

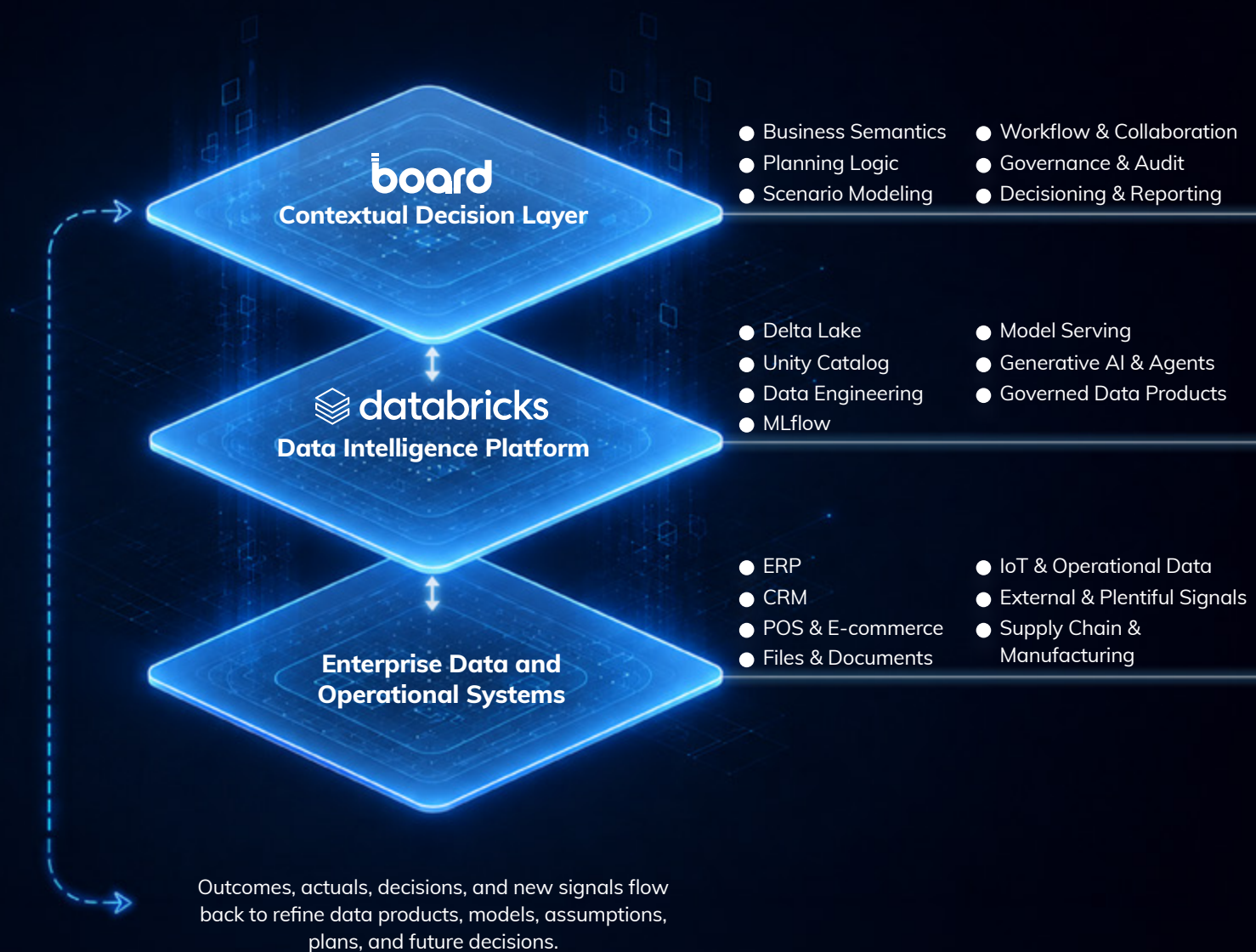
From Governed Data and AI to **Trusted Enterprise Decisions**

A reference architecture for connecting the Databricks Data
Intelligence Platform with Board's Contextual Decision Layer

board

Databricks provides the governed data and AI foundation.

Board adds the business context, planning logic, scenarios, workflows, and decision governance required to turn intelligence into coordinated action.

