

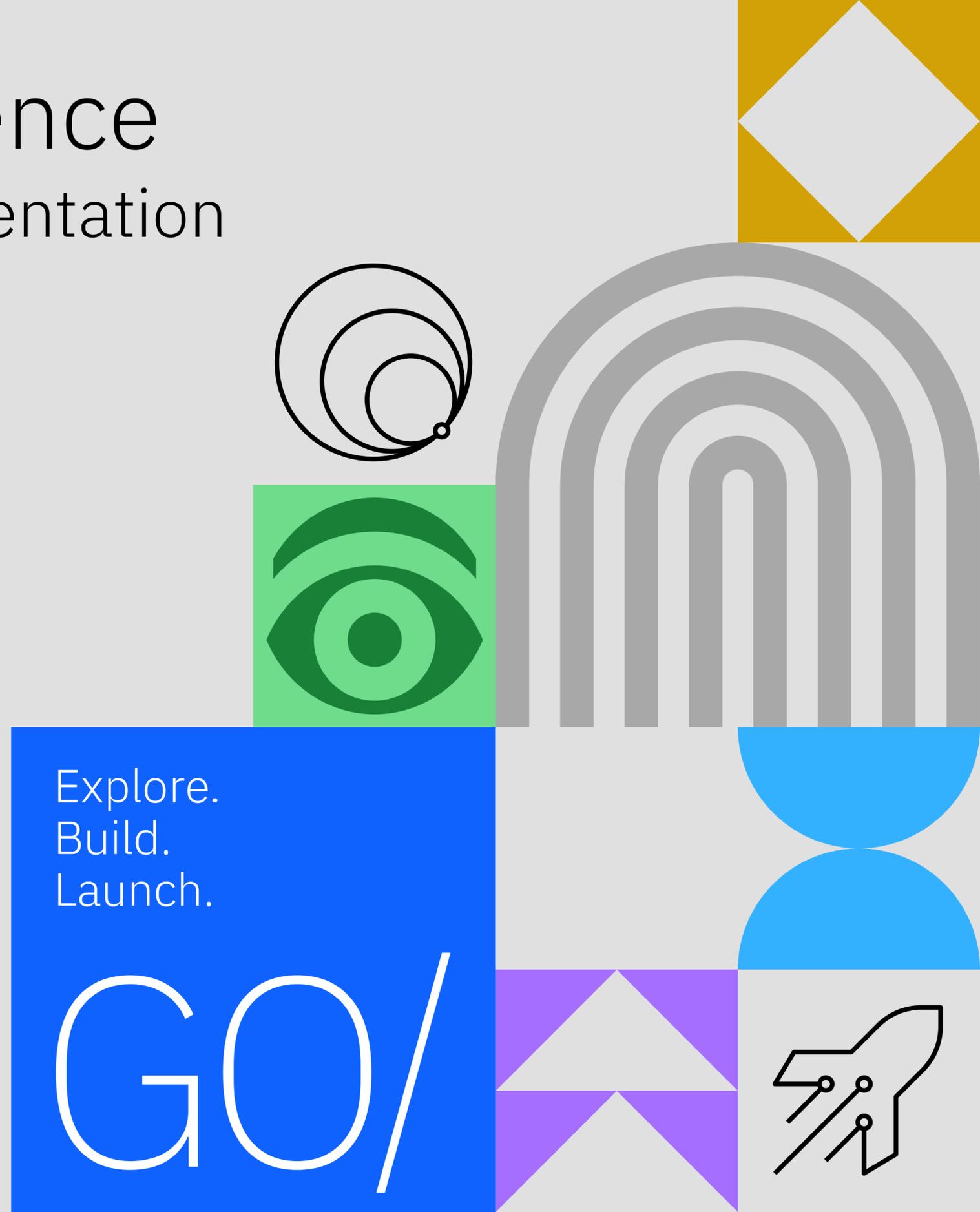
IBM watsonx.data intelligence

Data governance is more than documentation

DATAVERSITY Demo Day – Data Governance

Jacob Stellon
IBM, Product Manager – watsonx.data intelligence

February 2026



Explore.
Build.
Launch.

GO/

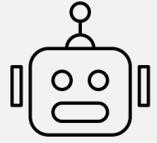
Data Intelligence: a shift from static governance to action

Governance isn't documentation anymore.

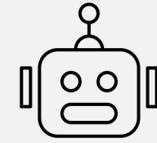
It's the engine producing metadata to power AI



AI Agents are powerful, but only when they understand your business



BI agents must be able to find data, understand data relationships, and safely execute queries



Data engineering agents need to understand dependencies before pushing changes

Help me do some data analysis on our net promoter score data. I want to answer the following questions:

1. What is the NPS for customers delayed by more than 45 mins
2. How does a customer's loyalty tier impact their NPS score on long-haul vs short-haul flights

Thought process >

I'd be happy to help you analyze your NPS data! Let me set up a task list and get started.

Read 3 files, updated todo list, searched 2 patterns >

Let me generate the SQL queries for your analysis questions. I'll start by searching for relevant data assets to understand the schema.

Search asset >

I found relevant NPS assets. Let me find your project and understand the data schema to generate accurate SQL queries.

