Orchestrating the Future of Financial Services

Building a Trusted Data Stack with Airflow and Astro



Financial institutions are converging on a set of strategic IT investments centered around data. Over the next three years, firms aim to leverage data more effectively to benefit their businesses through AI, advanced analytics, personalized customer experiences and more. In the guide we outline the top five data-driven investment areas and delve into each initiative's objectives, challenges, and required capabilities, exploring how the Astro DataOps platform built on top of Apache Airflow® can best support them.

Al standard at top 5 bank

Used by over 100 teams for agentic and ML applications

75% Savings

Typical cost reductions after modernizing from legacy schedulers to Astro

Control without compromise

Build on a secure and isolated DataOps platform without giving up cloud-native benefits

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INITIATIVE 1

Data Governance, Security & Compliance Frameworks

Poor data governance exposes banks to compliance risk and undermines trust in Al and analytics.

Astro enforces governance at the orchestration layer. It delivers secure, observable, and policy-aligned workflows that ensure data is trustworthy from source to output.



INITIATIVE 2

Al and Machine Learning Initiatives

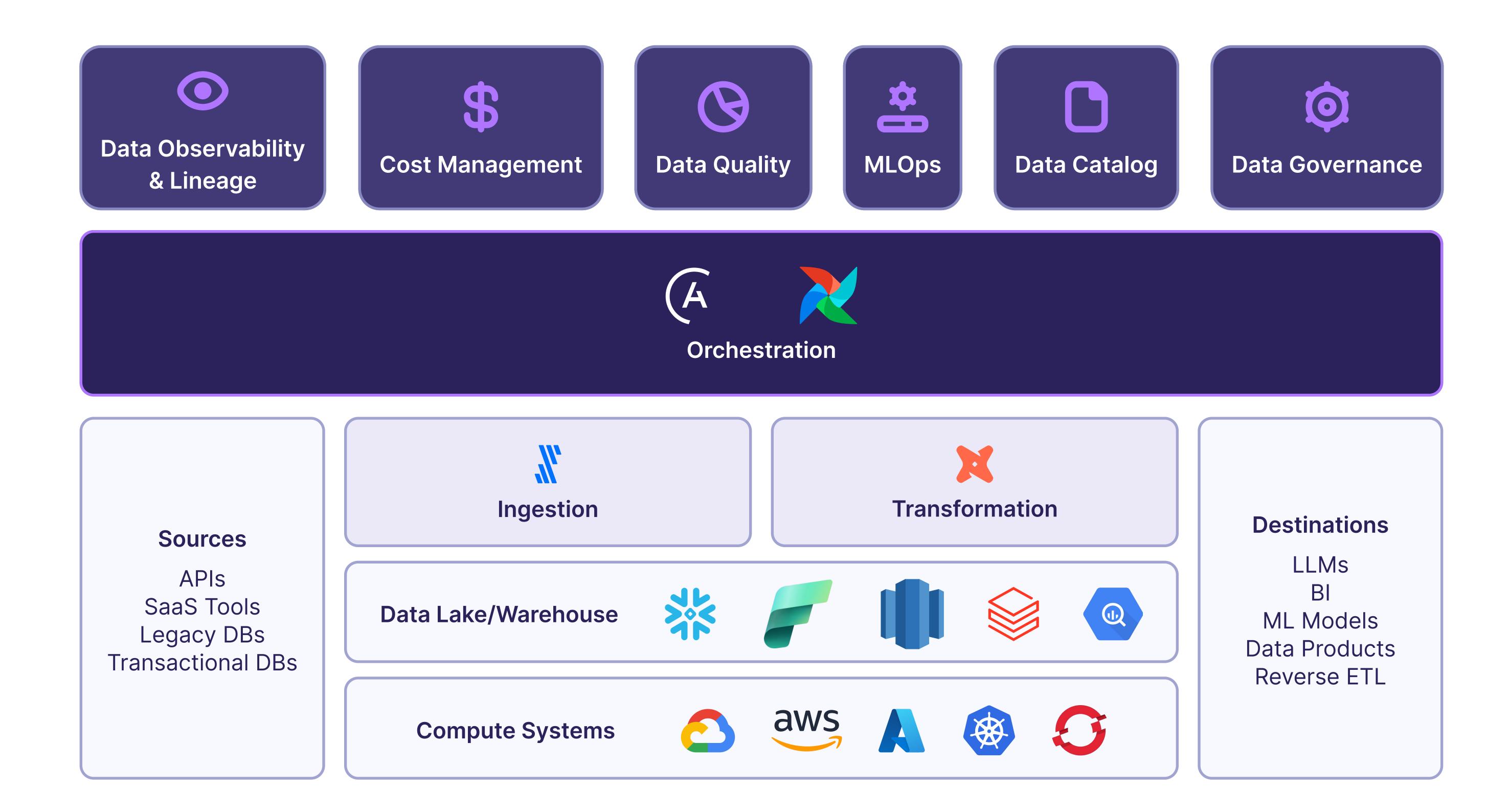
Every institution pilots AI, but few are operationalizing it. Astro combines secure orchestration and DataOps automation to unify training, inference, and agentic workflows. Regulated institutions move from isolated experiments to production-grade, compliant, and continuously improving AI systems.



INITIATIVE 3

Advanced Analytics and Real-Time Insights

Analytics initiatives often fail due to stale data and workflow sprawl. Astro manages governed, real-time data delivery across sources and teams. This accelerates the BI modernization, predictive modeling, and embedded intelligence necessary to support every decision — from trading to treasury.





INITIATIVE 4

Data Platform Modernization

Legacy data platforms drain budgets and block innovation. Astro replaces brittle schedulers with a cloudnative DataOps platform that accelerates modernization, cuts orchestration overhead by up to 75%, and gives teams the agility to scale AI, analytics, and new services faster.



INITIATIVE 5

Data-Driven Customer Experiences & Applications

Fragmented systems and outdated practices limit personalization. Astro unifies pipelines across sources, channels, and teams, enabling real-time customer insights, secure data activation, and multichannel delivery. The result: trusted DataOps powering hyper-personalized apps that drive loyalty, growth, and differentiation.

