

Governing AI at Scale

Trust, Access and Open Standards

Beyond Vendor Lock-In



Who's Speaking





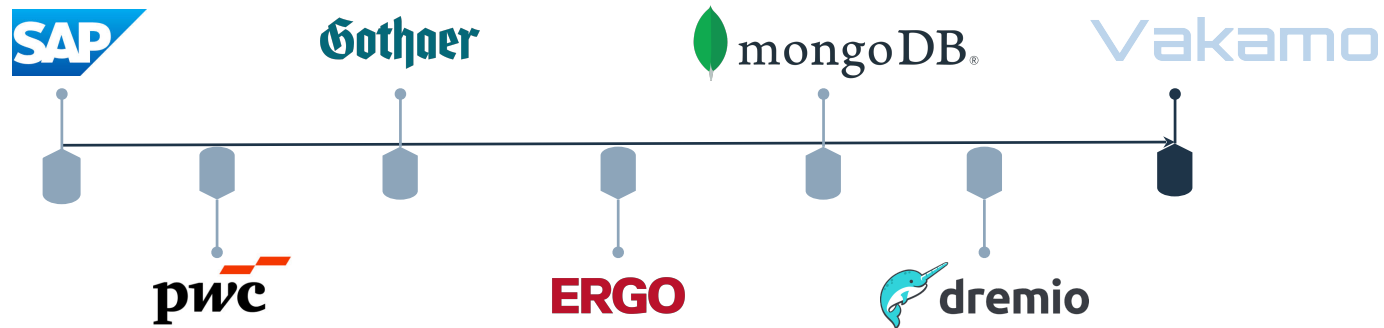
Viktor Kessler

viktor@vakamo.com

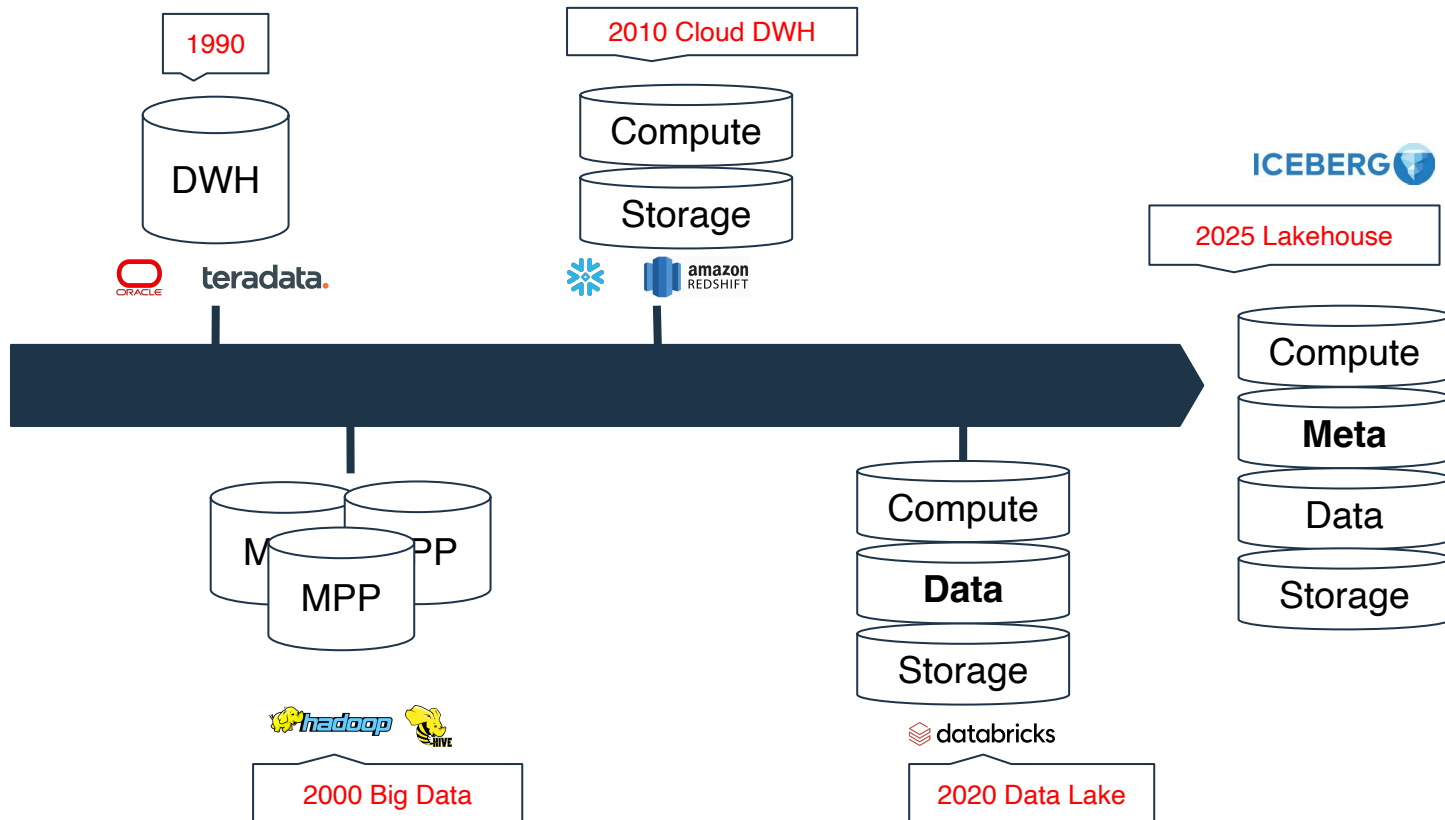


CEO & Co-founder @ Vakamo Inc

-  Innovating in Open Source **Apache Iceberg** community
-  Building **Agentic Trust Infrastructure**



DATA TIME TRAVEL



What is Iceberg?

