acceldata

How 10 Enterprises **Accelerated Growth and Innovation** Through Data Observability

Enterprise Data Reliability Powered
by Acceldata

In this eBook

LEADING DATA & ANALYTICS PROVIDER

96% Faster Issue Resolution and Scalable Processing

Challenge

A global leader in business data and analytics, needed to modernize how it managed data at scale. Legacy tools struggled with 500B+ rows and petabyte-scale data, causing spiraling compute and storage costs. Siloed data quality processes and slow rule execution led to customers discovering issues first, risking churn and regulatory compliance failures.
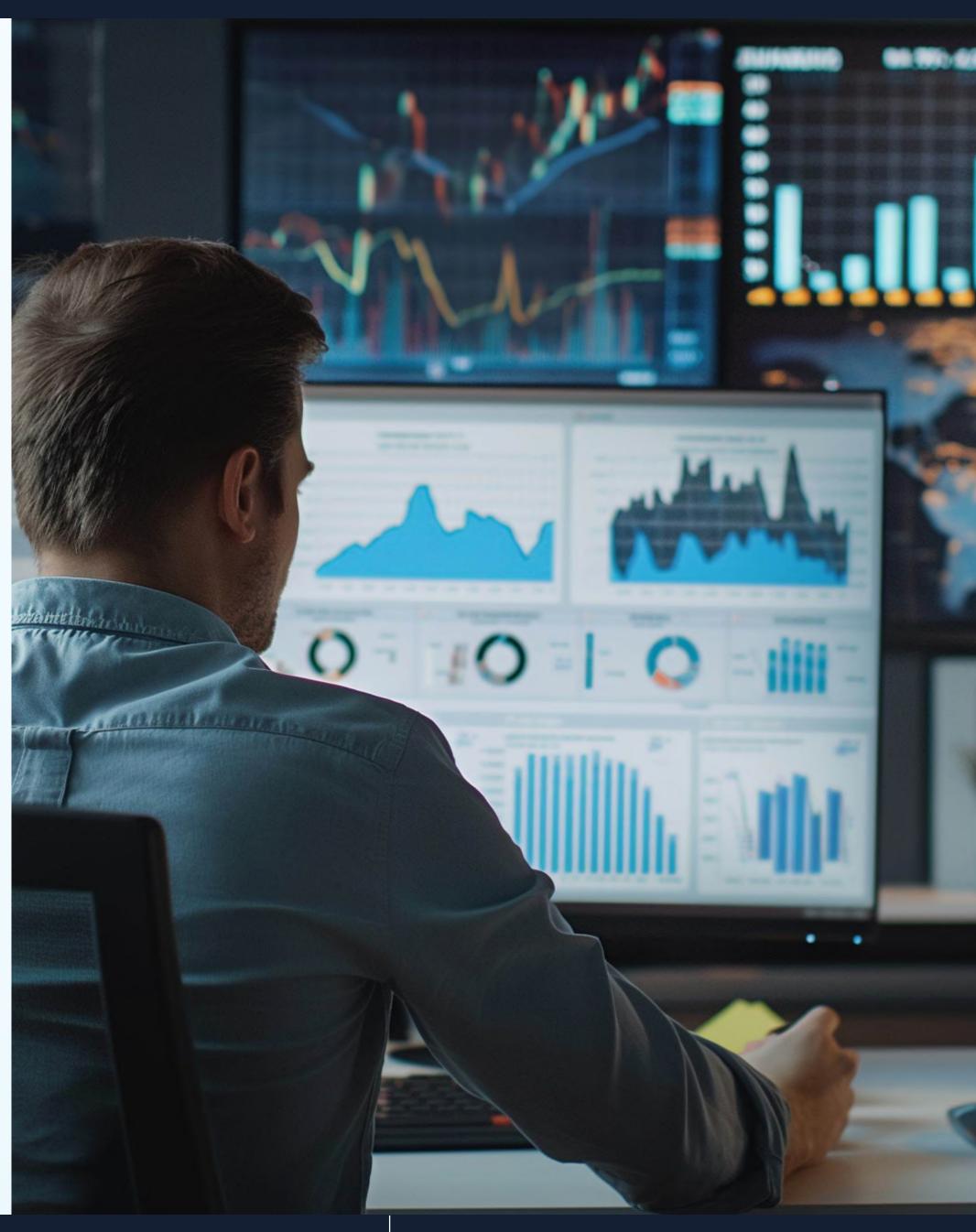
Solution

The company deployed Acceldata All-in-One Enterprise Data Observability platform to overhaul its internal data supply chain. Multi-layer observability, proactive data quality, and AI-driven operations enabled real-time monitoring, automated resolution, and scalable governance across 30PB+ of data monthly.

