



GridGain vs Hadoop Why Elephants Can't Fly

GridGain System

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GridGain In A Glance

GridGain is Java based open source middleware for transactional **real time big data** processing that scales up from one server to thousands of machines.

Unlike complex, decade-old Hadoop MapReduce systems which use stale data for batch offline analytics, our platform allows companies to harness live data for smarter, faster real time processing.

GridGain History

- > GridGain Systems founded in 2005
- > VC funded
- > Headquarter in Foster City, California, USA
- > 12 product releases:
 - > GridGain **1.x**, Jul 2007
 - > GridGain **2.x**, Feb 2008
 - > GridGain **3.0**, Aug 2010
- > Current release is GridGain **3.6**

GridGain Facts

GridGain starts every **10 seconds** around the globe

Over **8,000,000 starts worldwide**

1000 unique IP/month

400 active projects/month

4000 forum views/month



GridGain Users



GridGain Partners



GridGain Technology

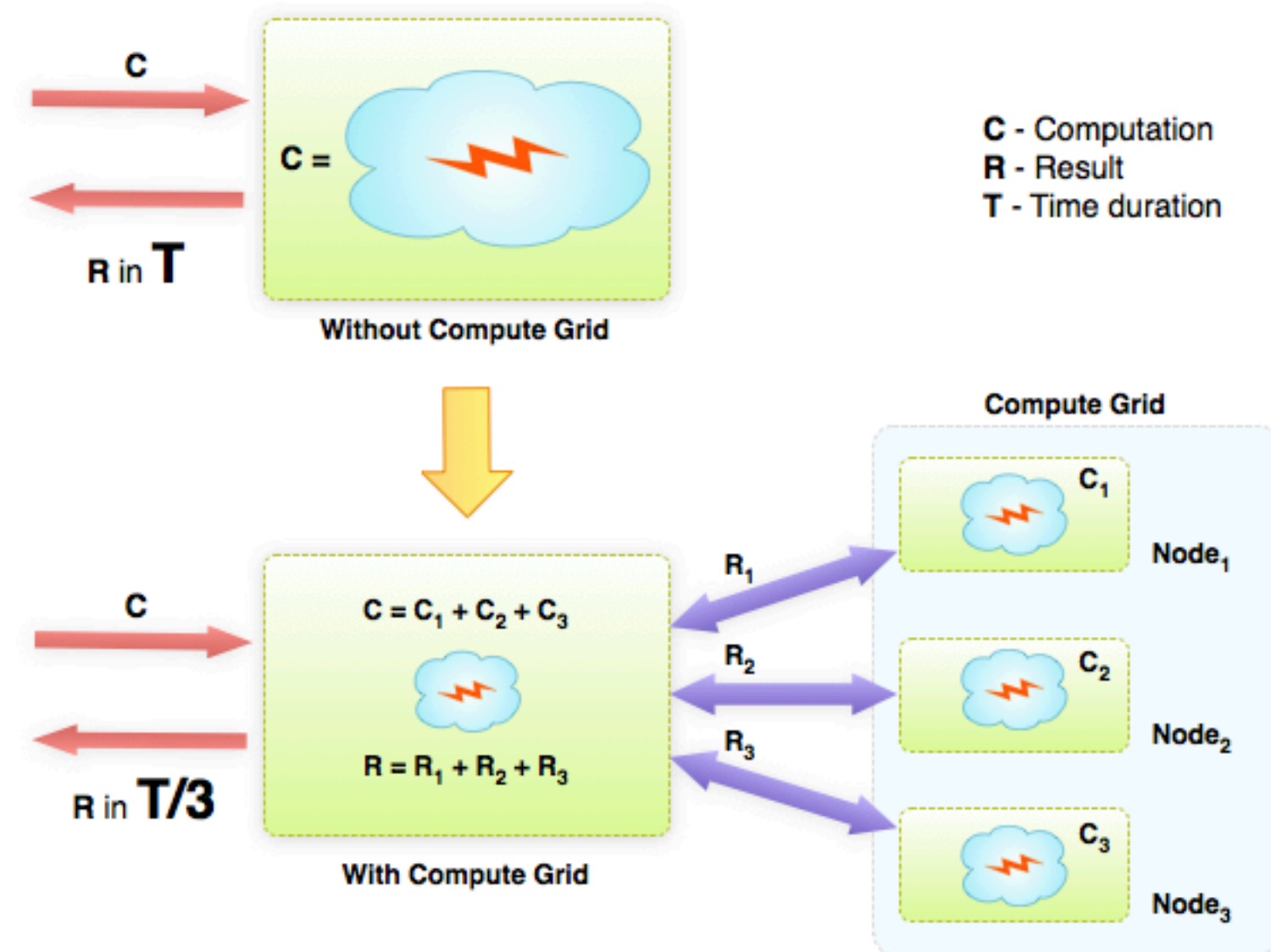
- > Fully integrated cloud middleware: **Compute Grid + Data Grid**
- > Real Time Transactional Big Data
- > Zero Deployment

