



Actionable Insights for Everyone

Unlocking the value of your data with an AtScale Semantic Layer

Dataversity Demo Day

Dave Mariani, CTO, Founder

June 15, 2022

What does AtScale do?

The industry's only **universal semantic layer** platform delivering **fast**, **secure** and **governed** data for BI and AI/ML teams.

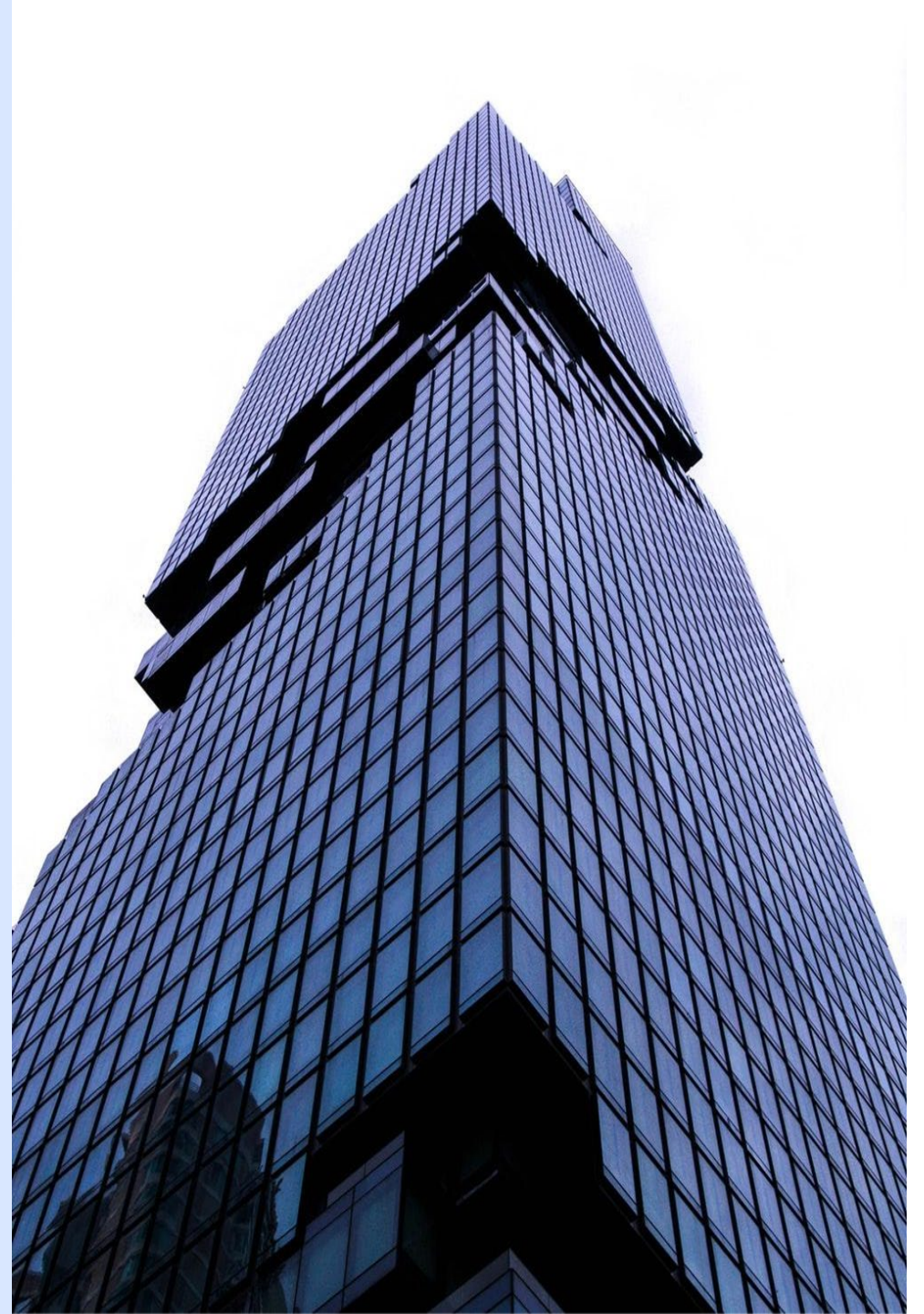
- AtScale **does not move data**.
- AtScale **leverages existing** BI and cloud data infrastructure.
- AtScale **integrates with existing** data security infrastructure.



Why AtScale?

