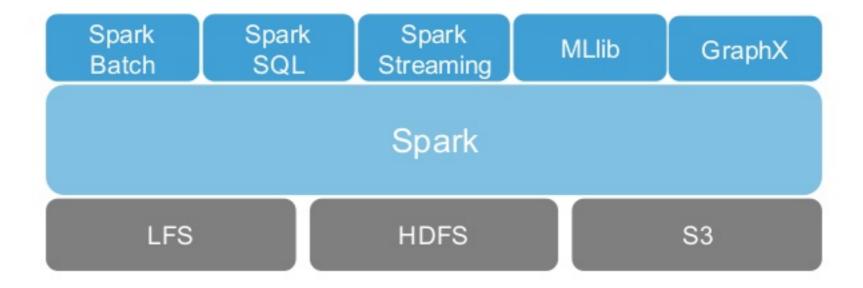


INTEROPERATING A ZOO OF DATA PROCESSING PLATFORMS

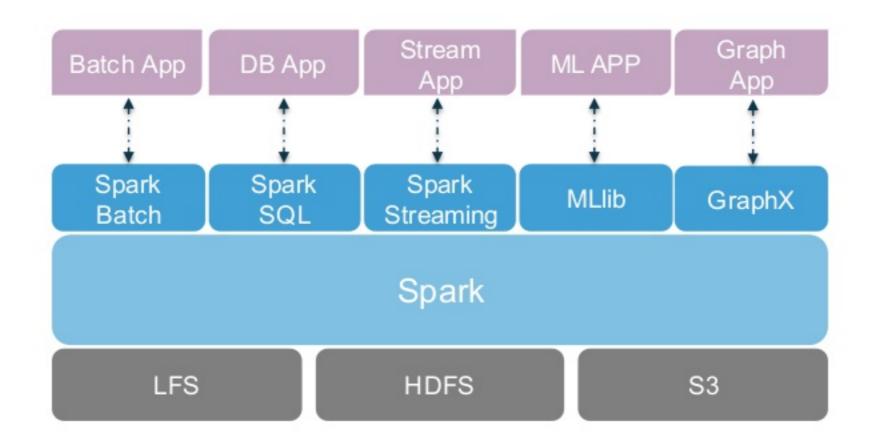
YASSER IDRIS, SEBASTIAN KRUSE

Spark Stack





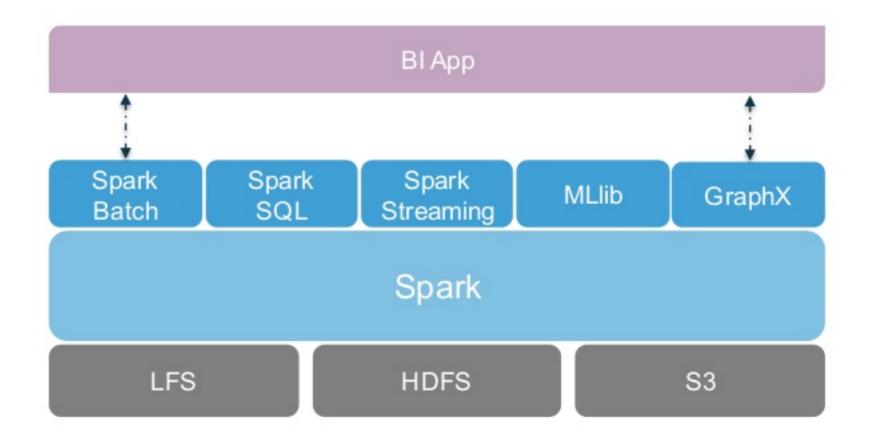
Apps On Spark





Beyond a Single Platform

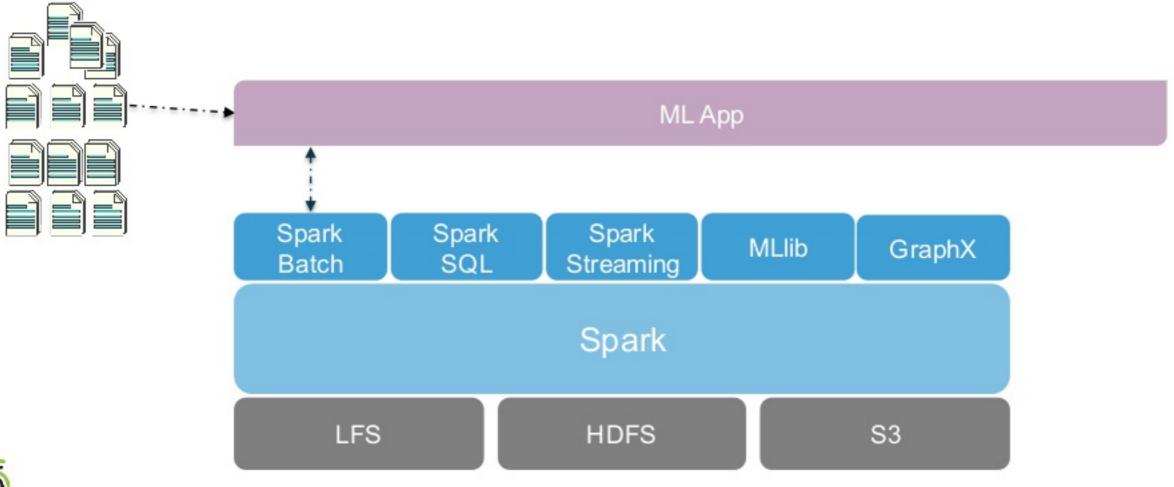
Complex Apps





Beyond a Single Platform

