

An aerial photograph of a city at sunset. The sky is filled with soft, golden light and scattered clouds. In the foreground, a complex highway interchange with multiple overpasses and ramps is visible, with light trails from cars creating streaks of white and red. The city below is densely packed with buildings, including many multi-story apartment complexes. The overall scene is bathed in the warm, golden glow of the setting sun.

Presto

XLDB Lightning Talk – 5/24/2016

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TERADATA.



# What is Presto?

- Open source distributed SQL query engine
- Designed and written from the ground up for interactive analytical queries
- Scales to the sizes needed by organizations like Facebook
- Query data where it lives
- Hadoop Distribution agnostic
- Extensible



U B E R

**GROUPON™**



**facebook.**



**NASDAQ®**

**NETFLIX**

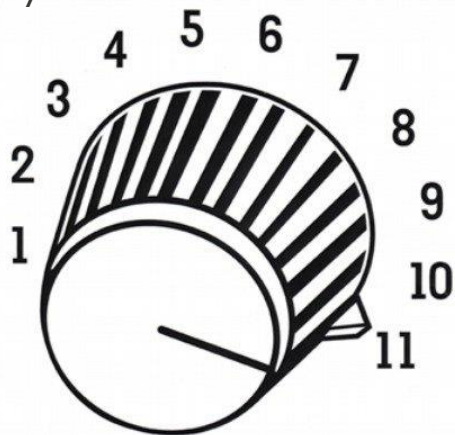


**Linked in**

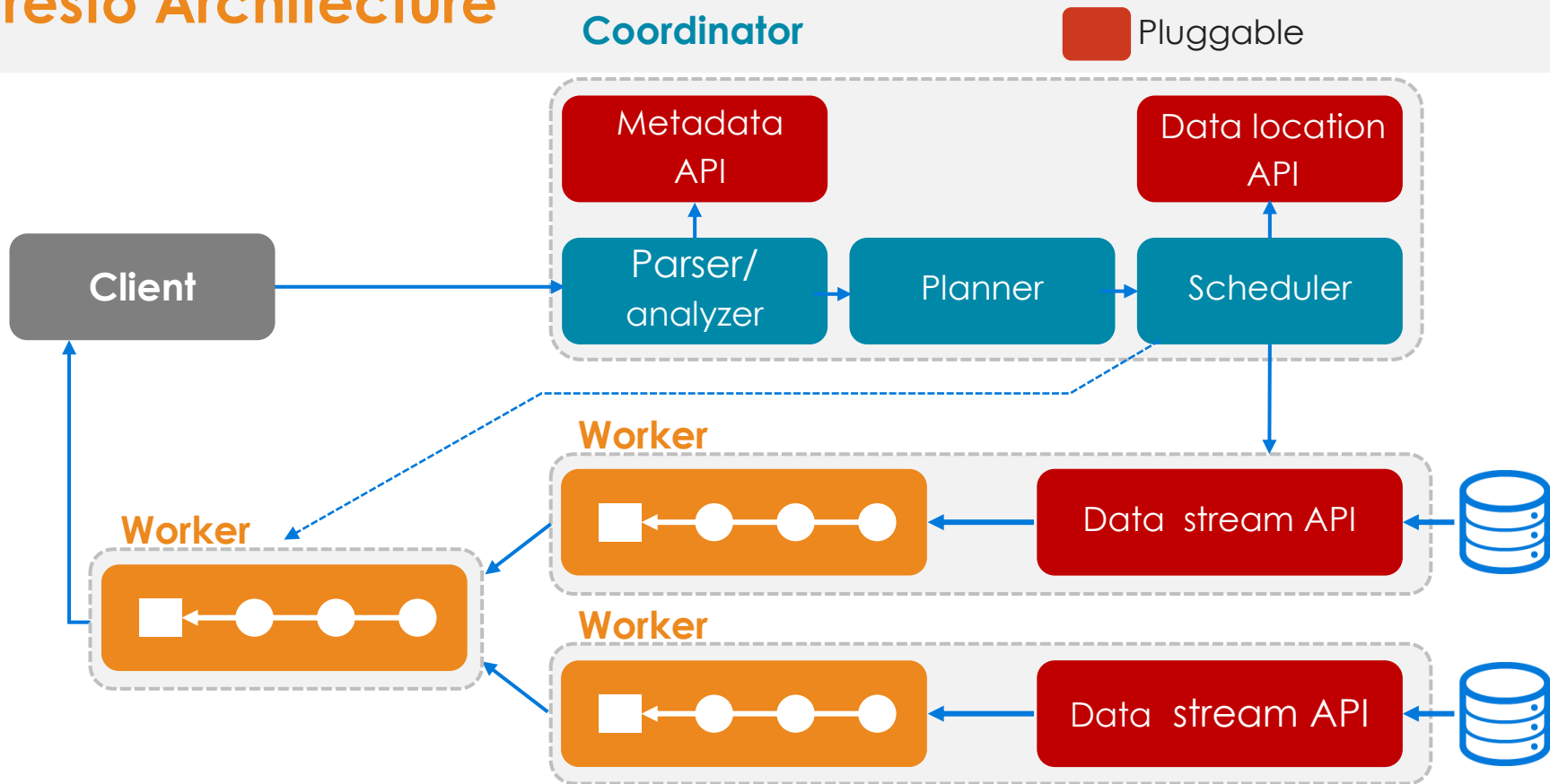


# Presto = Performance

- Horizontal scale out
- Query execution is pipelined throughout memory
- Vectorized columnar processing
- Optimized data source readers (e.g. ORC)
- Presto is written in highly tuned Java
  - Efficient in-memory data structures
  - Very careful coding of inner loops
  - Bytecode generation