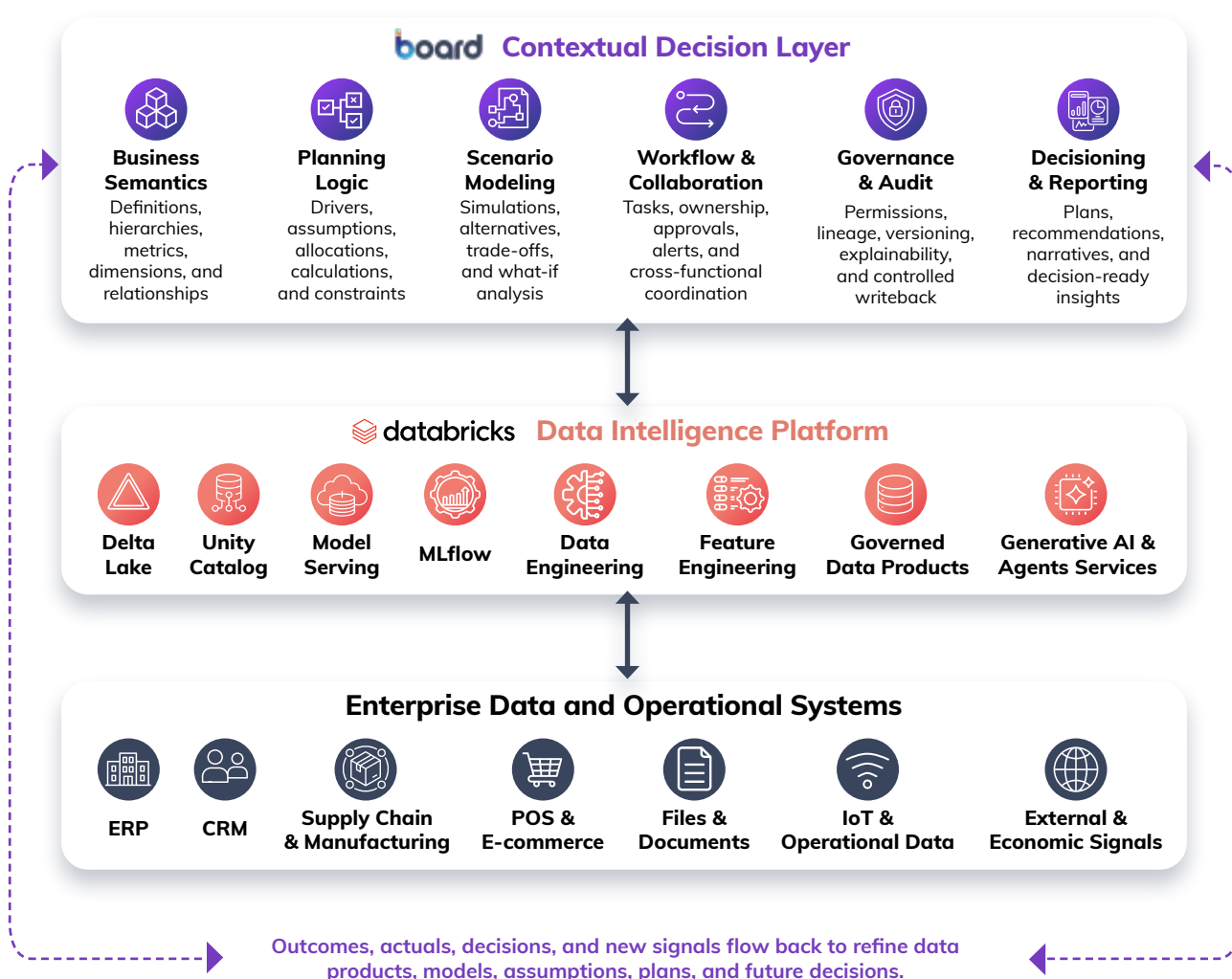


How Board and Databricks close the gap between enterprise intelligence and coordinated business action.

Enterprises have invested heavily in modern data platforms, governed data products, machine learning, and generative AI. Yet trusted data and intelligent models do not, by themselves, produce trusted business decisions.

Enterprise decisions also depend on planning assumptions, business rules, financial logic, scenarios, ownership, approvals, operational constraints, and human judgment. These capabilities often remain distributed across spreadsheets, applications, and departmental processes.

Board and Databricks address these complementary requirements.



Why this architecture matters



Governed Data and AI Foundation

Databricks provides secure, scalable, and governed access to enterprise data, models, metadata, and AI assets.



Decision Context

Board adds the business semantics, assumptions, rules, workflows, and planning structures required to make intelligence actionable.



