

# Data Modernization With Hitachi Vantara

Drive Better Decisions, Better Business Outcomes

**CUSTOMER STORIES**

# Modernize Data To Manage Growth and Make Timely Decisions

Regardless of your industry, your organization will face exponential data growth, with the likelihood of that information ending up in silos. Such siloed data is difficult to access to make informed decisions. Data modernization directs your data out of the silos of legacy databases and into a modern data platform that makes it easy to leverage data to support business goals.

Read through this e-book to see how Hitachi Vantara has helped customers across industries — from technology and financial services to not-for-profit, healthcare and manufacturing — to achieve data modernization. Discover approaches you can take to build a modern data platform that is extensible, flexible, secure, cost-effective and well-governed.

# The Move to Data Modernization



p. 04 Digitalize and automate regulatory activities to improve transparency and efficiency.



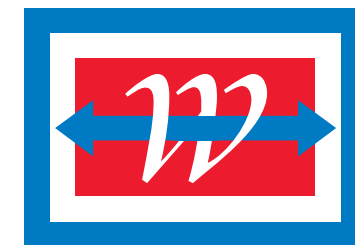
p. 07 Harness the power of big data to revolutionize cardiovascular research.



p. 10 Make more proactive decisions and safeguard competitive advantage.



p. 05 Digitalize processes and unlock data, to deliver the best products to customers.



p. 08 Advance public safety with improved connectivity across the water.

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p. 12 Protect rainforests around the world with agile and scalable cloud solution.





# Powering In-Depth Insights

The Municipal Securities Rulemaking Board (MSRB) is responsible for protecting securities investors, issuers and the public interest. Created in 1975, the MSRB regulates how bonds are bought, sold and traded. To improve transparency and efficiency, the MSRB determined the best practice would be to digitalize and automate regulatory activities. The solution was to partner with Hitachi Vantara to build a data lake and analytics platform in the Amazon Web Services (AWS) cloud.

## OUTCOME

- Ability to report rapidly on the market impact of COVID-19.
- Better efficiency and depth of market insights, with more transparency and real-time reporting.
- Greater agility to launch new capabilities faster.
- Improved efficiency through increased automation.

**Services:** Hitachi's Lumada Data Lake and Data Modernization Services

**Solutions:** Digital Insights: Modern Data Platform

Industry: Financial Services



**The platform is adaptable, scalable and automated so it can grow with us. ... Working in two week sprints, the Hitachi team was able to deliver and demonstrate value throughout the engagement and respond to rapidly changing market conditions.”**

**Mark Kim**  
Chief Operating Officer, MSRB

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# Accelerating Digital Transformation

Logan Aluminum is the largest single-can sheet facility in North America, supplying more than two billion pounds of aluminum for canned beverages. The company wanted to improve employee safety and optimize production-line machinery and performance to increase a competitive advantage. It also wanted to move forward in its digital transformation journey. Hitachi Vantara provided skills and technologies to support various digital initiatives and unlock new data insights.

## OUTCOME

- Achieves richer data insights: Smarter processes unlock potential for greater efficiency, safety, quality on production line.
- Accelerates digital transformation journey.
- Optimizes production line machinery and performance.
- Boosts productivity, safety and quality.
- Increases competitive advantage.

**Products:** Lumada Manufacturing Insights and Lumada Video Insights from Hitachi's Lumada portfolio

**Services:** Digital Value Optimization Service and Cloud Application Modernization Services from Hitachi Vantara

**Solutions:** Digital Value Enablement for Manufacturing

Industry: Manufacturing



**Hitachi Vantara's expertise has helped ensure the successful digital transformation essential to Logan Aluminum as the market evolves. By digitalizing our processes and unlocking our data, we will be able to deliver the best products to our customers in an increasingly competitive market."**

**Vijay Kamineni**

Business Transformation Leader, Logan Aluminum

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# Building Governance and Automation

Fannie Mae is a \$110 billion source of financing for mortgage lenders. To create a modern data environment that ensures the right data gets to the right person at the right time, Fannie Mae wanted to transition to an agile, more responsive data lake. This would mean efficiently prepopulating a data lake with needed dataset properties, providing API based automation, and enabling ingest of more than 10 million files per day. Hitachi's Lumada Data Catalog provides the automated solution to handle this level of files daily and supports a user interface with custom search properties.

## OUTCOME

- Self-service data catalog for business users.
- Cataloged custom properties attached to each dataset.
- APIs to automatically process datasets.
- Millions of files cataloged per day.
- Increased competitive advantage.

