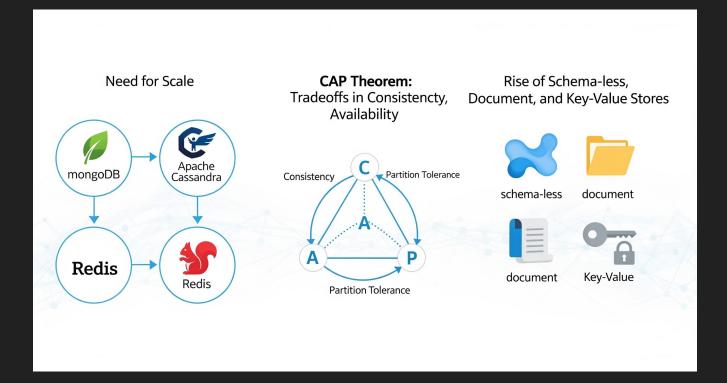
## Developer-First, Ops-Later



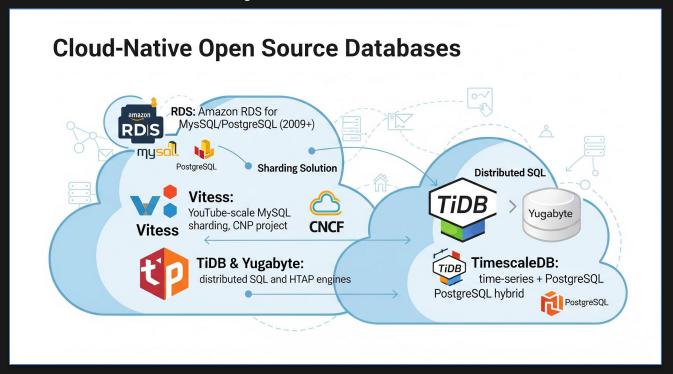
## PostgreSQL: The Silent Giant

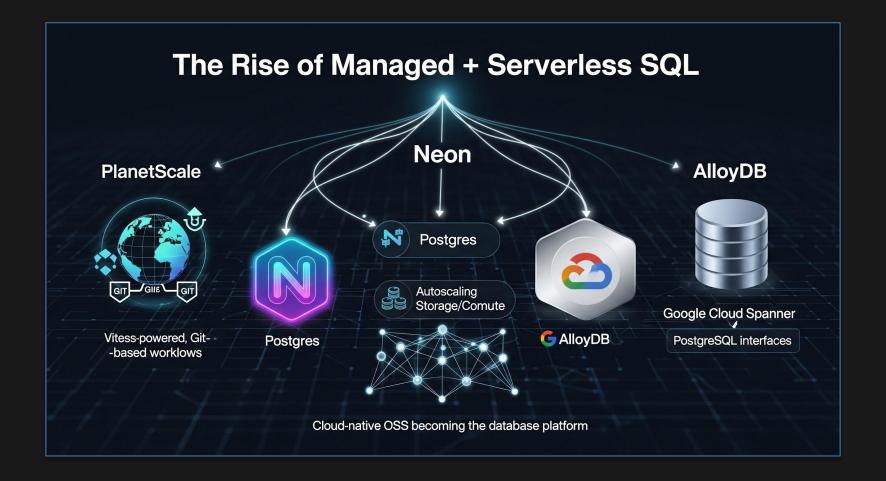


## The NoSQL Wave

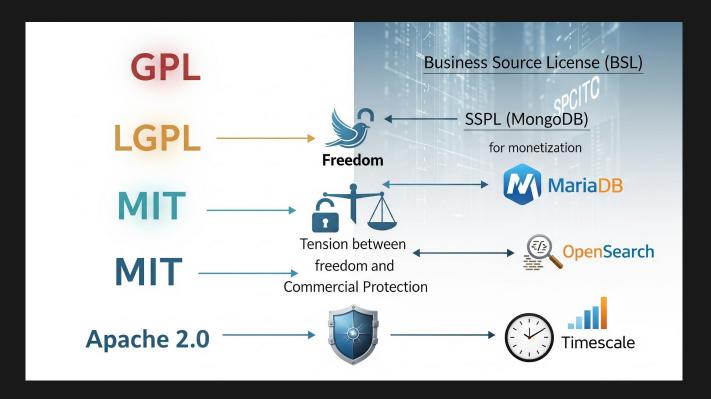


