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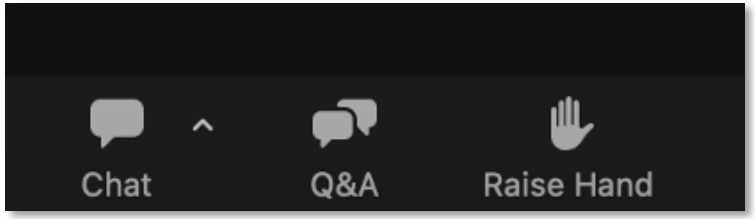
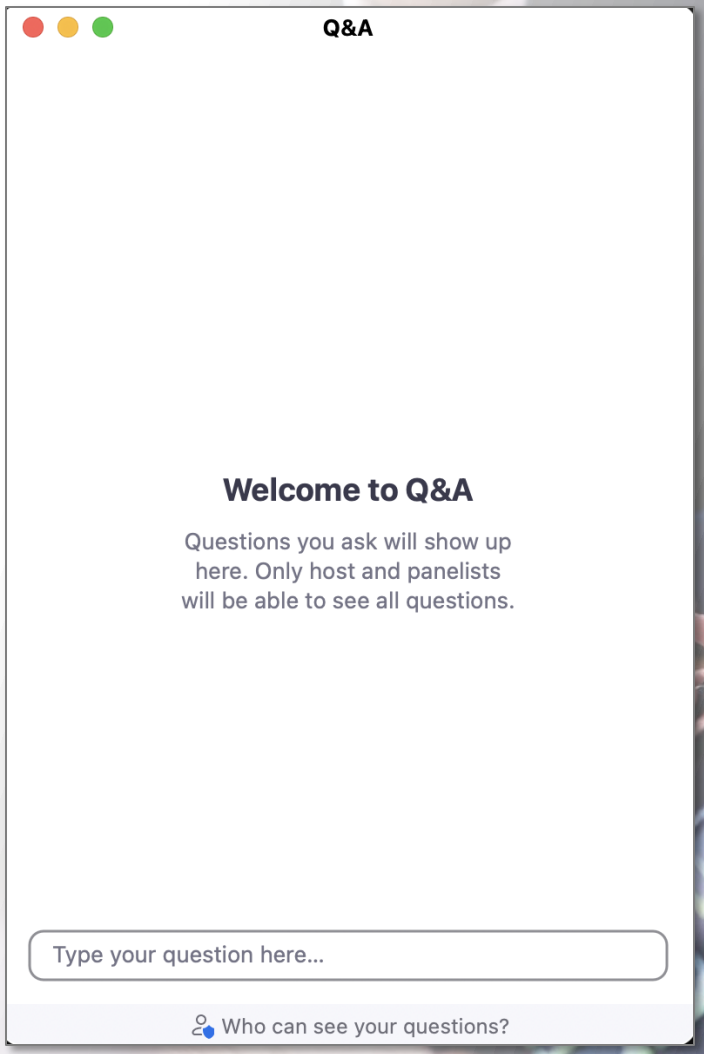
Many BI Tools.
One Semantic Layer in the Cloud to Rule Them All.

Questions?