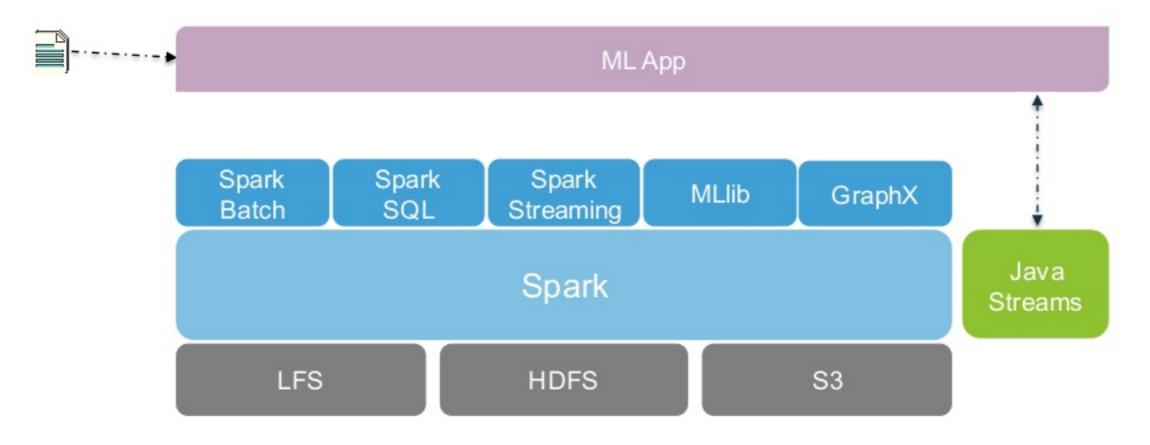
Big vs. Small Data





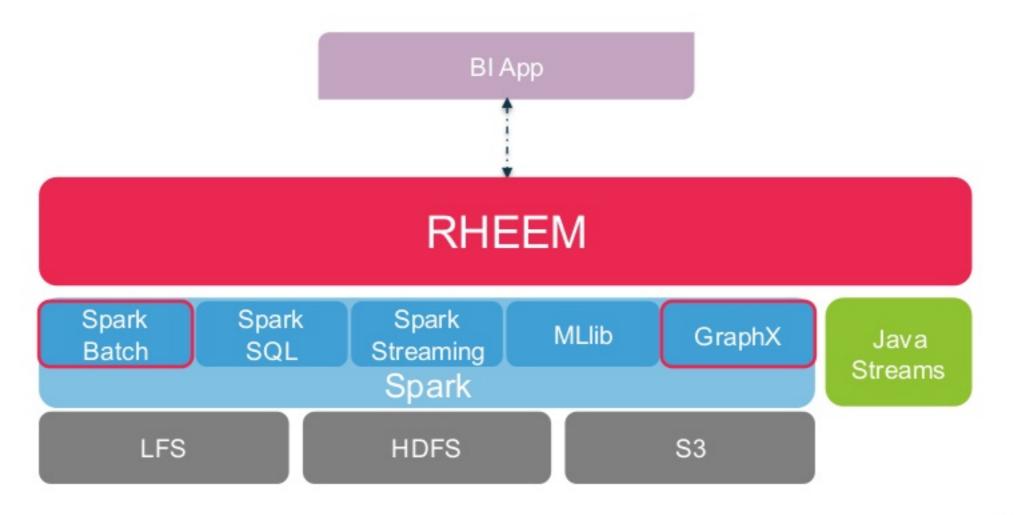
Beyond a Single Platform

Big vs. Small Data





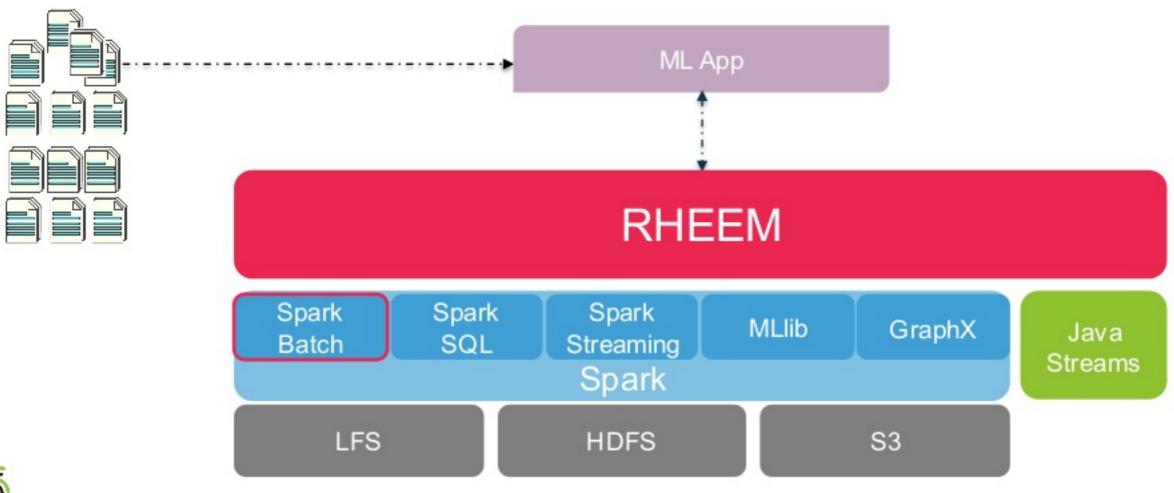
RHEEM Complex Apps





RHEEM

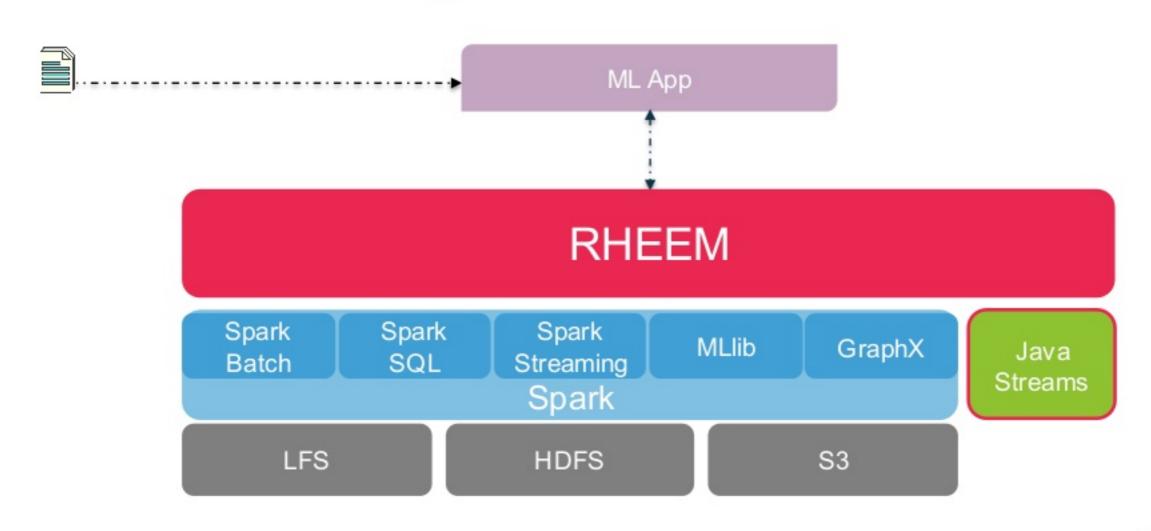
Big vs. Small Data





RHEEM

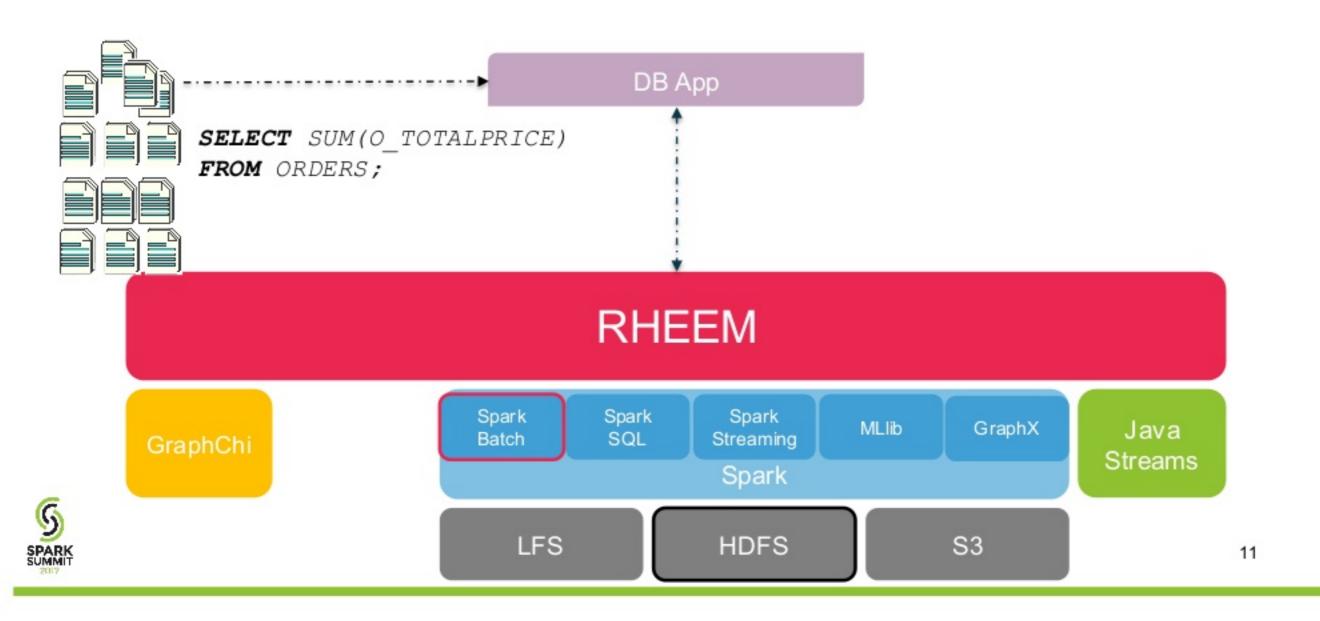
Big vs. Small Data