**Products:** Lumada Data Catalog and Lumada Data Services from Hitachi's Lumada portfolio

**Solutions:** Data Management and Analytics

Industry: Financial Services



**With Waterline\* we were able to fully automate and accelerate the cataloging and searchability of data to deliver game-changing value to the business.”**

**Prakash Jaganathan**

Data Management Leader, Fannie Mae

\*Hitachi Vantara acquired Waterline Data in 2020

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# Fast-Tracking a New Medical Platform

The Dallas-based American Heart Association (AHA) is the oldest and largest voluntary organization in the U.S. dedicated to fighting heart disease and stroke. The AHA wanted to create a centralized research repository to enable easy data access and collaboration among researchers and to save time and money previously spent searching for and replicating work. Cloud Application Modernization Services from Hitachi Vantara provided a foundation for the solution: AHA's Precision Medicine Platform.

## OUTCOME

- Facilitates research collaboration and innovation in diverse and secure data marketplace.
- Provides increased visibility and access to a variety of data, as well as better collaboration tools.
- Monitors movement and status of data.
- Operates on well-architected, secure, seven-layer virtual private cloud.

**Services:** Cloud Application Modernization Services from Hitachi Vantara  
**Solutions:** Cloud Solutions

Industry: Healthcare



**The platform will harness the power of big data to revolutionize the way cardiovascular research is performed and speed the promise of precision cardiovascular medicine. Hitachi Vantara cloud services were instrumental in bringing to life a rich and diverse data marketplace where researchers can work collaboratively and securely, to advance cardiovascular outcomes with the speed and precision that has not been possible until now.”**

**Jen Hall**

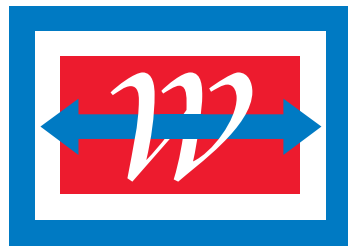
Chief of the Institute of Precision Cardiovascular  
Medicine, American Heart Association

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# Securing Safer, Smarter Ferry Operations

NY Waterway operates 35 vessels and carries over eight million passengers per year along a 100-mile corridor of New York Harbor and the Hudson and East Rivers. To advance public safety, the company wanted to improve connectivity across the water, while enabling video feed from boat camera to be remotely viewable at any time. The Hitachi Visualization Suite dashboard aggregates data from incoming sources into a common, real-time operational picture, delivering full situational awareness.

## OUTCOME

- Real-time monitoring and communication across moving vehicles and throughout terminals.
- Seamless integration of disparate data and video systems.
- Single-dashboard visibility.
- Interagency collaboration capabilities.
- Smarter, safer waterways.

**Products:** Hitachi Visualization Suite and Hitachi's Lumada Video Insights

**Solutions:** Hitachi Smart Spaces — Public Safety and Visualization

**Industry:** Transportation



**We have helped develop [with Hitachi] a very holistic environment for public safety and preparedness. NY Waterway can more quickly and accurately respond to an event that might be occurring on the water or in a terminal.”**

**Anil Sookoo**

Principal, A.A.S Technologies

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# Transforming Citizen Services

Andhra Pradesh is India's eighth largest state in terms of area and is home to 53 million citizens. The state wanted to establish a center to improve public safety and welfare. The center needed to gather data on and analyze weather, soil, crops and livestock, as well as issue warnings and coordinate relief efforts when natural disasters occur. Hitachi designed and developed the Real Time Governance center, which monitors activity across the 13 districts; gathers data from cameras, sensors and other departments; and coordinates responses to emergency events, including detailed disaster mitigation plans.

## OUTCOME

- Reduces processing time for citizen services.
- Lowers crime rate and improves quality of life.
- Consolidates camera and sensor information from across 13 districts of Andhra Pradesh and integrates information from 30 departments into one dataset.
- Coordinates complete rescue response, identifies flood areas, and manages evacuations.

**Products:** Hitachi's Lumada Video Insights, Hitachi Visualization Suite

**Services:** Data Modernization Services

**Solutions:** Hitachi Smart Spaces

**Industry:** Government



**We now have a single source of truth. Hitachi was helpful bringing in the center in the shortest possible time. Now, our 30 departments are synced with the Real Time Governance Center.”**

**Mr. Nara Chandrababu Naidu**

CEO, Real Time Governance, His Honorable Chief Minister  
Government of Andhra Pradesh

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# Optimizing Resources and Costs

Bell Canada, the largest in-country telecom provider, serves tens of millions of customers with mobile, internet and TV service. To improve business decisions, the company sought to simplify access to business-critical data and optimize processes. Using both Pentaho Data Integration and Pentaho Business Analytics (part of Hitachi's Lumada DataOps Suite) the Hitachi team aggregated 300GB of Bell data into a single platform and made it available for reporting and analytics in real-time.