Click Q&A at the bottom of your screen



Submit questions in this section



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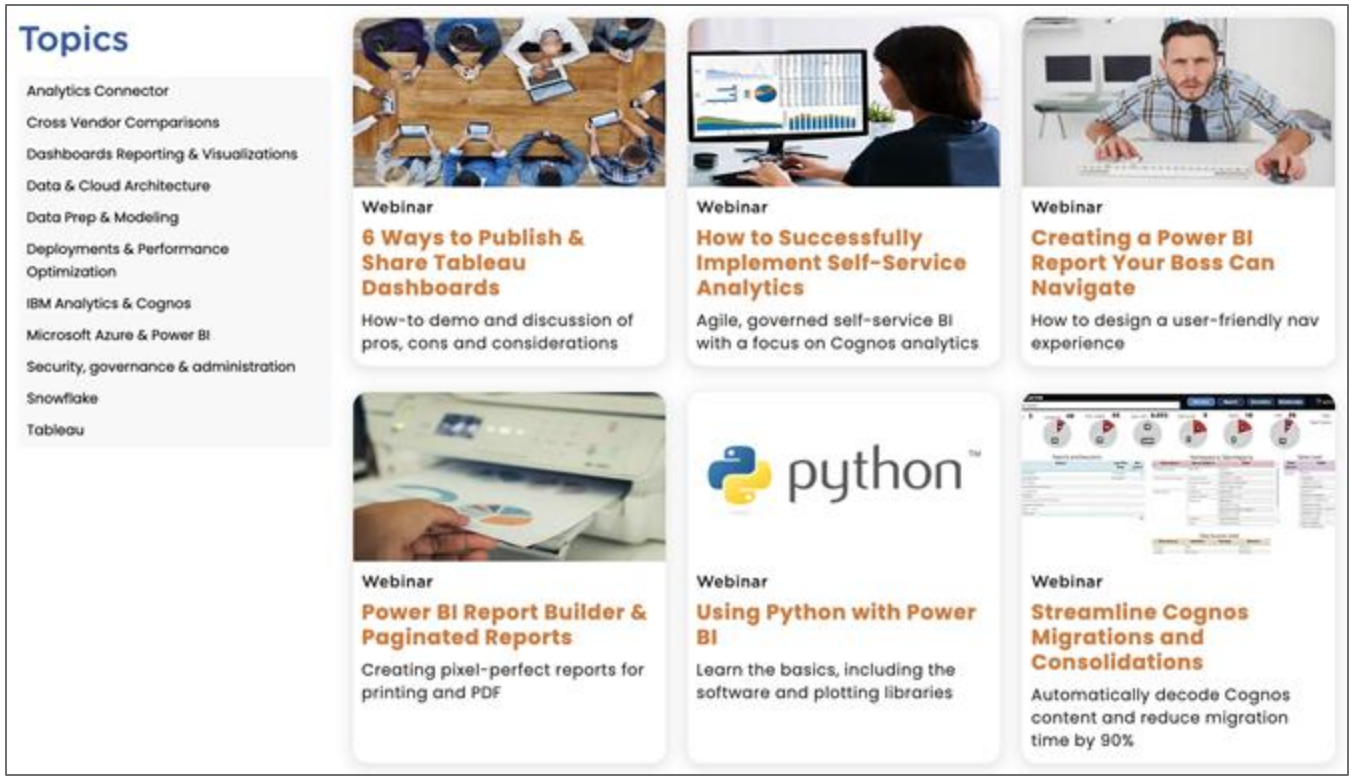

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Agenda

Introductions

Current semantic layer process

Universal semantic layer

Additional resources & about Senturus

Q&A

Introductions

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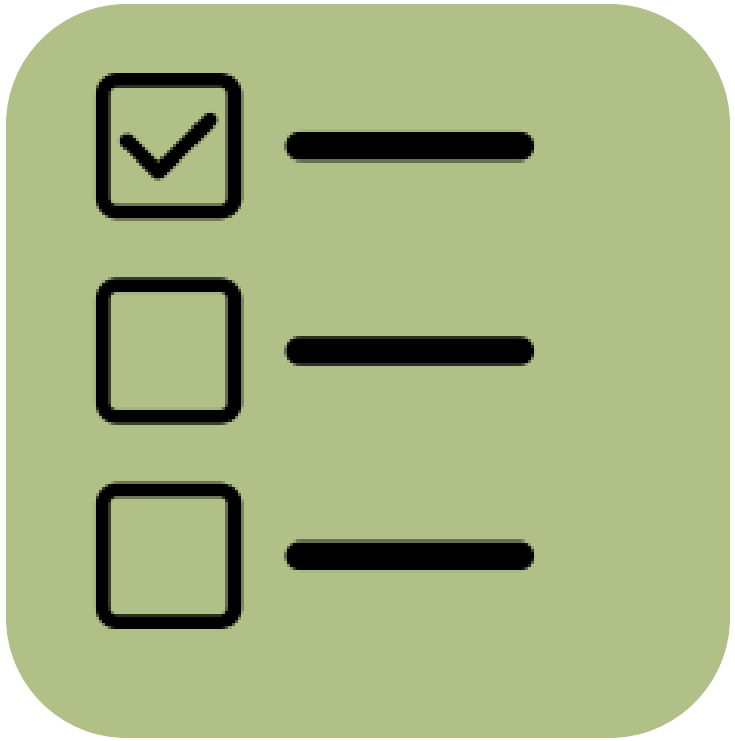
AtScale, Inc

Poll #1

Where is your data now?

- In the cloud
- On-premises
- Hybrid



Poll #2

Select the concepts being discussed in your organization. (Select all that apply.)

- Headless BI
- Semantic layer
- Metric store
- None of these

What is a semantic layer?