Table Spec

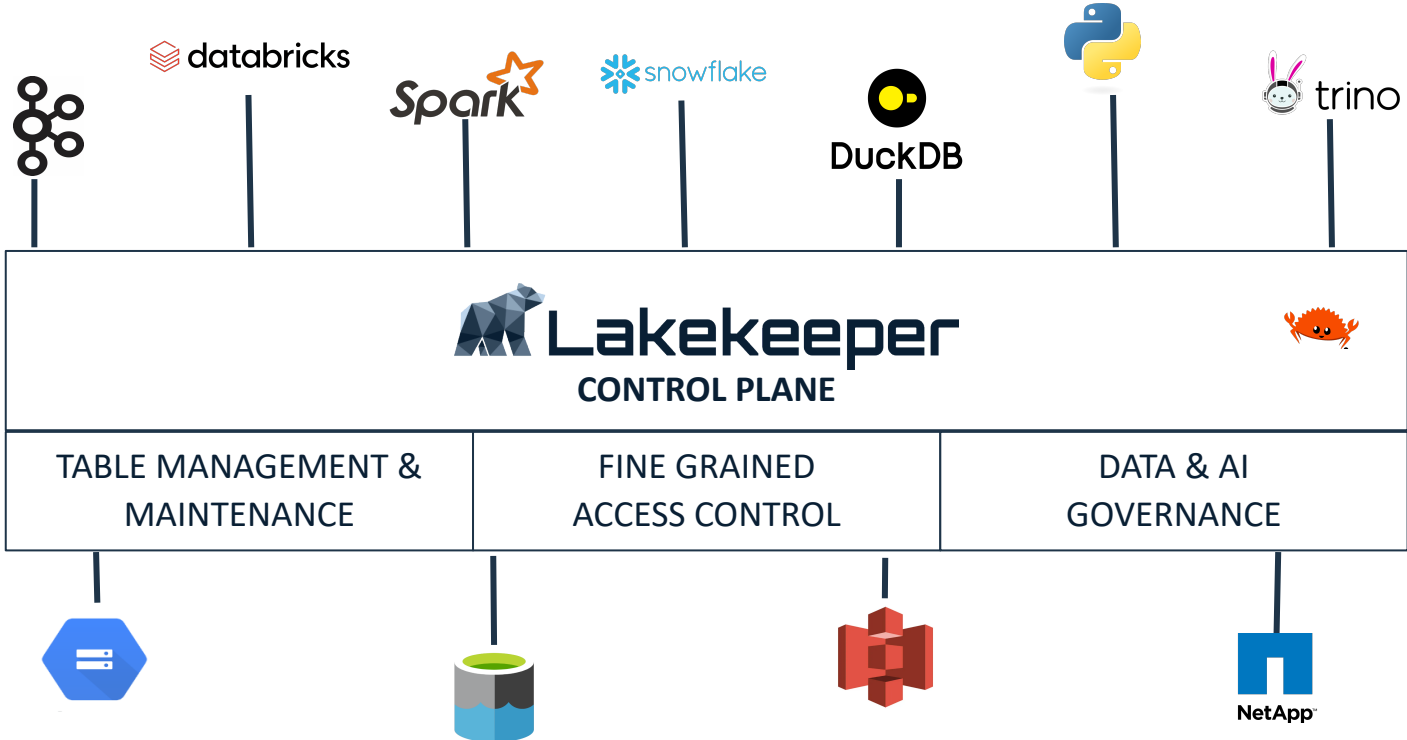
View Spec

Puffin Spec

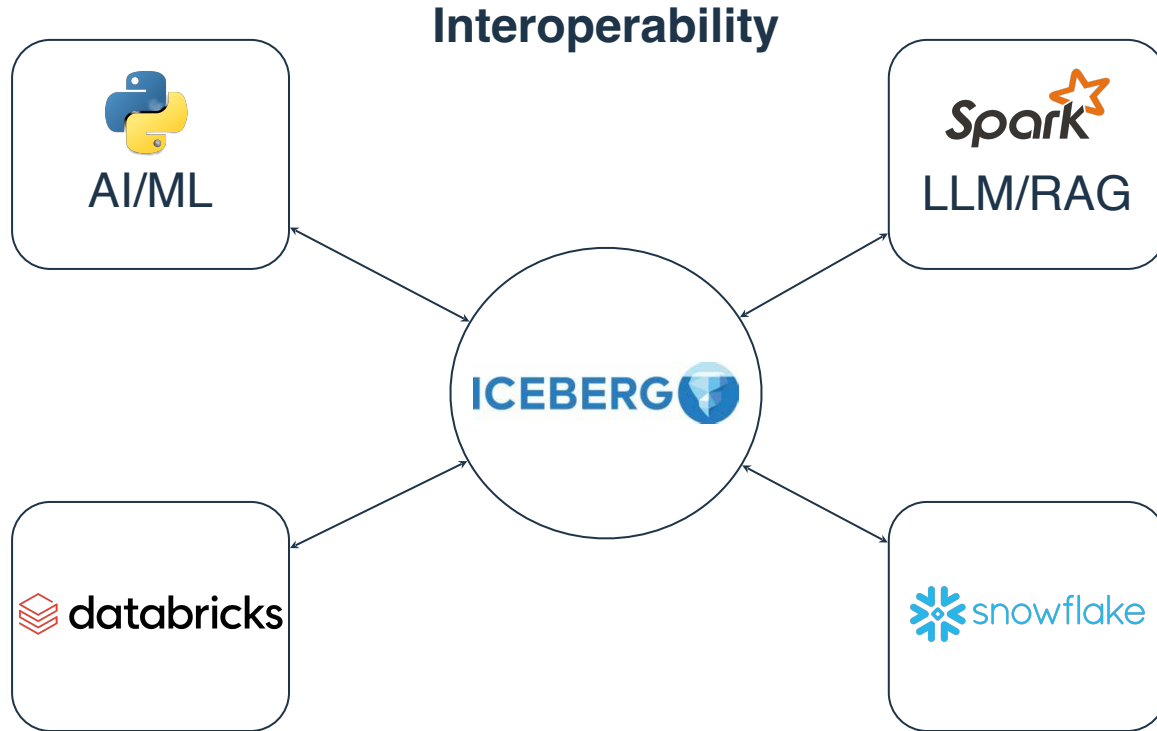
REST Catalog Spec
 Lakekeeper



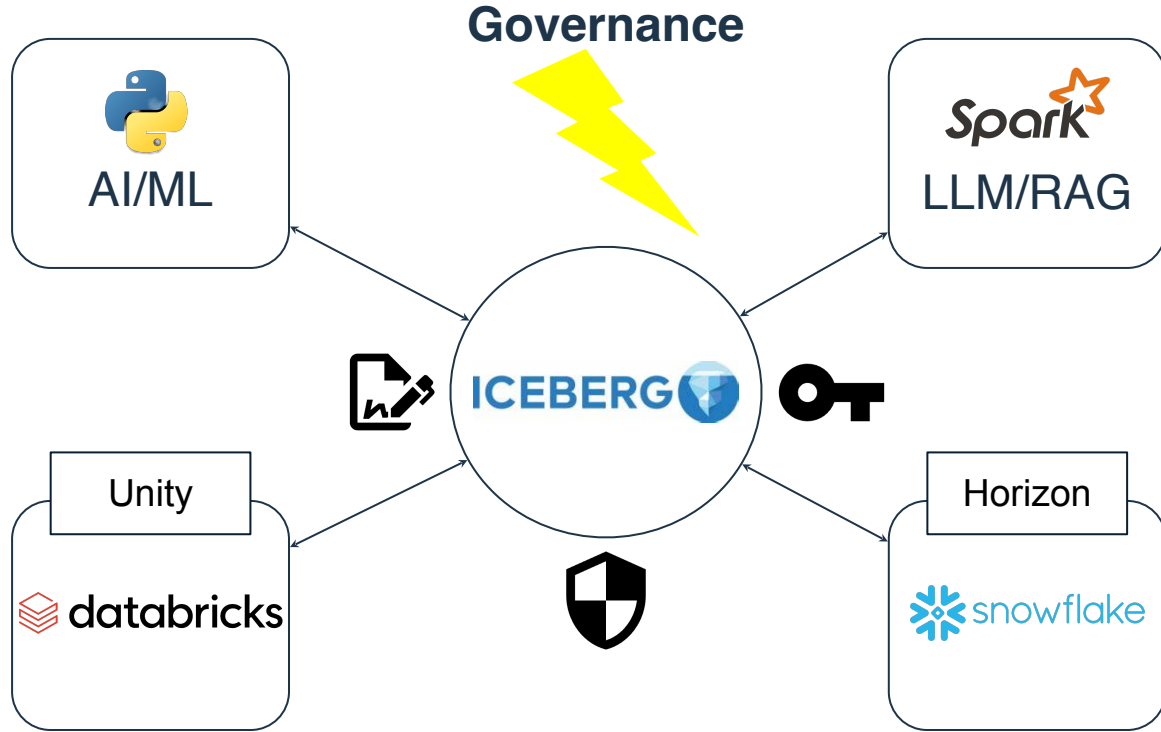