Find container >

Now let me generate SQL queries for your two questions. I'll first enable the project for text-

[Watch the demo](#)

The screenshot shows a code editor with a SQL migration file named `2025_11_20_alter_eu_daily_trades.sql`. The code includes comments about the migration purpose, owner, and status, followed by a schema definition for `EU_DAILY_TRADES` and a planned change to rename `TRADE_AMOUNT` to `GROSS_TRADE_AMOUNT` and add `NET_TRADE_AMOUNT`. A chat window on the right displays the AI agent's response, including a task list, search results for relevant assets, and a detailed analysis of downstream dependencies for the proposed schema change.

```
1 -- Migration: 2025_11_20_alter_eu_daily_trades.sql
2 -- Purpose: Adjust EU_DAILY_TRADES schema for new pricing model
3 -- Owner: jacob.stellon
4 -- Status: DRAFT - not yet deployed
5
6 -- Current schema (for context):
7 -- EU_DAILY_TRADES(
8 --   TRADE_ID          BIGINT,
9 --   TRADE_DATE        DATE,
10 --  INSTRUMENT_ID     VARCHAR(64),
11 --  CURRENCY           VARCHAR(3),
12 --  TRADE_AMOUNT      DECIMAL(18,2),
13 --  CREATED_AT        TIMESTAMP
14 -- );
15
16 -- Planned change:
17 -- 1) Rename TRADE_AMOUNT -> GROSS_TRADE_AMOUNT
18 -- 2) Add NET_TRADE_AMOUNT (nullable for now)
19
20 -- TODO: Before deploying, check downstream impact of changing TRADE_AMOUNT
21 --       using watsonx.data intelligence lineage.
22
23 ALTER TABLE EU_DAILY_TRADES
24   RENAME COLUMN TRADE_AMOUNT TO GROSS_TRADE_AMOUNT;
25
26 ALTER TABLE EU_DAILY_TRADES
27   ADD COLUMN NET_TRADE_AMOUNT DECIMAL(18,2);
28
```

CHAT

use watsonx data intelligence to tell me what assets will be impacted if I make this change

2025_11_20_alter_eu_daily_trades.sql:23-27

GitHub Copilot

- > Ran `lineage_search_lineage_assets` - wxdi-mcp-server (MCP Server) ✓
- > Ran `lineage_get_lineage_graph` - wxdi-mcp-server (MCP Server) ✓
- > Ran `lineage_get_lineage_graph` - wxdi-mcp-server (MCP Server) ✓

If you rename `TRADE_AMOUNT` to `GROSS_TRADE_AMOUNT` and add `NET_TRADE_AMOUNT` in `EU_DAILY_TRADES`, the following downstream assets will be impacted:

For the asset `EU_DAILY_TRADES` (tm_manta_functional_demo):

- Procedure: `LOAD_EU_WW_TRADES_SQL`
- Table: `WW_DAILY_TRADES`

For the asset `eu_daily_trades` (techxchange):

- Procedure: `load_eu_ww_trades_sql`
- Table: `ww_daily_trades`
- Dataflows: `@1_filter_valid_active`, `@2_standardize_fx`, `@3_aggregate_exposure`
- Data Tables: `stg_trades_usd`, `ds_trade_risk_summary`, `stg_filtered_trades`
- Data Set Table: `Prepped Trades`
- Pages/Reports: `Daily Total Trade Value`, `Exposure by Instrument`

Any logic, ETL, or reporting that references `TRADE_AMOUNT` will need to be updated to use the new column name. For a full interactive lineage, see:

- `tm_manta_functional_demo lineage`
- `techxchange lineage`

Review and update all downstream dependencies before deploying the change.

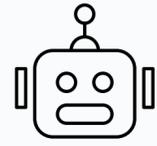
Add Context... 2025_11_20_alter_eu_daily_trades.sql:23-27 Current file

Edit files in your workspace in agent mode

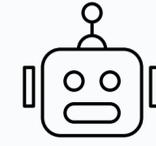
Agent GPT-4.1

[Watch the demo](#)

AI Agents are powerful, but only when they understand your business



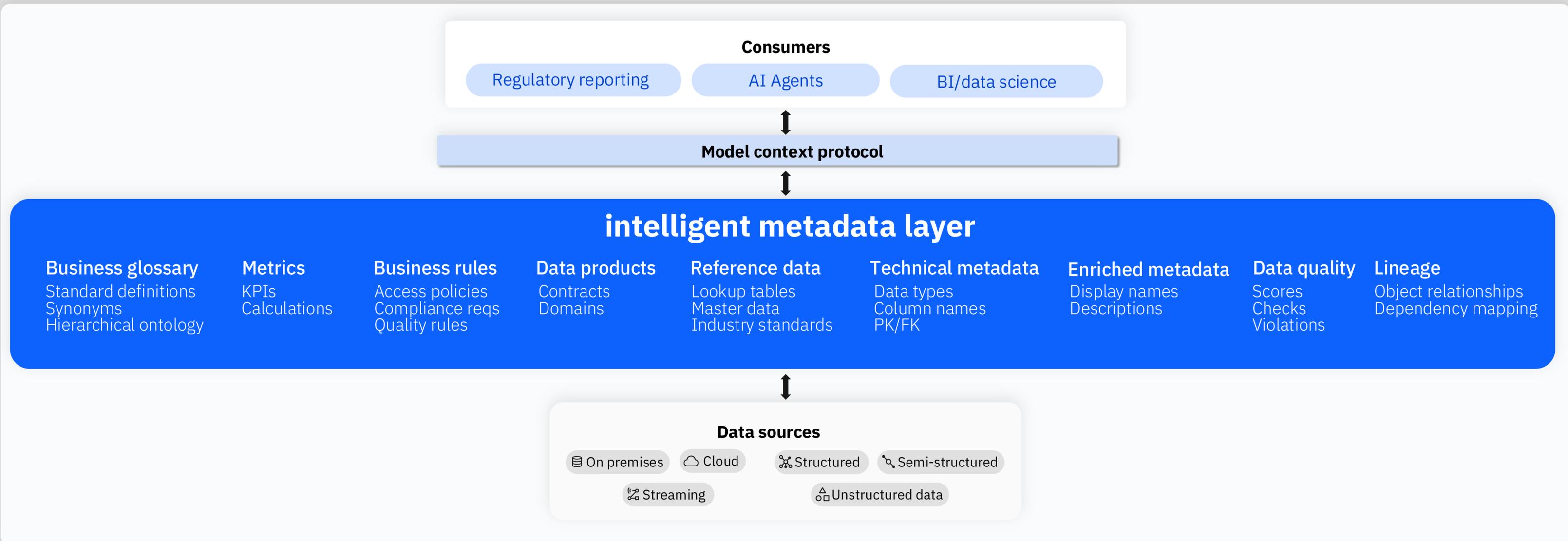
BI agents must understand an organization's standard calculations and find relevant data