A semantic layer is **a business representation of corporate data that helps end users access data autonomously using common business terms**. A semantic layer maps complex data into familiar business terms such as product, customer, or revenue to offer a unified, consolidated view of data across the organization.

https://en.wikipedia.org › wiki › Semantic_layer

Semantic layer - Wikipedia

What is the issue?

- A proliferation of analytics tools
- Moving analytic data to the cloud
- Need a way to standardize the semantic layer so that all BI tools can pull from the same model

Today's discussion

- The current semantic layer process via

- The universal semantic layer in the cloud via AtScale
- Demo
  - Creation of the cloud-based semantic layer with AtScale
  - Using the BI tools against the AtScale semantic layer

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Traditional semantic layer process

- Learn source schema – tables, relationships, metrics
- Model schema with BI tool proprietary methods

Framework Manager, data modules

Desktop modeling

Desktop modeling

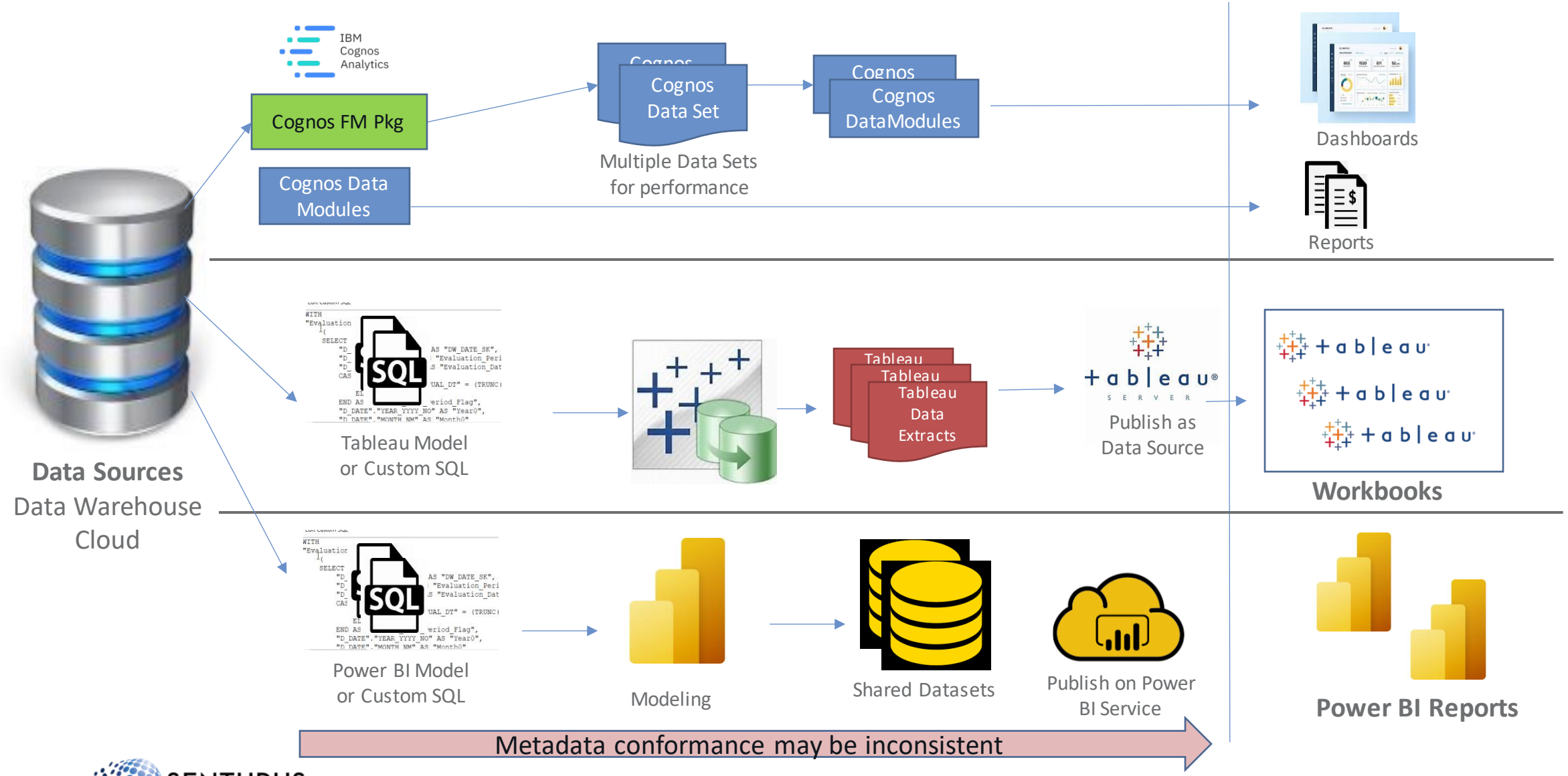
Raw tables

- Publish data model, data sets

The result - multiple semantic layers

- Possible different business names
- Different metrics or same metrics with different definitions
- Calculations that differ
- Hierarchies in one tool, but not the other tool
- **Data governance is difficult to maintain**