Scale and Performance

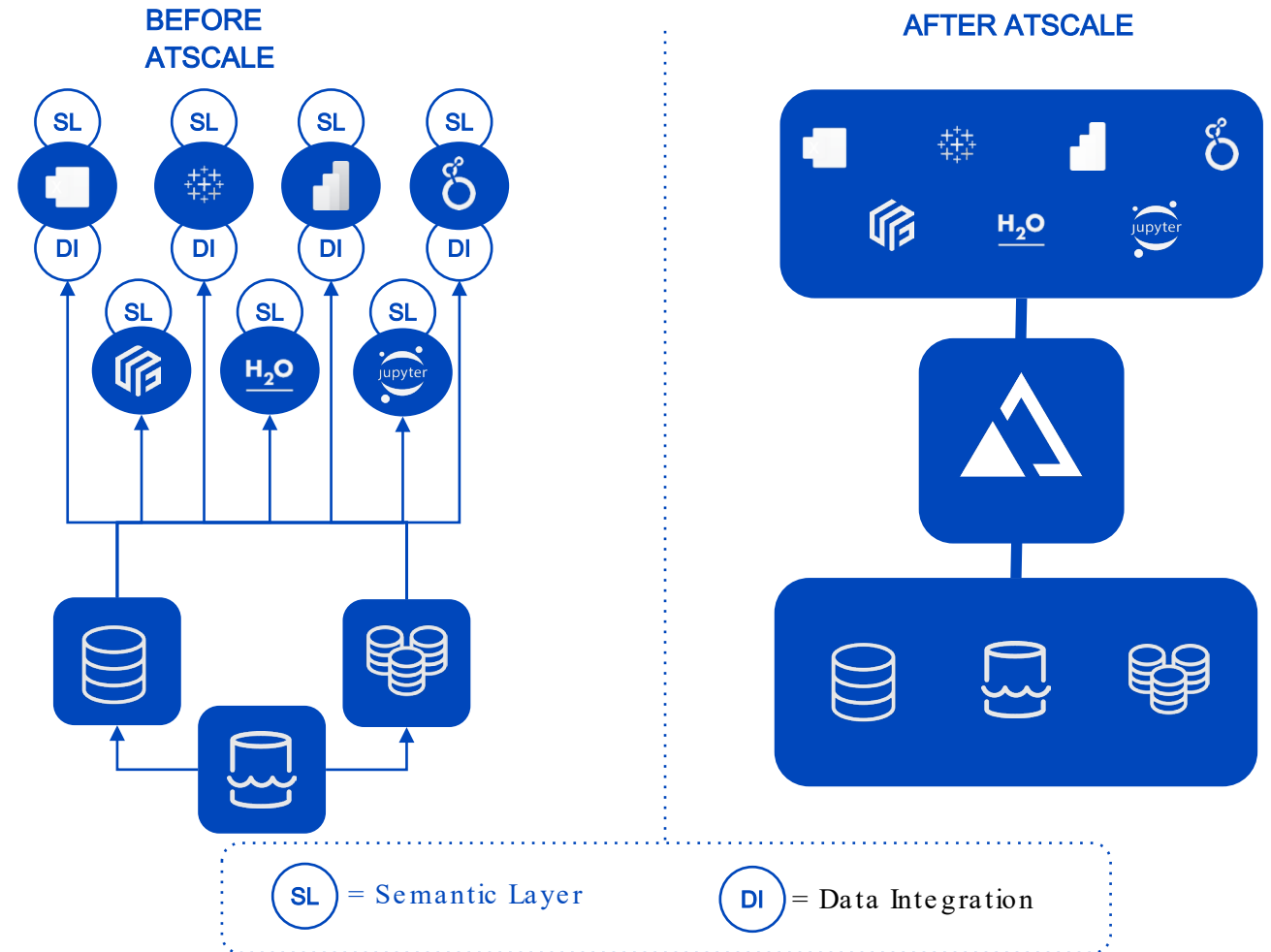
AtScale has a unique approach to accelerating analytics queries on large cloud data sets – delivering **speed of thought performance** – without extracting large data sets or maintaining offline OLAP cubes.



