Solution **Brief**

Accelerated Analytics and Data Science

OmniSci's mission is to make analytics instant, powerful, and effortless for everyone.

On-Premise Cloud Open Source

The Challenge

The world of big data grows faster than our imagination. From vehicle telematics and IoT sensors, to clickstream and mobile devices, data pours in at millions of records per second, or more. Data grew too large and streamed too fast for our legacy analytics platforms. To achieve and maintain a competitive edge, today's data-driven enterprises demand analysis at the speed of thought. This poses numerous challenges throughout the organization:

- Teams run out of time on a particular problem area, which forces them to downsample, introducing risk.
- Teams do only what is asked of them because issuing iterative queries is enormously time consuming, hindering their ability to fully explore ideas.
- Teams cannot visualize all their geospatial data such as points and polygons plotted on a map.
- Teams ask only questions they know will be answered because machine learning model development, including feature engineering and ongoing monitoring, is overly time consuming on large datasets.
- Data scientists are unable to explain AI models to business leadership because of the extreme difficulty of visually exploring billion-row or large spatiotemporal datasets.

The OmniSci Solution

OmniSci allows users to exercise unbounded curiosity when exploring data visually. OmniSci can query & visualize up to billions of rows of data in milliseconds, allowing analysts and data scientists to explore and interact with their large datasets, especially spatiotemporal, at the speed of thought. Over 80% of the data created today includes a spatio-temporal (space and time) component, and OmniSci gives organizations the opportunity to visualize and unlock geospatial insights from their traditional datasets. For the forward-thinking enterprise, it's the convergence of both worlds.

Exploratory data analysis and visualization:
Interactive, speed-of-thought exploration and queries of massive datasets of tens of billions of rows

Interactive location intelligence at scale:
Rendering millions of complex polygons, like all the buildings in a city, and plotting billions of points on a map

Accelerated data science workflows:
Integrates with your existing data science tools for your largest datasets

Interactively query, visualize, and power data science workflows over billions of records

OmniSci is comprised of three key components: OmniSciDB, OmniSci Render, and OmniSci Immerse.

OmniSciDB

OmniSciDB is a columnar, analytical database engine that supports SQL and leverages the power of modern hardware to execute queries on billions of records in milliseconds

Render

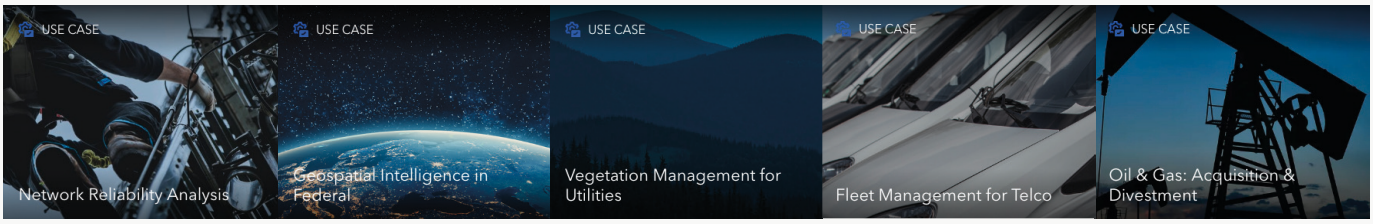
OmniSci Render is a server-side engine designed for rendering pointmap, heatmap, scatterplot, and polygon visualizations of massive datasets. Through its Vega rendering engine API, users can explore billions of points, lines, or polygons.

Immerse

OmniSci Immerse is a web-based data visualization interface that leverages the accelerated speed and rendering capabilities of OmniSciDB and OmniSci Render for an interactive, intuitive experience across complex data visualizations and an array of line, bar, and pie charts.

Customers & Use Cases

OmniSci is already used by Fortune 500 companies and the Federal government alike for a wide array of use cases, including:



Try these demos yourself: **omnisci.com/demos**

About Us

OmniSci is the pioneer in accelerated analytics. The OmniSci platform is used in business and government to find insights in data beyond the limits of mainstream analytics tools. **Harnessing the massive parallelism of modern CPU and GPU hardware, the platform is available in the cloud and on-premise.** OmniSci originated from research at Harvard and MIT Computer Science and Artificial Intelligence Laboratory (CSAIL). OmniSci is funded by GV, In-Q-Tel, New Enterprise Associates (NEA), NVIDIA, Tiger Global Management, Vanedge Capital and Verizon Ventures. The company is headquartered in San Francisco. Learn more about OmniSci at **www.omnisci.com.**

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