Continuous Planning

Plans and forecasts adapt as new internal results, model outputs, and external signals become available.



Governed Action

Recommendations and decisions move through permissions, approvals, audit controls, and human oversight before execution.

Architectural principle

Keep enterprise data and AI assets where they belong.
Keep planning logic and decision governance where they belong.
Connect them through secure, governed interfaces.

Enterprise Data Integration & AI Pipeline

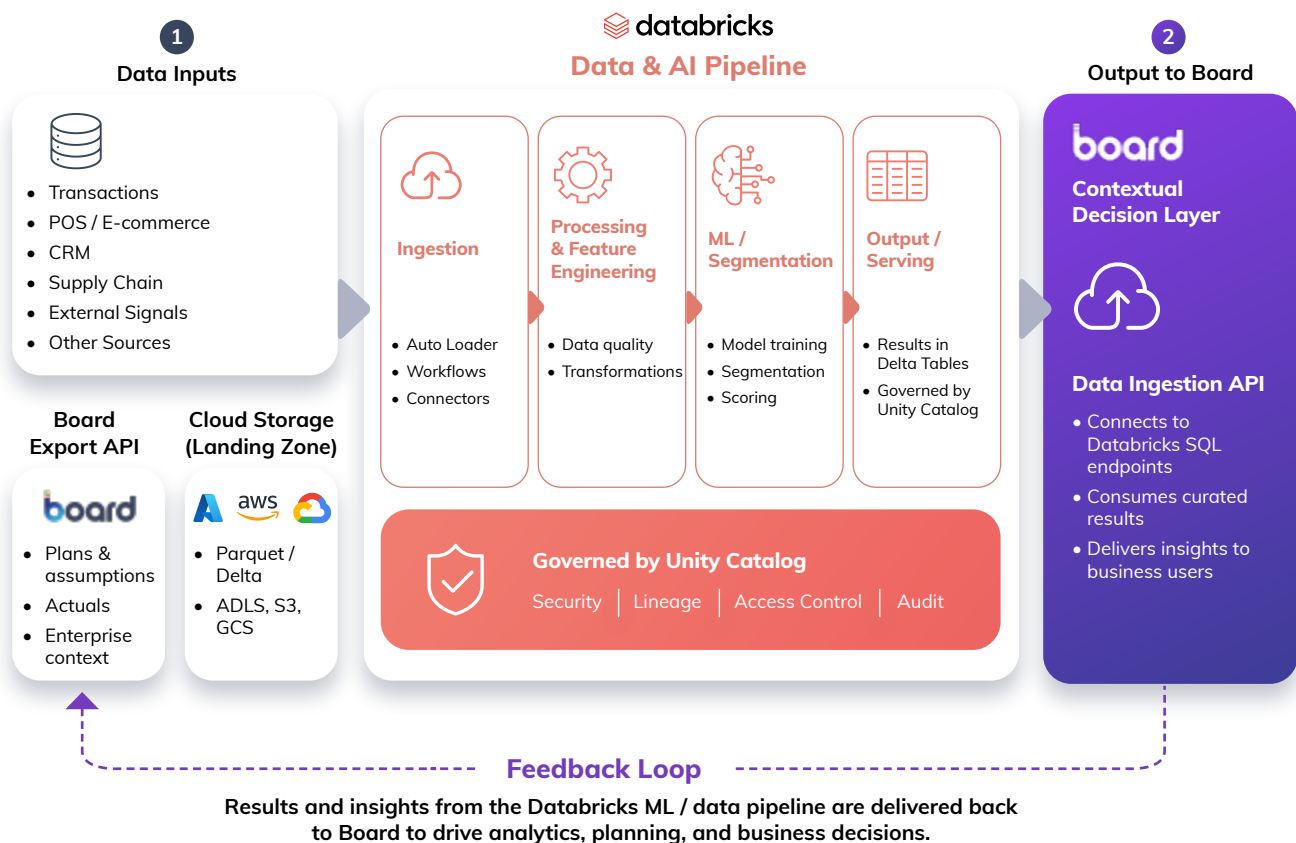
Most enterprises already have the core components required for enterprise AI: cloud storage, governed data pipelines, data engineering, and machine learning.

The challenge is operationalizing those assets inside planning and decision workflows.

This reference pattern shows how Databricks prepares and governs enterprise data and AI outputs, while Board activates those assets through planning models, business rules, scenarios, and workflows.