Data engineering agents need data contracts & dependency maps before pushing changes

watsonx intelligent metadata layer

Providing AI agents the context required to make intelligent decisions



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Feel confident in the **quality of your data** and the **insights it generates** with IBM's data intelligence solution for structured and unstructured data

Data sharing

Central marketplace for data product distribution and consumption

Data lineage

Track and understand the journey of data from creation to consumption

Data quality

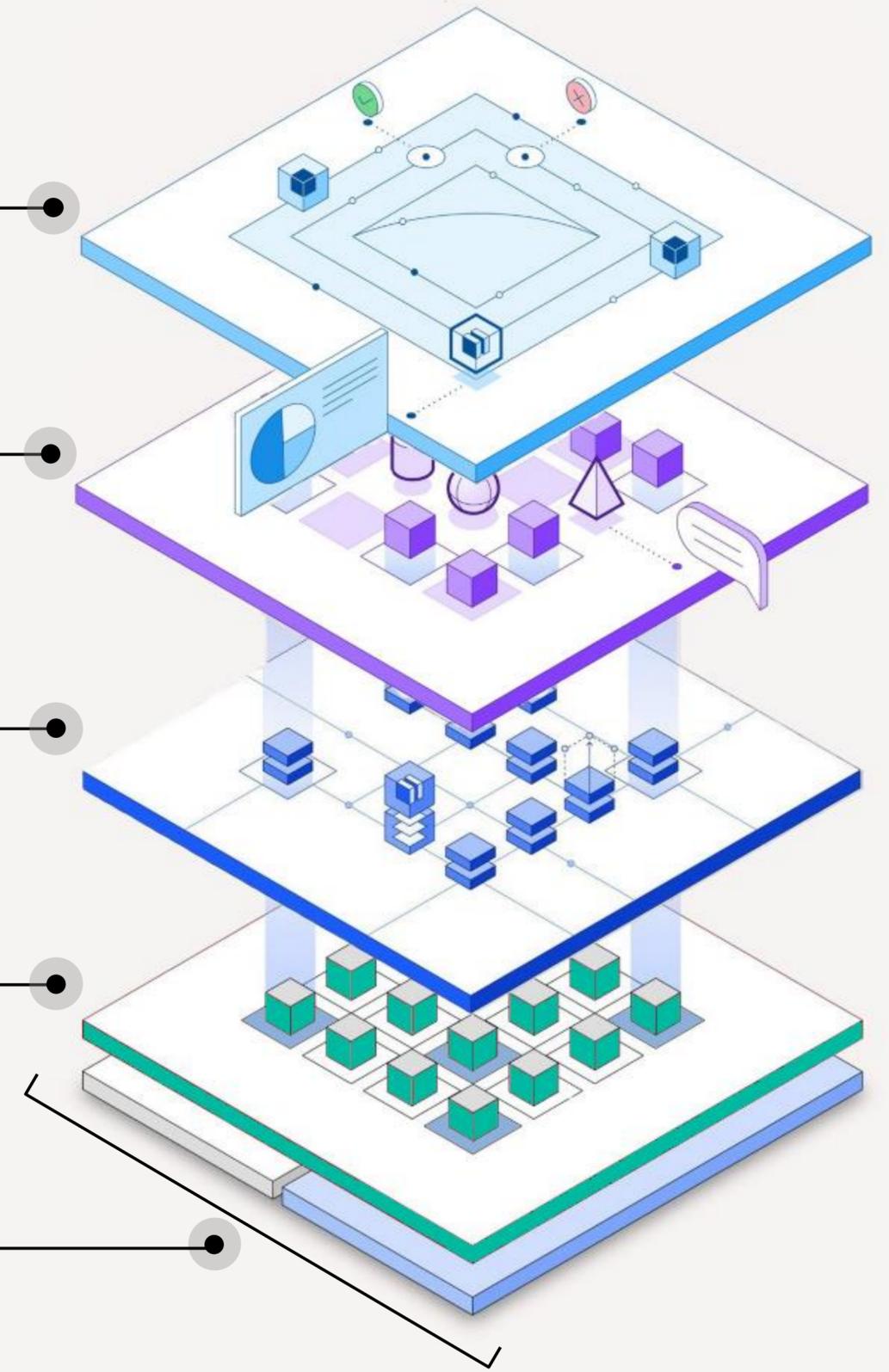
Automatically assess and monitor data quality and remediate quality issues

