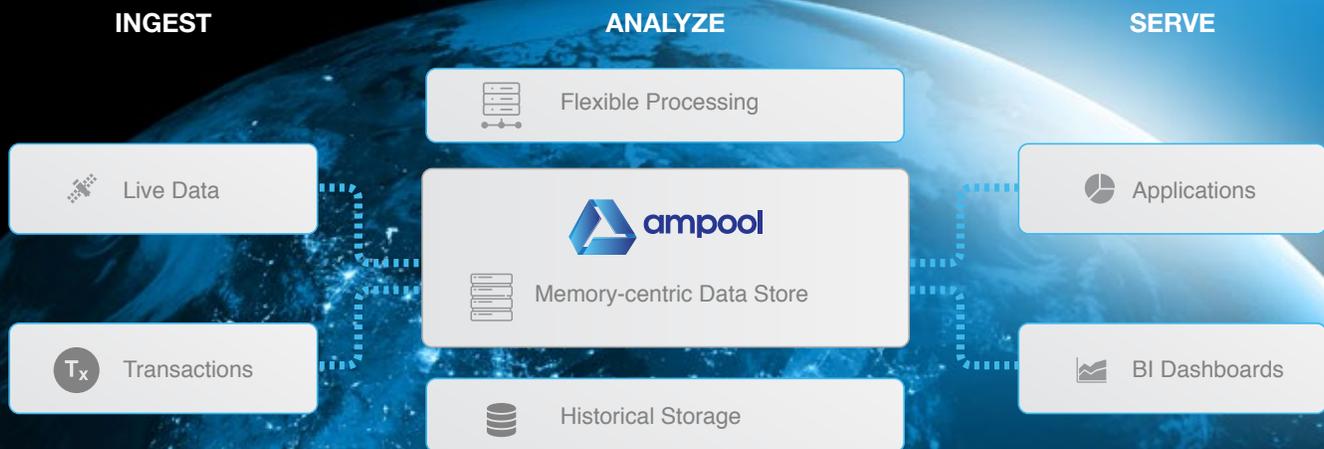# POWER DATA-DRIVEN APPLICATIONS WITH IN-MEMORY REAL-TIME ANALYTICS

What if you could capture, analyze, and serve data from a high-performance in-memory data store to empower modern data-driven applications with real-time insights?

Ampool's next-generation memory-centric Active Data Store (ADS) enables the most demanding data-driven organizations while avoiding complexity. Ampool provides fast ingest and storage of hot application active data, in situ updates and analysis, and serving applications from the same scalable distributed in-memory data store.

INGEST

- Live Data
- Tx Transactions

ANALYZE

- Flexible Processing
- ampool — Memory-centric Data Store
- Historical Storage

SERVE

- Applications
- BI Dashboards

ampool

What is Ampool ADS?

Ampool Active Data Store (ADS) is an enterprise-grade memory-centric data store that is specifically designed to address the needs of enterprises to extract maximum business value from active data. Active Data requires rapid ingestion, eliminate batch ETL, and optimized memory-speed analytics to derive real-time insights. Ampool's scalable, performant, distributed memory-centric architecture enables multiple access patterns on active data from a single unified platform.

What value does Ampool bring?

Lightning-fast Analytics
Correlate multiple types of data and streams in real-time to enable "hot" data driven insights

Flexible Processing
Extensible architecture enables operational and advanced analytics, be it near applications or (Big) Data Lakes

Distributed in-memory platform
Say goodbye to the cumbersome ingest-prepare-analyze process that used to take hours to days — now done in seconds

APPS, APIs, SERVICES
(EXTERNAL)

MODERN DATA-DRIVEN APPLICATIONS

BI, ANALYTICAL APPS
(INTERNAL)

OLTP RDBMS, NoSQL

INGEST and update active data in real time
ANALYZE using "best-of-breed" engines
SERVE data concurrently to multiple tenants/apps

OLAP DATA WAREHOUSE, DATA LAKE

Which industries can benefit from using Ampool?

Ampool ADS is currently being used to enable actionable insights in real-time by leading organizations across multiple verticals:

- Financial Services
- Industrial Internet of Things (IIoT)
- Global retail/ e-commerce
  and many more...

Key Features and Benefits

Enterprise-Grade	• Reliable for mission-critical workloads • Fault-tolerant, high-availability, disaster recovery • Rock-solid security • Extensive management and monitoring capabilities
High-Performance and Rapidly Scalable	• Rapid ingestion • Ultra-low latency queries • Rapid analytical queries • High-throughput and concurrency • Linear scalability without constraints
Preserves Existing Investments, Increases ROI	• No change to existing business logic • No forklift upgrade or rip-and-replace • Augment existing data platforms with real-time capabilities
Simplifies Operations	• Multiple data abstractions in a single store • Consolidate workloads • Eliminate excessive data copies
Extensible	• Multiple compute engines • Multiple persistence options • Connectors for data import and export • User-defined computations
Future Ready	• Cloud-ready and cloud-agnostic • Container deployment • Storage Class Memory (SCM)-ready

About Ampool

Ampool is a fast-growing startup based in the San Francisco Bay Area, US and Pune, India. It is composed of a team of professionals and experienced technologists with extensive backgrounds in Big Data Platforms, Distributed Systems, High Performance Computing, and In-Memory Computing.

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