Together, the platforms create a continuous flow from governed data and AI to coordinated plans, actions, and measurable business outcomes.

Customer Segmentation Pipeline: Reference Architecture



Board Export API exports data to cloud storage in Parquet format. Data is then consumed by Databricks using standard ingestion pipelines: Auto Loader, Workflows, DLT, or scheduled jobs. The resulting data flows back to Board via JDBC/ODBC connectivity.

Key Benefits



End-to-end cycle
From data to insights and back



Flexible data inputs
Internal sources or via Board Export API



Governed, secure, and scalable
With Unity Catalog



Standard Databricks pipelines
For ingestion, processing, and ML

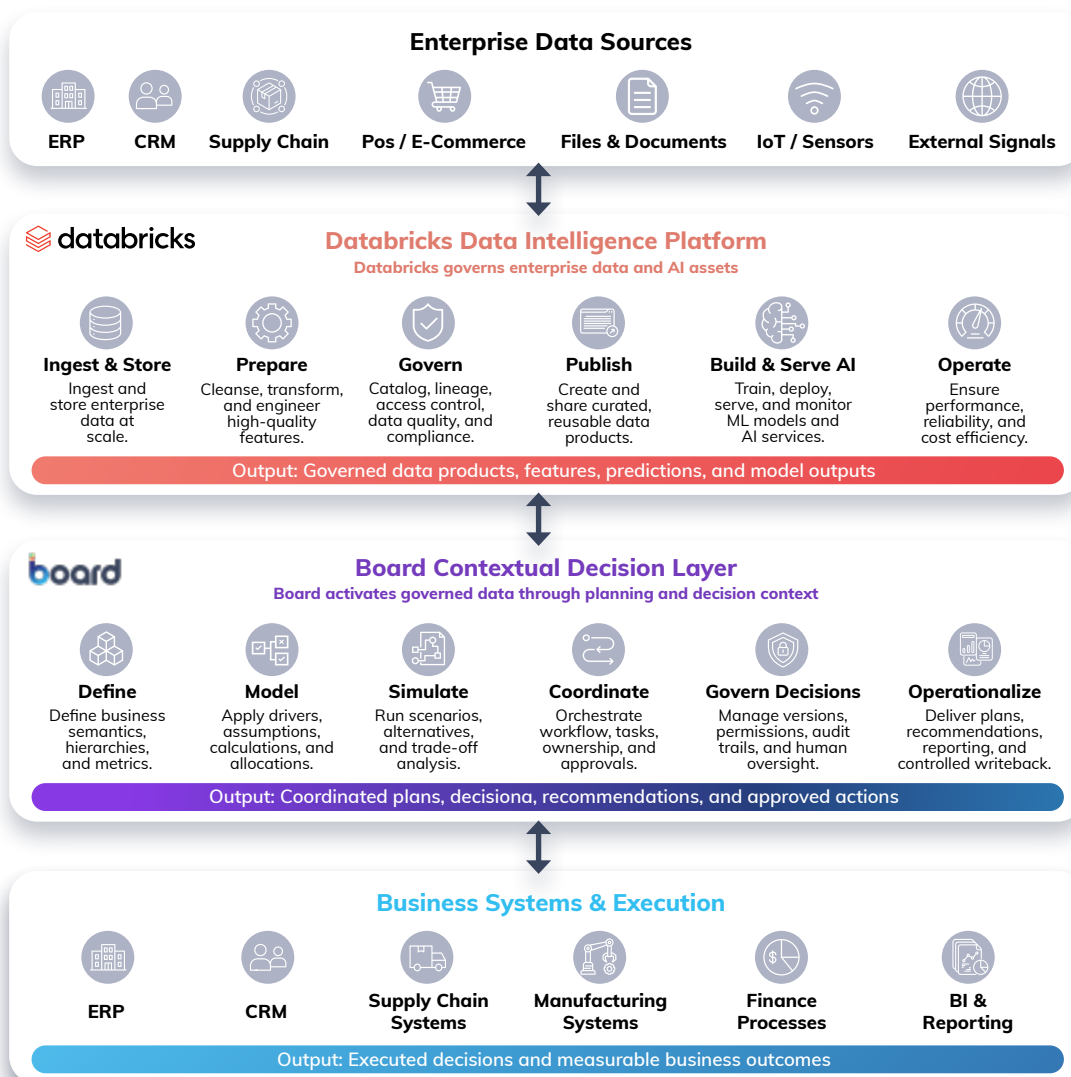


Actionable insights
Delivered to Board for business users

Architectural Responsibilities

Clear boundaries. Shared governance.
Coordinated outcomes.

