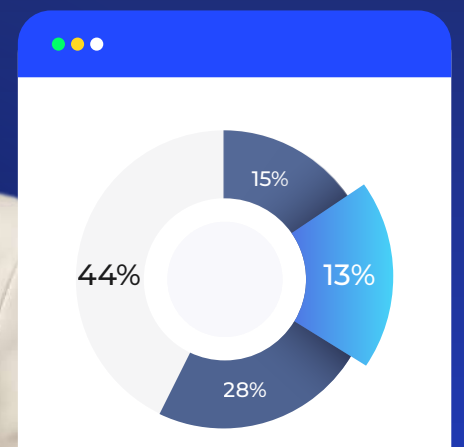


## Case Study

Building a Future-Ready

# Financial Data Platform

for a leading  
financial services  
company



## About our client

Our client is a U.S.-based financial services company. As a fast-growing organization, it is focused on improving its data capabilities to support business scalability, compliance, and operational efficiency.

## Problem Statement

As the company grew, so did the complexity of its data landscape. With approximately 100 million rows of data spread across MySQL, PostgreSQL, and Google Big Data systems, fragmented insights and operational bottlenecks emerged. Their objective is straightforward. It is to empower teams with accurate, timely insights while ensuring compliance and data lineage tracking. Hence, they needed more than just a data warehouse—they needed a robust, scalable, and intelligent data foundation.



## Challenges Faced

1

### Fragmented Data Sources

Data is scattered across multiple databases with no central repository.

2

### Poor Data Quality & Manual Errors

Inconsistent, duplicate, and error-prone financial records affecting revenue tracking, debt management decisions, & regulatory compliance reporting.

3

### Lack of Real-Time Analytics

Slow and manual reporting hinder timely business insights.

4

### Scalability Concerns

Anticipated doubling of data volume over the next two years.

5

### Compliance Risks

Need for GDPR, CCPA, and audit-readiness with robust data lineage and governance.

6

### Limited Self-Service

Non-technical users struggle to generate actionable insights due to lack of self-service BI tools



# Solution Delivered by Polestar Analytics

Polestar Analytics transformed the client's data ecosystem by implementing **1Platform**, our proprietary metadata-driven data management solution on Microsoft Azure. Leveraging 1Platform's capabilities, we created a high-performing, flexible ecosystem tailored for fast growth and tight compliance.

## ✓ Centralized Data Warehouse

Using Data Nexus's advanced DataOps capabilities, we integrated MySQL, PostgreSQL, and Google Big Data into a unified schema.

## ✓ Master Data Management

Nexus-powered deduplication, validation, and a single source of truth for critical financial data.

## ✓ Automation & No-Code Workflows

Drag-and-drop tools for workflow orchestration, enhanced by LLM-based systems that enable true no-code development for business users.

## ✓ Metadata-Driven ETL/ELT Pipelines

For high-speed data ingestion (100M+ rows) with error detection and lineage tracking.

## ✓ Self-Service BI

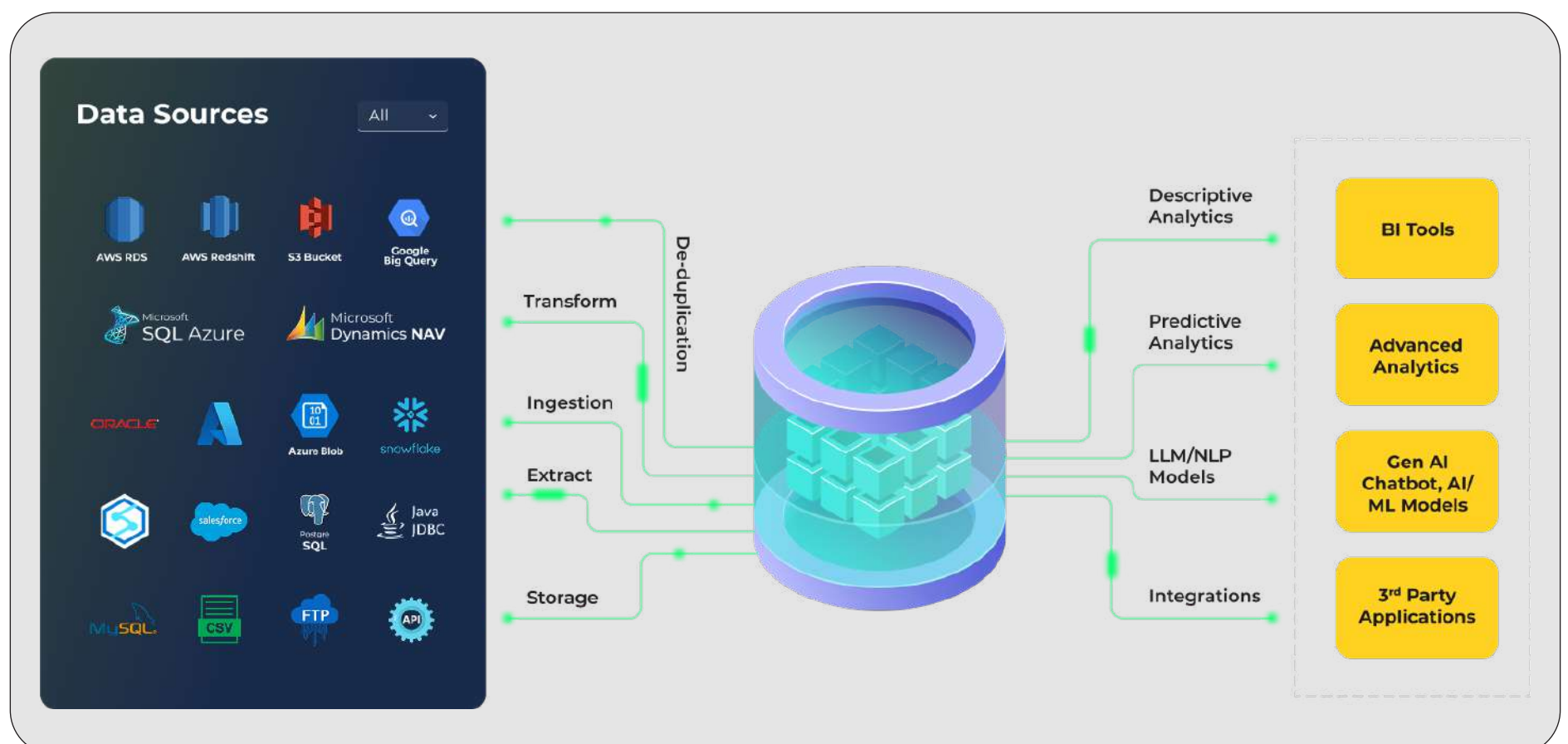
Tableau-based dashboards and predictive analytics tools for end-users.