Multiple tools multiple metadata layers



Why you shouldn’t (re)-create metadata

Compromises data integrity

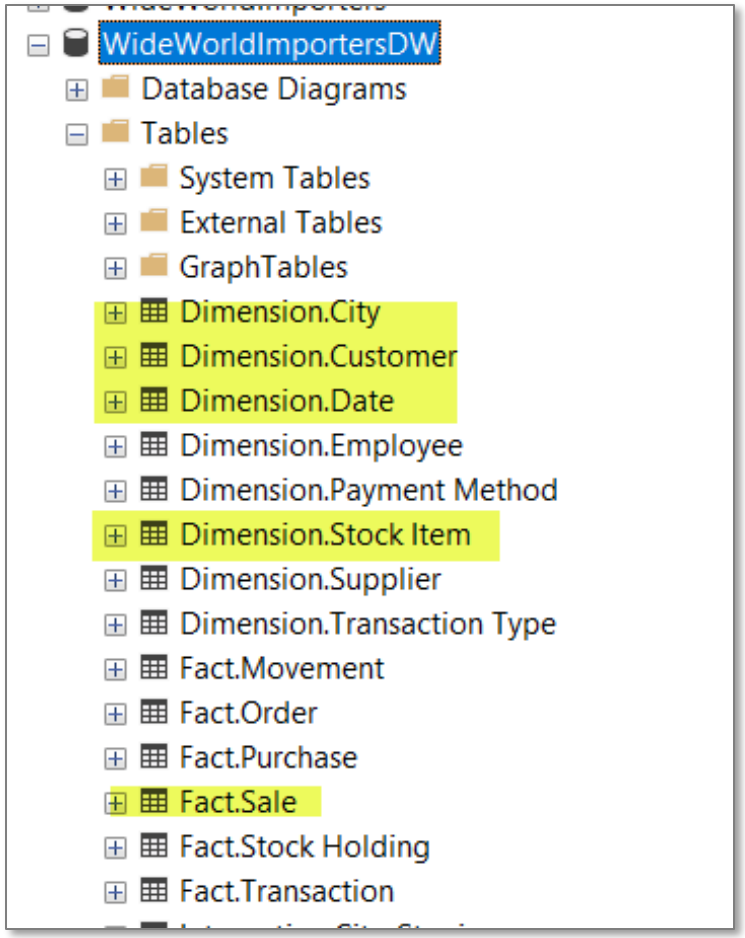
Compromises data security

Time consuming

Creates data silos

Demo – Cognos & Power BI

- Use standard Microsoft Wide World Importers DWH sample
- Source data warehouse database is on Azure
- Create semantic layer
  - Cognos using data modules
  - Power BI



