

The Modern Health Data Platform:
Helping organizations connect,
understand, govern, and optimize
real-time AI-ready data across the
organization.



The forces redefining **data management** in the healthcare industry

Interoperability mandates

Patient data is fragmented across hundreds of disconnected systems

Mergers, acquisitions & consolidation

Each acquisition brings a new EHR, a new data stack, and years of integration debt

Security, privacy & compliance

PHI and PII breaches carry billion-dollar penalties and reputational damage

Fragmented Data Creates Three Risks



Clinical Friction

- Clinicians search and reconcile information
- Incomplete context slows decisions



Cost and Governance

- Analysts duplicate data into extracts
- Copies increase cost and exposure
- Single source of truth



AI Production Gaps

- Inconsistent meaning limits reuse
- Weak lineage and freshness block scale
- KPI and Operation Dashboard

The Complete Data-to-Action Journey

1

Connect data wherever it lives, across cloud, on-premises, applications, and devices.

2

Understand meaning through metadata, context, and shared definitions.

3

Govern access, quality, lineage, and policy across every workload.

4

Optimize data for trusted insight, AI, and measurable action.

Data Platform Use Cases in Healthcare

Unifying structured EHRs and unstructured clinical data on an open, governed lakehouse.

1. Patient 360 Single View

- Aggregates data across 18+ EHR systems.
- Unified patient identities & care-gap alerts.

2. Clinical & Ops Planning and Analytics

- KPI Dashboard
- Demand planning and budgeting
- Workforce

3. AI-Ready GenAI & RAG

- Governed data pipeline for clinical LLMs.
- Powers vector search & clinical AI agents.