Data governance

Central enterprise metadata catalog that activates data for AI and analytics

Hybrid, open platform

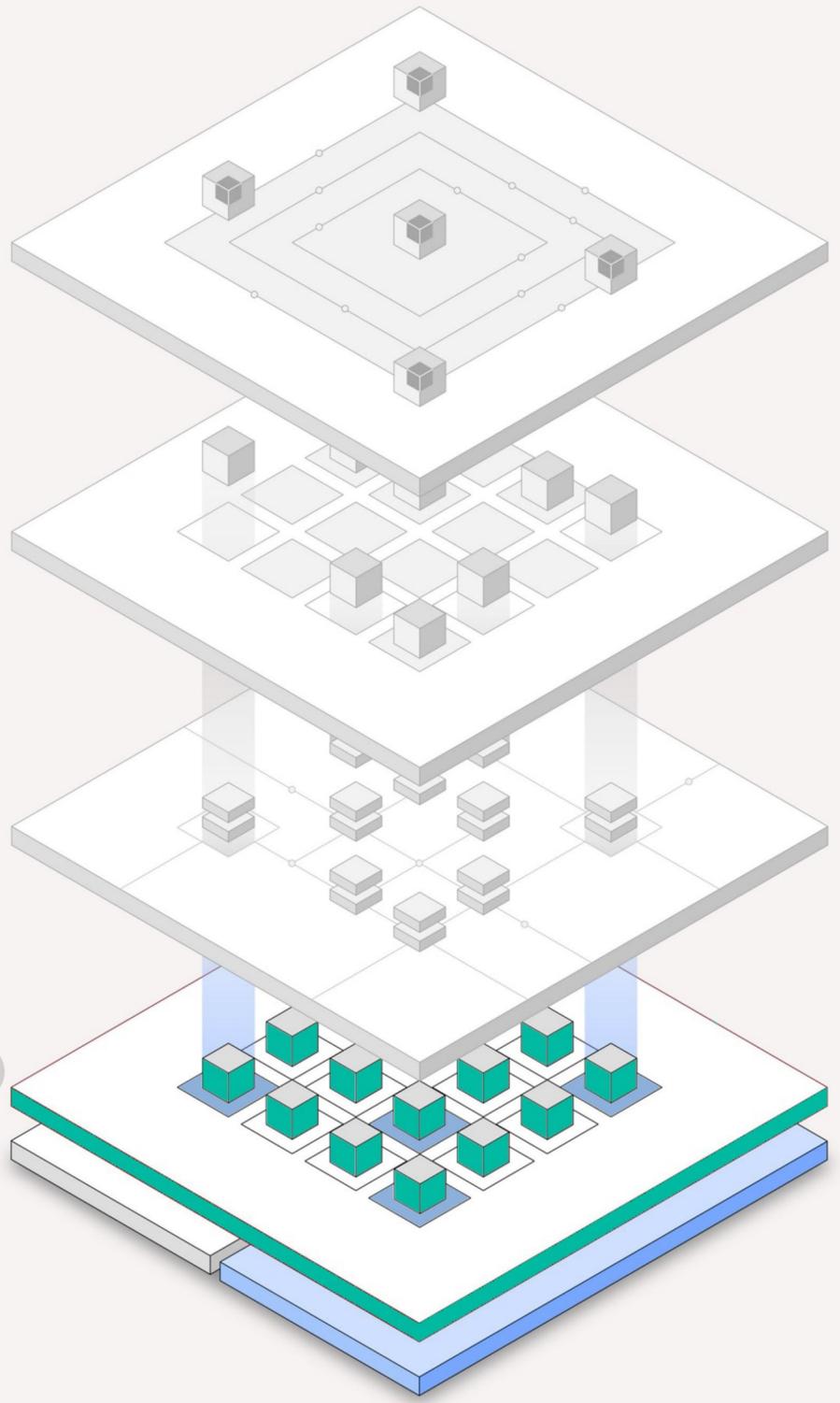
Run anywhere and build on industry standards



Data governance

Scalable data curation to fast-track compliance and metadata management programs

Make technical data easily discoverable, standardize terminology, and enforce business rules



Data governance

A centralized enterprise metadata repository automates the curation of data assets at scale, enabling data accessibility and usability across the organization