Use Cases

✦ Data Quality Validation ✦ Pipeline Observability ✦ Compliance & Risk Mitigation ✦ Automated Governance

Benefits

- **96%** reduction in data quality issue resolution time
- **75x** acceleration in data processing speed — from **22 days to 7 hours**
- **6x** increase in monthly data checked volume — **30PB+**
- **20x** improvement in onboarding speed — via automated rule creation
- Significant drop in **churn risk and compliance issues**
- Substantial boost in engineering morale — **focus shifted to innovation**

FINANCIAL SERVICES LEADER

$24M Savings, 70% Faster Data Resolutions, and 5x Productivity Gains for a Top National Bank

Challenge

A leading national consumer bank struggled with data pipeline visibility across thousands of jobs and workflows. Slow issue detection and resolution led to delays in customer insights, regulatory exposure, and high operational overhead.

Solution

The bank implemented Acceldata's Data Observability Platform across 10,000+ data jobs and multiple business lines. This enabled comprehensive monitoring, early anomaly detection, and faster recovery—transforming how data reliability was managed at scale.

Use Cases

✦ Data Quality Monitoring   ✦ Automated Reconciliation   ✦ Scalable Data Governance   ✦ Risk Mitigation

✦ Pipeline Anomaly Detection   ✦ Multi-team Observability at Scale   ✦ End to End Incident Management

Benefits

- **10,000+** data jobs continuously monitored
- **70%** reduction in time-to-detect and triage issues
- **3x** increase in data issues resolved before downstream impact
- **50%** reduction in MTTR across all major pipelines

- **5x** increase in data quality team productivity.
- **100s** of issues auto-resolved monthly, reducing manual effor
- **$24M+** in projected annual savings from streamlined data operations

> *"We now detect and resolve issues across our data ecosystem in hours, not days—giving every business unit reliable, fast data."*
>
> **- Director of Data Engineering, Top National Bank**

PhonePe | Walmart

2000% Scale and 99.97% Uptime for Payments Infrastructure

Challenge

PhonePe, a digital payments leader, struggled to maintain reliability and performance across its expanding data infrastructure. Managing 40+ open-source technologies like HBase, Hive, and Spark under rapid user growth created frequent Sev-1 incidents, prolonged outages, and rising costs, impacting one of the world's largest instant payment systems.

Solution

PhonePe deployed Acceldata Pulse, Data Observability for Hadoop, to monitor data pipelines in real-time, eliminate daily firefighting, and enhance system reliability. The solution enabled 24/7 visibility, rapid root cause analysis, and performance optimization across massive Hadoop and HBase clusters.

Use Cases

✦ Real-Time Data Pipeline Monitoring

✦ High-Volume Infrastructure Scaling

✦ Anomaly Detection and Resolution

✦ Cost Optimization and Efficiency

Benefits

- **2000%** scale-up — from **70 to 1,500+** Hadoop nodes.
- **99.97%** availability maintained across Big Data infrastructure.
- **Zero Sev-1** incidents recorded over **18+ months.**

- **$5M+** saved annually in software licensing costs.
- **55%** improvement in overall data processing speed.
- Scaled to support **350M+ users** and **$650B** in annual transactions.

> *Acceldata supports our hyper-growth and helps us manage one of the world's largest instant payment systems. PhonePe's biggest-ever data infrastructure initiative would never have been possible without Acceldata.*
>
> **- Burzin Engineer, Founder & Chief Reliability Officer, PhonePe**

LEADING MULTINATIONAL BANK

Lower Data Lake Costs and Improved Operational Resilience with no Vendor Lock-Ins

Challenge

One of the largest banks in Europe, faced escalating costs from Cloudera and poor operational tooling from legacy vendors. Their business-critical data lakes managed thousands of pipelines, but inefficiencies were impacting operational resilience, leading to risks of mobile banking outages and regulatory fines.