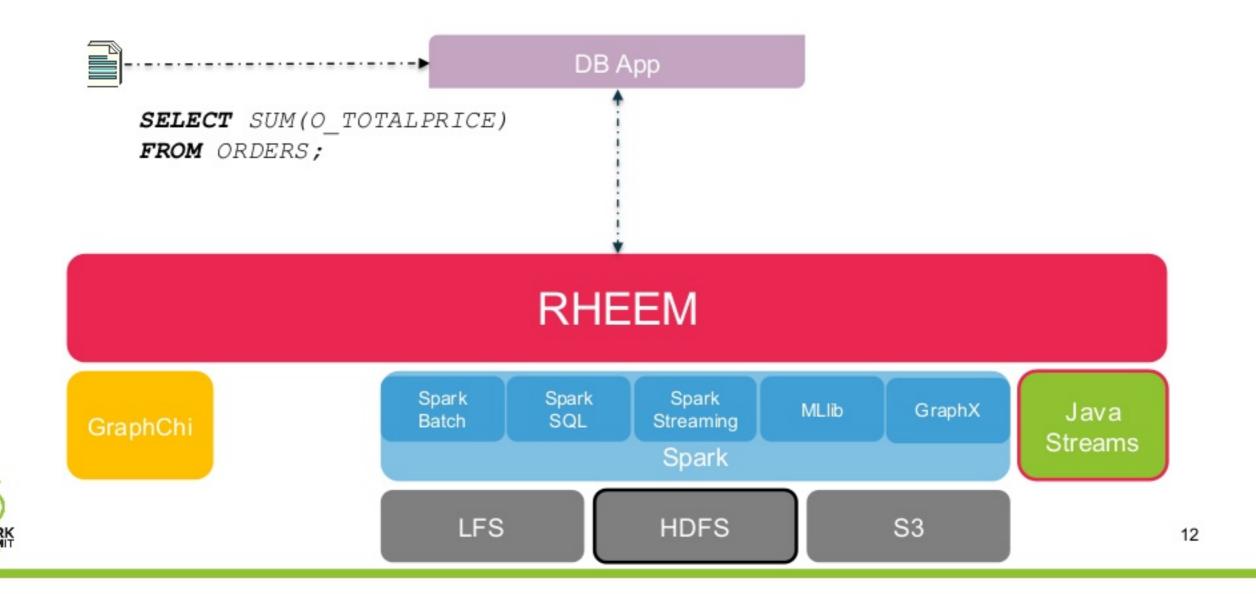


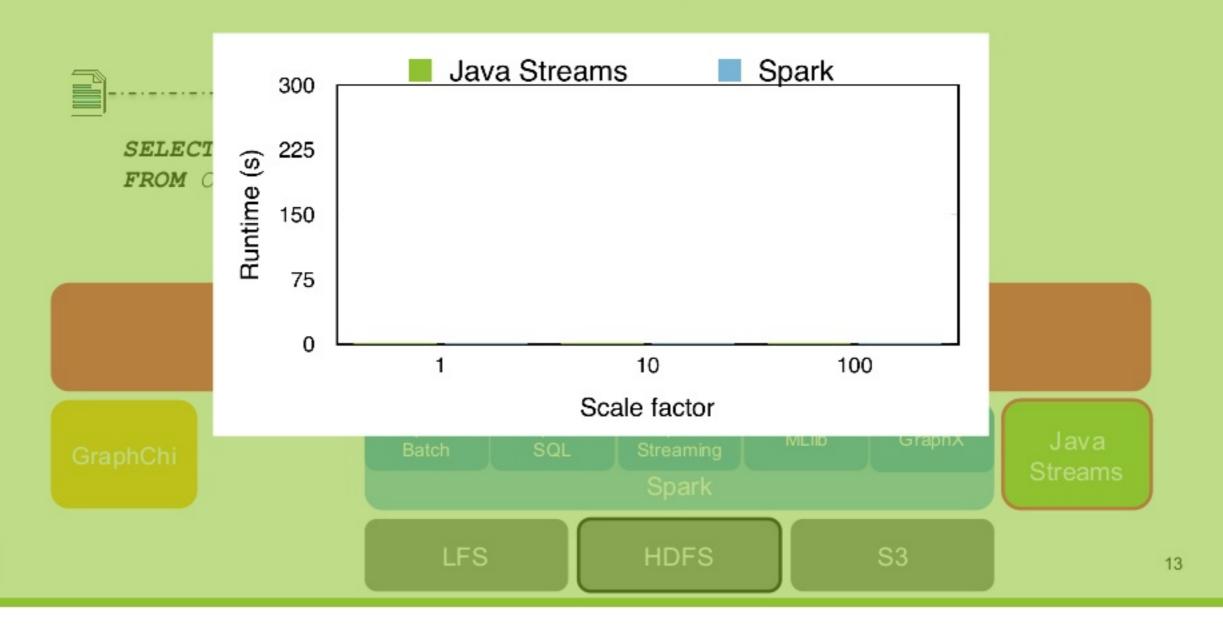


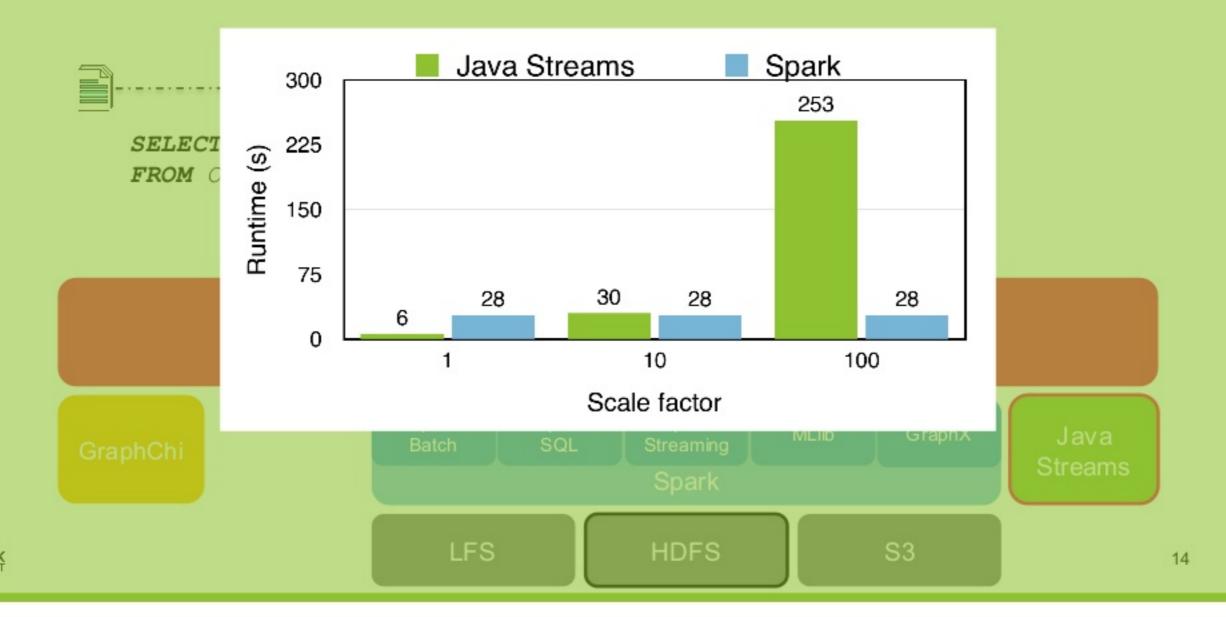
CROSS-PLATFORM USE CASES





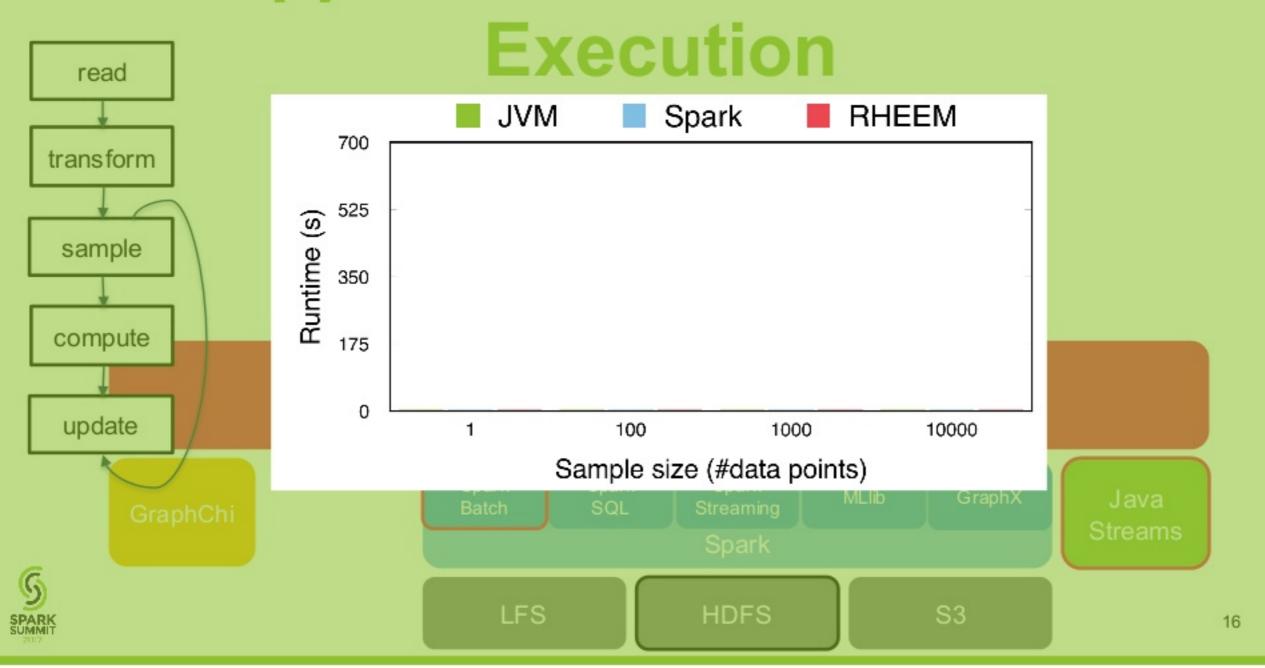






Opportune Multi-Platform Execution read SGD transform sample compute RHEEM update Spark Spark Spark Java MLlib GraphX Batch SQL Streaming GraphChi Streams Spark LFS **HDFS S**3 15