- > Two editions:
 - > **Community Edition:** License: GPLv3 + Basic Features
 - > **Enterprise Edition:** Commercial License + Enterprise Features

- > Language support:
 - > Java 1.6
 - > Scala 2.9.1

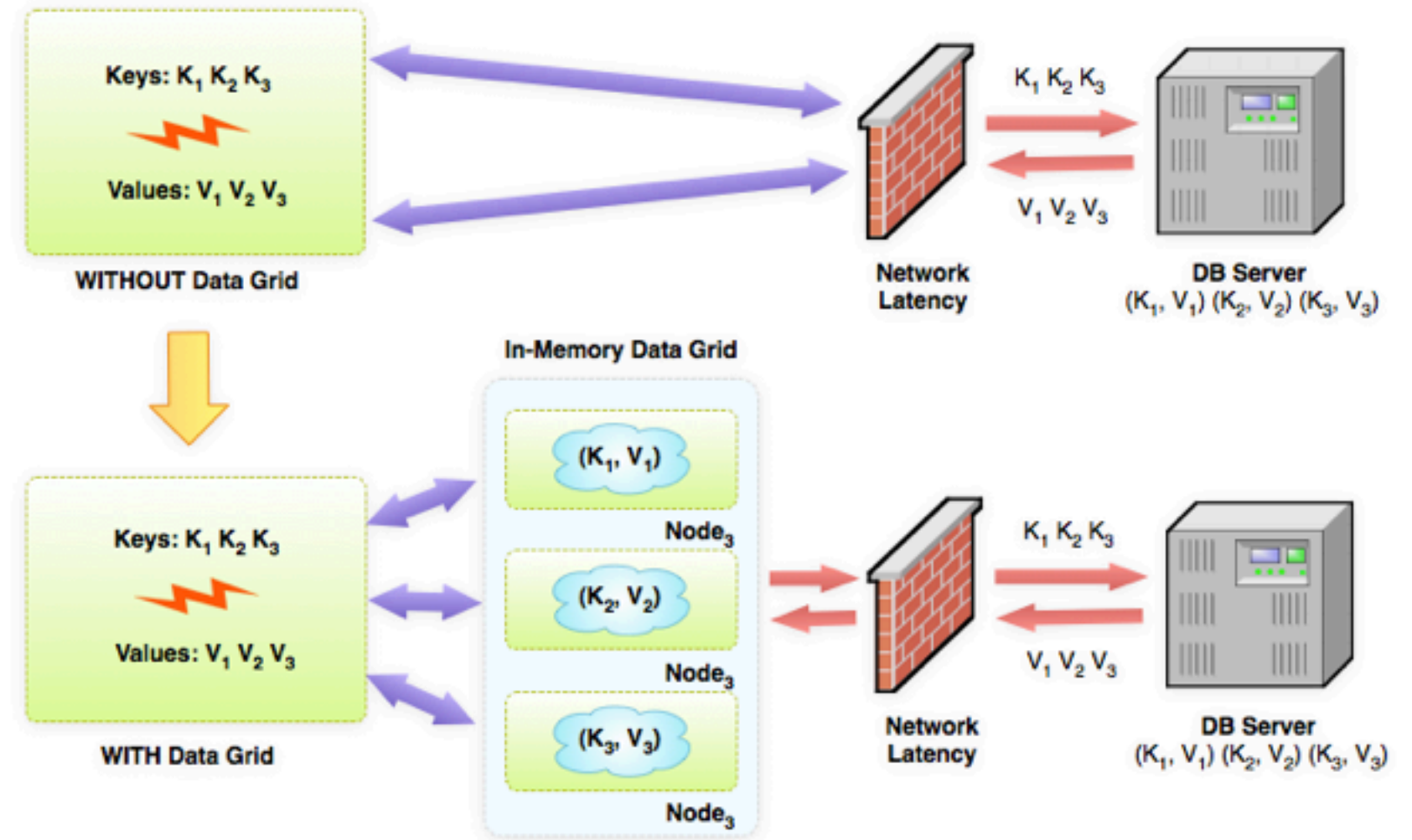
GridGain - Compute Grid

- > Direct support for MapReduce
- > Auto discovery
- > Checkpoints for long running tasks
- > Load Balancing
- > Affinity co-location with data grids
- > Automatic fault tolerance