Solution

The bank implemented Acceldata All-in-One Enterprise Data Observability platform and Acceldata Pulse, Data Observability for Hadoop, to optimize data lake operations. The platform reduced costs, improved resilience, and delivered actionable insights, eliminating dependency on proprietary technologies like Cloudera and Confluent.
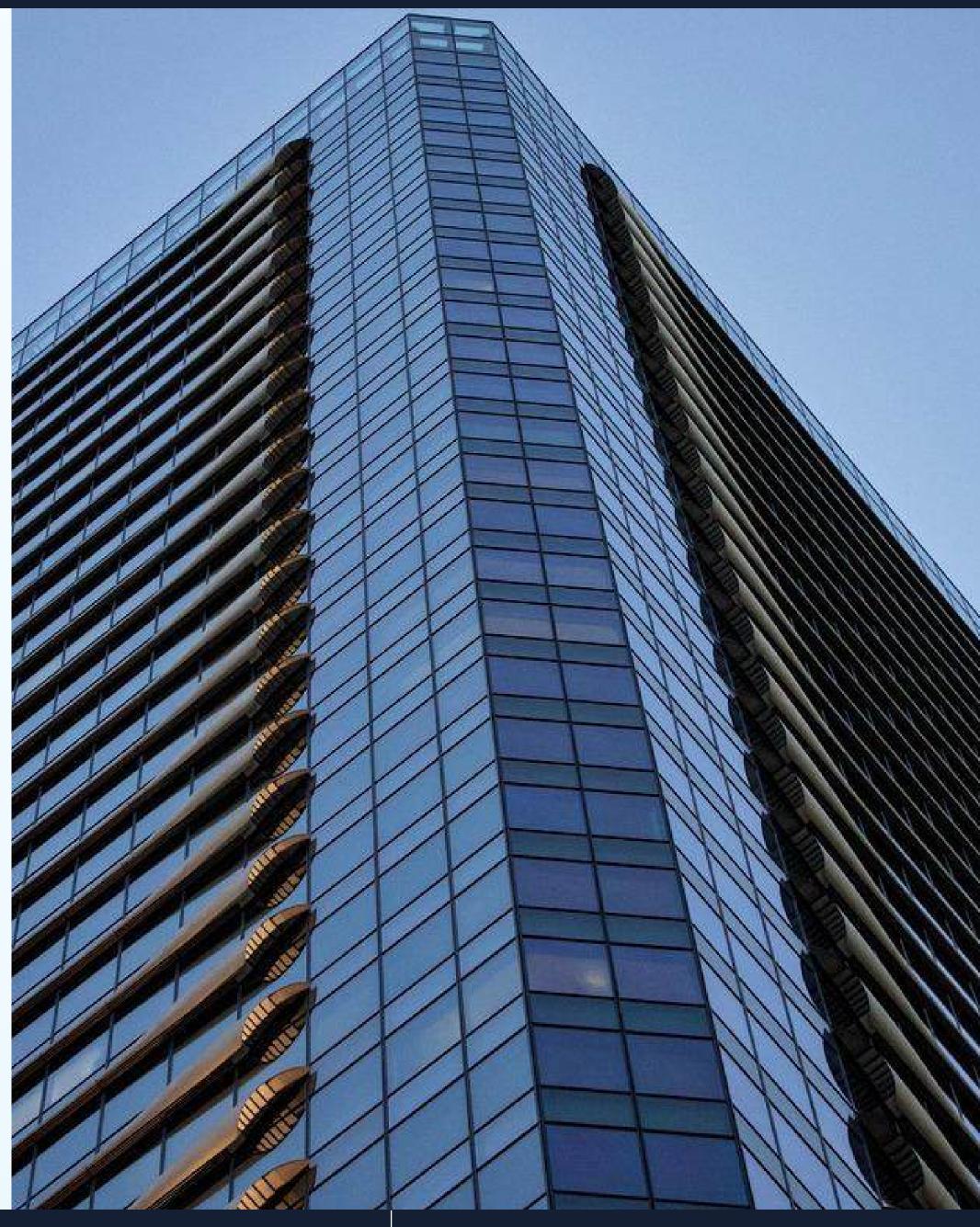
Use Cases

✦ Data Lake Cost Optimization

✦ Operational Resilience Improvement

✦ Vendor Lock-In Elimination

✦ Faster Data Issue Resolution

Benefits

- **Reduced** costs associated with running business-critical data lakes
- **Improved** operational resilience and visibility into system performance
- **Accelerated** issue resolution to reduce downtime risks

- **Eliminated** dependency on proprietary vendors like Cloudera and Confluent
- **Strengthened** regulatory compliance and ensured business continuity

Acceldata has changed the cost dynamics of our data lake operations, boosting resilience and eliminating our reliance on proprietary vendors.