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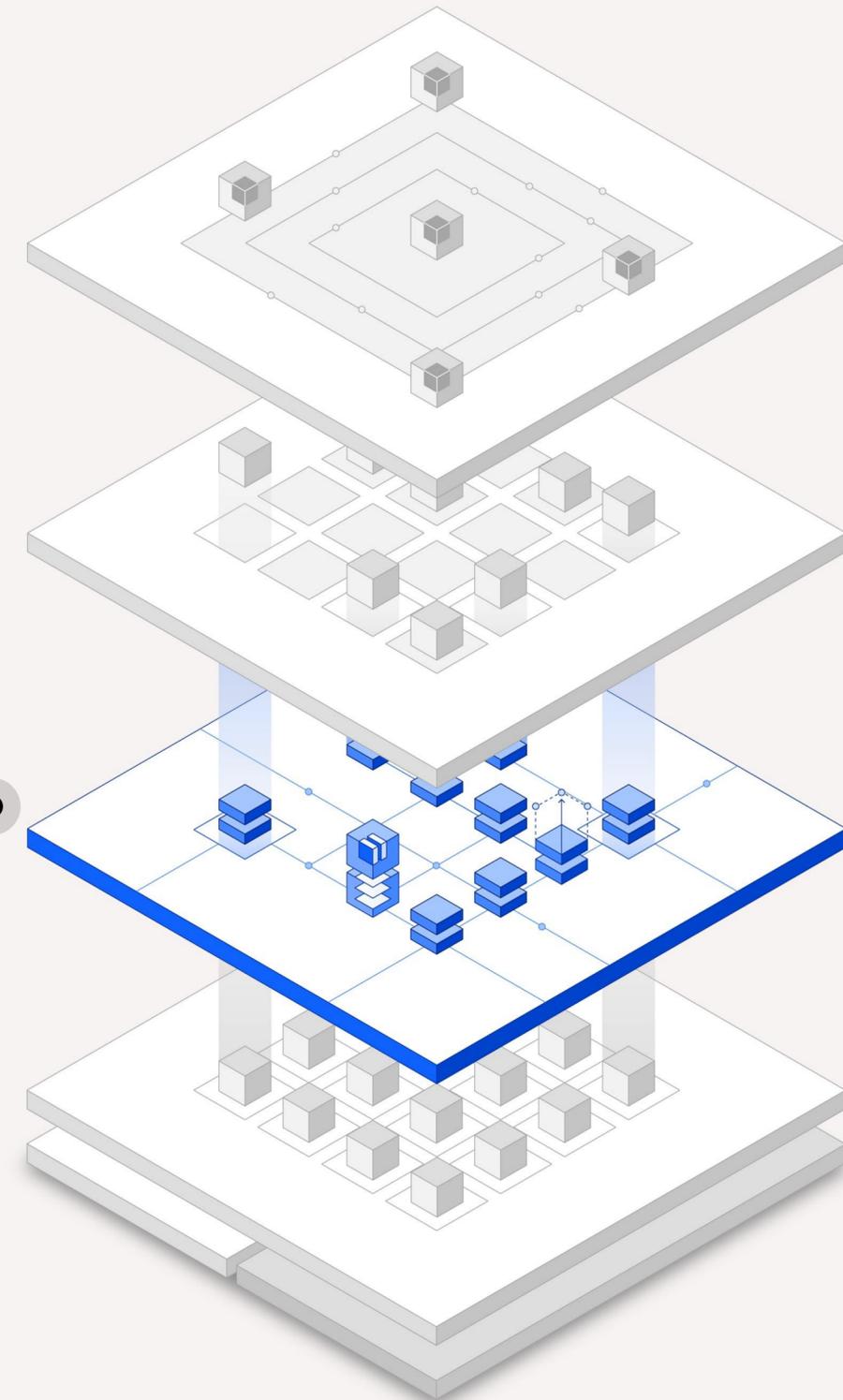
Data quality

Assess data quality at scale with automated data profiling and monitoring

Give teams trust in data through automated checks and custom rules

Data quality

Enables organizations to analyze and assess the quality of their data to ensure data used for analytics and AI is accurate, complete, reliable, and trusted



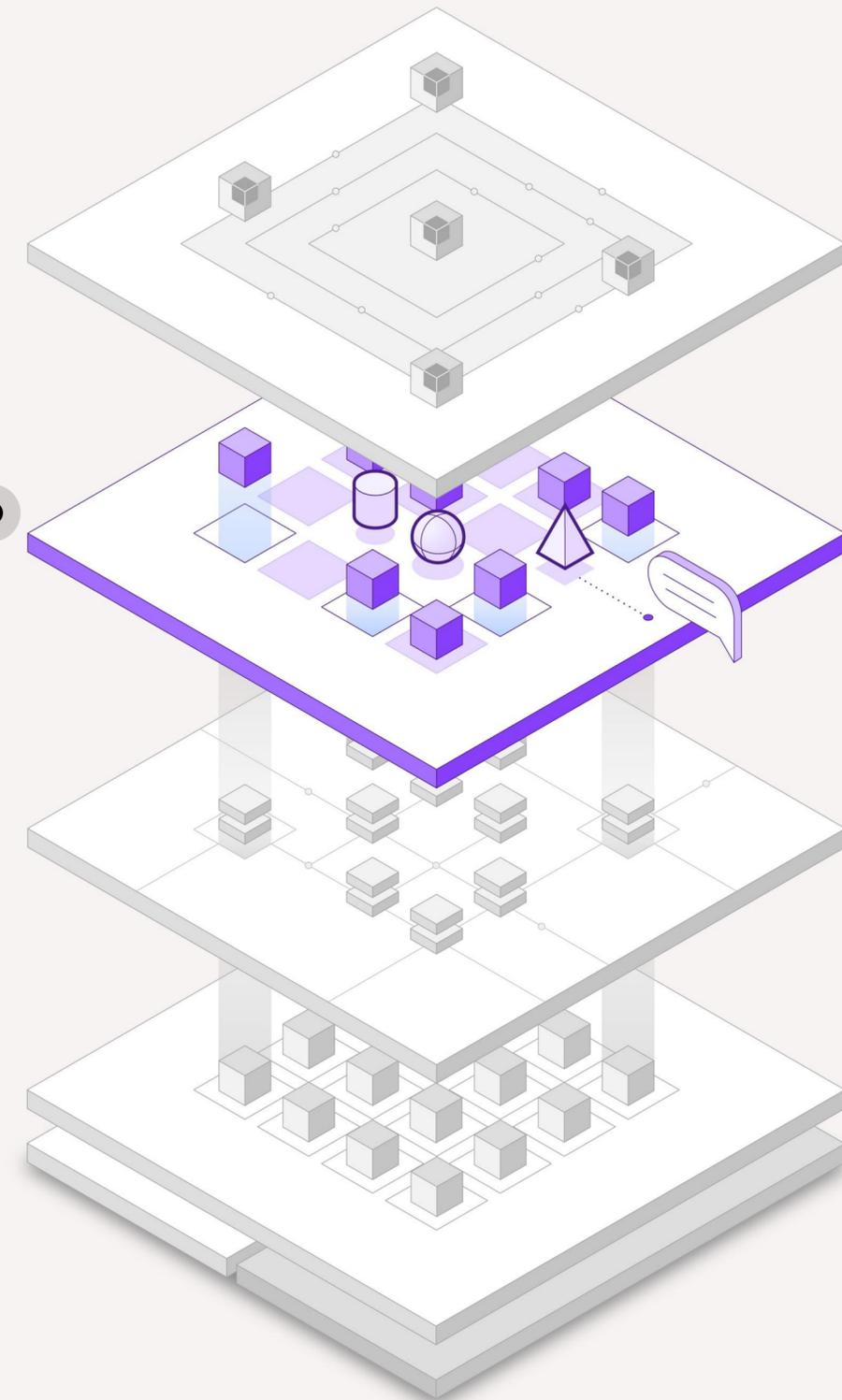
Data lineage

Ensure compliance and data understanding by mapping the journey of data from source to target