4. Interoperability

- Unify fragmented data.
- Security, privacy & compliance

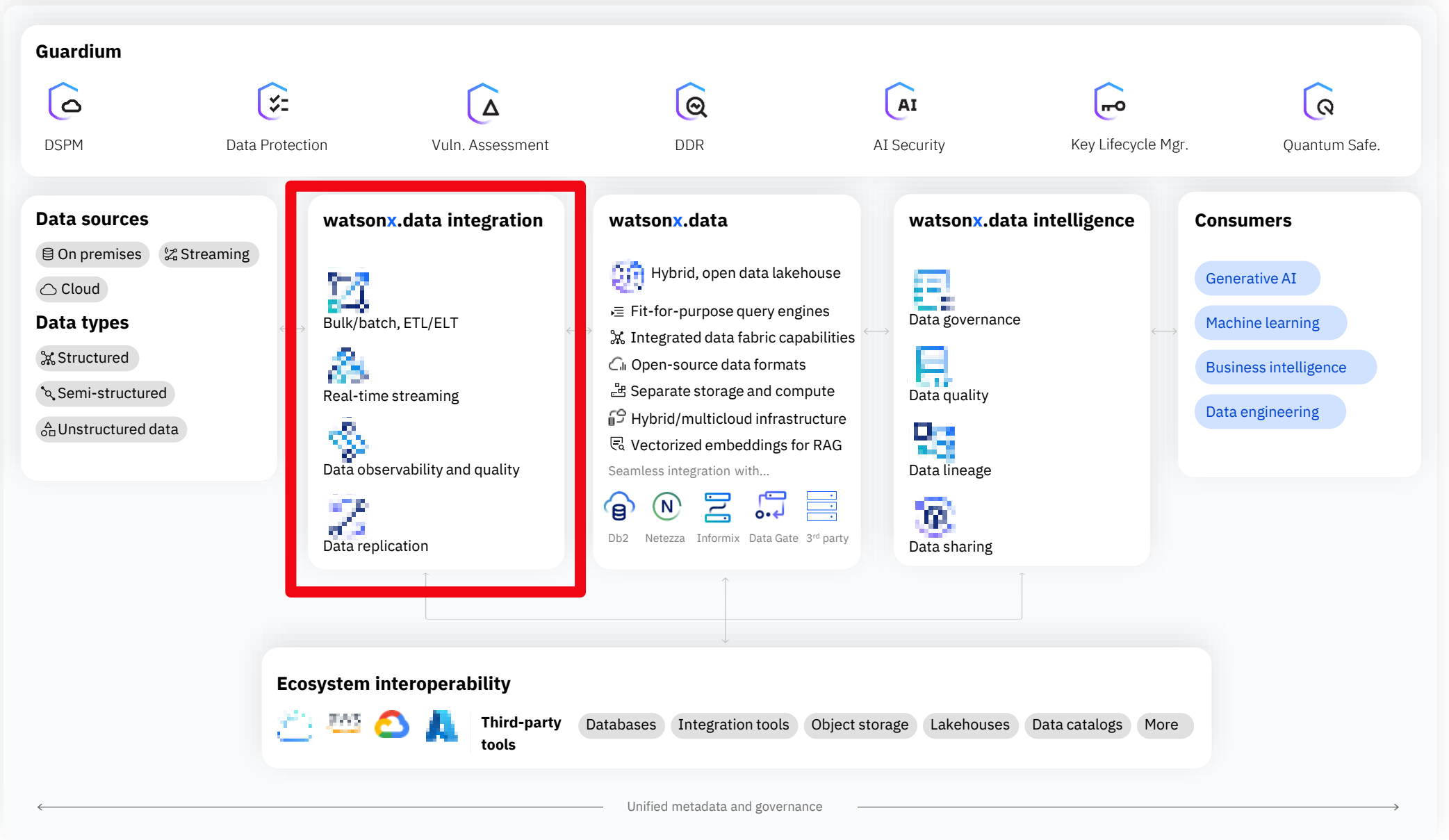
5. Imaging & Specialty Data

- Layers clinical history onto radiology scans.
- Cuts false positives & enriches profile data.

6. Lakehouse Modernization

- Governed Medallion (Bronze/Silver/Gold) architecture.
- Unlocks Data for AI.

Integrate, govern, access and secure **unstructured** and **structured data** for AI with IBM's open and hybrid **data architecture**



Companies must be ready to “shift left” and do the work before the data *lands*.

Integration

Process and transform data *before* it lands in your platform—saving on processing costs.

Governance

Contained at the source: schema registry, data contracts, and lineage attached from the first hop so trust travels with the data.