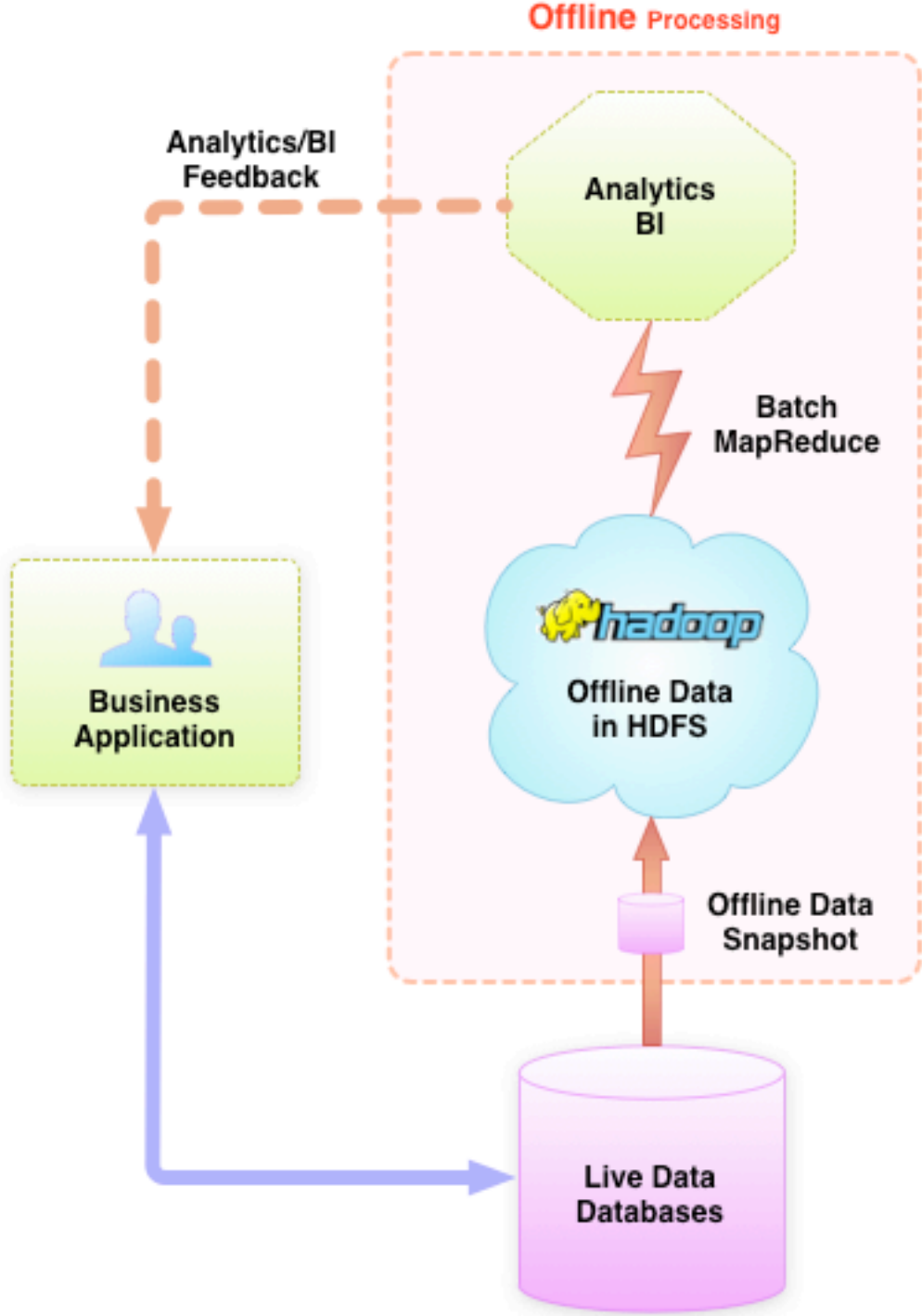
GridGain - Data Grid

- > Replication & Partitioning
- > Pessimistic & Optimistic Tx
- > Read-Through and Write-Through
- > Pluggable data overflow storage
- > Distributed Queries
- > Distributed Queues and Latches
- > Distributes Java Atomics