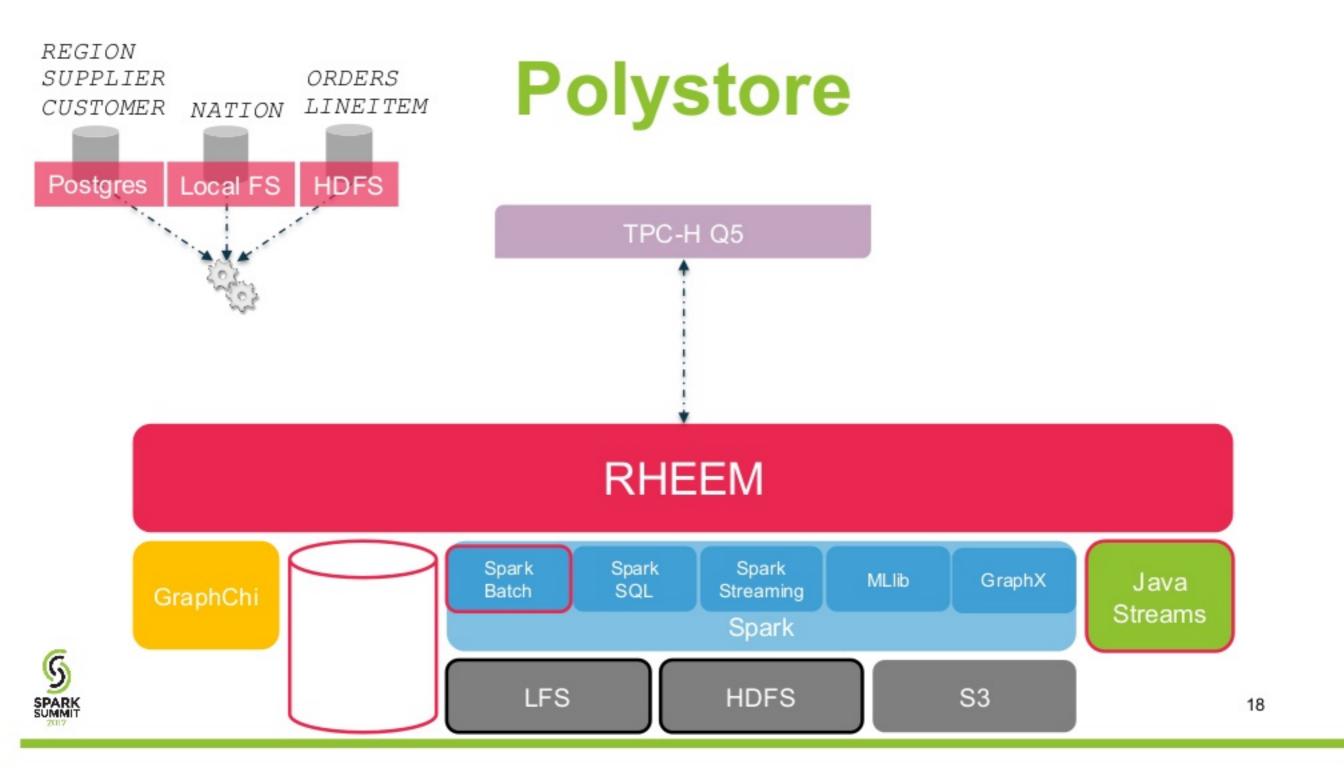


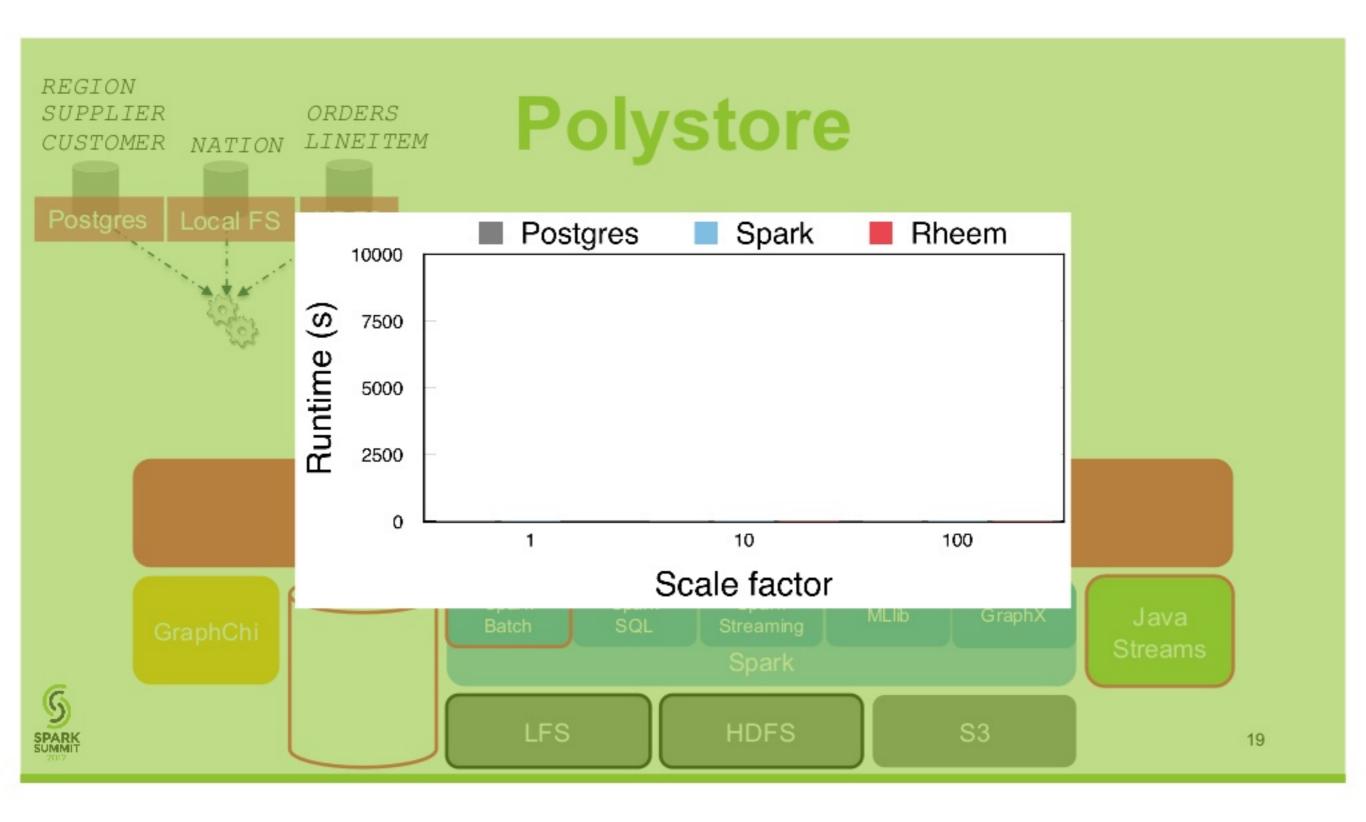


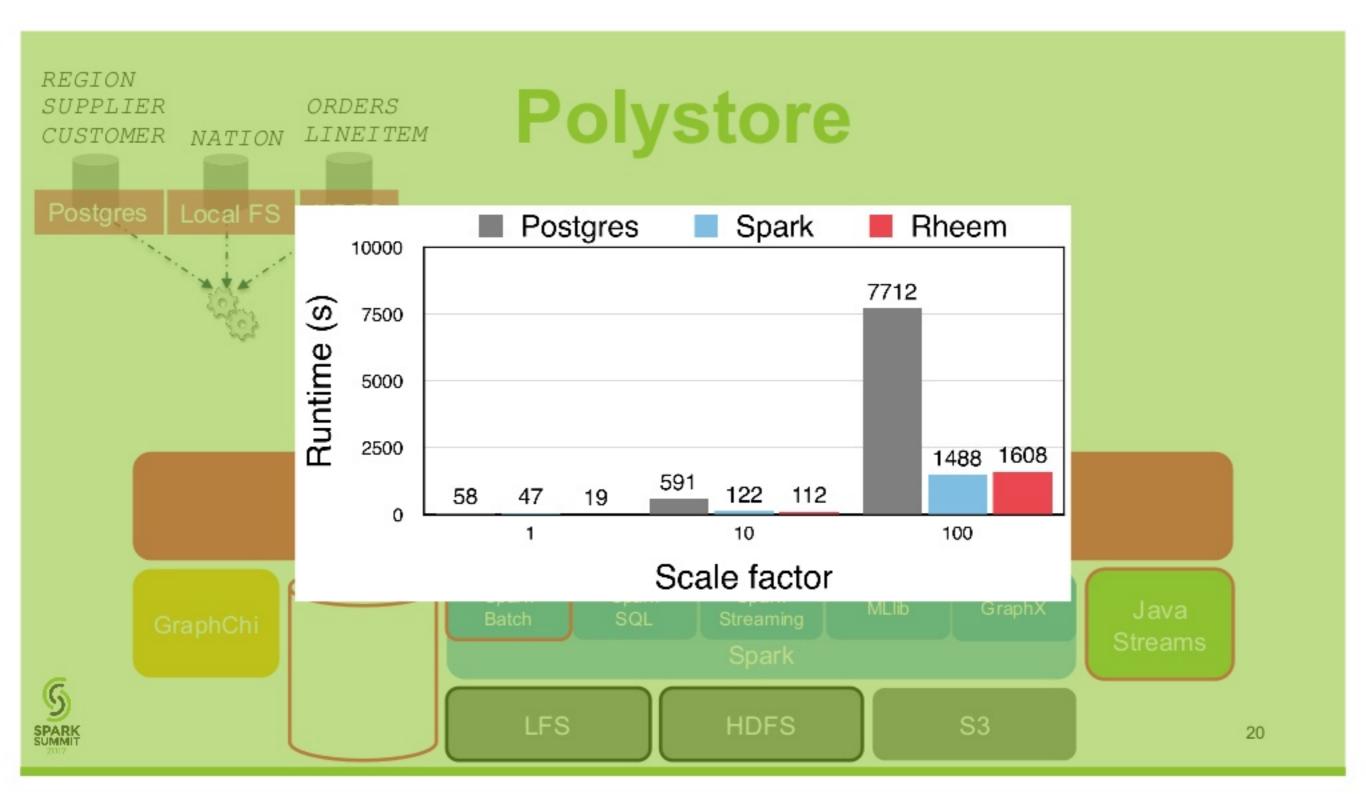