ATSCALE

Make Your Data Speak the Language of Your Business

David Mariani, CTO, Co-Founder
AtScale, Inc

Managing knowledge gravity

Insight Gravity

continues to diversify across a broader spectrum of analytics approaches

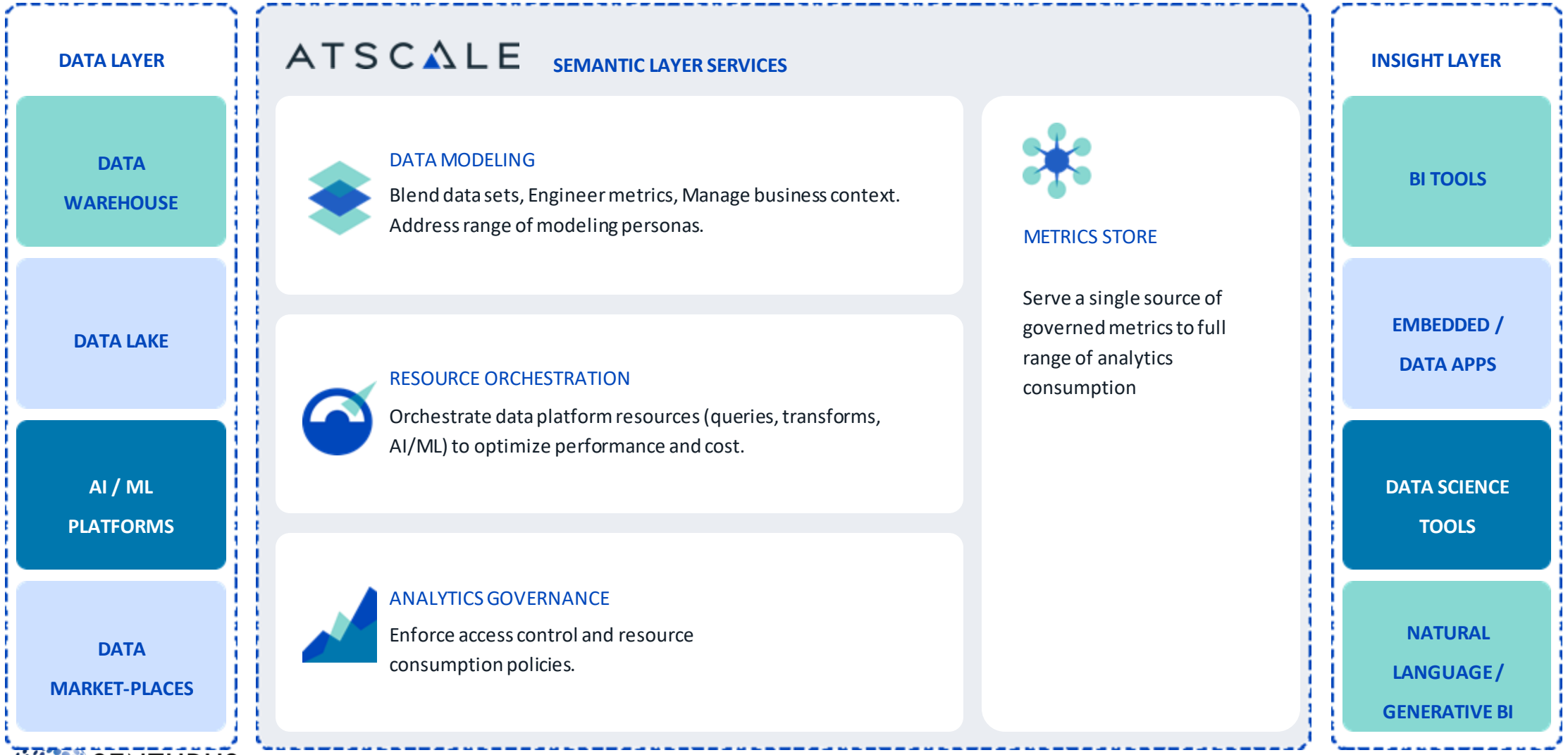
Complexity. Silos. Skill Gaps.

The complexity of managing knowledge related to business context is a fundamental obstacle