## Cloud-Native Open Source Databases

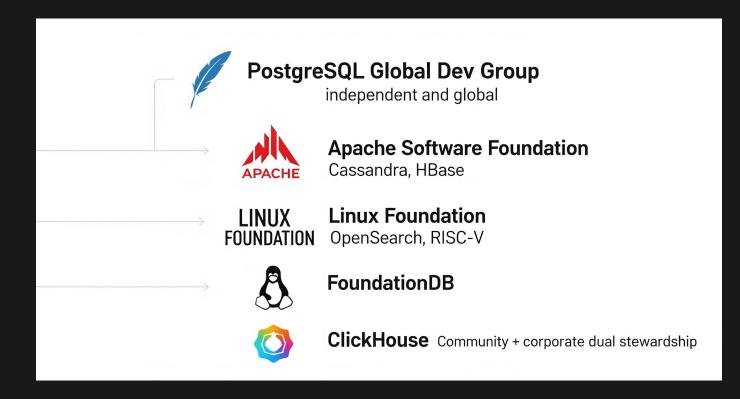




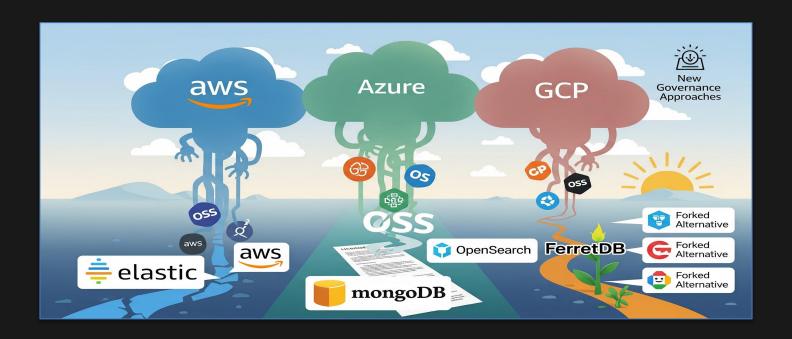
#### Licensing Models in Open Source Databases



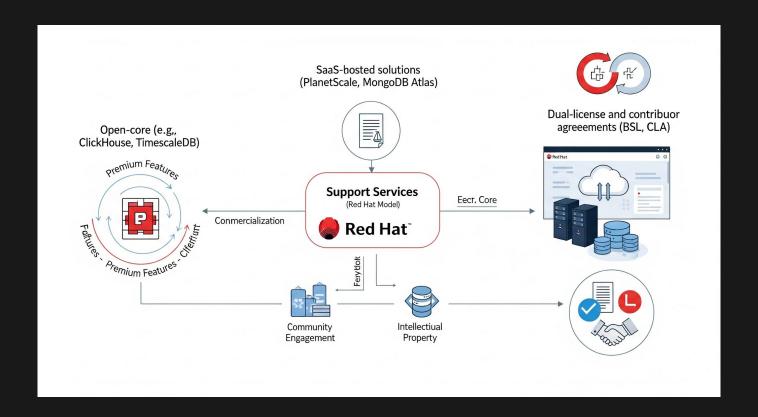
#### Open Source Governance & Foundations