Opportune Multi-Platform Execution

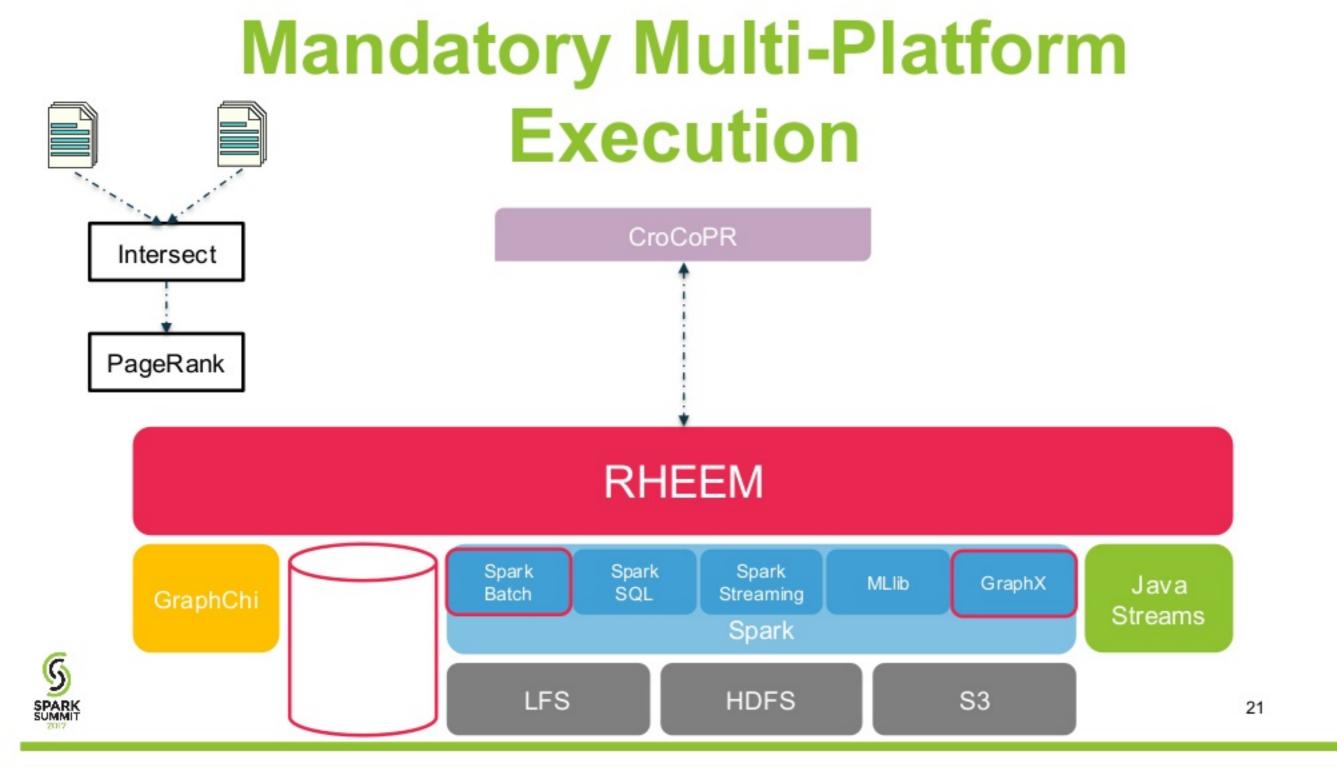


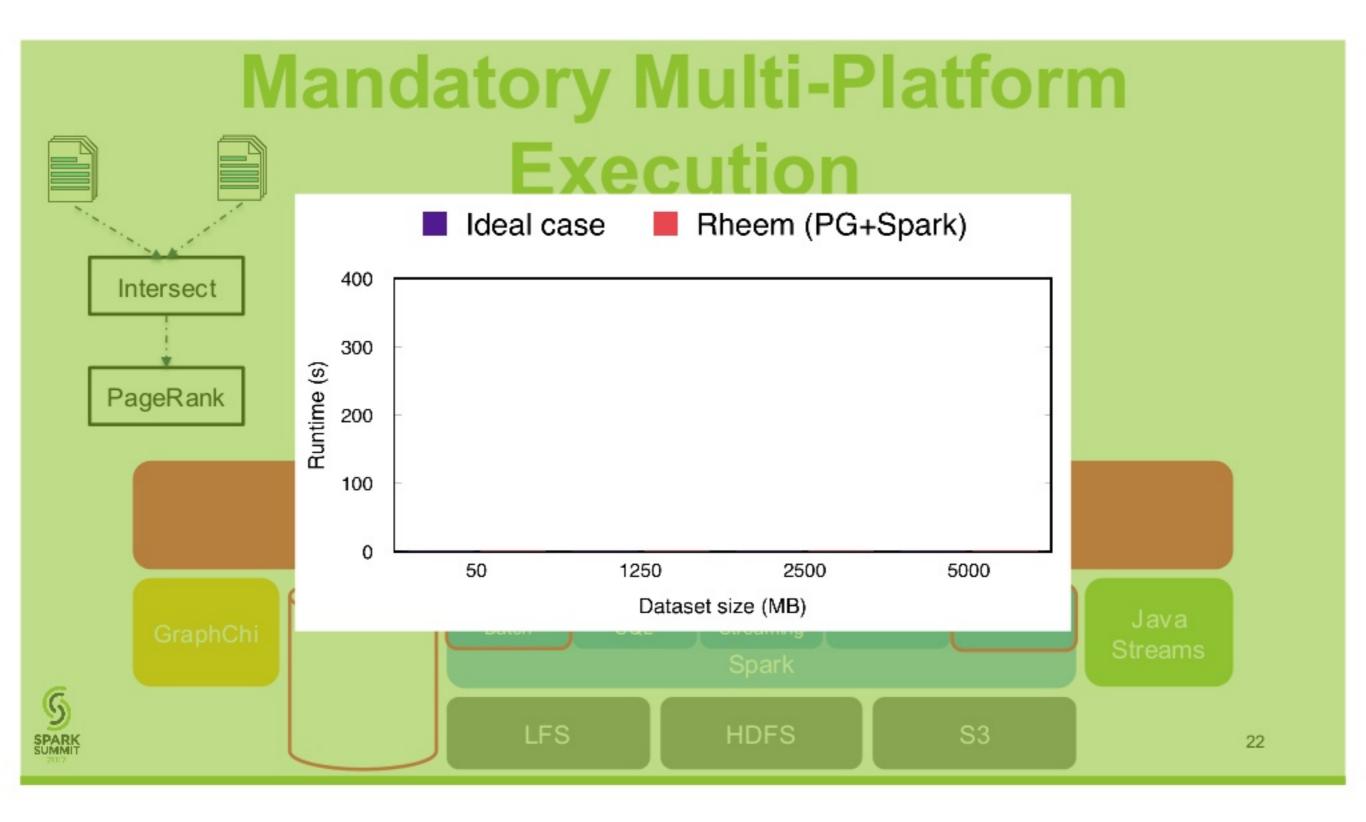
17