Data Gravity

continues to shift toward toward centralized cloud data platforms

A control plane for knowledge gravity



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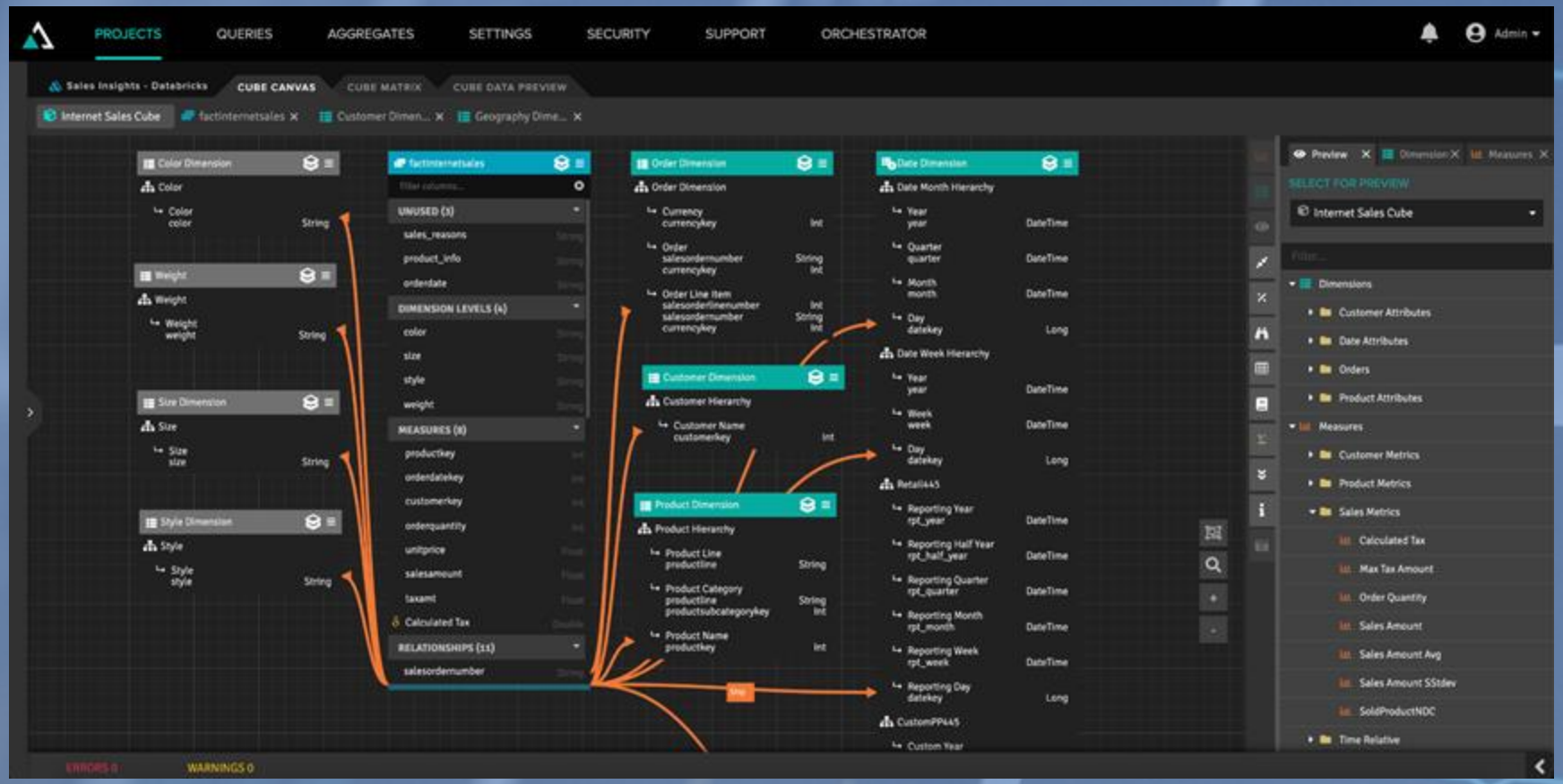
Data stewards: the semantic model