Databricks and Board have complementary responsibilities across the enterprise data-to-decision lifecycle. Clear boundaries ensure each platform delivers maximum value while working together to drive business outcomes.



Why clear boundaries matter

Keep data engineering, data governance, and AI lifecycle management in Databricks.

Keep planning logic, scenarios, workflows, and decision governance in Board.

Connect them through secure, governed interfaces.

Shared Responsibilities

Security & Compliance

Protect data and meet enterprise policies.

Identity & Access

Align roles and permissions across platforms.

Governance Alignment

Maintain consistent ownership, lineage, and standards.

Operational Excellence

Monitor reliability, performance and support.

Business Outcomes

Measure the value of data-to-decision execution.



Databricks Optimizes

Store - Govern - Prepare - Predict



Board Optimizes

Activate - Enrich - Plan - Decide



Business Systems Optimize

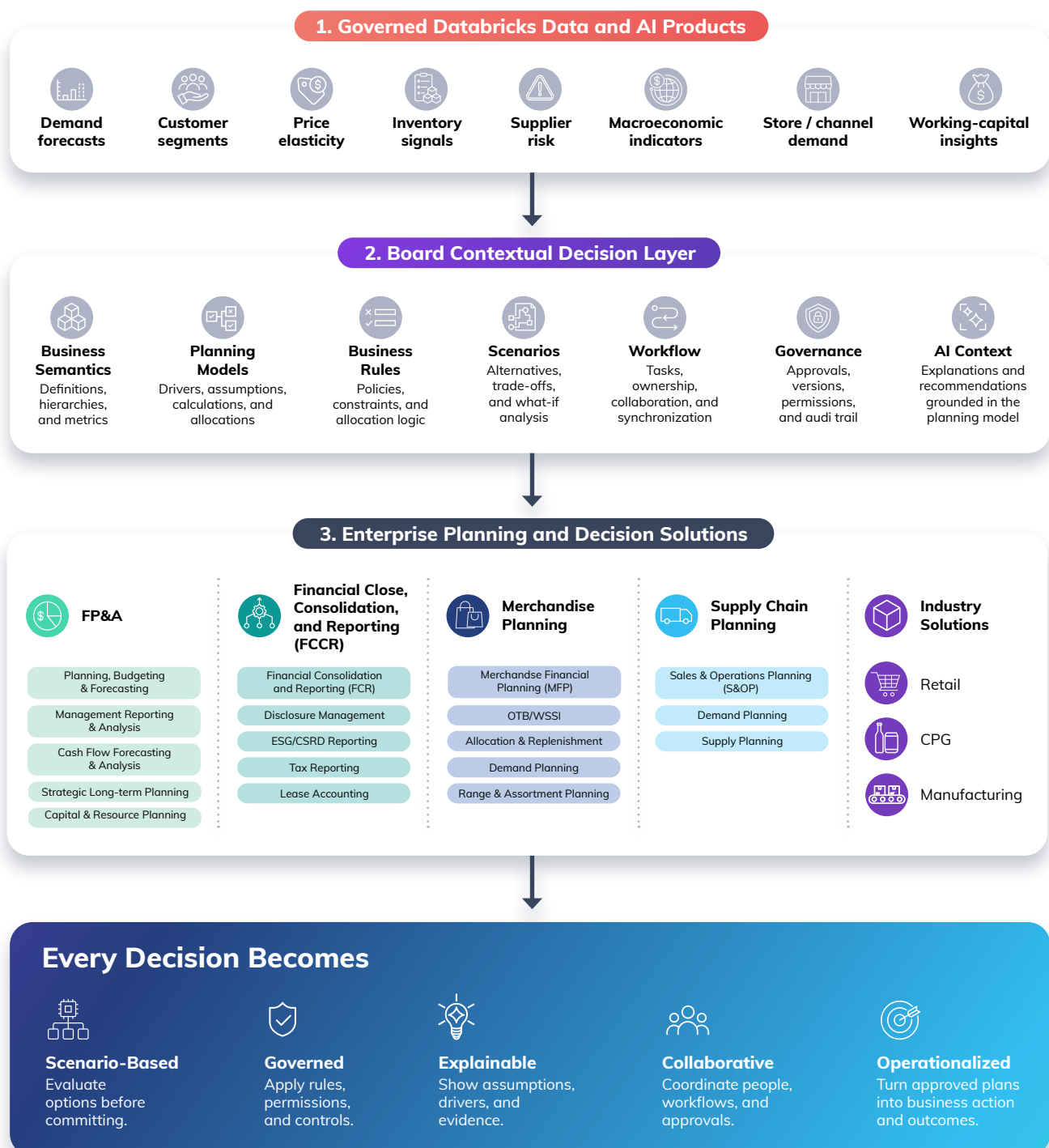
Execute - Measure - Operate - Improve

From Data Products to Enterprise Decisions

How Board activates and enriches governed Databricks data and AI products with planning context

Databricks delivers governed data and AI products at scale—curated, trusted, and ready for consumption. Board adds the business context, planning logic, workflow, and governance required to transform those assets into coordinated plans, recommendations, and actions.

Together, Databricks and Board turn data and AI into measurable business outcomes.



Architecture Design Principles

Recommended practices for enterprise planning architectures built on Databricks and Board.