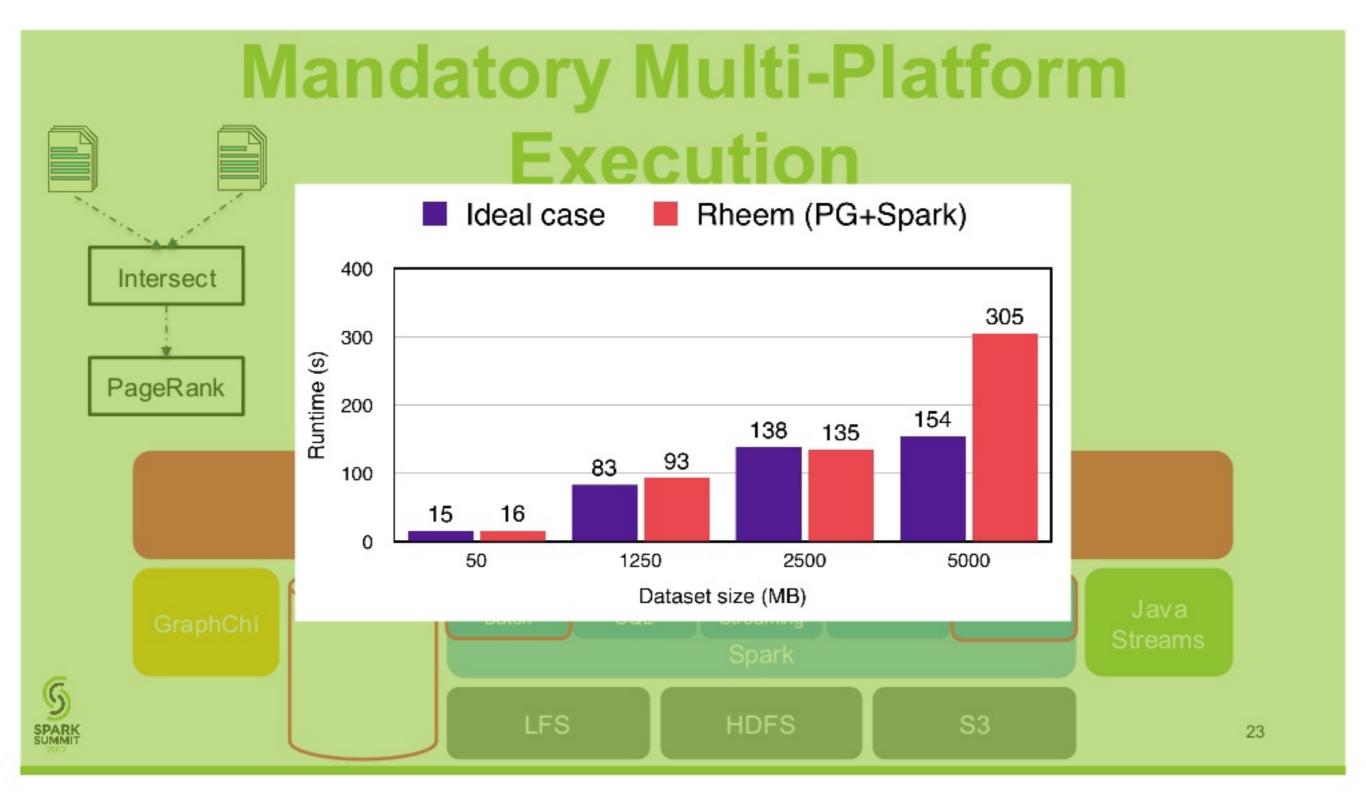










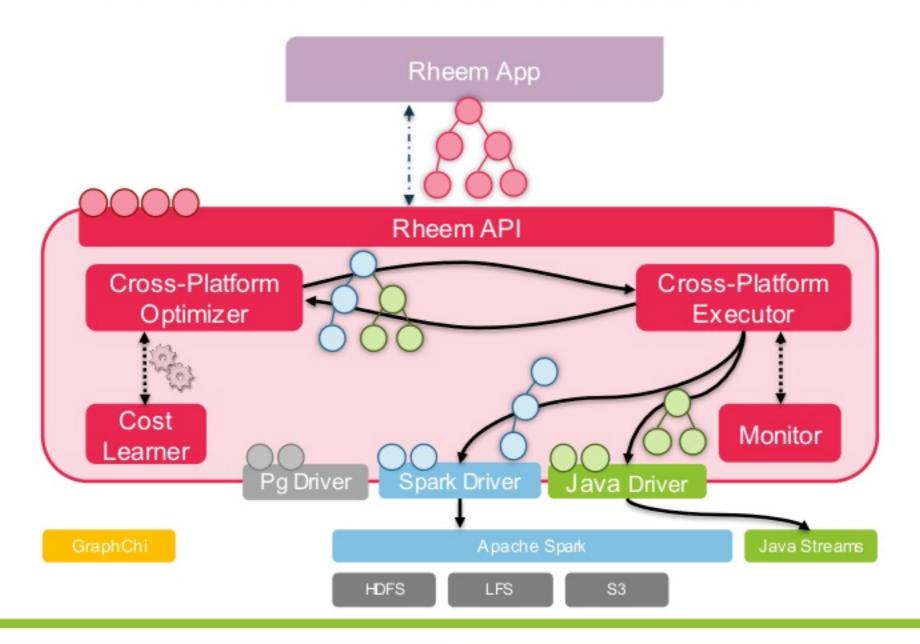


RHEEM INTERNALS

Let's have a look under the hood...