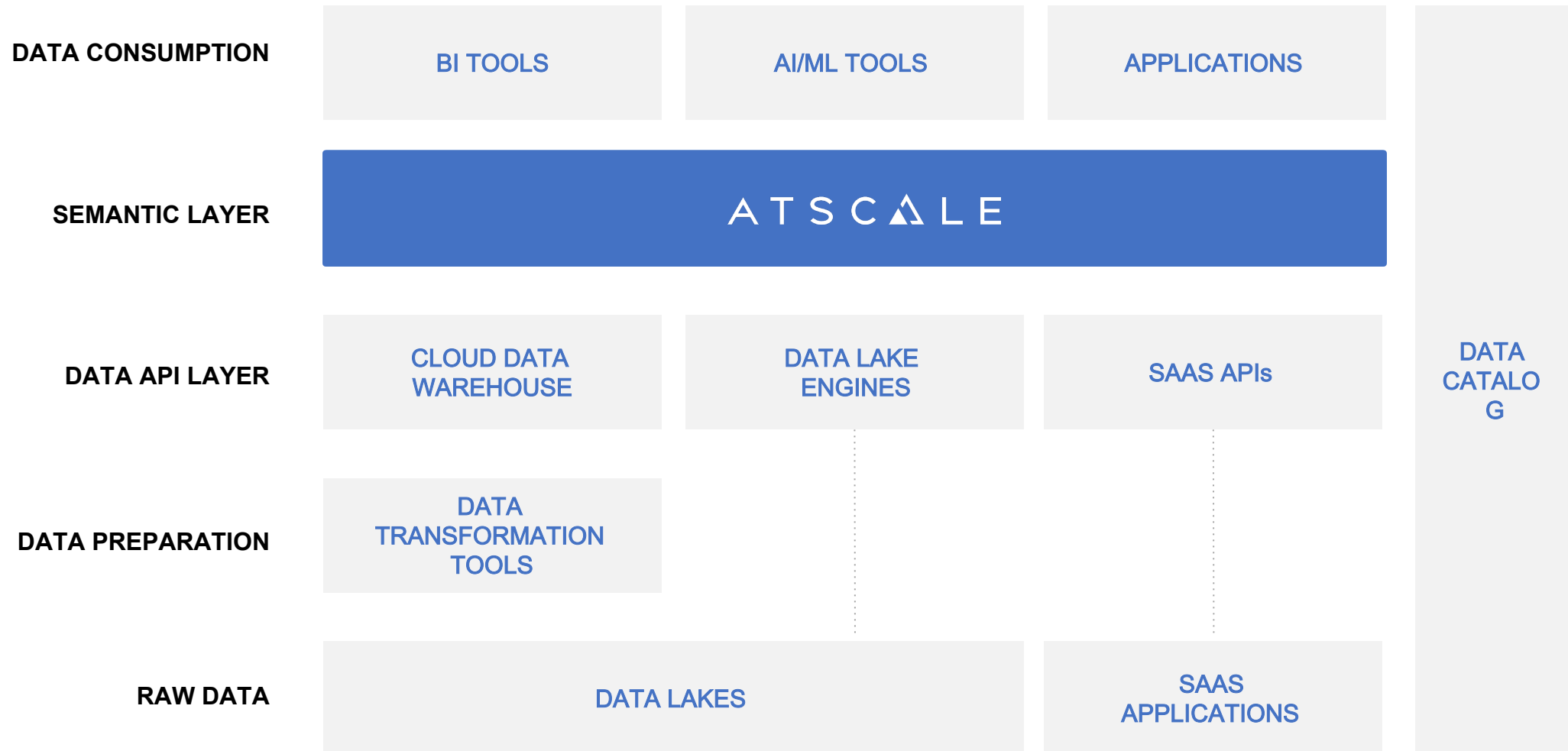
Why AtScale?