Lakekeeper



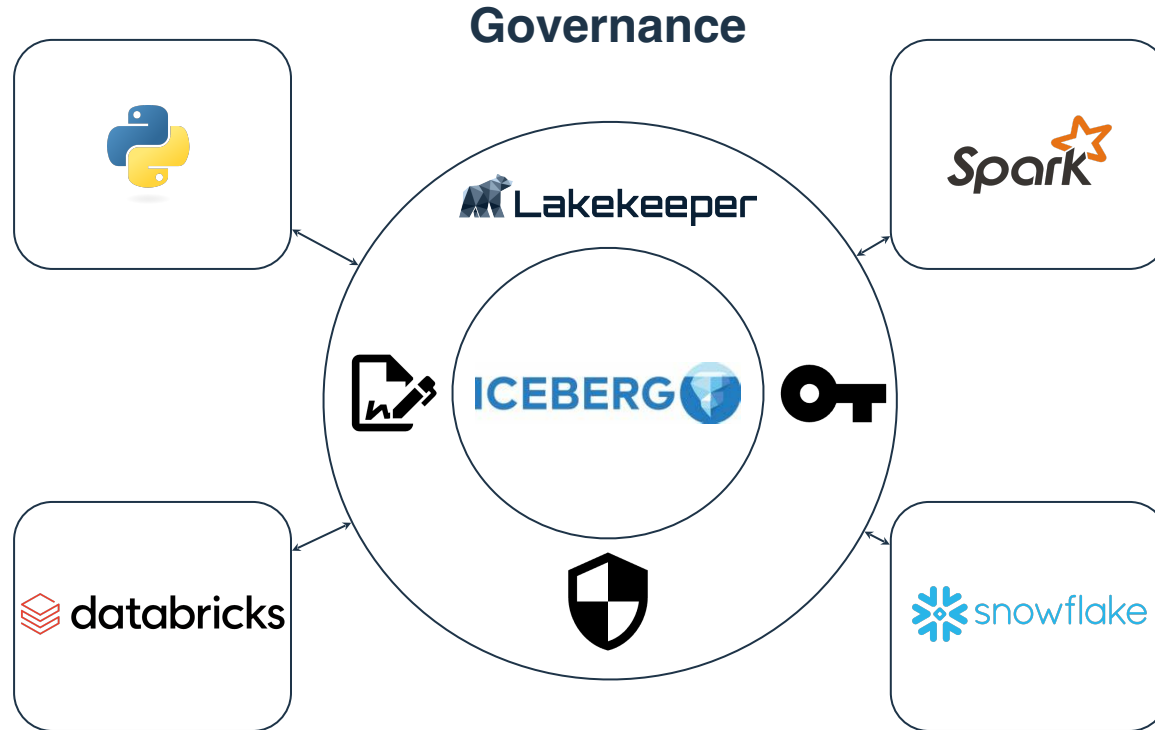
What Apache Iceberg did solve?



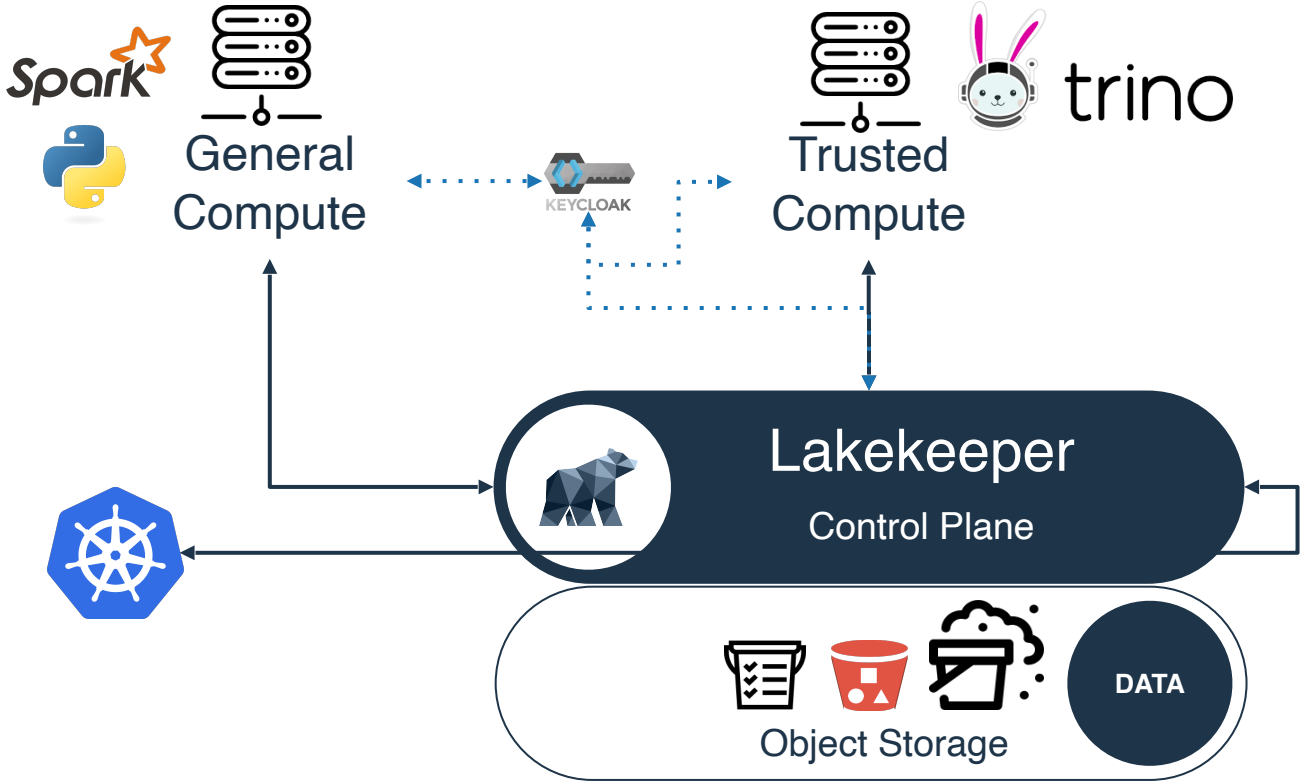
What Apache Iceberg did **NOT** solve?