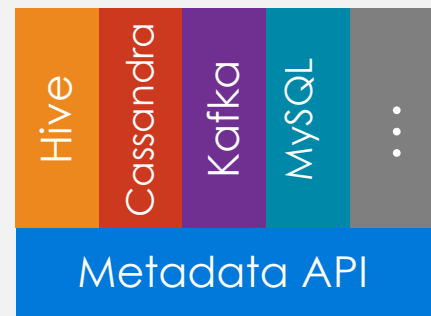


# Presto Architecture

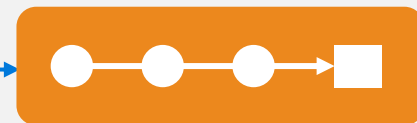


# Presto Extensibility – Connectors

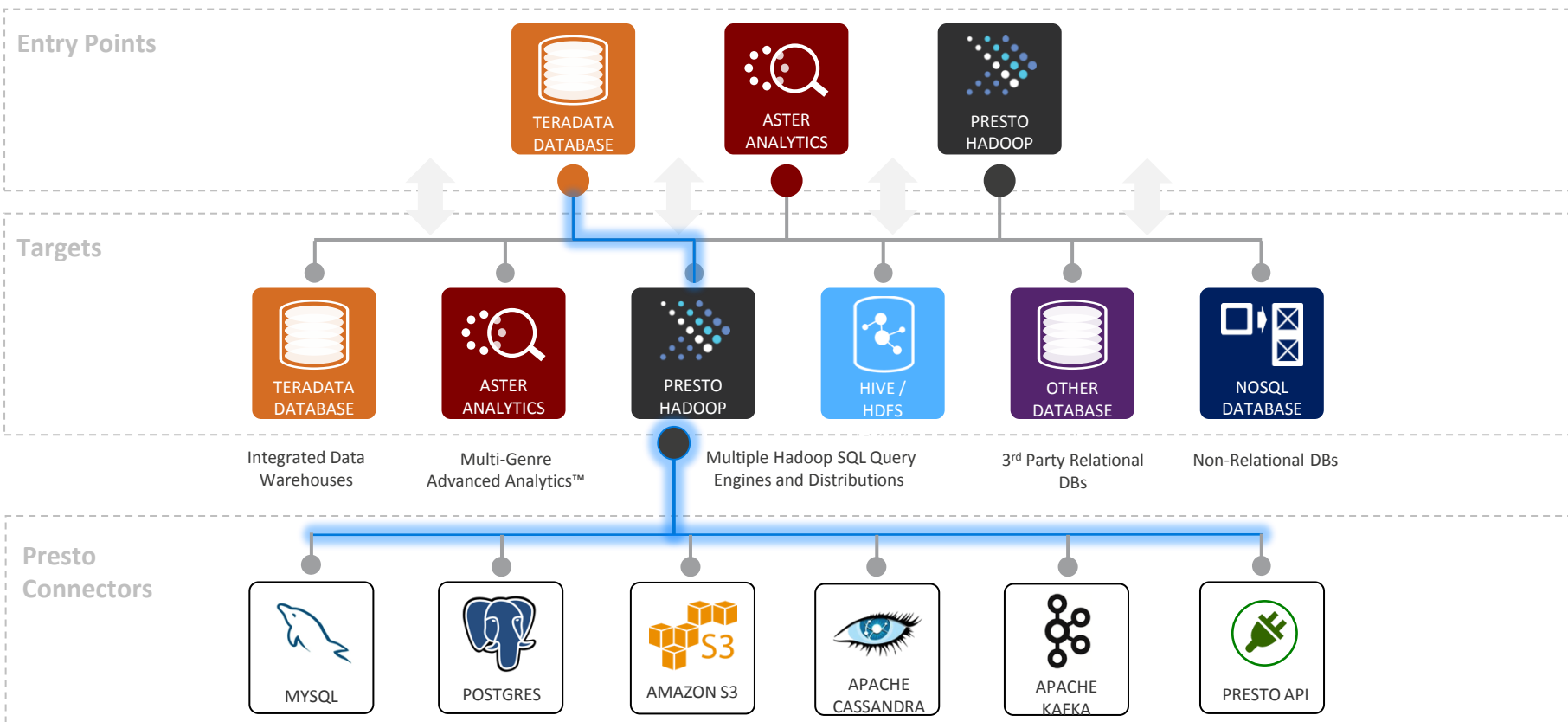
## Coordinator



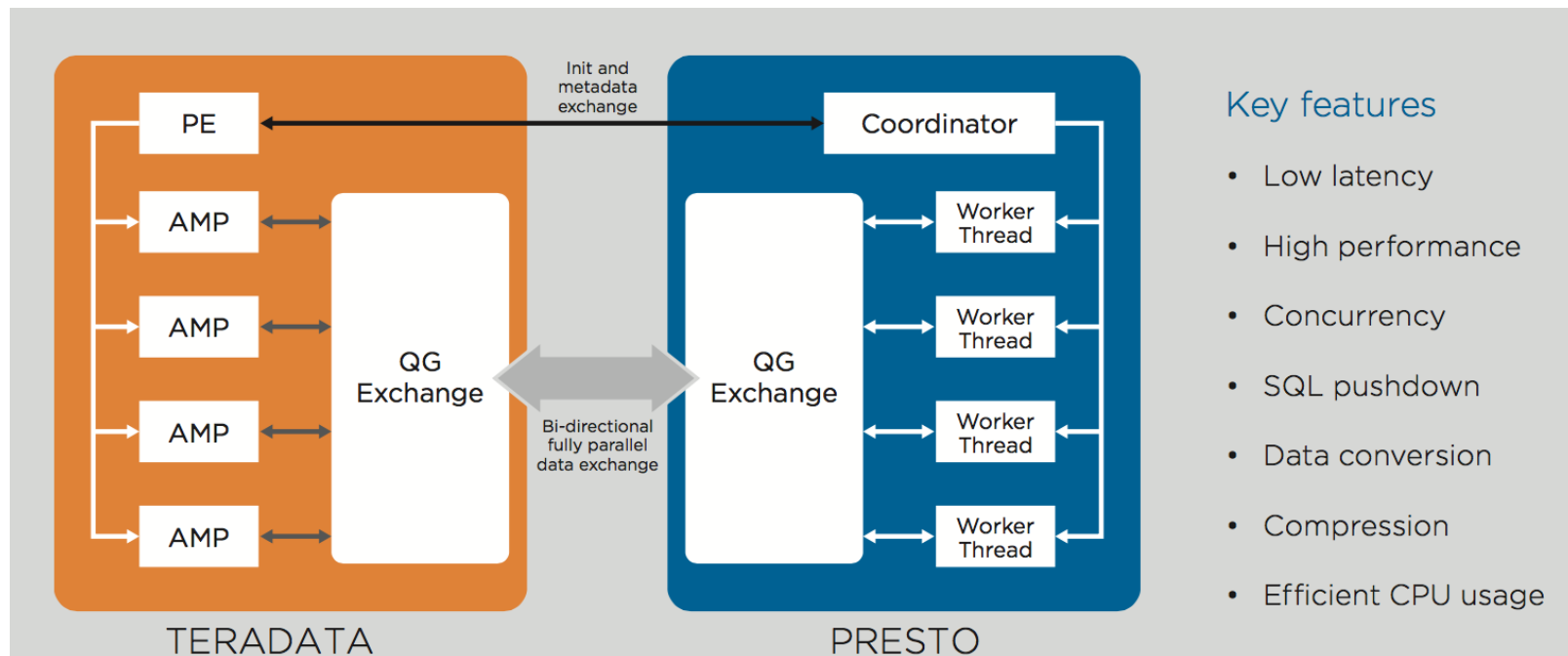
## Worker



# Teradata QueryGrid™



# Presto-to-Teradata & Teradata-to-Presto





# Teradata & Presto



- **100% open source