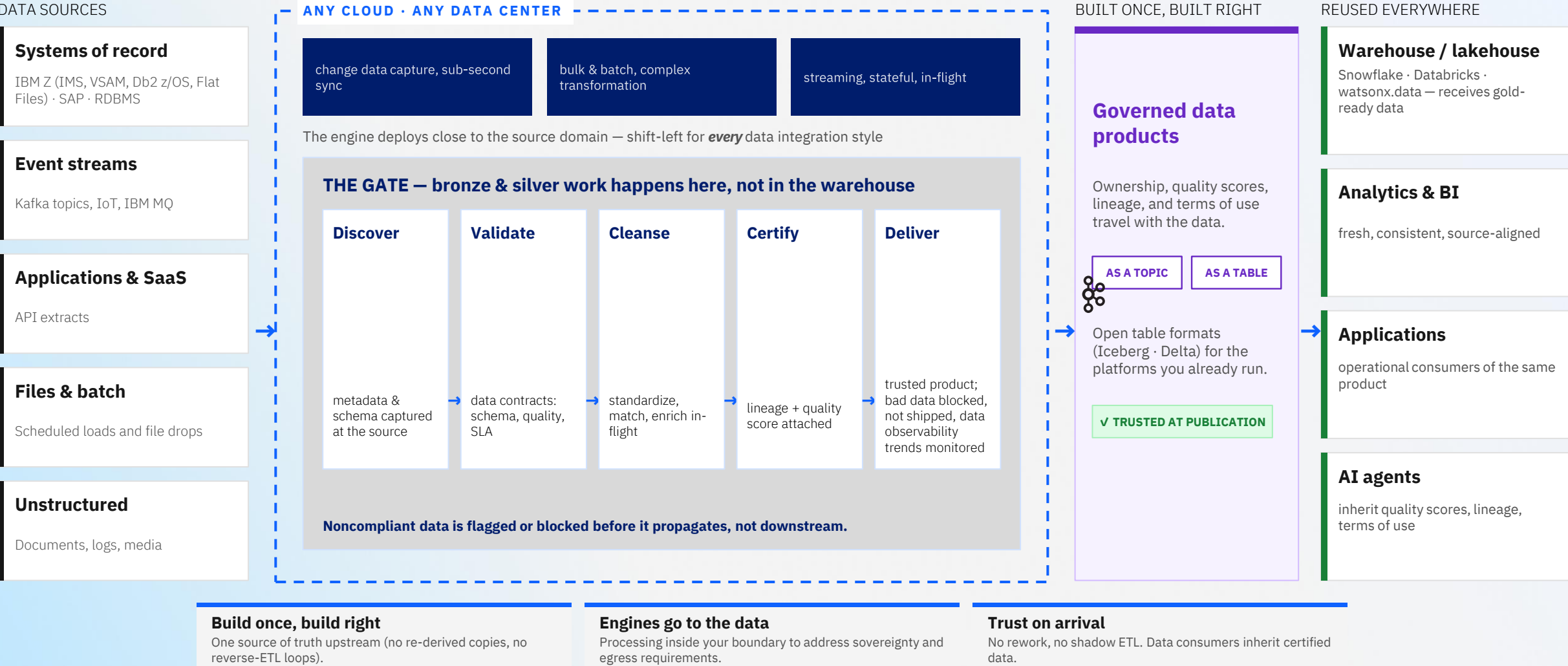
Quality

Producers apply checks upstream: contracts and quality rules validate, cleanse, standardize, and match before data propagates.

How IBM enables shift-left

IBM allows data integration and transformation to happen close to your sources—in your VPC, your data center, so that shift-left is an estate-wide operating principle. The output is a reusable, discoverable data product—consumable as a stream or a table—so you can build data once, reuse it anywhere. *Same work, but upstream rates* (and your data platforms stay put).

watsonx.data integration offers integration, quality, governance, and management—performed at the data source



Choice of integration capabilities →

Build batch, streaming, replication, and unstructured data pipelines from a unified control plane – all underpinned with data observability.



Real-time streaming data pipelines

Leverage data-driven insights in real time so you're not scrambling to overcome outdated information.



Enterprise-grade batch integration

Move and transform large volumes of complex data in batches—delivering data from any source to any target.



Unstructured data integration

Ingest, transform and process high volumes of unstructured data to improve AI accuracy, including RAG-based apps.



Low-latency data replication

Sub-second data replication keeps systems in sync, helping ensure consistent access to critical data.



Continuous data observability

Detect, diagnose and act on data issues faster with continuous observability across pipelines, jobs and data flows.



Flexible pipeline authoring

Build pipelines with natural language, drag-and-drop, or SDK-based authoring, helping users of all skill levels get trusted data faster.

Seamlessly
operate across
any environment



Native ecosystem
connectivity reduces
lock-in and maximizes
existing investments.

