THOUGHTFOCUS

ThoughtFocus built **governed reporting at 54-billion-row scale for** global capital markets



About The Client

The firm manages a diversified investment portfolio with approximately **$80B in AUM**, operating across multiple regions and supporting complex reporting requirements across funds and investment strategies.

Business Challenge

The firm's position and trade reporting had outgrown its existing vendor-controlled environment. It needed greater access to reusable data products without relying on vendor internals or disrupting live reporting.

- Vendor views prevented direct access to the underlying tables.
- Change data capture options were limited where database logs were not exposed.
- The firm could not inspect or reuse the vendor's transformation logic.
- Each reporting requirement had different data grains, filters, and entitlements.
- The legacy reporting environment had to remain operational during modernization.

From the legacy estate to the target platform

Reviewed diagram, shown as supplied. It compares the current SQL Server estate with the target PDP / PFS Snowflake platform. Confirm system mappings before publication.

Private Credit | Data platform evolution

Current SQL Server estate compared with the target PDP / PFS Snowflake platform

LEGACY | SQL SERVER

Atlas / Neopolaris

01 **Sources**
Security master | Reference master
Cobalt financials | APIs / files

02 **Acquire**
A3 / TDMS | ADF / TDMS
Confirm exact mapping

03 **Vendor Estate**
SQL Server views, functions, procedures | Facts / dimensions

Reporting-ready objects + consumers

Views / functions / procedures
• Power BI • SSRS • Excel Add-ins

TARGET | PDP / PFS SNOWFLAKE

Private Financial Solutions data platform

01 **Sources**
Atlas | Master data | Cobalt / APIs
CSV / Excel

02 **Acquire**
Fivetran Active Batch (TXMS)

03 **Model**
Snowflake schemas Coalesce
Facts / dimensions

04 **Serve**
Views / functions / procedures

Reporting & AI consumers

Sigma / Wisdom AI • SQL
• Asset Review Summary
• additional reports

Review points

- Keep legacy and target flows separate.
- Coalesce belongs in the Snowflake transformation/modeling flow.
- Validate source-to-ingestion mappings (A3/TDMS, ADF/TDMS and Fivetran) before final sign-off.

Based on the supplied project notes. Unconfirmed system mappings are explicitly flagged for validation.

Solution Overview

ThoughtFocus engineered a Snowflake reporting platform alongside the live SQL Server estate. Using capital markets domain knowledge, the team acquired source feeds and required modeled objects, rebuilt transformations outside the vendor environment, created reusable data products, and exposed authorized information through secure warehouse views.
The solution included:

01

Direct feeds and required SQL Server modeled objects through separate acquisition paths.

02

Fivetran ingestion where database logs were available.

03

Active Batch for vendor-view and scheduled acquisition paths.

04

New Snowflake transformations that did not depend on reverse-engineering or copying vendor code.

05

Persistent Dimensions, Position, and Trade data products for reuse across reporting requirements.

