

POWERING MANUFACTURING EFFICIENCY, QUALITY, AND INNOVATION

Leverage Snowflake's Data Cloud to optimize your supply chain, increase plant productivity, improve production quality, and innovate with IoT data and AI.



ONE PLATFORM, MANY WORKLOADS



With Snowflake, customers can integrate multiple data sources into a single location and support many different workloads including data engineering, data lake, data warehouse, data science, data sharing, and data apps.

SCALABILITY AND NEAR-INSTANT ELASTICITY



Snowflake is designed to optimize the cloud's capabilities. This means that during peak usage, additional cloud resources are provisioned near-instantly to deliver performance at scale. You no longer have to worry about provisioning or capacity planning based on seasonal or global fluctuations.

MULTI-CLUSTER COMPUTE ARCHITECTURE



The unique architecture of Snowflake's platform separates storage from compute. Different workloads can get dedicated resources so there's virtually no contention or limits. Multiple workloads can simultaneously leverage the compute power they need, when they need it, across departments and locations.

CONTINUOUS INGESTION AND PROCESSING



Snowflake includes a serverless ingestion service called Snowpipe, which uses a REST API to asynchronously load data. Snowflake's Streams and Tasks features make it easy to schedule data integration jobs and capture change data, especially for automation and IoT initiatives.

MANAGED AS A SERVICE



Provided as services with no infrastructure to manage, Snowflake enables manufacturers to focus on value-add strategic initiatives instead of technology management and maintenance tasks.

MANUFACTURING: STRIVING FOR PRODUCTIVITY AND PROFITABILITY

With global interactions and partners at various levels of technology advancement, supply chain management in manufacturing is becoming more complex and time-consuming. In addition, manufacturers are focusing on increasing productivity and lowering costs by using advanced technologies such as automation, modern algorithms and analytics, AI, and IoT. They are trying to streamline their operations, and eke as much productivity out of their supply chains and plants as possible.

Manufacturing organizations, struggling with global uncertainty and low growth, must squeeze maximum value out of data.

THE DATA-DRIVEN MANUFACTURER

The Data Cloud, powered by Snowflake's platform, delivers the performance, scalability, and data collaboration capabilities needed for supply chain optimization, manufacturing automation, robotics, and IoT initiatives. By providing real-time, comprehensive information from departments, plants, warehouses, suppliers, shippers, and customers, Snowflake empowers executives, analysts, and data scientists with the data needed to derive deeper insights and enable seamless and secure data sharing internally, with partners and with customers.

With the ability to seamlessly and securely share data with partners, manufacturers can leverage Snowflake for greater end-to-end supply chain visibility. This ensures more effective operations which leads to increased sales and stronger partnerships. Having access to fast and secure data also enables IT modernization, automation and IoT initiatives. In addition, eliminating data silos creates opportunities for greater efficiency, better production quality management, and allows for data-driven decision making across the entire organization.



POWER END-TO-END SUPPLY CHAIN EFFICIENCY

Gain a global real-time view of your supply chain while also leveraging local data to meet complex information requirements. Implement Secure Data Sharing with partners to enrich your existing data sets and gain insights well beyond traditional internal supply chain management (SCM) systems.



IMPROVE PRODUCT QUALITY AND MANUFACTURING OPERATIONS

Break down data silos across SCM systems, ERP platforms, order fulfilment systems, and IoT devices to gain complete visibility of your manufacturing processes. Power machine learning and AI with comprehensive, up-to-the-second data to improve product quality.



DRIVE AUTOMATION AND IOT INNOVATION

Enable innovation and modernize quickly with a single platform that can be your data hub, data lake, and foundation for data applications, IoT, and many other use cases. Snowflake's platform for data science lets you avoid re-platforming or migrating your data unnecessarily.

CUSTOMER SUCCESS



HOW KOMATSU OPTIMIZES EQUIPMENT EFFICIENCY WITH SNOWFLAKE

Komatsu provides equipment, systems, and solutions used by companies worldwide to extract minerals for developing modern infrastructure, technology, and consumer products. By using Snowflake to collect time-series data from many sources for analysis and machine-learning endeavors, Komatsu Mining efficiently monitors equipment performance while anticipating maintenance and preventing breakdowns.

With Snowflake, Komatsu is:

- **Innovating with IoT for equipment optimization:** Data is collected from thousands of sensors with four billion data points into Snowflake. And Secure Data Sharing allows developers to run analytical models and validate results using production data.
- **Building a global knowledge base:** Benchmark analysis powered by Snowflake enables continuous improvement initiatives and gathering of machine lifecycle data for predictive maintenance.
- **Delivering “dantotsu” service to customers:** Using Snowflake as their global data store, analytics and visualization platform, allows Komatsu to better partner with customers to deliver “dantotsu” service and solutions.



Snowflake allows us to partner with customers, dealers, regional service providers and core offices to improve productivity around the world and drive value for our customers.”

—SHAWN TERRY, Analytics Systems Architect

ABOUT SNOWFLAKE

Snowflake delivers the Data Cloud—a global network where thousands of organizations mobilize data with near-unlimited scale, concurrency, and performance. Inside the Data Cloud, organizations unite their siloed data, easily discover and securely share governed data, and execute diverse analytic workloads. Wherever data or users live, Snowflake delivers a single and seamless experience across multiple public clouds. Join Snowflake customers, partners, and data providers already taking their businesses to new frontiers in the Data Cloud. [snowflake.com](https://www.snowflake.com)