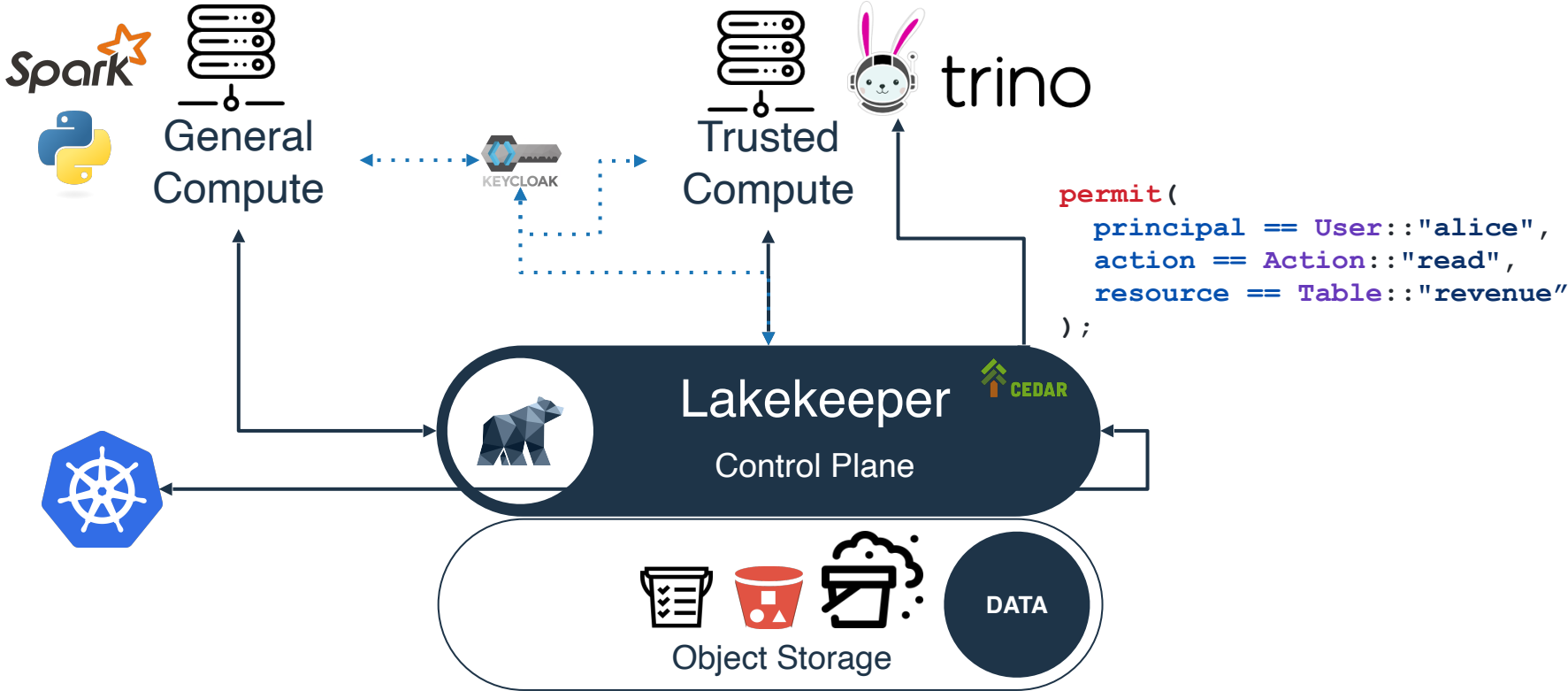
What Apache Iceberg - REST Catalog



Access Governance

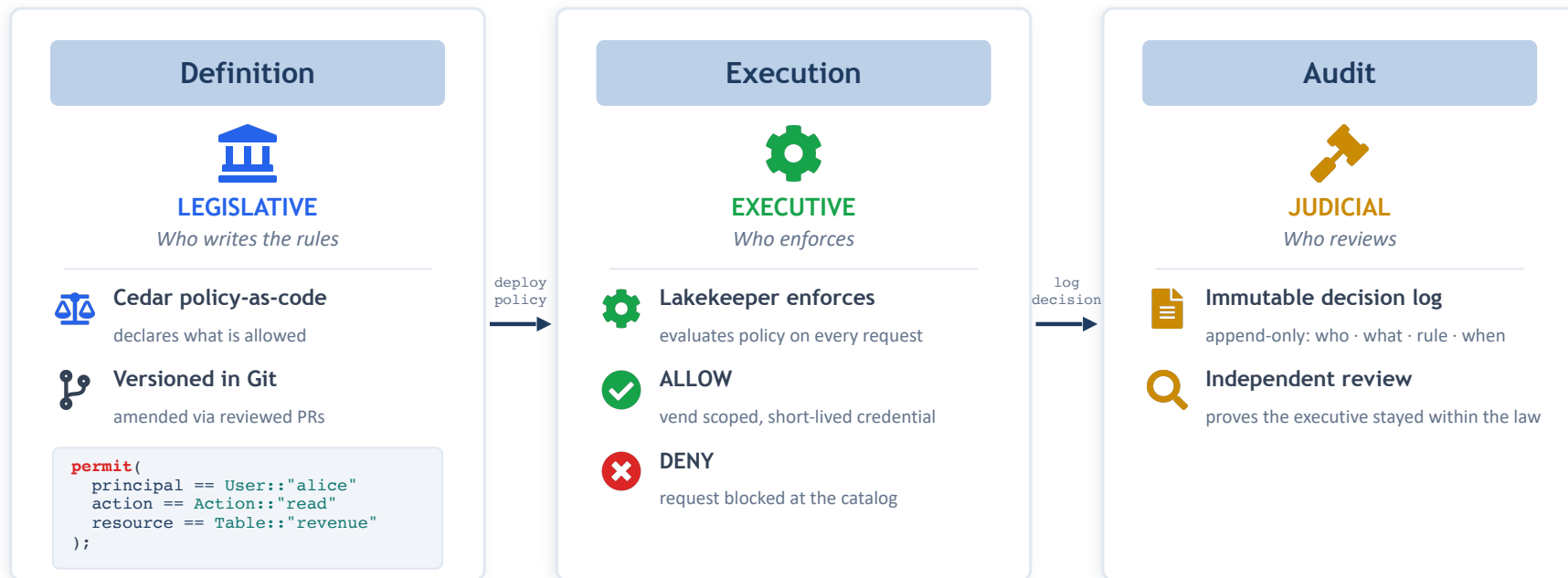


Access Governance - regulatory ready



Governance Workflow

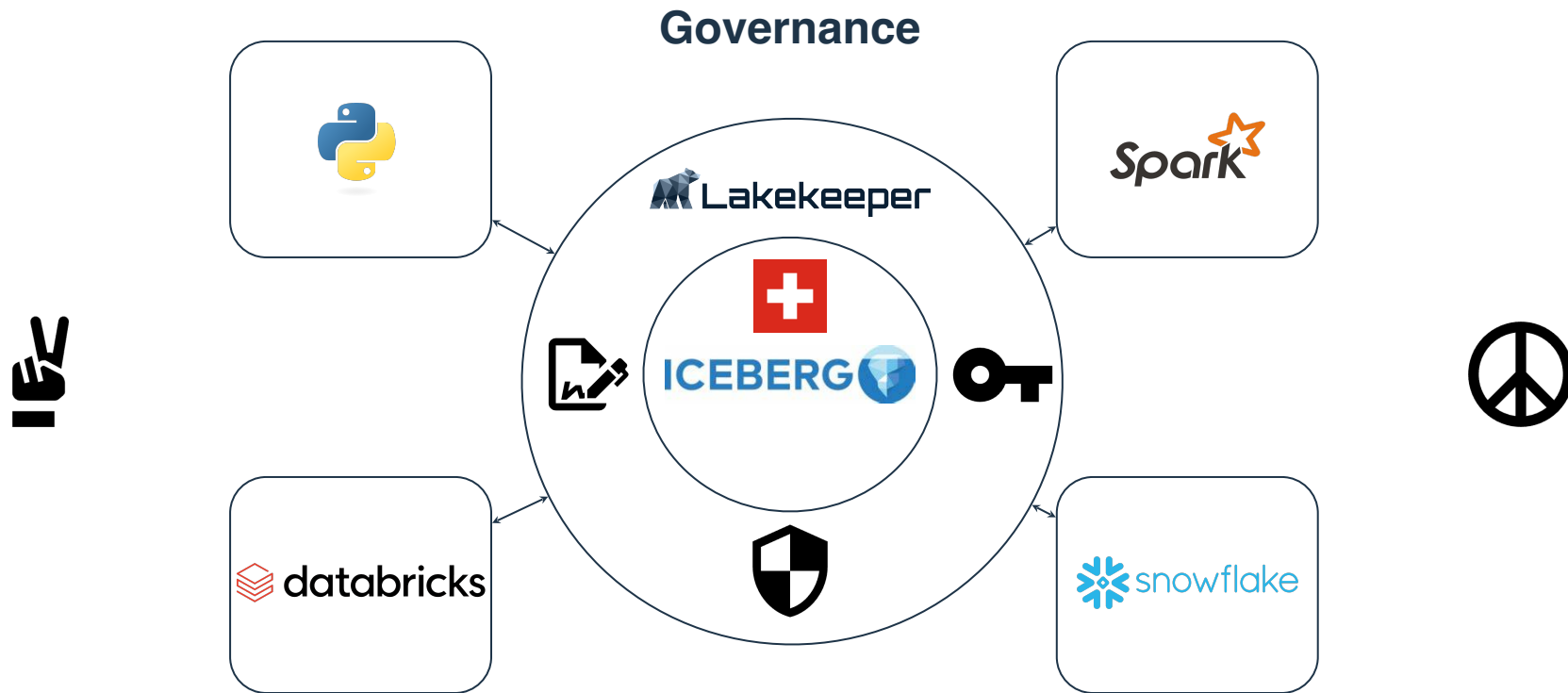
Separation of powers for data governance — three branches, none doing another's job.