06

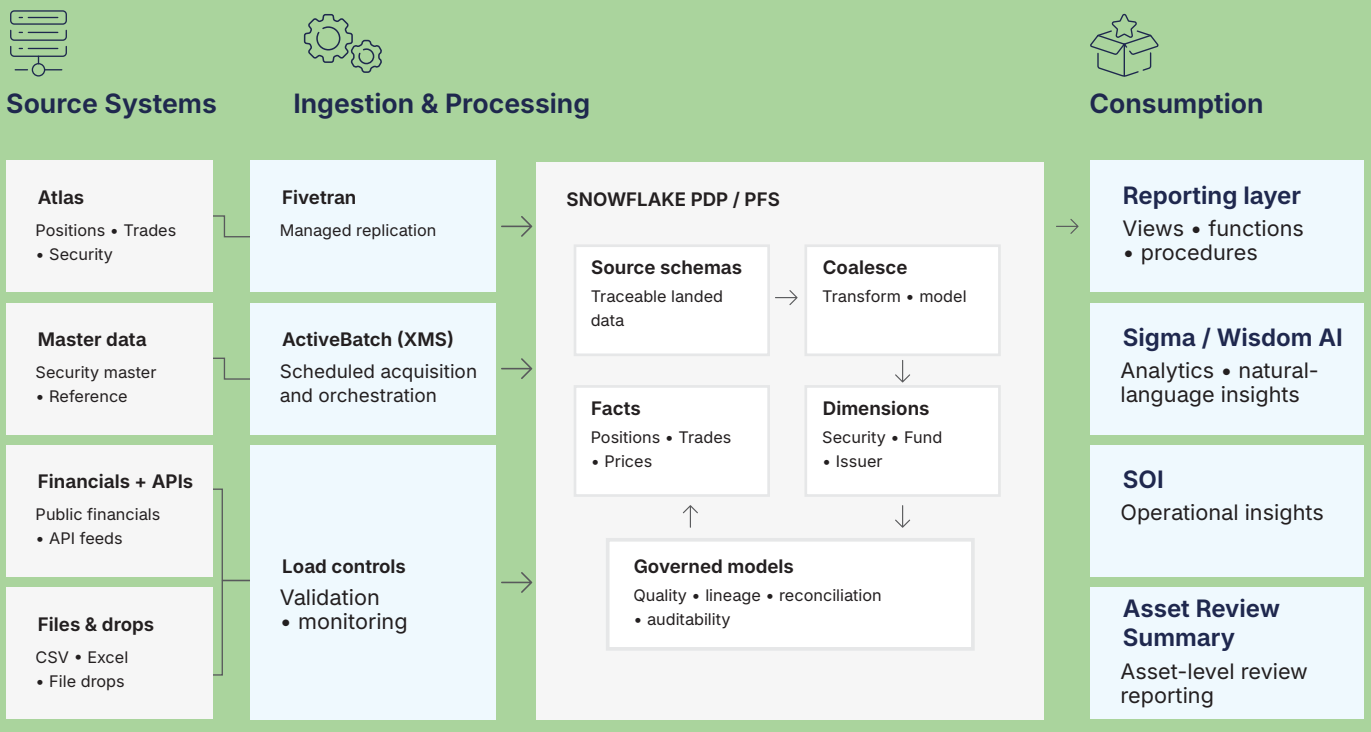
Requirement-specific pipelines with their own grains, filters, and measures.

07

Row-level policies and entitlement-driven views for Private, Public, and Above the Wall data classifications.

Unified data platform architecture

Reviewed target architecture, shown as supplied. Source systems move through Fivetran, ActiveBatch, and load controls into Snowflake schemas, facts, dimensions, and governed models, then out to reporting consumers.
Source systems flow through ingestion, Snowflake source schemas, Coalesce models and governed reporting interfaces.



Cross-cutting controls
Data quality • Governance • Reconciliation • Audit

Business outcomes

The platform is operating in production across a multi-terabyte capital markets reporting estate.

20 source systems

The platform has onboarded 20 source systems.

Approximately 5,900 tables

The production estate includes approximately 5,900 tables.

Approximately 54 billion rows

The platform manages approximately 54 billion rows.

Approximately 2.7 TB of production data

Approximately 2.7 TB of production data is on the platform.

Approximately 10 refreshes per day

The platform supports a reported refresh cadence of approximately 10 times per day.

160 million daily inserts

The resulting data-as-a-product model gives reporting teams a shared foundation built around reusable Dimensions, Position, and Trade products. Teams can create fit-for-purpose reporting views without rebuilding the underlying position model for every requirement. Secure warehouse views control consumption based on user entitlements.

ThoughtFocus helps capital markets firms modernize reporting without losing control.

Talk with ThoughtFocus about building a data-as-a-product foundation for positions, securities, and entitlement-aware reporting.

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