

Kinetica for Real-Time Portfolio Risk Analysis

Financial services organizations managing complex portfolios need to understand the impact of billions of market transactions every day, each one with the potential to materially affect the risk exposure of their portfolio. They need to gain real-time insight into risk to maximize revenue and minimize downside to meet both business and regulatory requirements.

The Challenge

Legacy infrastructure slows digital transformation efforts and makes it difficult to integrate data science and risk models into mission-critical applications. Technology is siloed, risk platforms are built of many different technologies that don't work well together, and results are slow and run in batch processes. Analytic tools are outdated and a lack of computational power restricts accurate pricing and risk models.

Accelerating Portfolio Risk with Active Analytics

To address this, financial services organizations need to move from passive to active analytics. That means moving from batch processes, static dashboards, and end of day results to active analytics with on demand, real-time results, interactive data-driven applications, and up to the moment insights enhanced with analytical models.

The Kinetica Active Analytics Platform converges streaming and historical analytics with integrated pricing and risk models in a single platform to unlock real-time portfolio risk analysis. This is powered by a GPU-accelerated database that enables large scale, high performance analytics. The ability to combine analytics with data science and multiple risk and pricing models without complex data movement or data engineering is valuable for organizations that need to understand risk and opportunity in real time. Financial services organizations can leverage active analytics to deliver on-demand results to end users and also enable the ability to provide self-service insights to clients.

Performance matters if you want to deliver on-demand results. Our work with our customers has given us valuable experience delivering at the speed and scale needed for banking and capital markets.

- Analyzing 1 trillion data points at GSK to accelerate drug development
- Accelerating regulatory reporting for a major financial services organization from days to minutes
- Analyzing 30M streaming inventory queries a day to keep inventory in stock for one of the world's largest retailers

Kinetica works with some of the world's largest financial services organizations to analyze streaming and historical data at scale and to apply models to perform up to the moment risk calculations.

To learn more about Kinetica for portfolio risk, visit our [Banking and Capital Markets solutions page](#).