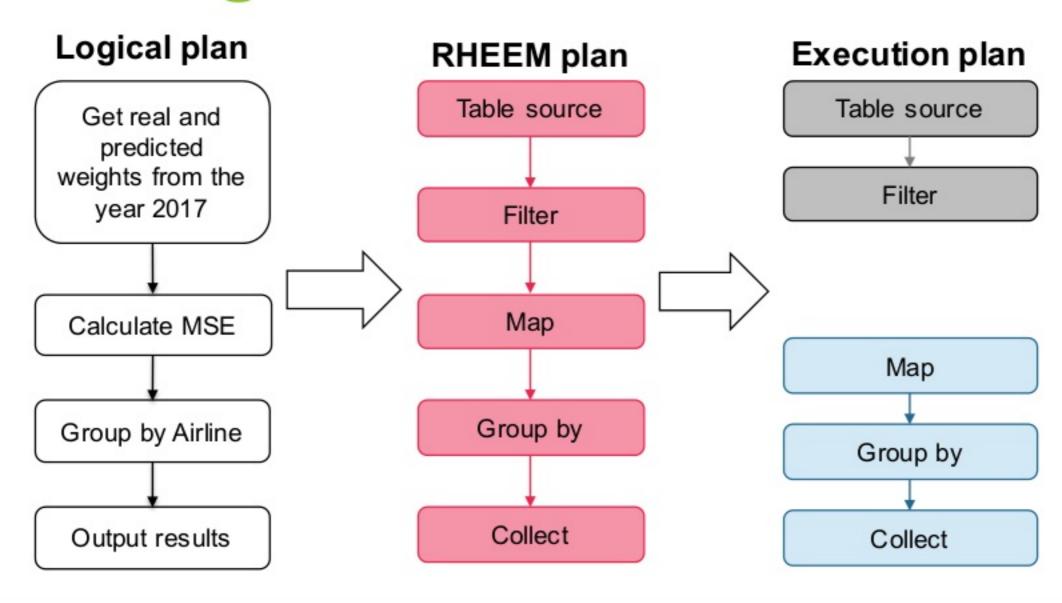


RHEEM in a Nutshell



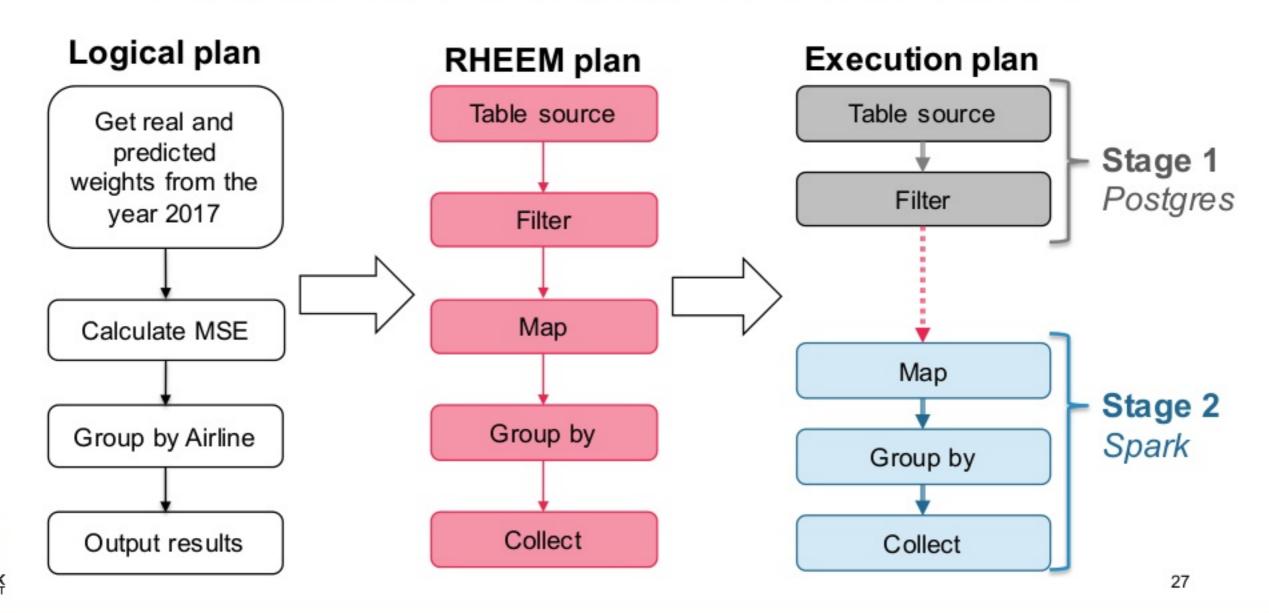


Fine-grained Platform Selection



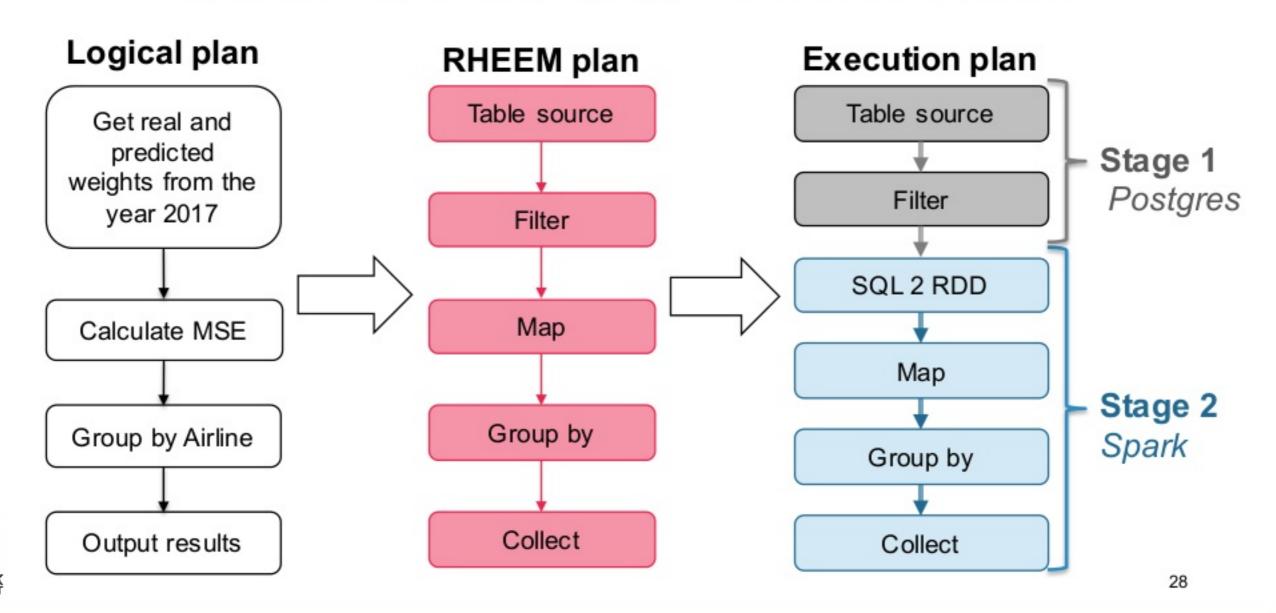


Automatic Data Movement



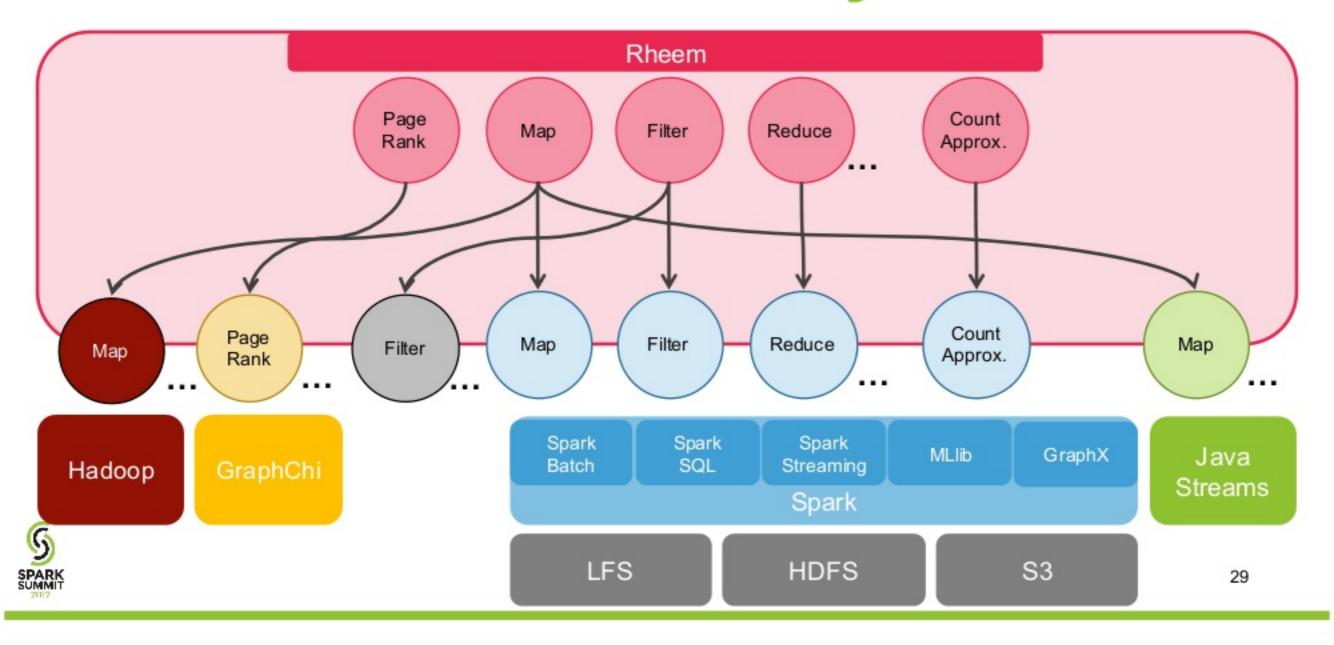


Automatic Data Movement

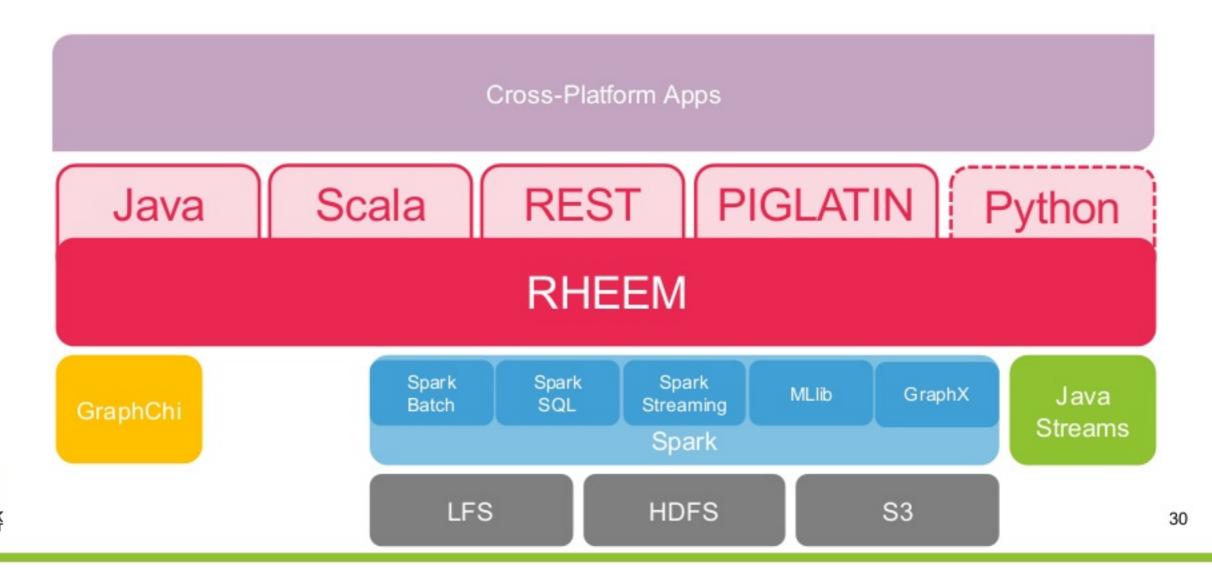




Extensibility