Files



Event-driven architectures



Transactional data stores



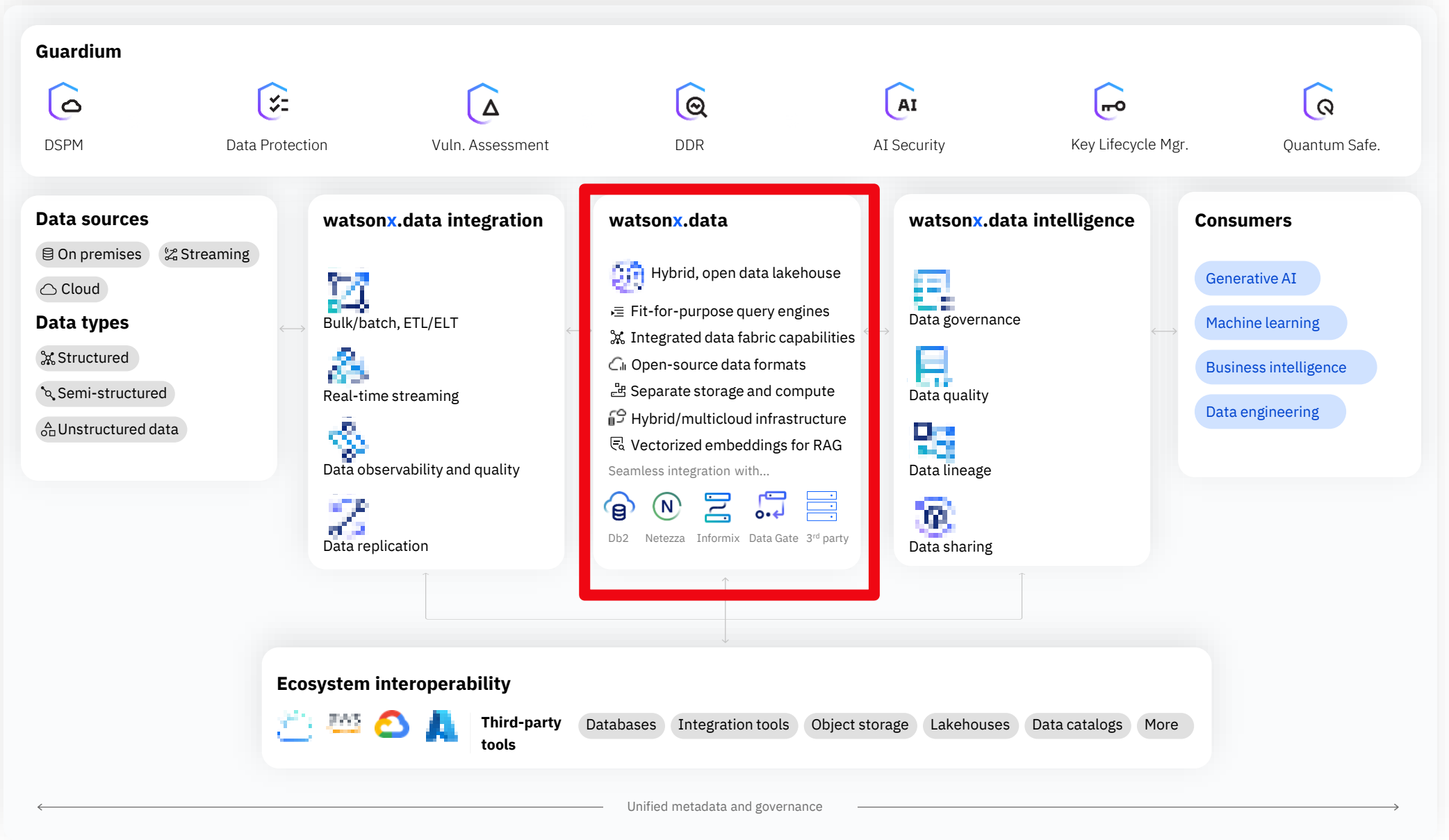
Analytical data stores



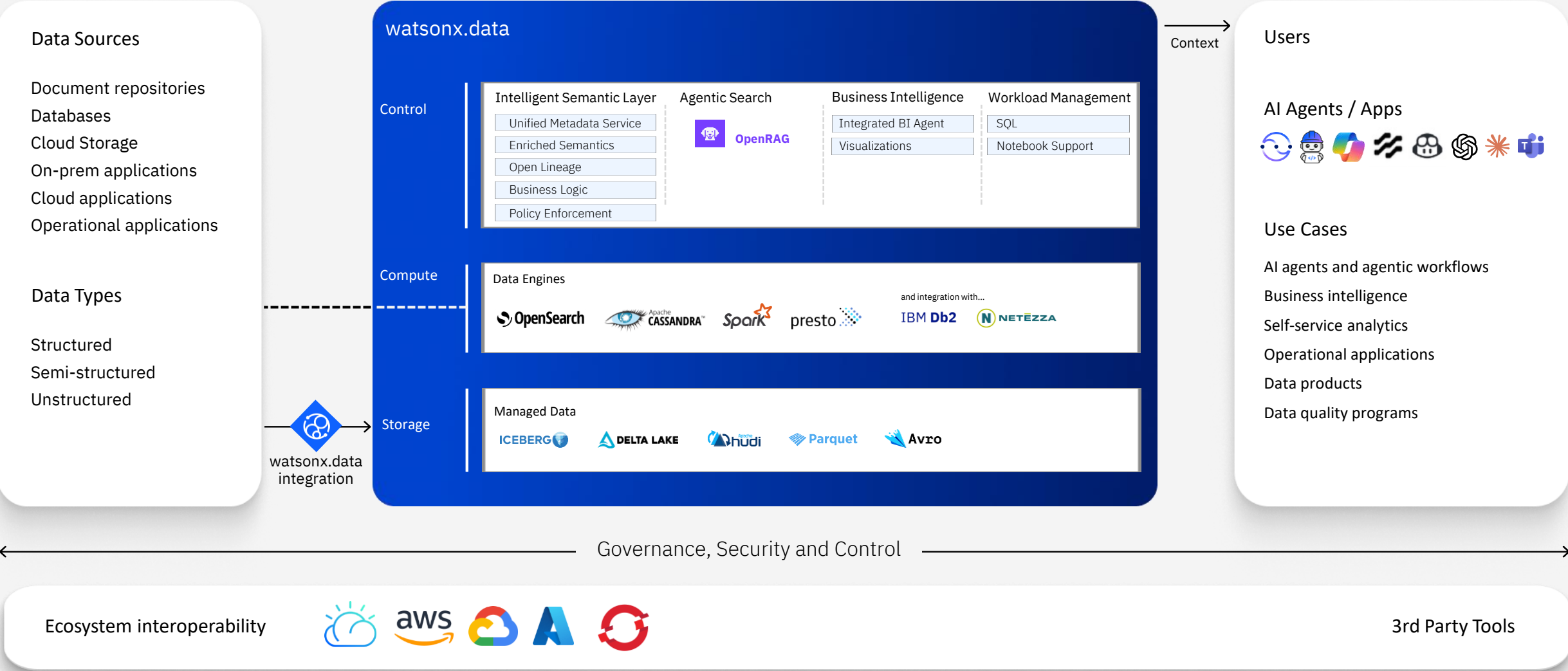
Applications



Integrate, govern, access and secure **unstructured** and **structured data** for AI with IBM's open and hybrid **data architecture**

