EvoApp's Bermuda Platform

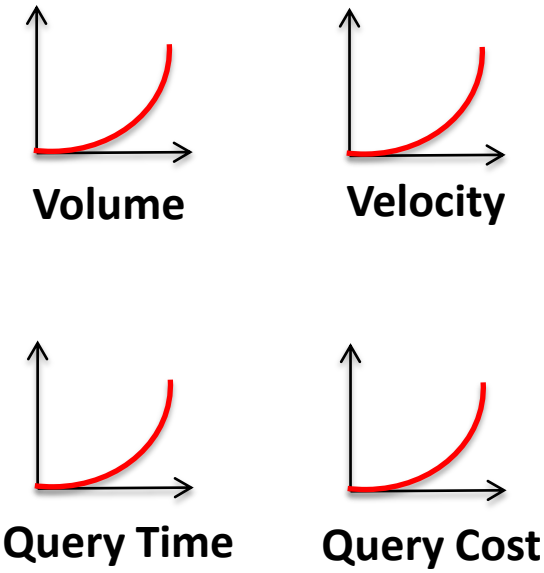
May 2012

Durham, NC

The Problem We've Solved

EvoApp is the first to simultaneously address all four elements of the world's growing Data Challenge:
As data volume and velocity grow, ad-hoc queries cost more while real-time performance suffers - becoming too slow for human interaction on large datasets.

The Data Challenge



The Solution

EvoApp Bermuda™
(patent pending)

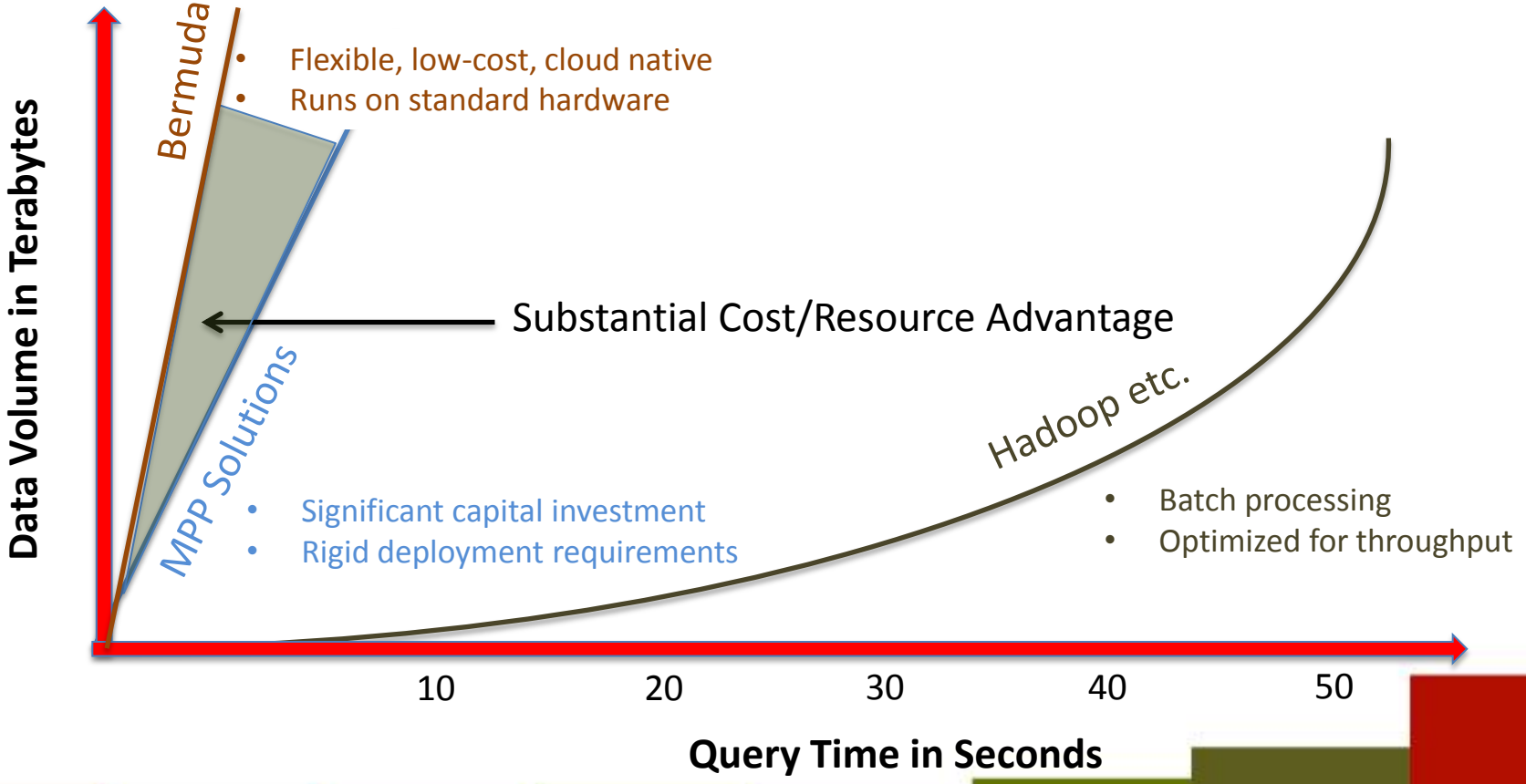
- **Volume:** Leverage virtual machines and cloud-scale storage systems
- **Velocity:** Accommodate terabytes of information across multiple servers
- **Time:** Conduct scan-intensive, real-time queries without pre-defining specifics
- **Cost:** Combine the scalability of NoSQL with in-memory performance and cloud economics