contributions** to Presto to increase adoption in the enterprise
- A **multi-year roadmap** commitment to enhancements of the open source code
- The first ever commercial **support offering** for Presto
- **Providing** ODBC / JDBC drivers to the community
- Driving **Business Intelligence** tool integrations
- **Query Grid** connectivity

# Contributing!

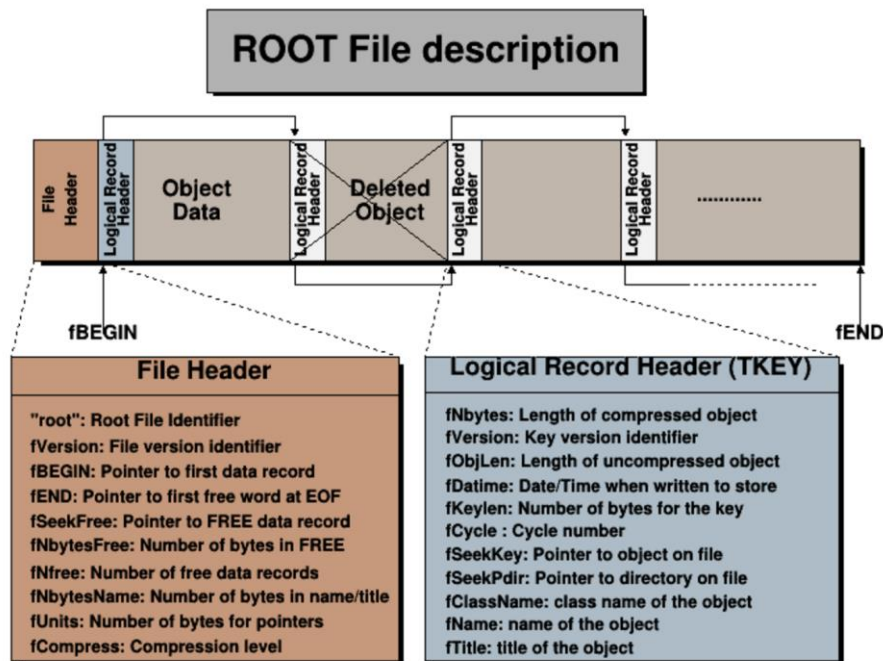
- Github, Presto users group, IRC, Twitter, Facebook
- <https://prestodb.io/community.html>
- <https://github.com/prestodb>
- <https://github.com/Teradata>



# Presto to Query Scientific Data?

- Let's make a connector for scientific data!

e.g. <https://root.cern.ch/doc/master/classTFile.html>



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