## ✓ Robust Compliance

Automated governance tools, encryption, and role-based access controls.

## ✓ Scalable Design

Elastic infrastructure built to accommodate 2x data growth.



# Technical Ecosystem (Tech stack)

Category	Tools & Technologies
Cloud Hosting	Microsoft Azure, Azure Kubernetes
Data Sources	MySQL, PostgreSQL, Google Big Data (BigQuery) or AWS ( Redshift)
Data Services	Azure Data Services, IPlatform
BI & Analytics	Tableau (with flexibility to integrate other tools)
Security & Compliance	AES- encryption, Role-based access control, GDPR/CCPA compliance tools, Audit logs 256



## Business Impact

99.9%

**system uptime** ensured continuous availability of critical financial services, eliminating costly business disruptions.

<0.1%

**error rate** dramatically improved data accuracy for financial reporting and customer information management.

100M+

**rows processing capability** with sub-second latency enabled efficient handling of massive financial transaction volumes.

2X

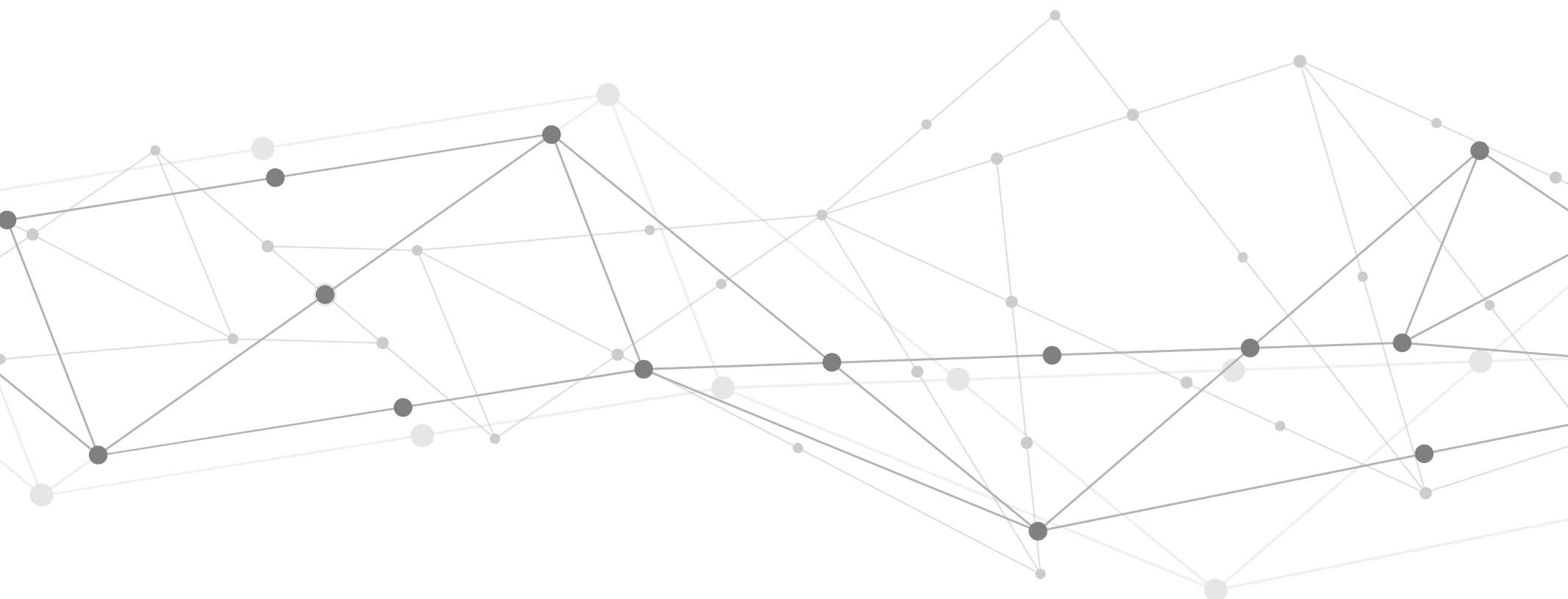
**data growth accommodation** provided a future-proof platform that supports business expansion without performance degradation.

# They're getting ready for tomorrow, today. When will you?

Our client transformed their data challenges into competitive advantages with 1Platform. They're not just solving today's problems—they're building the foundation for future success. The question isn't whether your organization needs this level of data transformation, but how long you can afford to wait.

**Today**

**Tomorrow**



# About Polestar Analytics

Polestar Analytics specializes in creating tailored data solutions for high-growth financial services companies. Our IPlatform technology combines enterprise-grade data management with the agility needed in today's regulatory environment. With a proven track record of successful implementations, we transform data challenges into competitive advantages.