EvoApp in 2011 → **EvoApp Today**

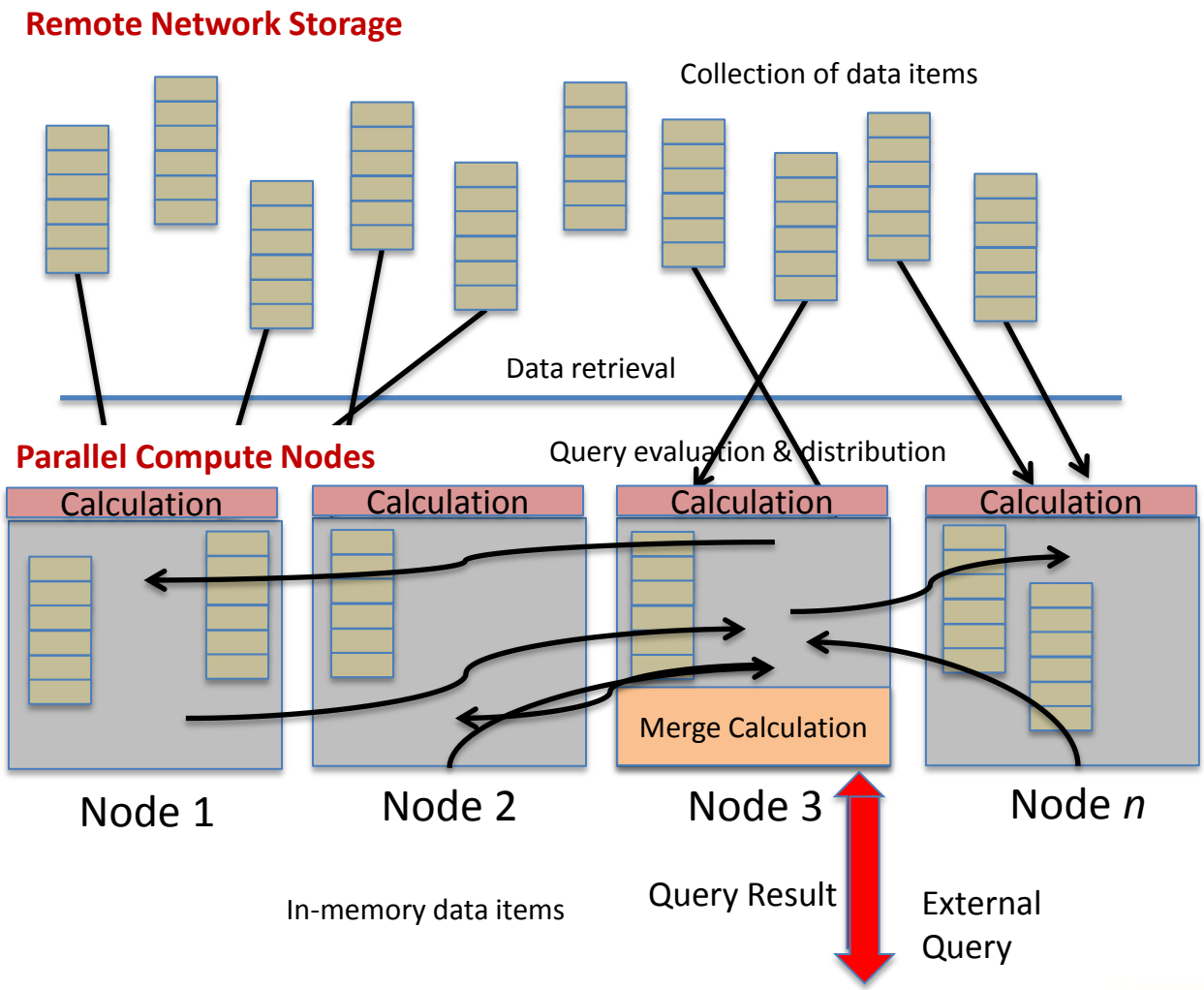
EvoApp's Bermuda Advantage

Bermuda enables BI-class, real-time analysis of massive datasets:

- Iterative, *ad-hoc querying* for unstructured and structured datasets
- Cloud-native, lower *ownership and deployment costs*
- Deployable in *public and private clouds*



How It Works



Key Characteristics:

1. Unique data packaging strategies for optimal memory saturation.
2. Maximizes use of main memory at scale. No disk drive interaction.
3. Data loading time minimized.
4. Intelligent query distribution at maximum scale.
5. Sub-second response drives real-time user experience

Sample Use Cases

E-Commerce

The Company: Real-time *pricing optimization* solutions provider for the airline and hospitality industries.

The Problem:

- 99% of current implementations are *on-premise* or *hosted*
- Millions of online *purchase information*, *price views* and *cancellations*
- Serious *scalability problems* due to the volume and velocity of data and the need for real-time queries

The Solution: Bermuda's real-time analytics capability enables:

- *Adjusting dynamic pricing* to maximize customer revenue at point-of-purchase
- *Detecting anomalous events* (e.g. attempts to game pricing through denial-of-service attacks)

Manufacturing

The Company: A major *aircraft manufacturer* serving commercial and defense clients.

The Problem:

- Each aircraft has thousands of sensors emitting a constant stream of *time-varying data* that is recorded to the plane's *black box* and uploaded after each flight.
- Data is *processed in batches* to help technicians predict/analyze the airplane's maintenance needs

The Solution: Bermuda's real-time, ad-hoc analytics capabilities enable:

- *Predicting maintenance events* in-flight, hours before landing – *reducing turnaround* time
- Improving the *efficiency* of costly maintenance resources

Finance

The Company: A major international provider of *SaaS accounting solutions* for small and medium businesses.

The Problem:

- Managing *regulatory compliance* of their SaaS and mobile services transactions (e.g. invoicing, payment, superannuation)
- Sometimes *fraud may go undetected* due to the inability of batch processes to handle real-time, ad-hoc queries across these large datasets

The Solution: Bermuda's ad-hoc querying capabilities enable:

- Analyzing patterns in the data to *alert human auditors* about possible fraud
- *Real-time exploration* of potential fraud cases resulting from these alerts

Thank You