Understand the impact of planned changes, pinpoint the root cause of issues, and provide full data documentation

Data lineage

Enables organizations to track and understand the origin, movement, transformation, and usage of data, reducing errors, improving accuracy, and ensuring regulatory compliance



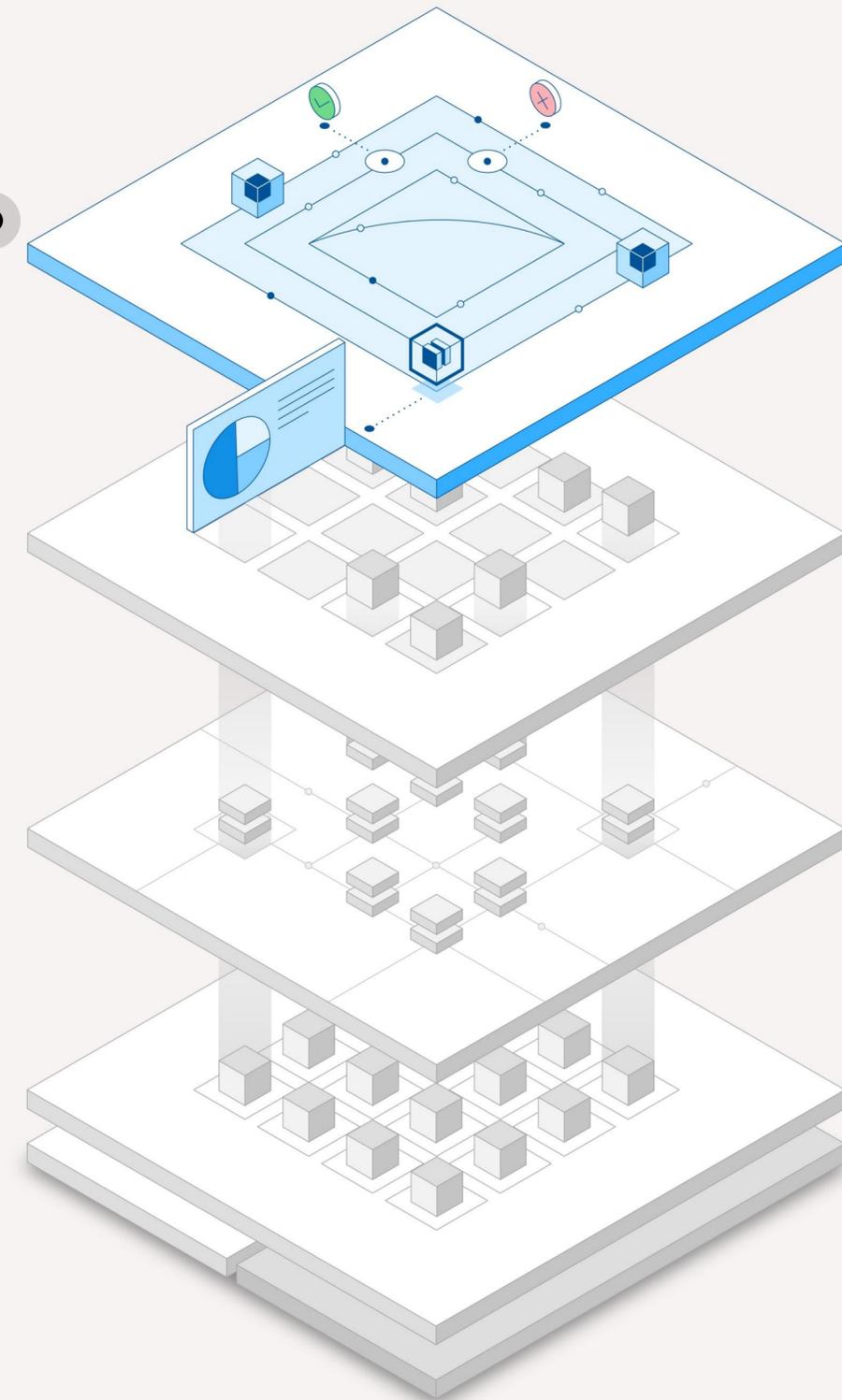
Data sharing

Simplify the onboarding of reusable data products and streamline data sharing

Easily discoverable, highly curated data sets with trusted access paths

Data sharing

A centralized marketplace for data products – Collections of curated data or related asset assets packaged for distribution and end user consumption

