

The Edge Data Platform for the Autonomous World

Artificial Intelligence (AI) algorithms are getting incorporated into all IT applications. This is fueling efforts in all industries to build more autonomy into devices and software bots. The Autonomous World is becoming a multi-trillion dollar market with historical significance, but it is held back by an exascale data problem. Akridata solves that problem.

Deep Learning, Continuous Feedback, Edge Data

The unattended, adaptive, and decentralized nature of the autonomous world leads to a new and complex problem: managing unstructured, distributed exascale-class data as it moves across the network from edge to core to cloud.

The New Platform: Edge to Core to Cloud

According to Gartner, 75% of enterprise-generated data will be created and processed at the edge, outside a traditional centralized data center or cloud. Because data is created and used where service is delivered, a new decentralized platform has emerged.

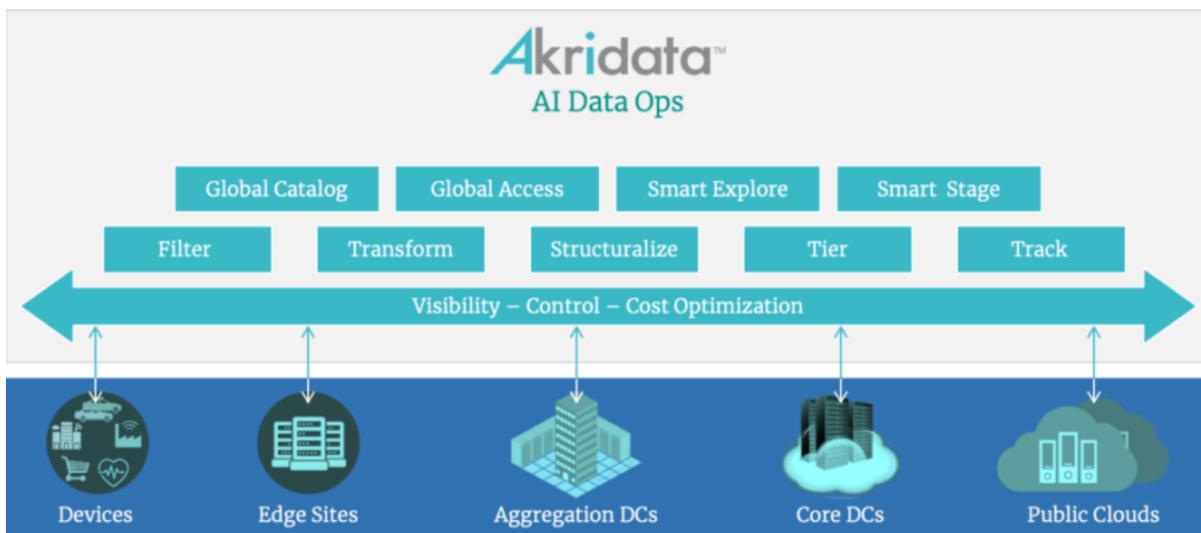
Flood of Edge Data

Edge devices can produce tens of terabytes of data per day in many types and formats, which leads to unnecessary costs in data processing, data storage, and data communications. Today, 80% of a data scientist's time is wasted because it is too difficult and too time-consuming to ingest, pre-process, categorize, and catalog the data.

Reduce time to access the right data by 10X

Improve compute and storage efficiency by 4X

Boost Data Scientist productivity by 2X



Key Data Challenges

- Ingest of hundreds of terabytes to petabytes of data per day from edge locations across multiple geographies.
- Being prepared to quickly access data whose value is not yet known. Many processes are “data blind” until all data is processed, annotated and analyzed.
- Reduce wait-time for Data scientists and ML engineers who currently must wait days or weeks to access the data collected at edge locations and test sites.
- Reducing the cost of managing petabytes of data when only 1%–10% are likely relevant.
- Automating cleaning, converting, and preparing data, a task that can occupy 80% of a data science teams’ time, leaving little time for algorithmic development.
- Simplifying data pipeline changes when requirements, scope, or objectives change. Such changes can delay data availability by 1–3 months or more.
- Tracking and governance of data with current processes that are extremely difficult.

Delivering Speed, Productivity, Efficiency,

Akridata is designed specifically for the new edge-to-core-to-cloud platform, and the AI operations that are enabled by it.

The Akridata software can reduce time to access the right data by 10X, improve compute and storage efficiency by 4X, and boost Data Scientist productivity by 2X. It does so by providing a seamless, virtual data management system that spans geographies, infrastructure, storage silos, and data formats.

The Akridata solution is used in diverse areas such as the automotive industry, smart retail, smart manufacturing (digital factory), smart cities, and areas where HPC and AI come together.

Solution Benefits

Easily manage AI data across edge core and cloud.

- Understand your data at source instantly. Extend the core/cloud to edges with “smart edges.”
- Unified, transparent access to data (active and archived) via global, user defined catalog.
- Eliminate “data blindness” with automated workflows.
- Evaluate data quality and relevance at source. Transfer it by priority to core data centers and/or cloud.
- Browse, search, visualize petabytes of data. Track data provenance and lineage.