- Data Operations Executive

LEADING LIFE SCIENCES ENTERPRISE

Trusted, Scalable Data Products with Faster Time-to-Market

Challenge

A leading Life Sciences enterprise needed to scale its data landscape to serve a growing user base and rapidly expanding datasets. Ensuring trust in data and operational intelligence was critical to reduce customer churn, minimize time and labor costs, and meet accelerating business demands.

Solution

The Life Sciences leader implemented Acceldata All-in-One Enterprise Data Observability platform to deliver trusted, reliable data products. The platform provided rapid data delivery and certification, improved infrastructure optimization, and enhanced data-driven decision-making capabilities across both on-premise and cloud environments.

Use Cases

✦ Data Product Reliability

✦ Operational Intelligence

✦ Infrastructure Cost Optimization

✦ Hybrid (On-Prem + Cloud) Support

Benefits

- **Dramatic** reduction in time to launch new data products
- **Accelerated** data-driven decision-making through faster certification
- **Optimized** infrastructure costs to support scalable operations

- **Strengthened** trust and reliability across the expanding data landscape
- **Reduced** customer churn and lowered operational overhead

Acceldata enables us to grow and scale seamlessly by ensuring data reliability, operational intelligence, and cost-efficient support for both on-premise and cloud environments.

- Data Platforms Executive

LIFE SCIENCES PIONEER

Real-Time Data Reliability and Cost Visibility Across Snowflake and Databricks

Challenge

A Life Sciences pioneer enterprise transitioned from a legacy Customer Data Warehouse (CDW) to Snowflake and Databricks. The team needed real-time visibility into operational performance and spend to ensure reliable reporting data, critical for timely, accurate business decisions.

Solution

The company deployed Acceldata All-in-One Enterprise Data Observability platform for Snowflake and Databricks. The platform delivered real-time monitoring, reduced anomalies in business-critical reporting, and provided comprehensive infrastructure optimization and chargeback mechanisms.

Use Cases

✦ Real-Time Data Reliability

✦ Infrastructure Cost Optimization

✦ Chargeback Enablement

✦ Performance Monitoring and Alerting

Benefits

- **Reduced** anomalies and errors in business-critical reporting
- **Improved** decision-making through real-time performance alerts
- **Achieved** full visibility into infrastructure costs and usage

- **Enabled** comprehensive chargeback mechanisms for cost accountability
- **Strengthened** trust in data for high-stakes business operations

Acceldata helped us deliver reliable, trusted data for critical customer analytics, supporting better business decisions and optimizing our transition to the cloud.

- Enterprise Data Executive

GLOBAL LIFE SCIENCES ENTERPRISE

10x Faster Data Validation and Millions Saved

Challenge

A global Life Sciences giant needed to optimize data observability and management to support rapid drug discovery and operational efficiency. Escalating Snowflake and AWS costs, inefficient data quality processes, fragmented monitoring tools, and stringent security requirements created major barriers to scaling their data ecosystem.

Solution

The Life Sciences enterprise implemented Acceldata All-in-One Enterprise Data Observability platform to automate data management, monitor Snowflake and AWS in real time, and optimize costs with chargeback mechanisms. As part of the rollout, 83+ SQL DQ rules were replaced across eight domains, and pipeline monitoring between Airflow and Snowflake was established to support cost optimization and reporting.

Use Cases

- ✦ Automated Data Management
- ✦ Multi-Cloud Observability (Snowflake, AWS)
- ✦ Cost Optimization and Chargeback
- ✦ Security and Compliance Monitoring

Benefits

- Automated data operations reduced manual effort and improved reliability across 8 data domains.
- **Optimized** Snowflake and AWS usage — projecting multi-million-dollar annual savings
- **Enhanced** data trust by replacing 83+ SQL DQ rules and improving pipeline monitoring

- **Shifted** to a proactive, daily Snowflake-based DQ model — accelerating time-to-insight and reducing ETL dependencies
- **Reduced** dataset validation time from 11 hours to under 1 hour — enabling early-stage DQ metric generation

Acceldata's platform empowers us to automate, optimize, and scale our data operations — improving decision-making, reducing costs, and accelerating innovation.