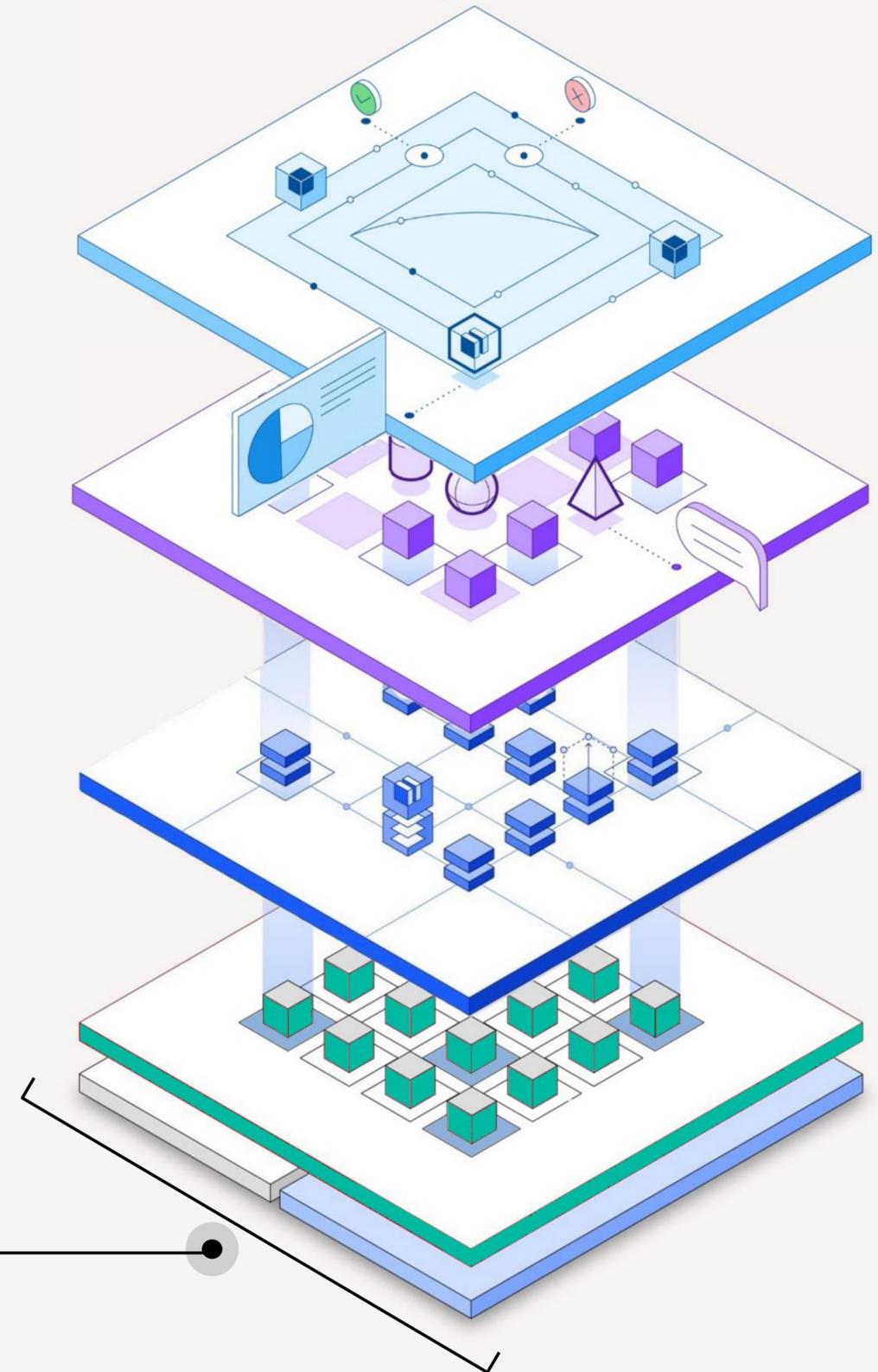


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Hybrid by design

Integrate, access, govern,
and secure **all data types**
with an open and hybrid
data architecture

Leverage standards
including Model Context
Protocol, OpenLineage, and
ODCS



Demo

Produce AI-Ready metadata

Three things AI demands that metadata alone can't deliver

1 Automated quality

Not just profiling — continuous monitoring with automated out of the box and custom rules

2 Policy enforcement

Role-based access, data masking, and compliance policies applied automatically

3 Governed data sharing

Publish data products with built-in lineage, quality scores, and access controls. Trust is built in by design.

Metadata tells you what data you have. Governance ensures it's trusted, compliant, and usable.

Demo

Effective data governance

IBM is recognized as a Leader in Metadata Management, Data & Analytics Governance, and Augmented Data Quality by Gartner®