audit findings amend policy · due process closes the loop



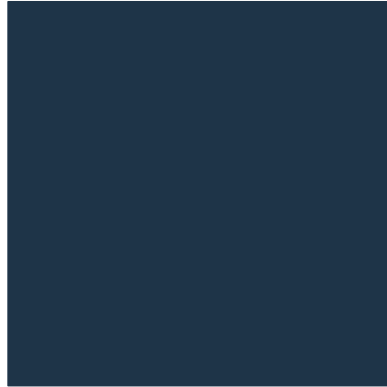
What Apache Iceberg - make peace



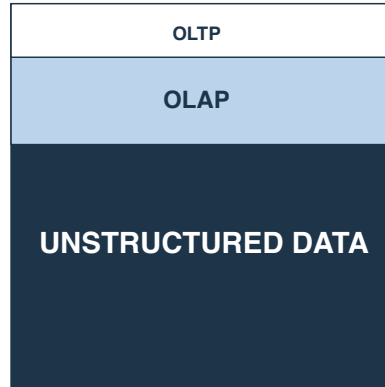
Agentic Governance



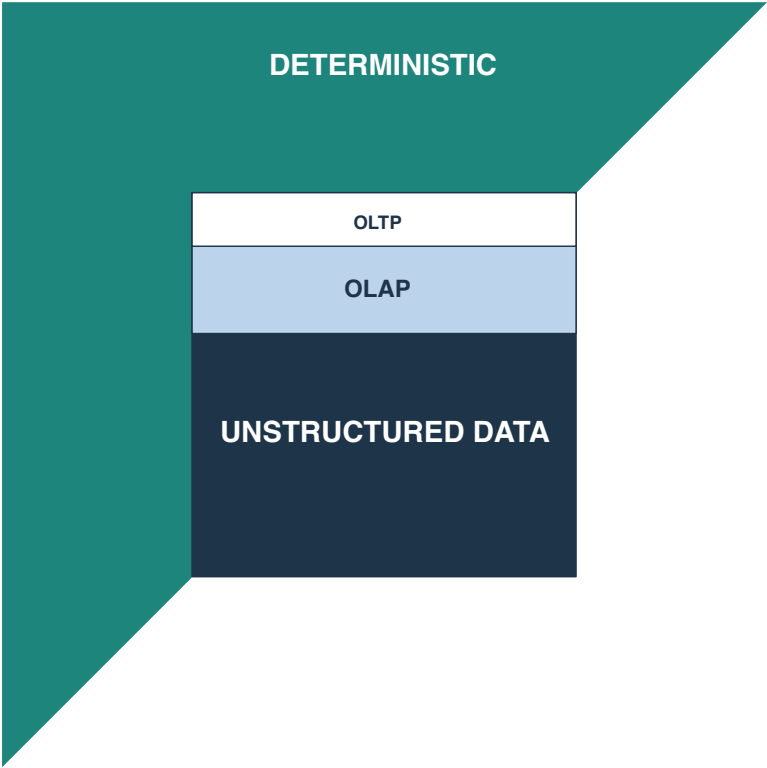
All available DATA



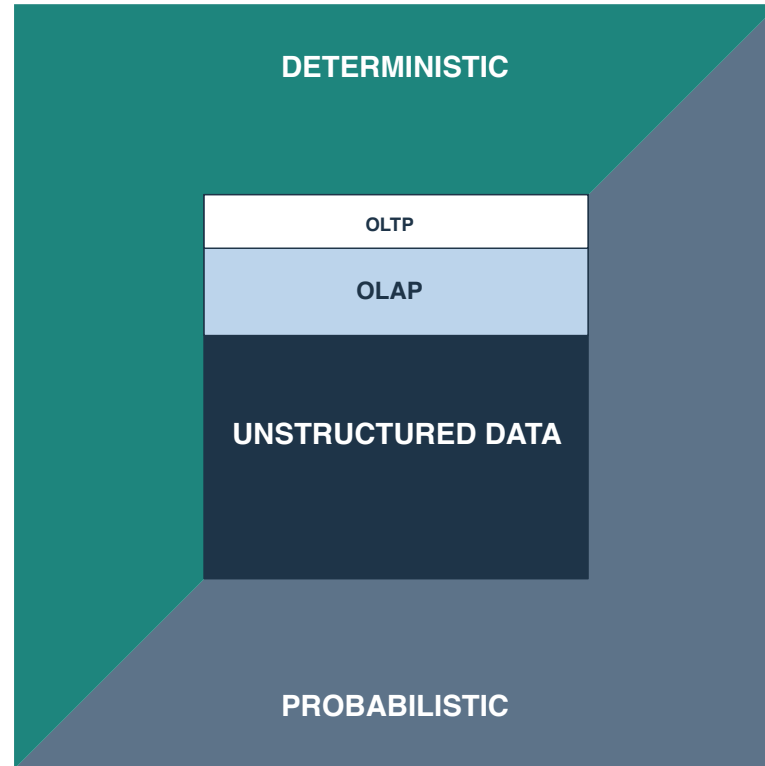
Categorized DATA



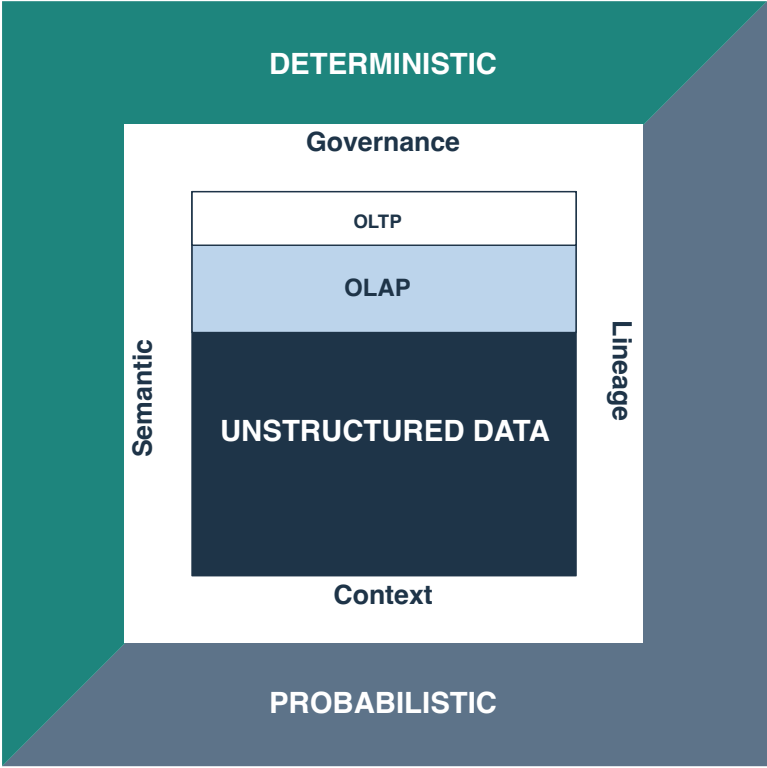
DATA World we know - DETERMINISTIC