#### The Cloud Effect on Open Source



#### **OSS Business Models Evolve**



#### Future-Proofing Open DB Ecosystems



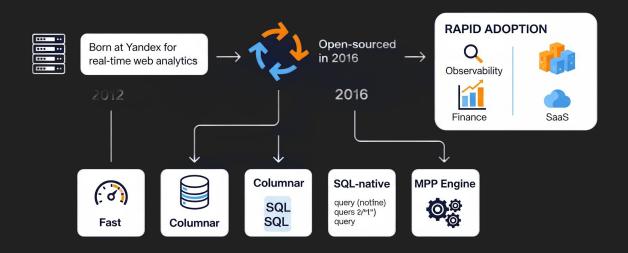
## Open Source Divergence



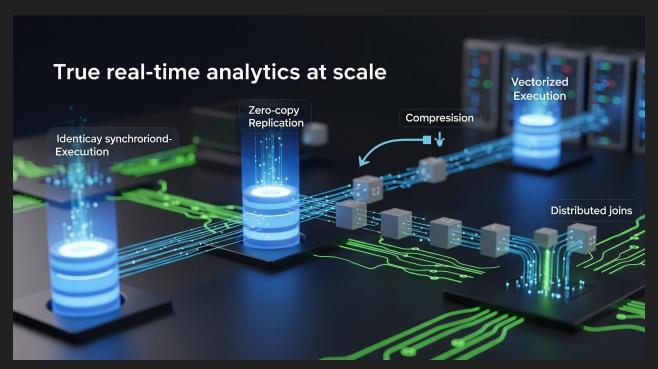
## What Changed? Cloud & Scale



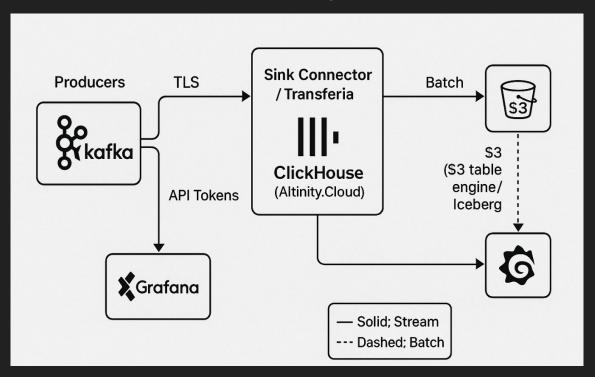
## The Rise of ClickHouse



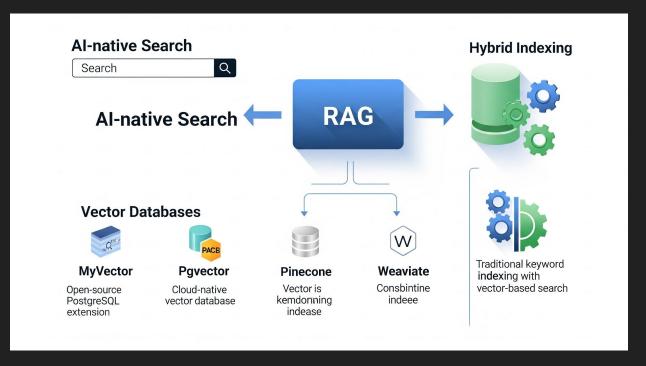
## Why ClickHouse Changed the Game



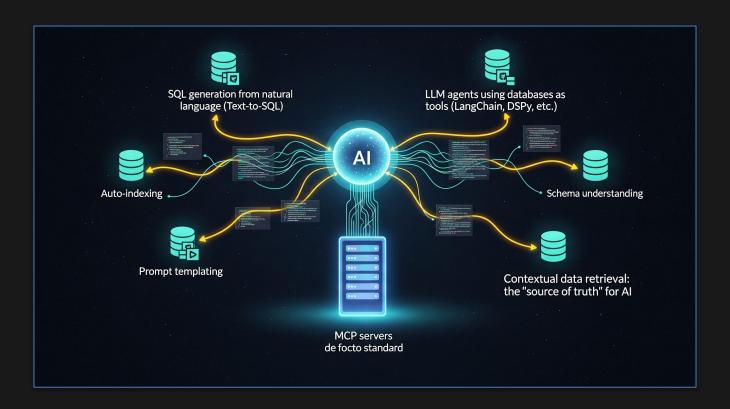
## The Modern Analytical Data Stack



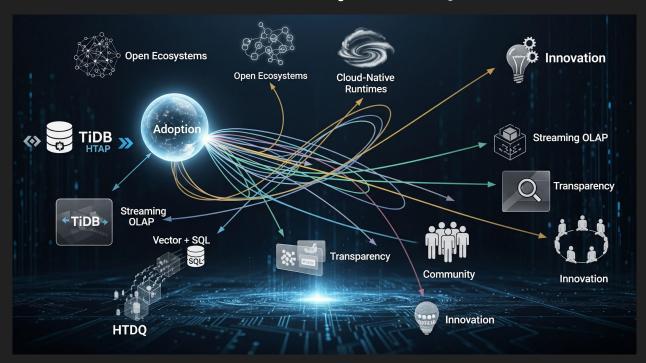
## What's Next: AI & Vector-Native Workloads



## LLMs Meet the Database

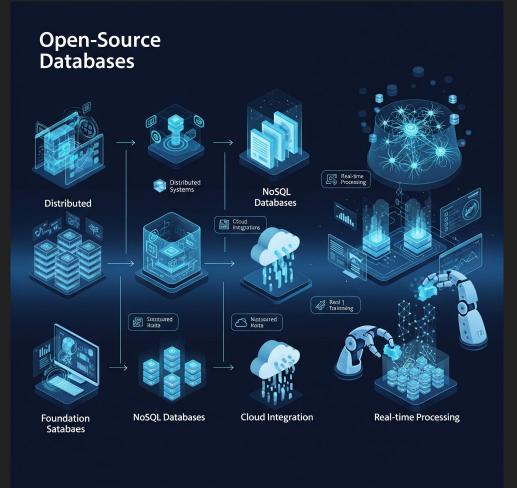


## The Future is Open (and Fast)



#### Key Takeaways

- Presentation traces open source database evolution
- Explores impact on data and Al systems
- Highlights key eras and technological shifts
- Emphasizes open governance and community



## Thank You