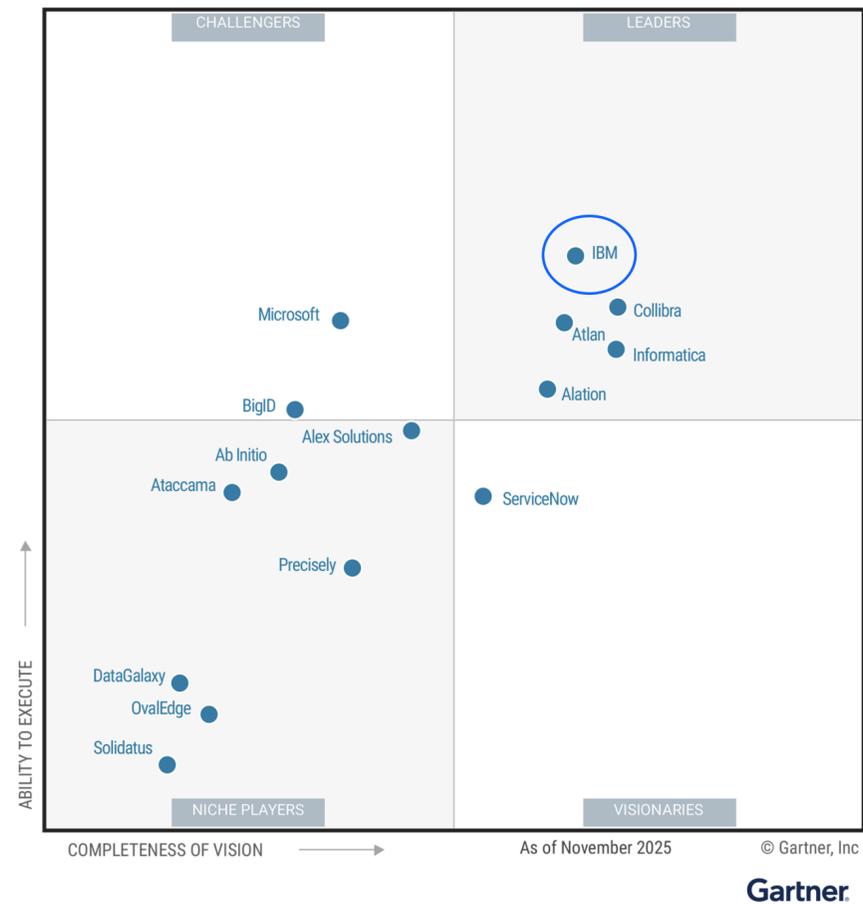
Metadata Management

Figure 1: Magic Quadrant for Metadata Management Solutions



Data & Analytics Governance

Figure 1: Magic Quadrant for Data and Analytics Governance Platforms



Augmented Data Quality

Figure 1: Magic Quadrant for Augmented Data Quality Solutions



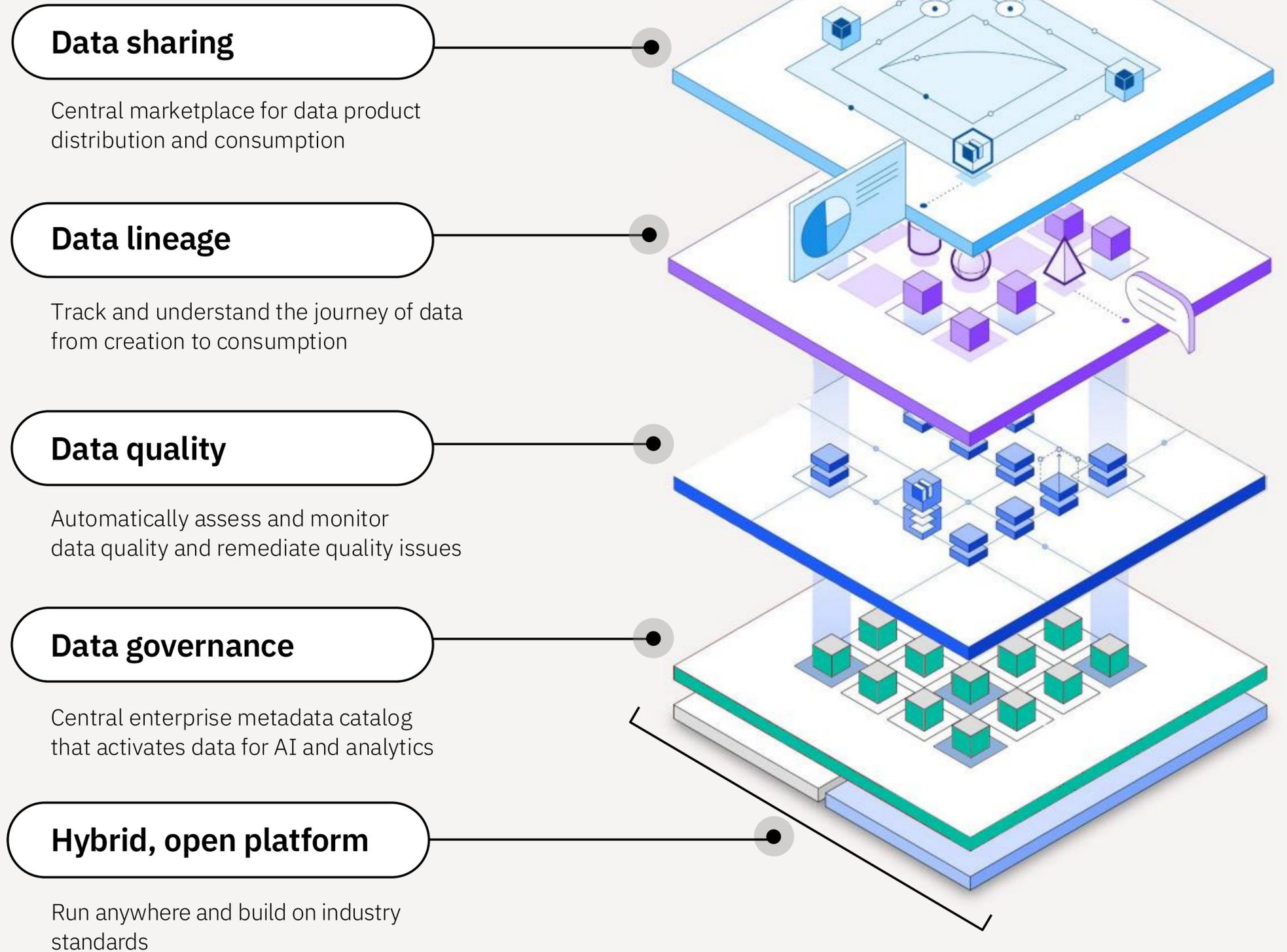
[Read the 2025 Gartner® Magic Quadrant™ for Metadata Management Solutions](#)

[Read the 2026 Gartner® Magic Quadrant™ for Data Analytics and Governance Platforms](#)

[Read the 2026 Gartner® Magic Quadrant™ for Augmented Data Quality Solutions](#)

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Feel confident in the **quality of your data** and the **insights it generates** with IBM's data intelligence solution for structured and unstructured data



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