- Enterprise Data Executive

FINANCIAL CASE STUDIES | **LIFESCIENCES CASE STUDIES** | CPG & RETAIL CASE STUDIES | OTHER INDUSTRY CASE STUDIES

GLOBAL RETAIL LEADER

4x Operational Efficiency for Retail Data Excellence

Challenge

A global retail leader operating across 100+ markets with 2,000+ brands and 30,000+ products faced multiple challenges after migrating from SAP to Snowflake. Poor data quality delayed over 50,000 monthly and annual reports, inconsistent data freshness led to inaccurate inventory planning, incomplete supply chain data limited customer insights, and cloud computing costs rapidly escalated without control.

Solution

The company deployed Acceldata All-in-One Enterprise Data Observability platform for end-to-end monitoring. Data profiling across 63,000 tables, 1,000+ data quality checks, and automated reconciliation delivered reliable, high-quality data. Enhanced BI reporting improved timeliness and accuracy, while visibility into cloud usage drove a 35% reduction in Snowflake costs.

Use Cases

✦ Enhanced BI Reporting   ✦ Cloud Cost Optimization   ✦ Data Reconciliation   ✦ Data Profiling and Quality Validation

Benefits

- **35%** reduction in cloud computing expenses.
- **4x** improvement in operational efficiency.
- Timely, **accurate reporting** enabled by enhanced **data freshness.**

- **1,000+** automated data quality and reconciliation checks.
- Robust **AI-powered anomaly detection** for stronger data reliability.
- Improved **inventory accuracy** and sharper **customer data insights.**

> *Acceldata has opened quite a few doors for us. The Data Reliability aspects have been able to satisfy all of our traditional Data Quality requirements with the additional benefit of measuring as data moves between multiple environments.*
>
> **- Data Governance Executive**

HERSHEY

90% Faster Anomaly Detection Across 200+ Snowflake Warehouses

Challenge

Hershey's faced challenges in monitoring their newly integrated Snowflake environment for cost, usage, and user metrics. Detecting anomalies in cost trends, query spillages, and warehouse timeouts often took weeks, leading to significant uncontrolled Snowflake expenses and operational inefficiencies.

Solution

Acceldata All-in-One Enterprise Data Observability platform for Snowflake provided centralized monitoring with out-of-the-box graphical insights on compute usage trends and anomalies. This eliminated the need for custom in-house tools, reduced manual effort, and enabled faster, proactive management of Snowflake costs.

Use Cases

✦ Snowflake Cost Monitoring   ✦ Anomaly Detection   ✦ Warehouse Optimization   ✦ User Adoption Analytics

Benefits

- **Anomalies** detected in under **2 days** — down from several weeks
- Improved data visibility for **100+ Snowflake users**
- Significant reduction in manual monitoring workload across **200+ Snowflake warehouses**.

- Improved visibility and control over **Snowflake costs.**
- Timely **cost spill alerts** enhancing **financial accountability.**

> *Acceldata provides an "out of the box" environment monitoring solution for Snowflake with very little setup time and a varied selection of metrics that are monitored. Provided graphical representation of numerous aspects of Snowflake usage and trends without having to develop the insights internally. Support has been very responsive to issues and has provided fixes more quickly than most other package vendors I've dealt with.*
>
> **- Enterprise Data Executive**

SAAS ENTERPRISE

Reliable Executive Insights Powered by 40+ Streamlined Data Sources

Challenge

A SaaS technology company struggled for nearly a year to deliver accurate weekly reports to executives due to inconsistencies across 40+ data sources flowing into its Customer Data Platform (CDP). The lack of reliable data slowed departmental operations, disrupted forecasting, and impacted decision-making at the highest levels.

Solution

The SaaS giant implemented Acceldata All-in-One Enterprise Data Observability platform to streamline and monitor its complex data pipeline in real-time. The platform's scalability ensured consistency across all sources, reducing disruptions and drastically improving the accuracy and speed of weekly business-critical reports.

