

# Chronosphere Observability Platform:

## Scale AI Operations Without Growing Costs

### The Challenge:

## Overcoming Observability Challenges in AI and LLM Environments

Traditional observability tools struggle to handle the scale, elasticity, and complexity of AI infrastructure and LLM applications, leading to increased costs, performance degradation, and slower troubleshooting.



**Downtime and latency damage customer trust**

In the current AI/LLM race, downtime or slow issue resolution can destroy customer trust. Open source systems and SaaS observability solutions often fail to meet the performance demands of AI workloads, leading to latency and reliability issues during critical operations.



**Massive data volumes overwhelm traditional observability tools**

AI and LLM workloads generate massive observability data volumes, with unpredictable demand. Training workloads lead to sustained high data volumes, while inference workloads introduce short, unpredictable spikes as models respond to real-time queries.



**Runaway costs divert resources from AI innovation**

AI companies struggle to manage observability costs. Without mechanisms to optimize, shape, and filter data based on relevance and usage, companies pay for large amounts of redundant and low-value telemetry, draining budgets that could fuel AI research and development.

### The Solution:

## The Chronosphere Observability Platform

Chronosphere empowers AI companies to control observability costs and complexity in high-volume, unpredictable environments. By reducing data volumes by 84% on average, Chronosphere optimizes costs. It supports all telemetry types (metrics, events, logs, traces) from various sources (OpenTelemetry, Prometheus, Datadog, and more) at a scale necessary for AI workloads—with the ability to process over 2B data points per second. Chronosphere delivers the reliability you need with the cost control you want.



**Scale seamlessly with AI workload demands**

Handle massive data volumes from training workloads and unpredictable spikes from inference operations. Process over 2B data points per second without performance degradation.



**Resolve issues faster to maintain AI service quality**

Empower developers of all experience levels to quickly identify the source of service issues without deep system knowledge or complex query writing. Our solution surfaces potential problem areas through a simple point-and-click investigation process, eliminating reliance on system experts.



**Control observability data volumes and costs**

Chronosphere enables you to identify and keep only the data your team actually uses, eliminating waste and preventing you from paying for data that provide little value to your team.

## Key Use Cases for AI Companies

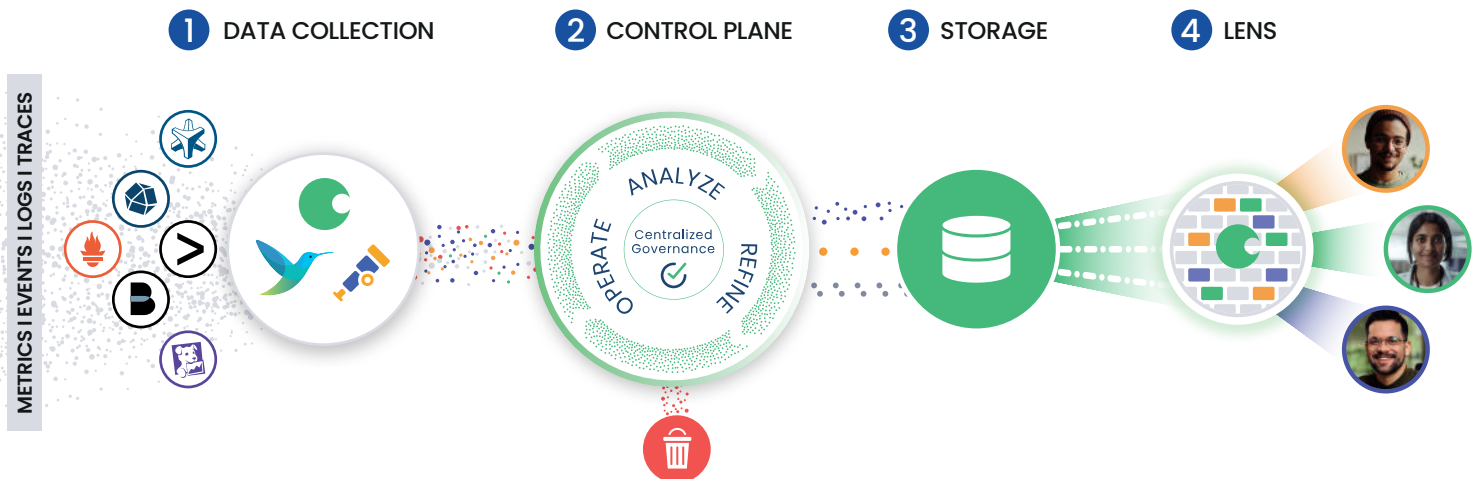
### LLM Inference Monitoring

Monitor the accuracy and bias of your LLM outputs using standardized OpenTelemetry tracing SDKs integrated with Chronosphere. Get alerted instantly if your LLM service begins producing misleading or low-quality responses, protecting your brand and maintaining user trust.

### GPU Profiling & Optimization

Leverage open source profiling tools built on pprof and Parca to gain visibility into GPU performance. Avoid expensive GPU black boxes and maintain high utilization during model training, maximizing your hardware investment and accelerating development cycles.

## How Our Observability Platform Works for AI Companies



### 1 Efficiently Collect Telemetry Data

Collect and manage metrics, events, logs, and traces in hundreds of formats (Prometheus, OpenTelemetry, Datadog, and Splunk) at the massive scale required for AI workloads.

### 2 Empower Centralized Governance

Centralize governance to allocate responsibility to data experts. Streamline operations and reduce data volume and complexity for optimized control across development and operations teams.

### 3 Control and Transform Telemetry Data

Transform data at the edge or centrally, analyzing usage to focus on the most valuable data. Shape data dynamically by aggregating, dropping, or refining without sacrificing performance, scale, or visibility.

### 4 Restore APM with Chronosphere Lens

Restore the APM experience you love, while leveraging the open source standards you need. Automatically discover, map, and align data to services, regardless of whether you collect data with open source or proprietary methods.

## About Chronosphere

Chronosphere is the observability platform built for control in the modern, containerized world. Recognized as a leader by major analyst firms, Chronosphere empowers customers to focus on the data and insights that matter to reduce data complexity, optimize costs, and remediate issues faster.