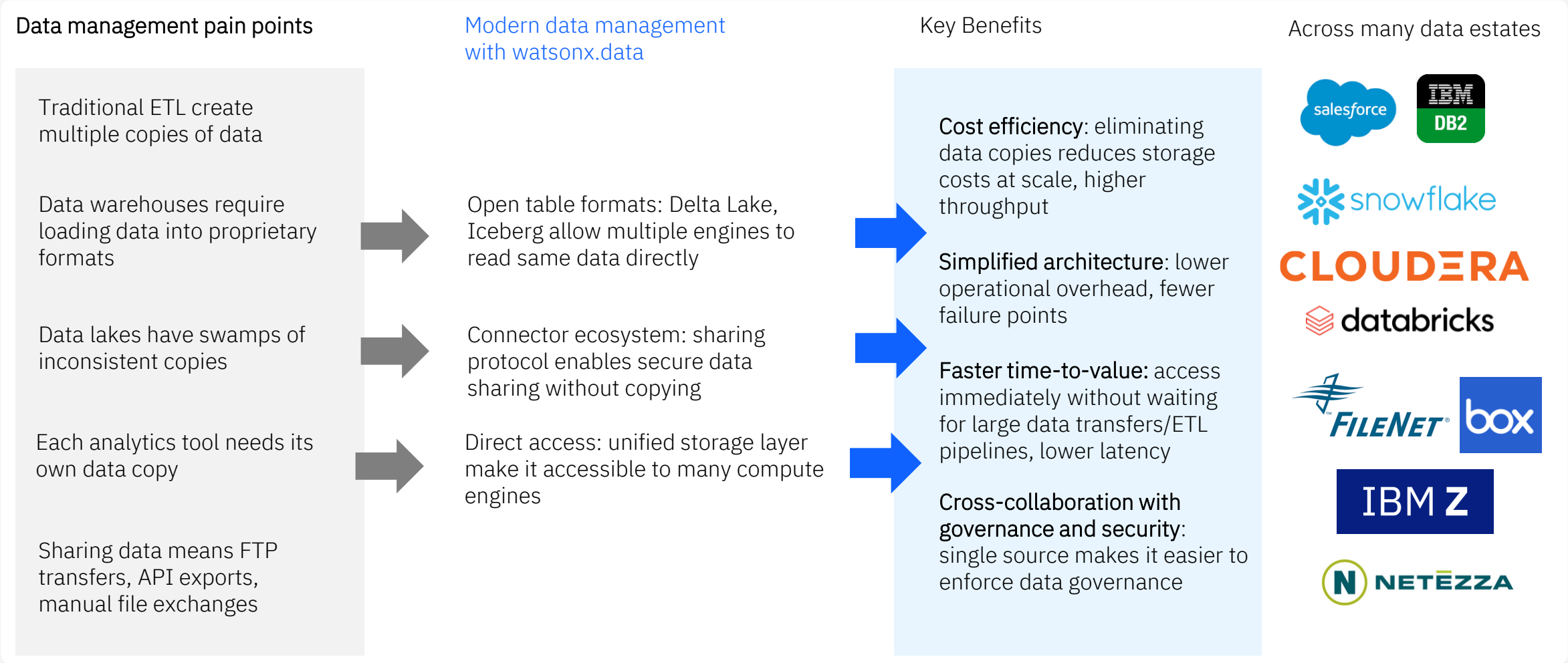


How organizations are delivering AI-ready data with IBM and watsonx.data

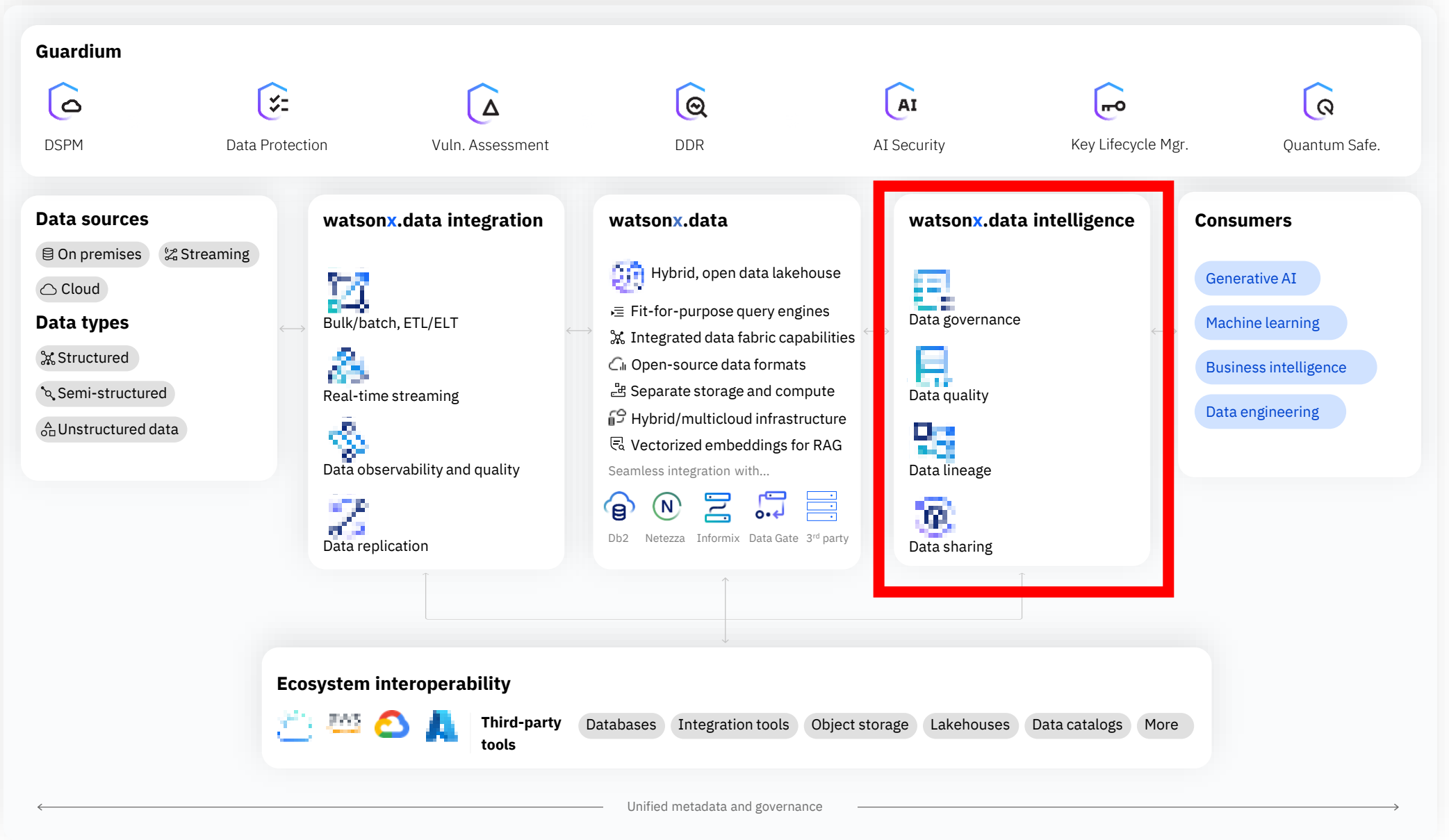


Zero Copy Integration

Zero Copy integration enables data access and querying across cloud and on-prem – **without migration**



Integrate, govern, access and secure **unstructured** and **structured data** for AI with IBM's open and hybrid **data architecture**