Use Cases

✦ Data Pipeline Monitoring

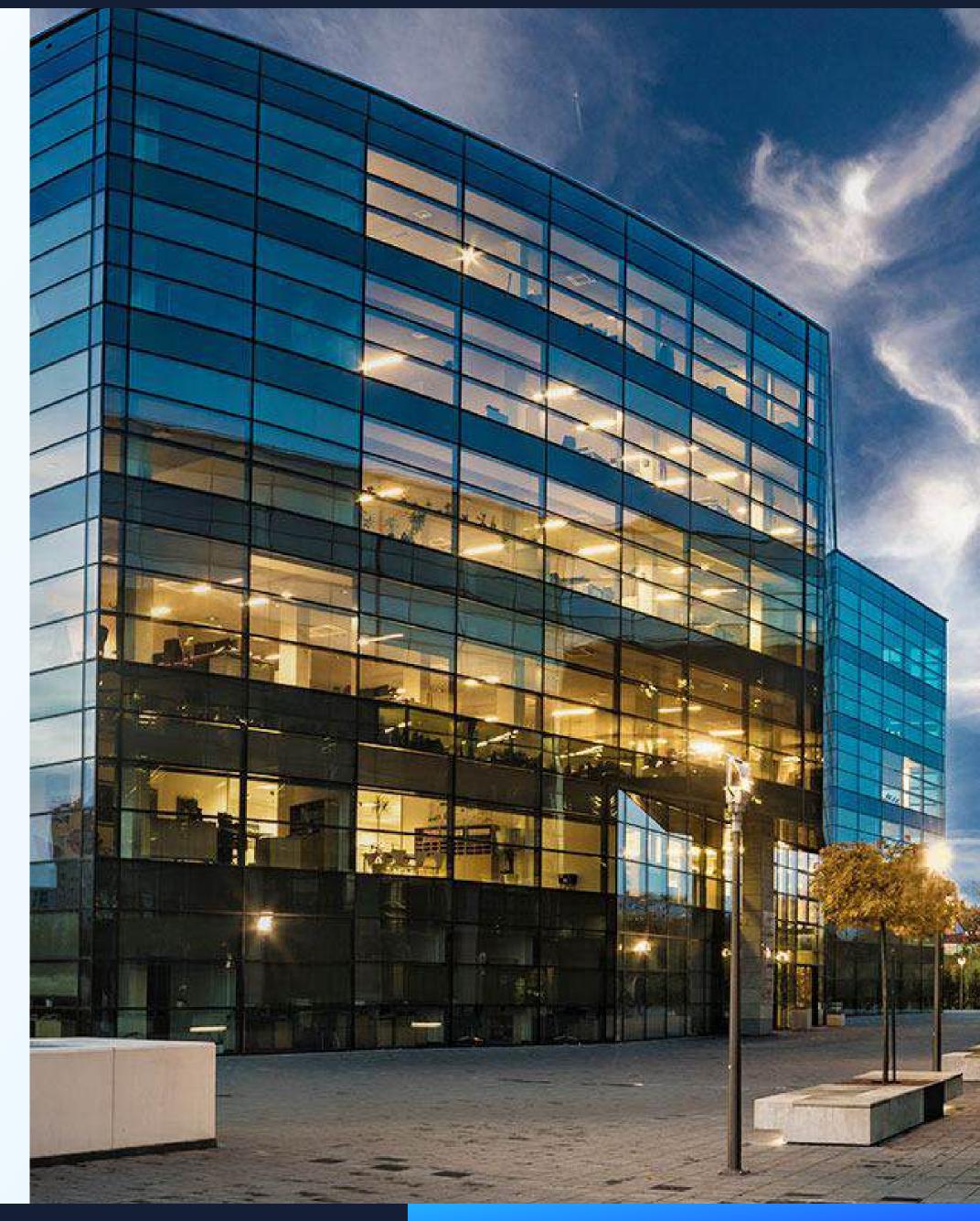✦ Real-Time Data Consistency

✦ Executive Reporting Accuracy

✦ Sales Forecasting Reliability

Benefits

- Streamlined **40+ data sources** into a unified **customer data platform (CDP).**
- Improved accuracy of daily and weekly executive-level **reports & insights.**
- Near real-time monitoring minimized **data inconsistencies** across pipelines

- Accelerated and **strengthened decision-making** for C-level stakeholders.
- **Reduced operational disruptions** caused by data quality issues.

> *With Acceldata, we've gained the confidence to use our sales forecasts and business models at the executive level. The reliability we now have across 40+ sources has eliminated rework and helped drive faster, data-backed decisions*
>
> **- Enterprise Data Executive**

From Data Chaos to AI Confidence

Build Trusted, AI-Driven Data Operations at Scale

Acceldata All-in-One Enterprise Data Observability platform—powered by Agentic Data Management (ADM)—empowers data teams with confidence, control, and intelligence.

Learn More ↗   **Request a Demo** ↗

✦ AI-Native Data Quality and Reliability

✦ Cost Optimization Across Clouds

✦ Comprehensive Lineage & Monitoring

✦ Enterprise-Grade Security

✦ Compliance enablement

✦ Flexible Deployments — PushDown & ScaleOut

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