## OUTCOME

- Reporting simplified.
- Data management optimized with reduction in costs.
- Data access automated 24/7.
- Smarter analytics support better business decisions with a 360-degree view of services operation.

**Products:** Pentaho Data Integration and Pentaho Business Analytics

**Solutions:** Intelligent Data Operations

**Industry:** Telecommunications



**Ultimately, with greater visibility of data fueling more meaningful insights across the organization in terms of employee utilization, resource-capacity management, project health and billing, the professional services team can make better, more proactive decisions and safeguard the company's competitive advantage. Hitachi Vantara has shown us that it's a true partner to customers."**

**Jude Vanniasinghe**

Sr. Manager of Business Intelligence  
Bell Business Markets Shared Service

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# Delivering Rapid ROI

Fail-Safe IT Solutions Oy is a fast-growing IT services provider headquartered in Helsinki, Finland. With approximately 30 staff and consultants, the company offers products and services for compliance and service management. To boost cost-effectiveness and enable global business expansion, Fail-Safe opted for a software-as-a-service (SaaS) approach. The Hitachi team integrated Pentaho software from Hitachi's Lumada portfolio with the Fail-Safe Record Management Solution to launch a scalable cloud service and used Hitachi object storage as an archive.

## OUTCOME

- Supports business expansion into SaaS with a cost-effective pricing model.
- Cuts license fees for clients by up to 70%, enabling return on investment (ROI) in 1.5 months.
- Accelerates speed to market by reducing DevOps tasks by 1 hour per day.
- Minimizes service disruptions with root cause analysis within 5 minutes.

**Products:** Hitachi Content Platform, Pentaho software

**Services:** Data Modernization Services

**Solutions:** Data Operations for Analytics and Object Storage

Industry: Technology



**Thanks to the support we received from Hitachi Vantara, we made quick progress. Pentaho enables closer integration between data processing and storage, giving us direct access to records stored securely in Hitachi Content Platform. This results in a less complex and costly application architecture.”**

**Sami Hyttinen**  
CEO, Fail-Safe IT Solutions Oy

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# Preventing Illegal Deforestation

Rainforest Connection is the first and only platform to generate real-time data on deforestation activity in tropical rainforests. Its goal is to predict deforestation before it happens. Hitachi developed a solution model based on bio-acoustics and data science that can identify potential logging activities before they occur.

## OUTCOME

- Alerts rangers on the ground with advance warning of illegal logging activities.
- Offers a more agile, scalable and secure cloud platform that will safeguard bio-acoustic data.
- Provides the ability to save more trees and animals and reduce global carbon emissions.
- Enhances security with a new platform supported by composable cloud data lake architecture.

**Products:** Hitachi's Lumada solutions for digital innovation

**Services:** Cloud Migration Services from Hitachi Vantara, Cloud Application Modernization Services from Hitachi Vantara, Hitachi's Lumada Data Lake

**Solutions:** Intelligent Data Operations, Edge-to-Cloud Data Infrastructure and Digital Insights via a Modern Data Platform

Industry: Not-for-Profit



**Our activities have significant consequences for people living and working around the rainforests, so we don't want our data getting into the wrong hands. Thanks to the Hitachi Vantara partnership, we now have a secure, agile and scalable cloud solution that will help us protect more rainforests around the world."**

**Bourhan Yassin**  
COO, RainForest Connection

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# Make Your Move Toward Data Modernization

Investment in IT and data modernization can speed your development into an AI-driven enterprise, unlocking DataOps advantages and benefits:

- Better, faster decisions.
- Compliance.
- Business self-services and staff productivity.
- Customer engagement.
- New revenue streams and efficiencies.

If, like these Hitachi customers, you are committed to moving forward to data modernization, a solid strategy is key and we can help. Hitachi builds on 55+ years of information technology innovation, 25+ years of consulting expertise, 800+ cloud migrations, deep vertical experience and global partnerships. We bring the software, tools and expertise to help you develop your data strategy, rapidly move to the cloud and start reaping benefits from your data.

**See where you are** in your data modernization journey.



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GEN-90-A BTD January 2022