Coordination and Governance

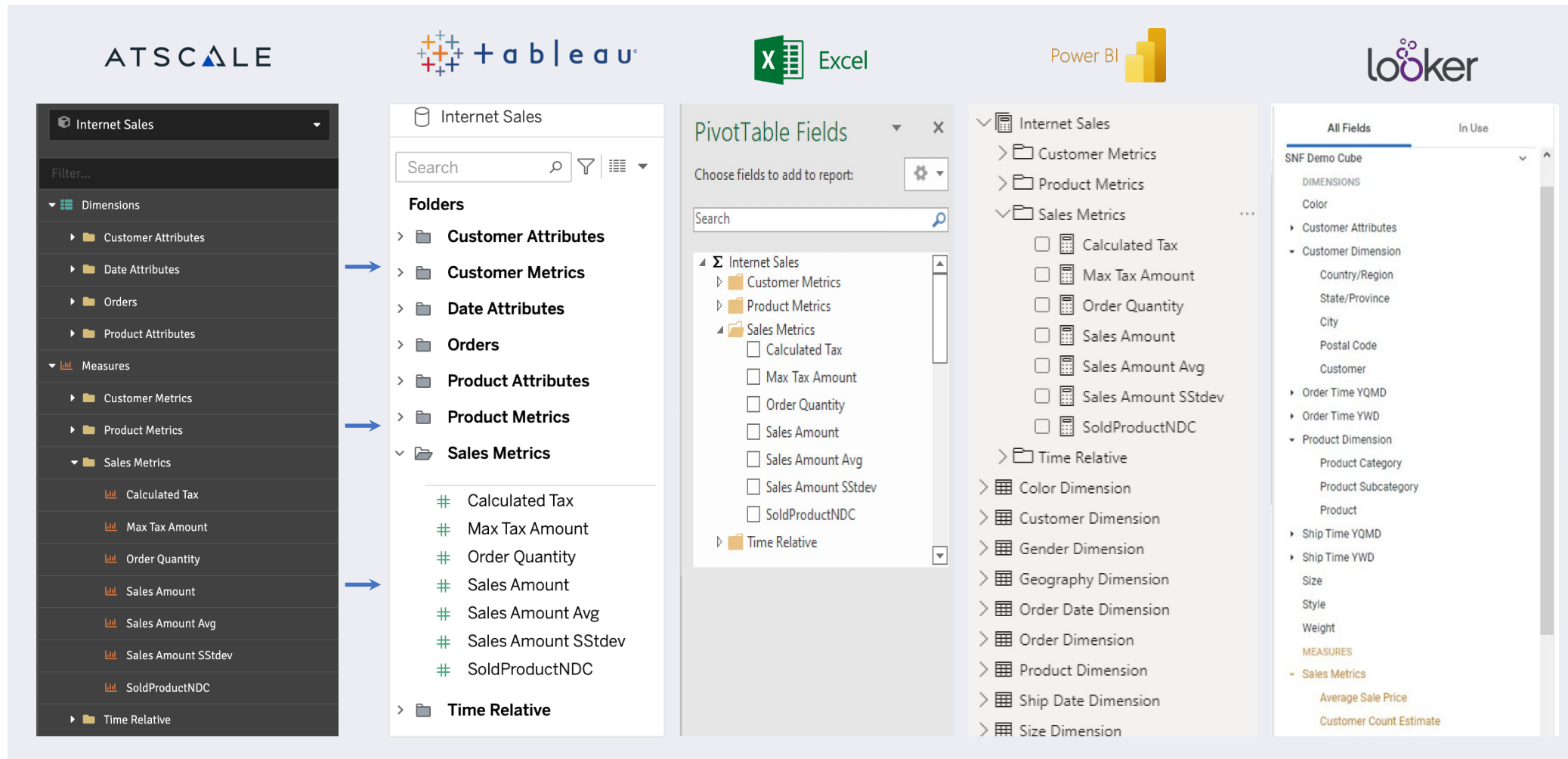
AtScale enables a **hub and spoke** approach to managing analytics. Data teams gain **centralized** control over **governance**, **definitions**, and **pipelines**. Data consumers get flexibility to design and publish their own **data products** and access from **tools of their choice**.



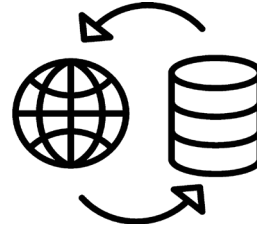
Where does a Semantic Layer fit in the data stack?



The Value of a Universal Semantic Layer

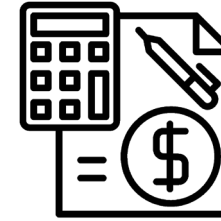


What is a Semantic Layer used for?



CLOUD ANALYTICS OPTIMIZATION

Speed of thought analytics on live cloud data, agile data integration with minimal data movement.



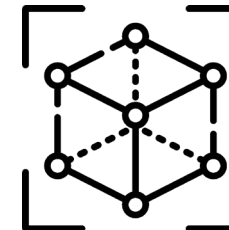
ENTERPRISE METRICS STORE

Single source of governed enterprise metrics that can be self-served from any AI/BI tool.