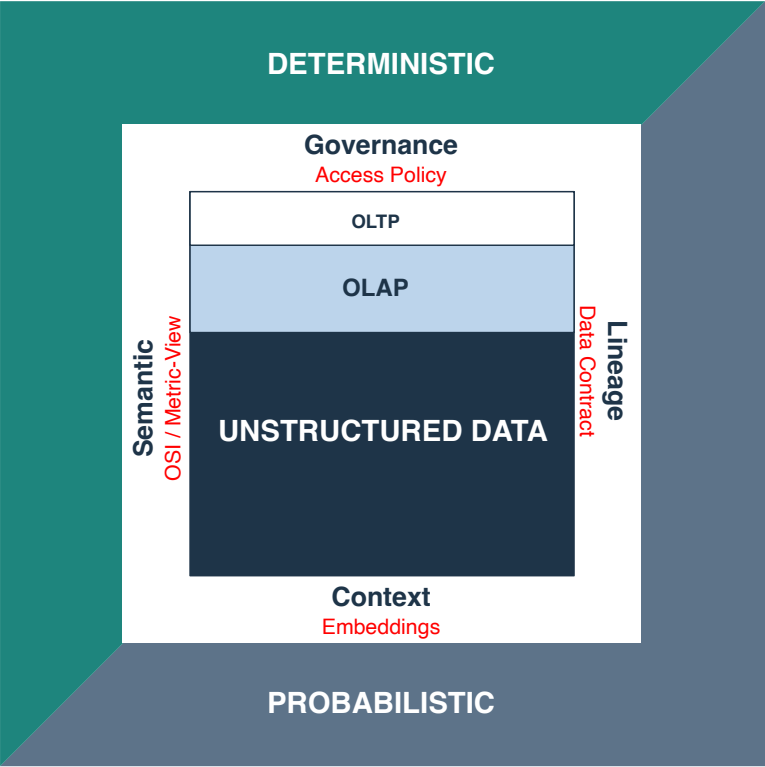
The New Player - PROBABILISTIC



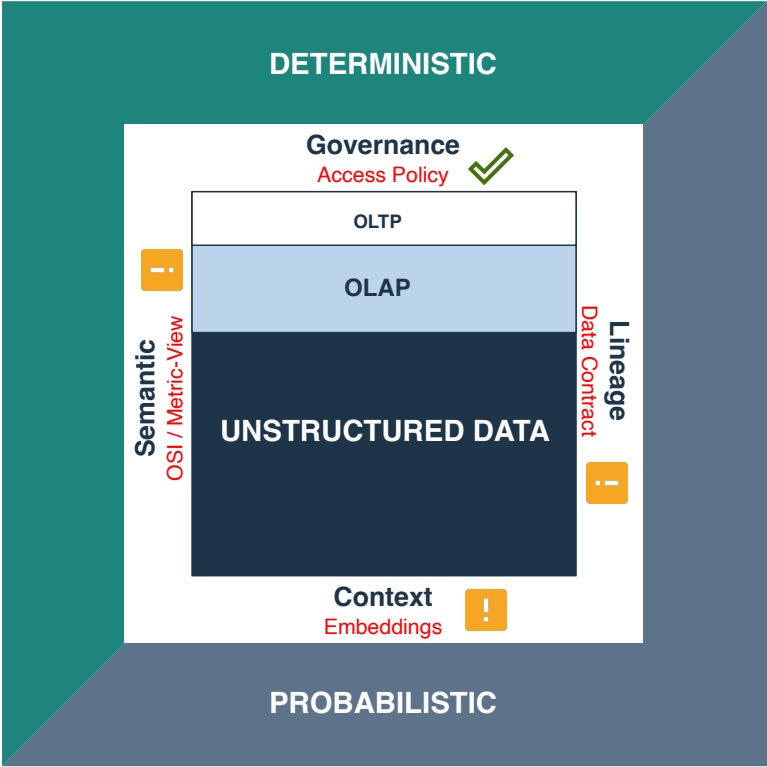
Both requires control mechanisms



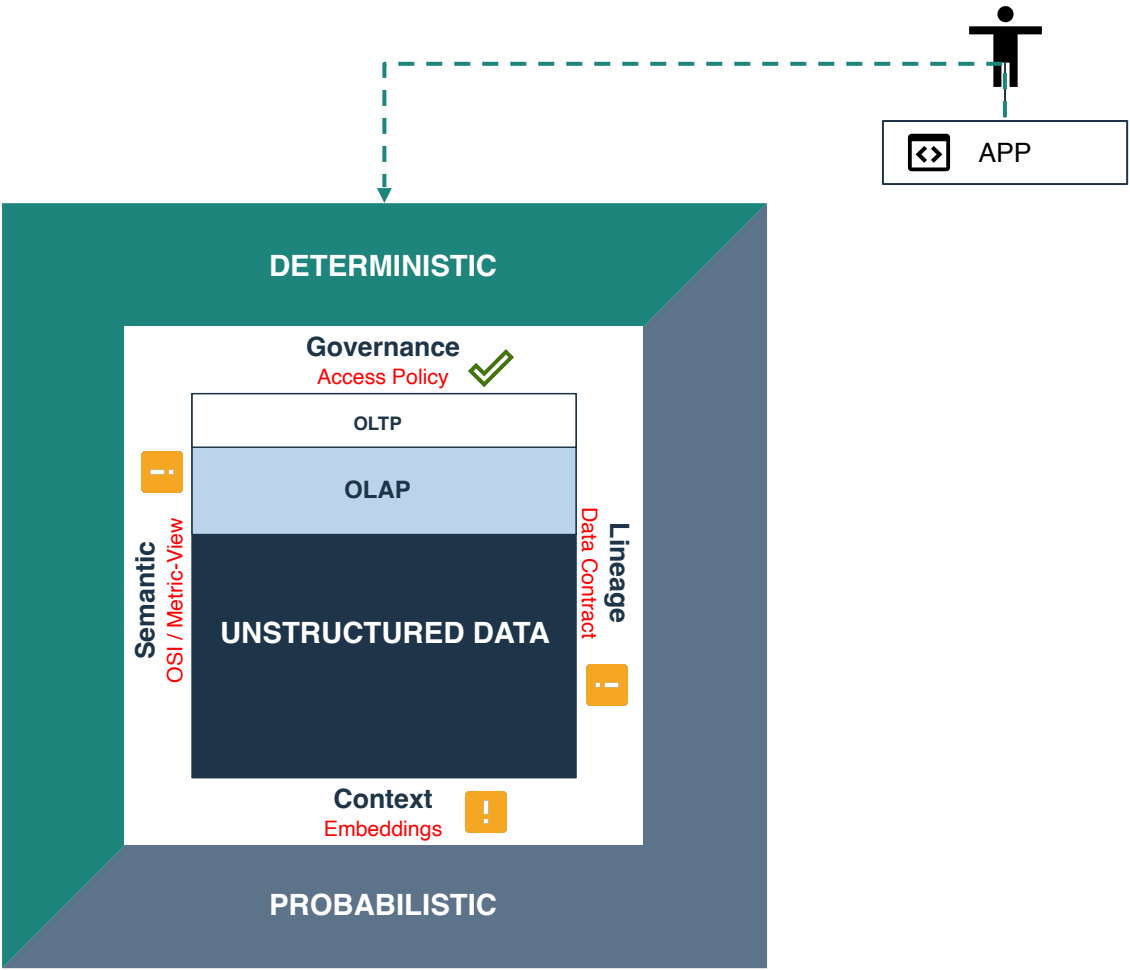
Current solution



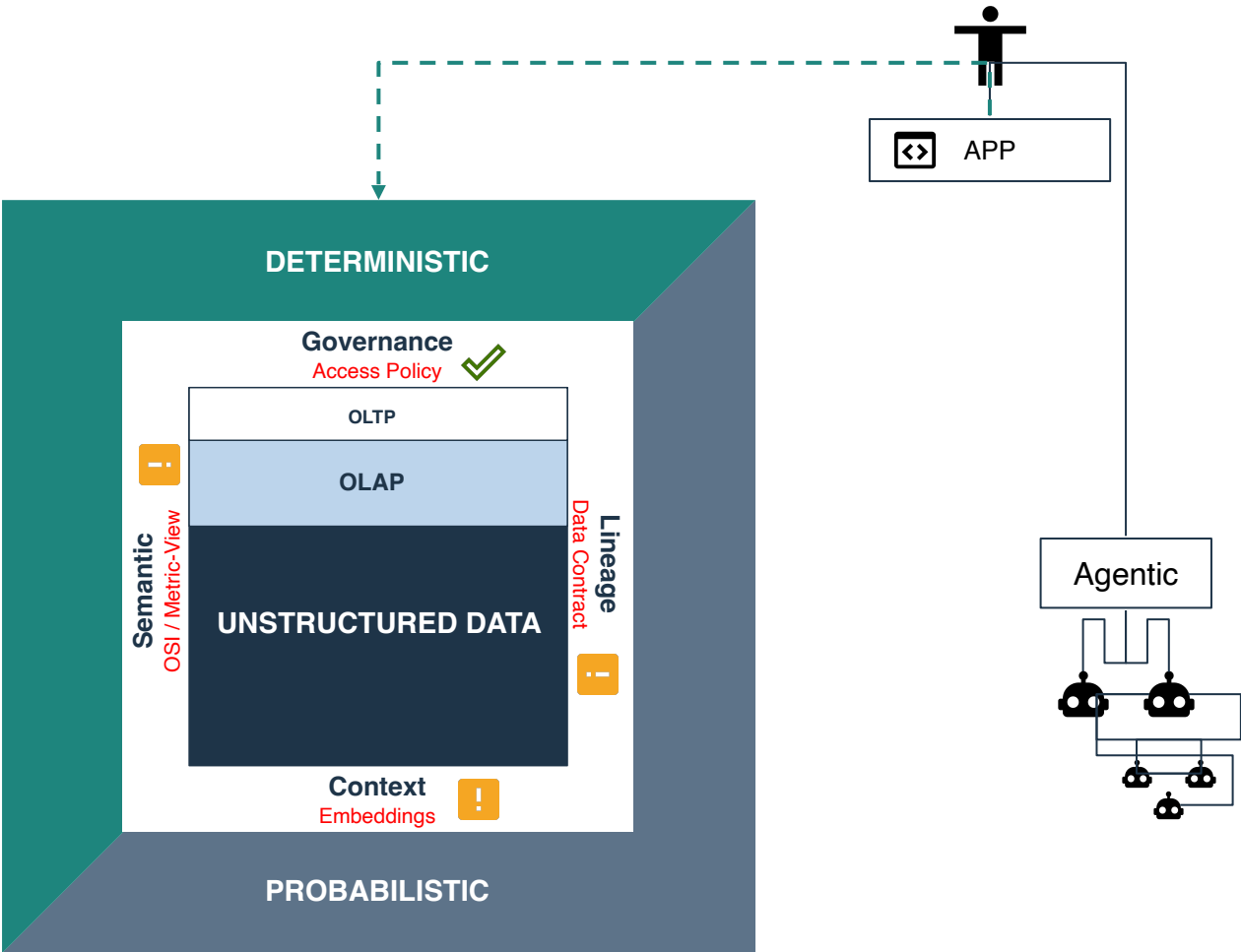
Current state



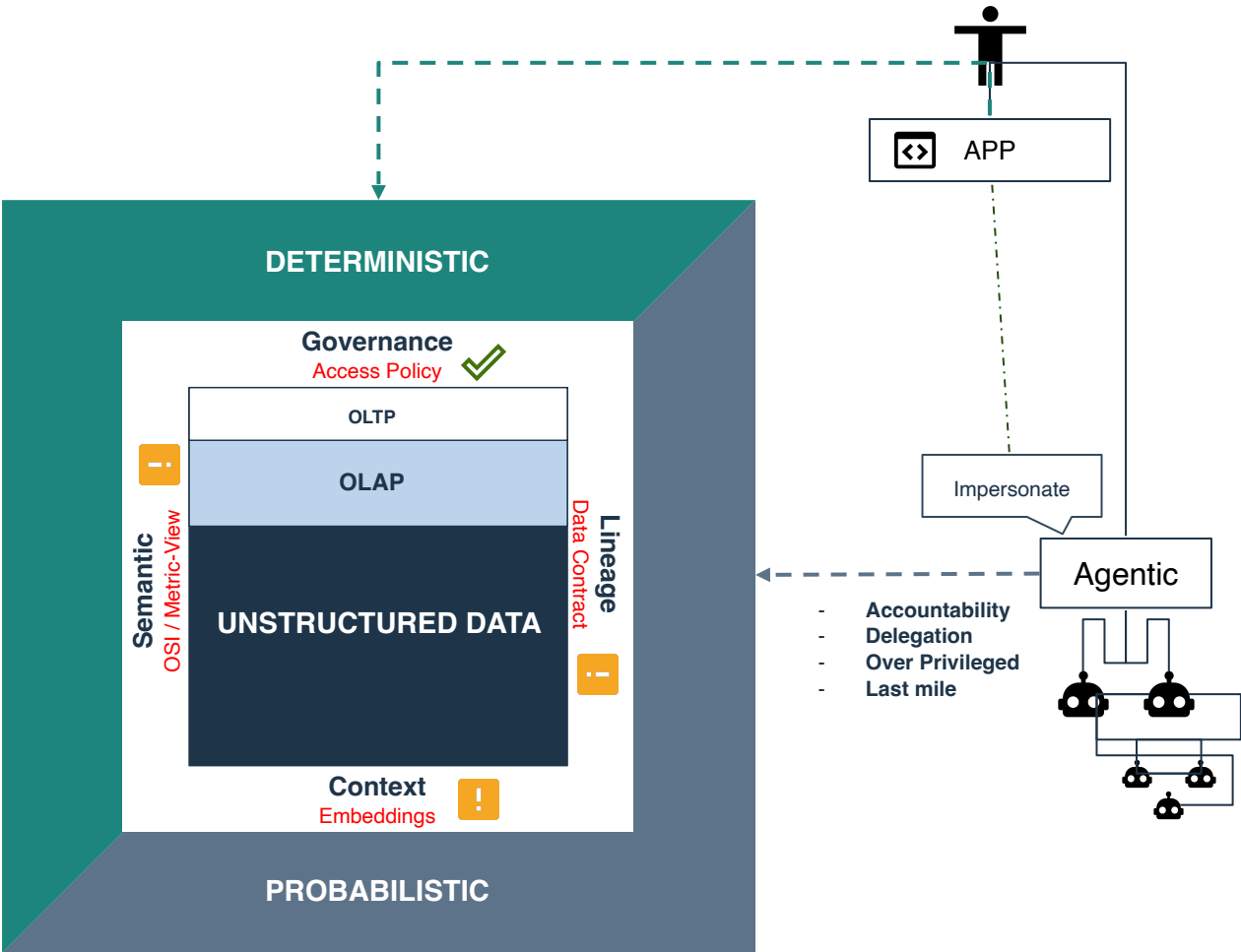
How we build



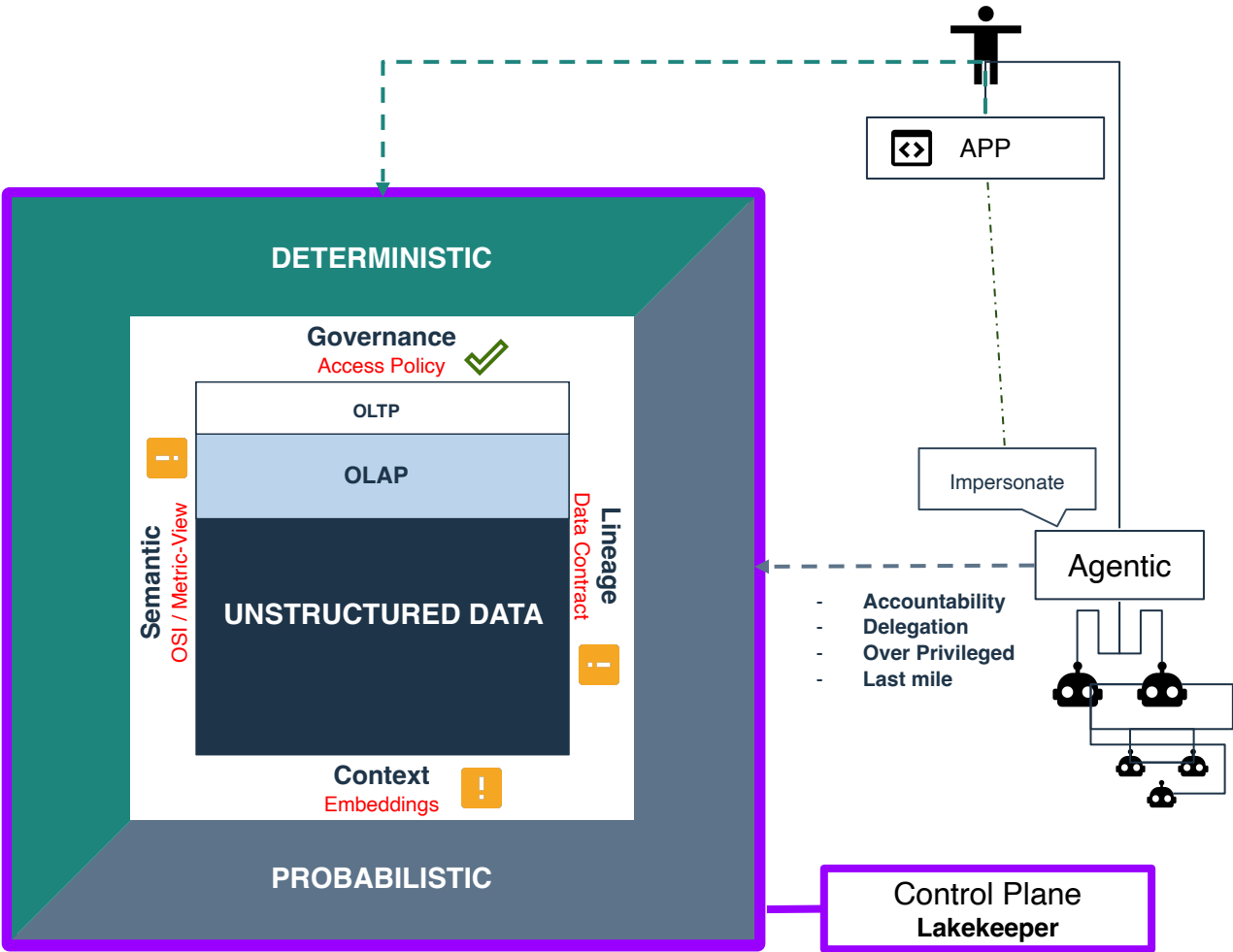
How we build



How we build



Control Plane



Takeaways

Open formats freed the data. **Open governance is what makes it trustworthy.**

1 Iceberg won interoperability — governance is the next battle

Open table formats freed your data from the engine; vendor catalogs quietly re-introduced lock-in.

2 The catalog is the control plane

Every read and write passes through the REST catalog — the one place to put identity, authorization, and audit.

3 Governance is Zero Trust, enforced as code

Verify every request, vend least-privilege short-lived credentials, log every decision. Policy defines; the catalog enforces.

4 Separation of powers keeps it honest

Definition, execution, and audit are independent branches — no component both writes the rules and silently enforces them.



Thanks

STAY CURIOUS



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