- ➔ Visual Data Modeling
- ➔ Complex Expressions
- ➔ Virtualized Data Access

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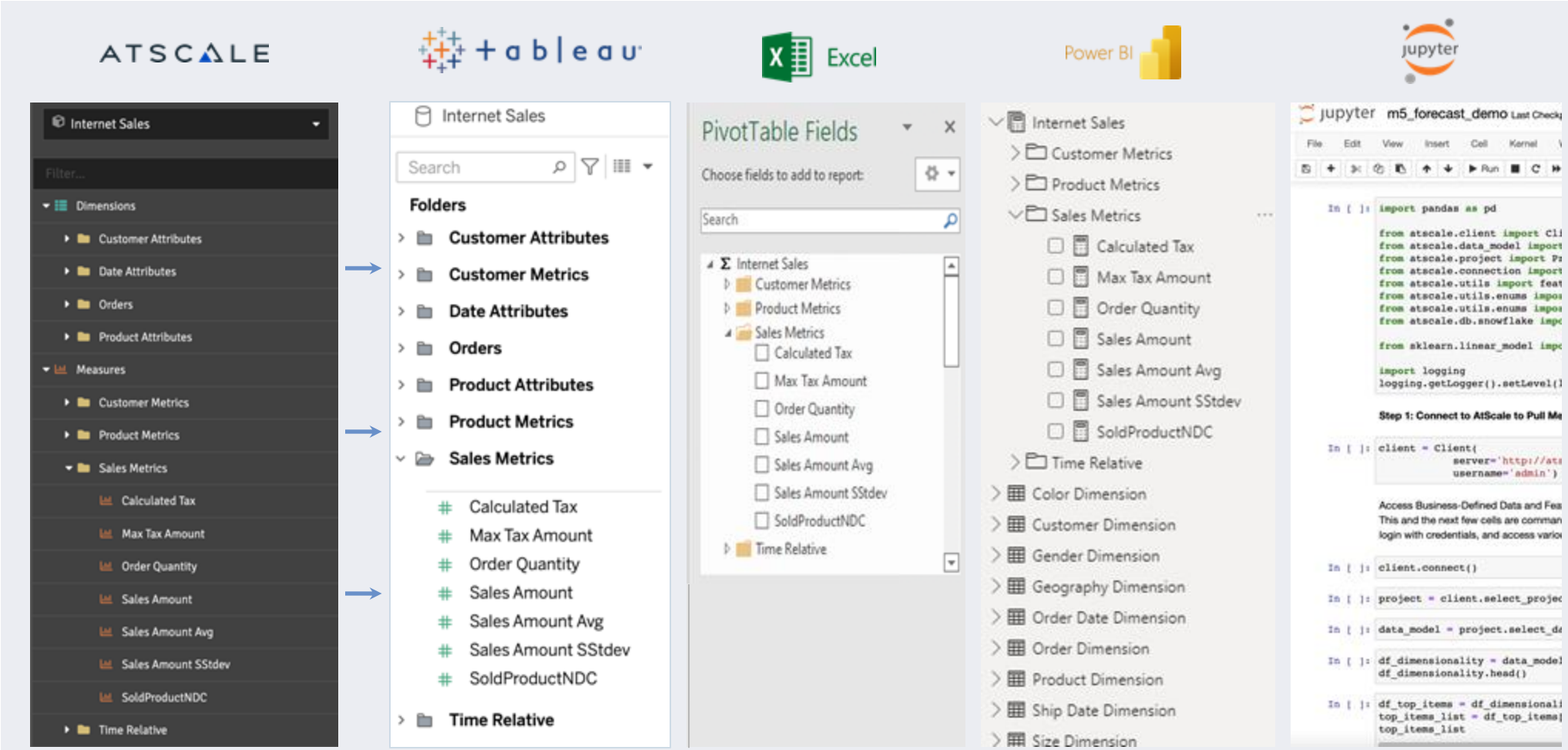
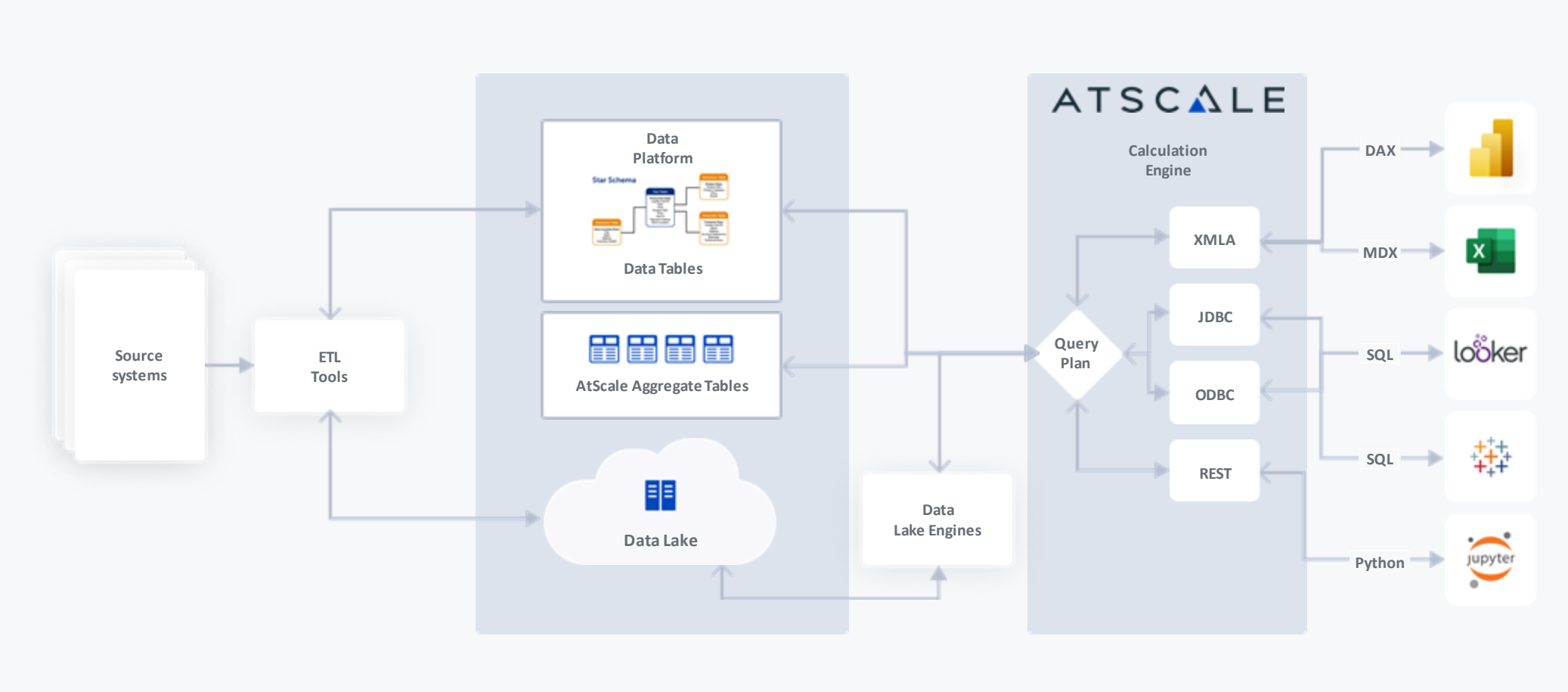
Data consumers: universal access