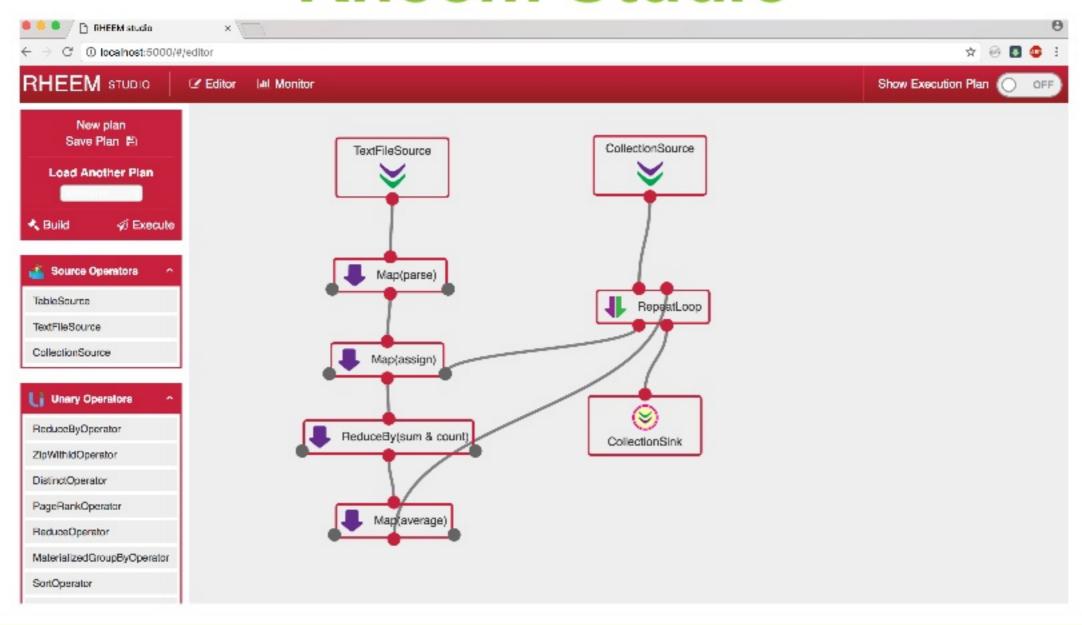


Multiple APIs





Rheem Studio



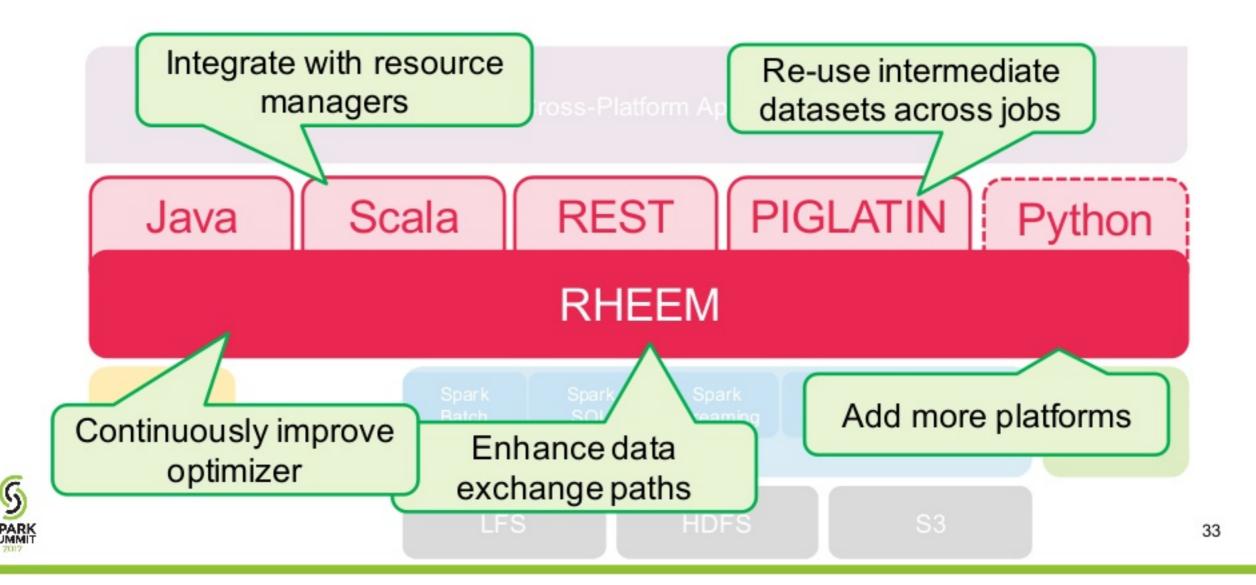


DEMO

Let's play...



The dRHEEM goes on...



Website: http://da.qcri.org/rheem/

GitHub: https://github.com/rheem-ecosystem

Gitter: https://gitter.im/rheem-ecosystem/Lobby

We want you!

Apache Incubator Very Soon!

Interested? Then, become a dRHEEMer!