BRIDGING AI AND BI

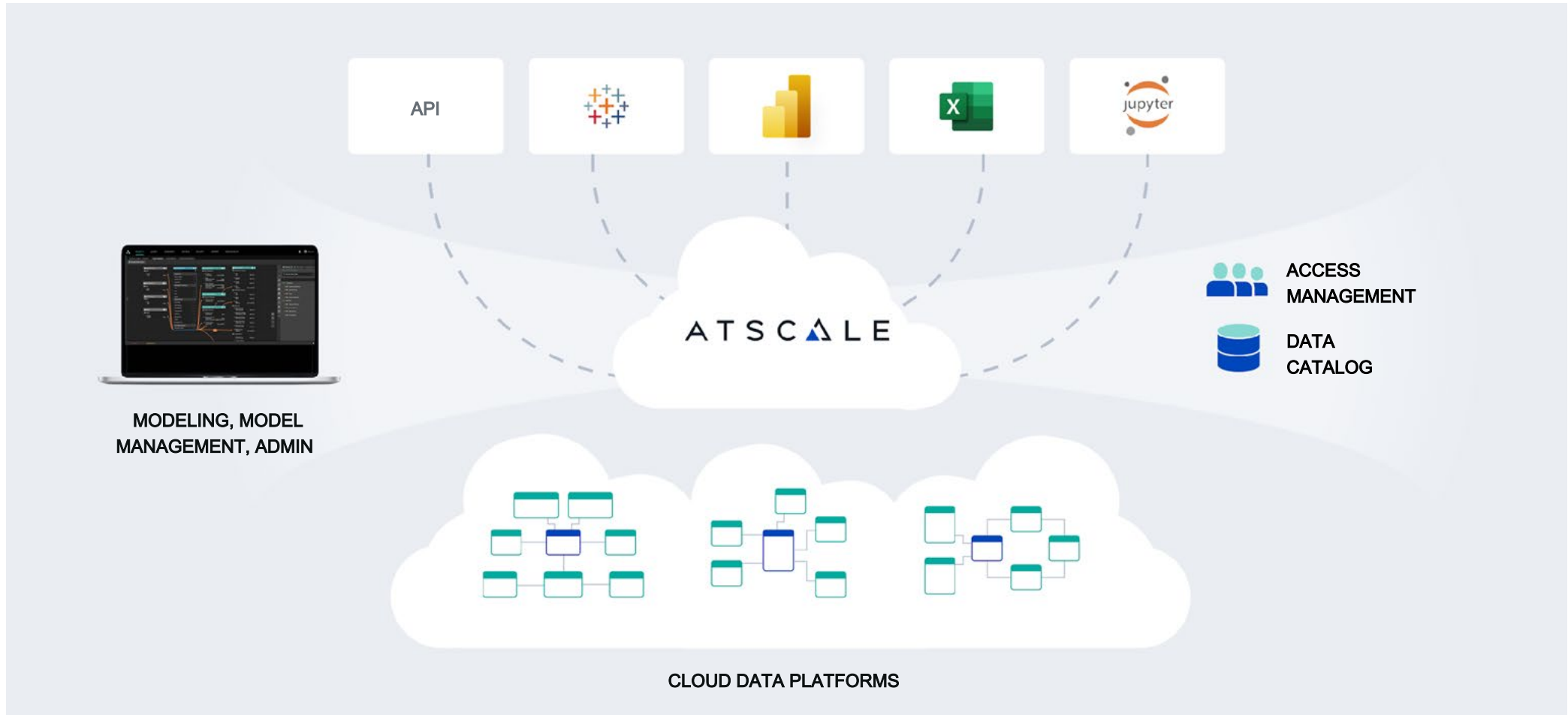
Common view of data assets and platform for publishing AI-generated insights to decision makers.



OLAP MODERNIZATION

Migrate legacy OLAP (e.g. SSAS) models to modern cloud-first infrastructure.

AtScale Demo



TPC-DS 10TB Benchmark: Improvements with AtScale

Test	Improvement Factor with AtScale				
	BigQuery	Redshift	Snowflake	Synapse	Databricks
Query Performance ¹	4x Faster	11x Faster	3x Faster	6x Faster	4x Faster
User Concurrency ²	11x Faster	3 1x Faster	12x Faster	11x Faster	15x faster
Improved ROF ³	3 x Better	4x Better	16x Better	2x Better	6x Better
Complexity ⁴	76% less complex SQL queries				

1. Elapsed time for executing 1 query five times

2. Elapsed time executing 1 (x5), 5, 25, 50 queries

3. Compute costs for cluster time (Redshift, Snowflake) or bytes read (BigQuery) for user concurrency test

4. Complexity score for SQL queries for number of: functions, operations, tables, objects & subqueries (AtScale = 258, TPC-DS = 1,057)



ATSCALE

www.atscale.co

m