Keep enterprise data in Databricks.

Avoid duplicating governed enterprise datasets. Leverage Databricks as the system of record for enterprise data, models, and AI assets.



Expose trusted data products—not raw data.

Planning should consume curated, governed data products with clear business definitions, quality, lineage, and access controls.



Separate prediction from planning.

Use Databricks to predict what is likely to happen. Use Board to plan, simulate, collaborate, and decide what the business should do next.



Keep planning logic deterministic.

Business rules, assumptions, allocations, approvals, scenarios, and workflows belong in the Contextual Decision Layer, not inside prompts or LLMs.



Close the loop.

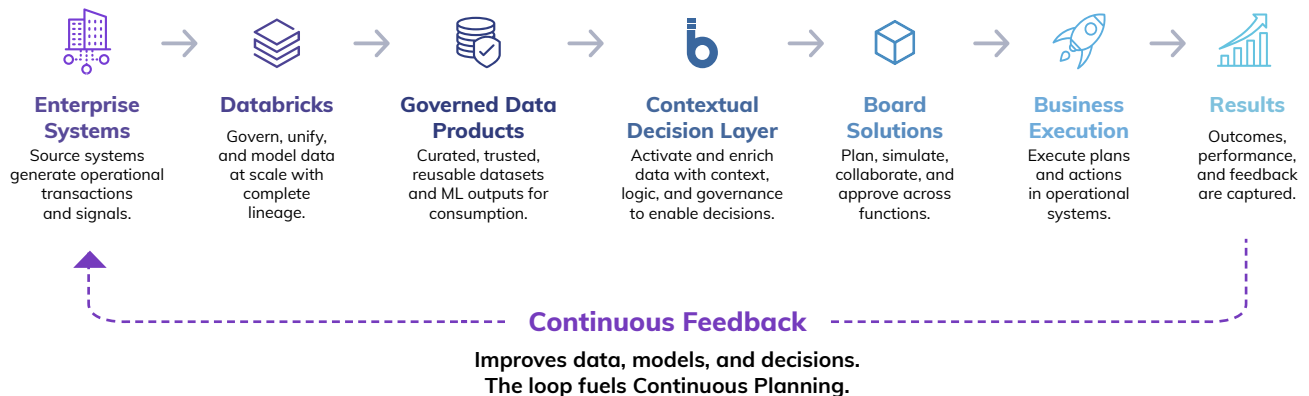
Plans, decisions, annotations, and outcomes should flow back to Databricks to improve analytics, model performance, and enable Continuous Planning.



Build for openness.

Use open standards and interfaces. REST, Delta, Parquet, open APIs, and bring-your-own LLMs and data platform options protect choice and enable long-term architectural flexibility.

Recommended Reference Pattern



Part of the Board + Data Platform Series

Board complements leading data platforms by activating and enriching governed data with planning context, business rules, workflow, and decision intelligence.

Current Guide



Board + Databricks

Activate & Enrich Enterprise Data with Continuous Planning.



Coming Next



Board + Microsoft Fabric

Activate & Enrich Enterprise Data with Continuous Planning.

Coming Soon

Coming Next



Board + Snowflake

Activate & Enrich Enterprise Data with Continuous Planning.

Coming Soon

Learn more at
www.board.com