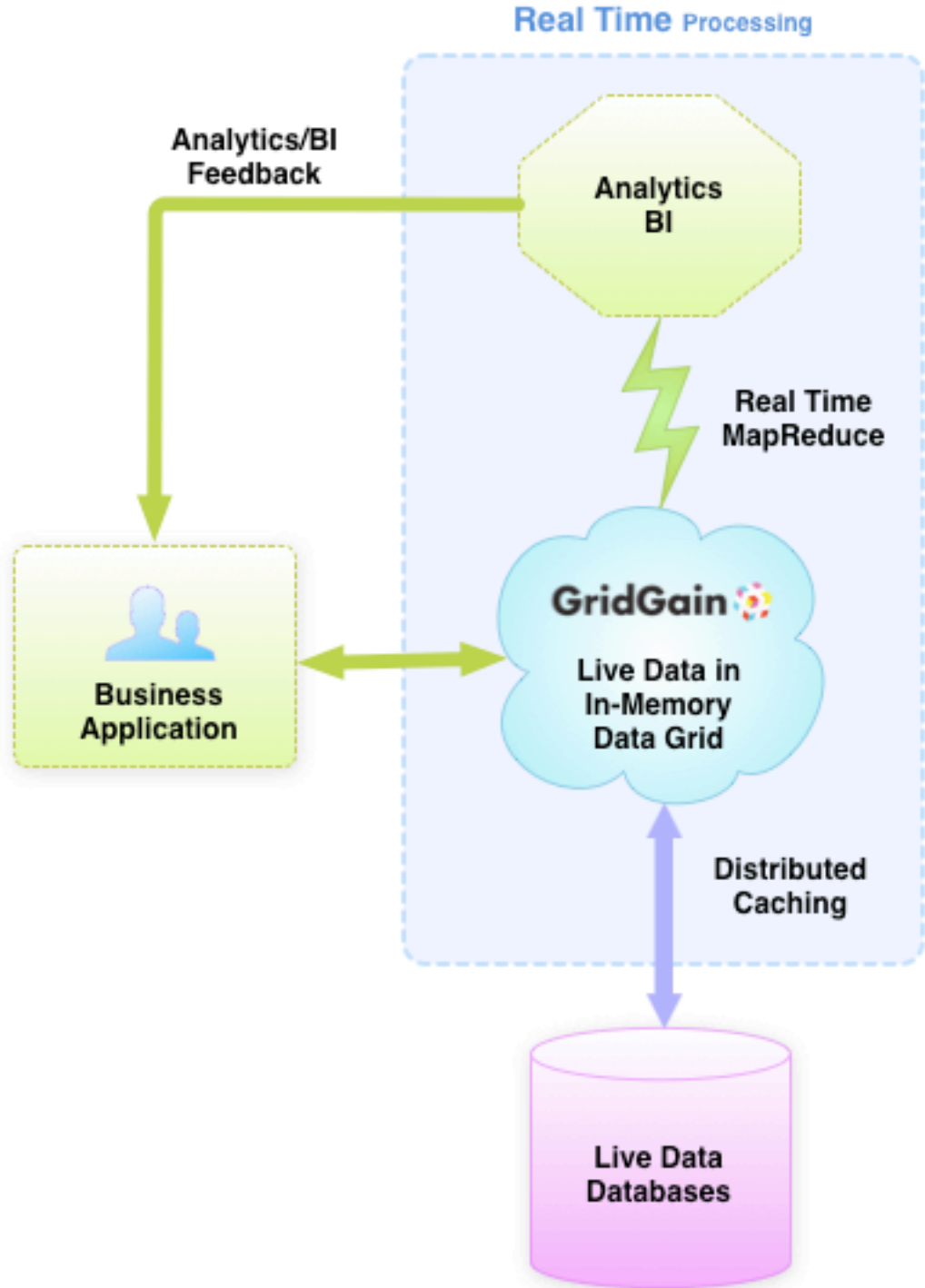
Hadoop Processing

- > Very large data sets, BUT...
- > Not Real Time
- > Mandatory data snapshots
- > HDFS instead of live databases
- > Analytics based on offline data



GridGain Processing

- > Large data sets
- > Near Real Time Processing
- > Online databases
- > In-memory data caching
- > Co-location of analytics and data
- > Business analytics on Live Data



Live Coding - Real Time Word Count

- > **Real time** uploading of books into Cache
- > **Real time** updates of word counts
- > **Real time** SQL queries for popular words
- > **Real time** print-outs of most popular words
- > ... using Scala & GridGain



Thank You!