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The Metadata Lakehouse: Built for Change

Powering the Lakehouse to adapt, respond, and scale with your AI and data workflows.

Your Lakehouse is built for scale.
But is it built for change?

Catalogs describe what exists. They don't tell you what's happening.

That's why the world's most advanced data teams aren't just documenting metadata. They're operationalizing it, making their stacks aware of what's changing and ready to act.

Production doesn't fail when definitions are missing. It fails when something shifts and your system doesn't see it. When pipelines break quietly. When copilots guess wrong. When migrations miss critical dependencies.

This isn't a tooling gap. It's a missing system.

The Metadata Lakehouse makes metadata active — so governance moves with your data, your AI, and your teams.

What You Can't See Is Breaking Your AI and Data Products

Right now, your stack is in motion:

- Copilots moving from POC to production.
- Migrations happening across tools and platforms.
- AI shifting from batch experiments to real-time pipelines.

But your metadata isn't built to move with it. When schemas drift, when tags go stale, when ownership changes — the catalog stays quiet.

The result? Copilots guess. Pipelines fail quietly. Migrations miss critical dependencies.

Not because the data was wrong. Because your system couldn't see what changed. And when your system can't see what's changing, your AI and data products are the first to break. What your stack needs isn't more documentation. It needs infrastructure that senses, signals, and responds as the stack evolves.

It needs a control plane — metadata that isn't passive, but active. Operational, not descriptive. This is the role of the Metadata Lakehouse. The nervous system that makes your Lakehouse stack responsive.

The Metadata Lakehouse: How Metadata Becomes Infrastructure

The Metadata Lakehouse connects what's happening in your stack with what your stack does next.

✅ **It senses change**
Schema shifts, data quality issues, upstream dependencies, detected automatically.

✅ **It signals impact**
Which models, dashboards, and pipelines are affected. Who needs to know.

✅ **It drives action**
Feeding copilots the right context, enforcing policies in real time, catching issues before they hit production.

This isn't governance as a checkbox. It's governance as an operating system.

Curious what a Metadata Lakehouse could unlock for your business? **Talk to an expert!**

When Change Is Constant, Passive Metadata Fails. Atlan Turns Context Into Action.

✅ **See what breaks before you migrate**
Lineage-powered impact analysis across Spark, Delta Live Tables, dbt, and more.

✅ **Feed copilots the right context, not stale tags**
Real-time semantics and trust signals delivered directly into copilots and models.

✅ **Catch drift where it happens, inside your lineage**
Continuous monitoring of schema changes and data quality, surfaced where your teams work

✅ **Enforce policies that stay in sync with your stack**
Attribute-based access, masking, entitlements — automated and connected across platforms.

Customer Story

Proven. At Scale.

The metadata-powered engine behind Porto's self-service success

By connecting ownership, quality signals, and business context across its stack, Porto scaled **adoption of self-service** analytics — giving every team confidence in the data behind their decisions. **Read more →**

The data layer powering GM's software-defined vehicle vision

With Atlan's end-to-end lineage, GM cut time-to-insight from 28 days to 3 hours, **unlocking $330M in new business value**. Watch now →

Fox: One data platform, open by design

Fox unified discovery, governance, and action - connecting assets, metrics, dashboards, and queries in a single, extensible platform. Powered by Atlan's open API architecture and built through close partnership, the solution enables Fox to shape the future of data governance on their terms. Read more →

Three teams, three challenges, and one thing in common:
A system that sees what's changing and knows what to do next.

The Metadata Lakehouse is built to see change and drive action.

Powered by Databricks. Made responsive by Atlan.

Catalogs define what exists. But copilots, pipelines, and migrations succeed when your stack senses what's changing, and acts before it breaks.

Join us at Databricks Data + AI Summit 2025 to see how the Metadata Lakehouse makes that possible.

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