Semantic Model SQL MDX DAX PYTHON

Deploying a semantic layer



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Additional resources

Unbiased product reviews

Technical tips

Insider viewpoints

More on this subject

Product demos

Upcoming events

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Upcoming events

Cool Power BI Functionality You May Not Know About

Thursday, June 15, 11am PT/2pm ET

Chat with Pat: Building Data Modules in Cognos

Wednesday, June 21, 11am PT/2pm ET

Register at senturus.com/events

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Modern BI: accelerated & accessible

Business needs

SENTURUS

Analysis-ready data

Decisions and actions

A long, strong history of success

22 years

1400+ clients

3000+ projects

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Join the Senturus team

We're hiring talented and experienced professionals

- Managing Consultant
- Senior Microsoft BI Consultant

See job descriptions: https://senturus.com/why-senturus/careers/
Send your resume to: jobs@senturus.com

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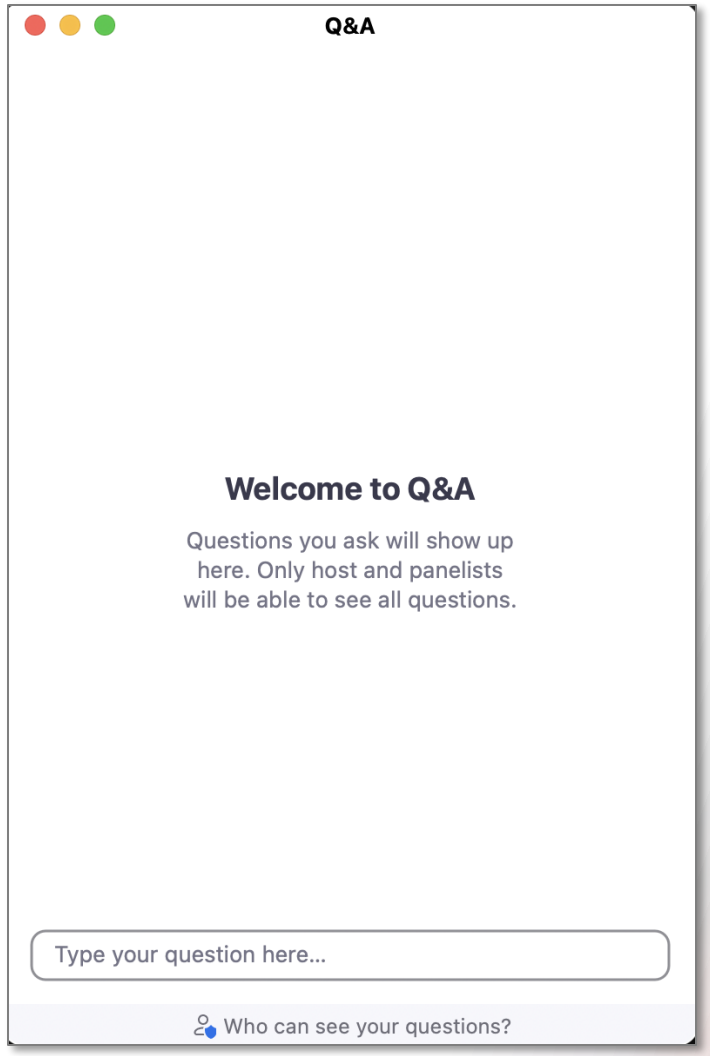
Q & A

If your question or issue is broader than what we are able to answer today, contact us at:

info@senturus.com

and we will set up a free consultation.



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Thank You

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