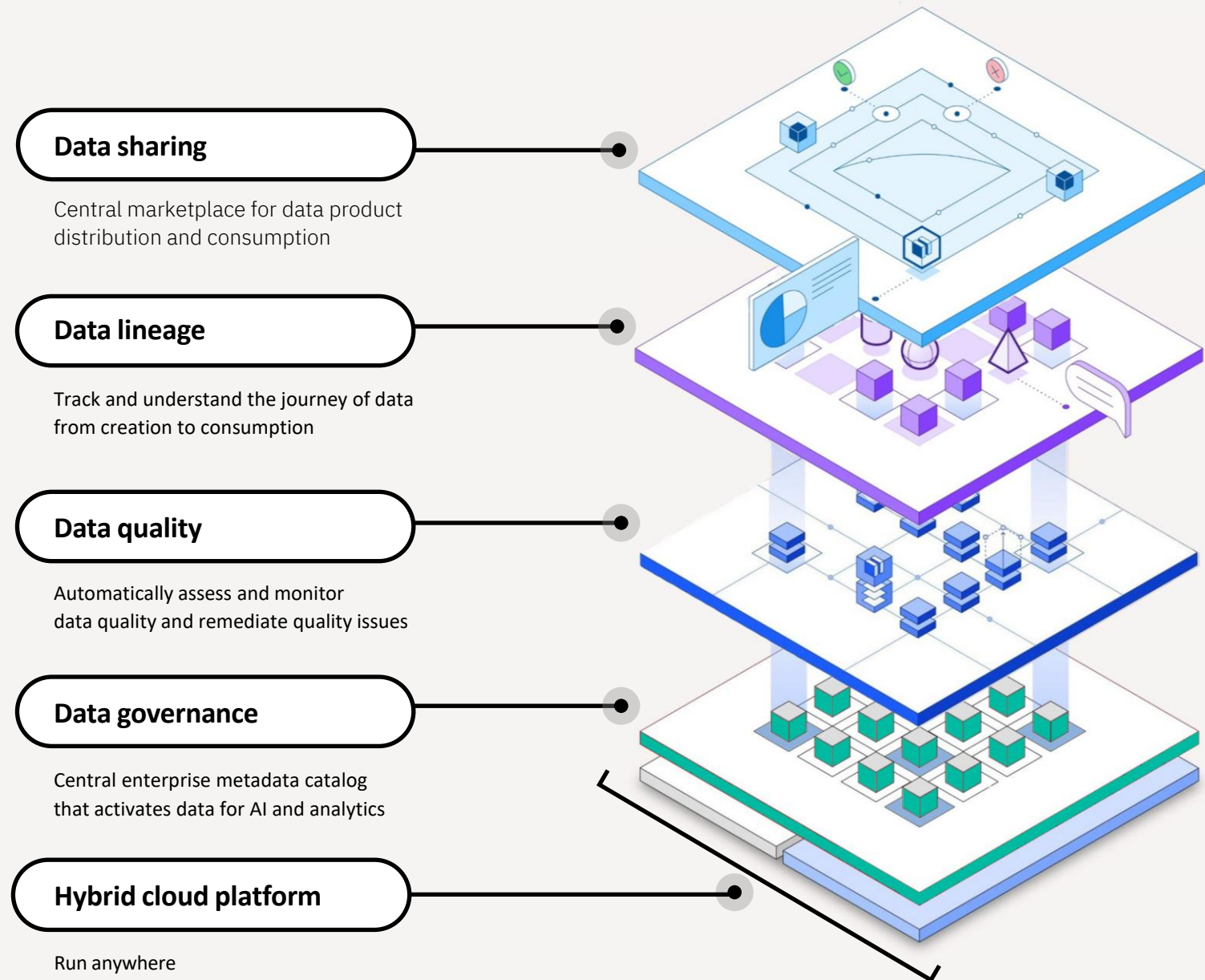
Transforming data into business value

IBM **Data Intelligence** enhances **productivity** for data professionals and streamlines the process of **discovering, curating, and sharing** trusted data assets across the organization, accelerating time to value



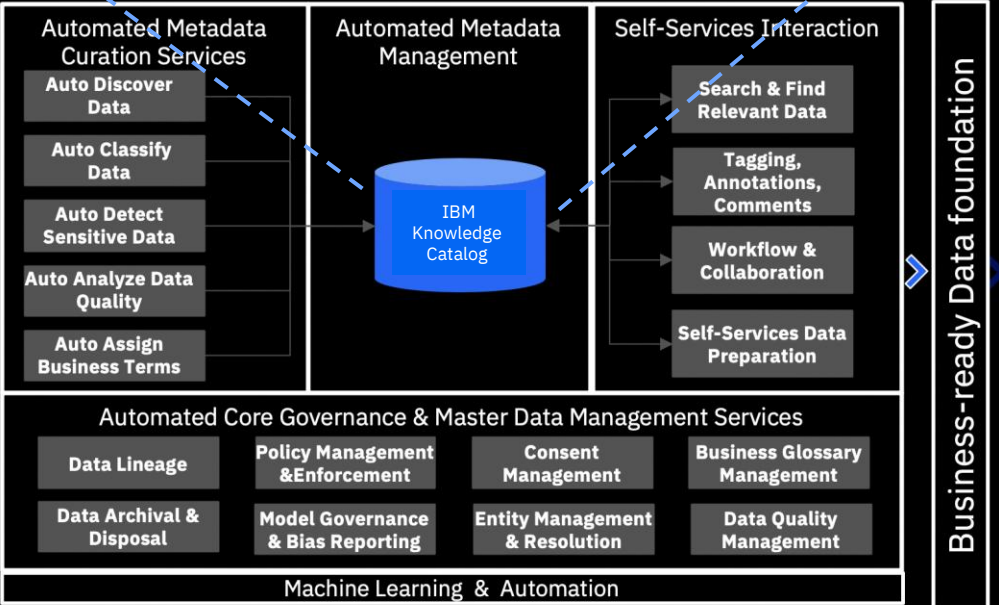
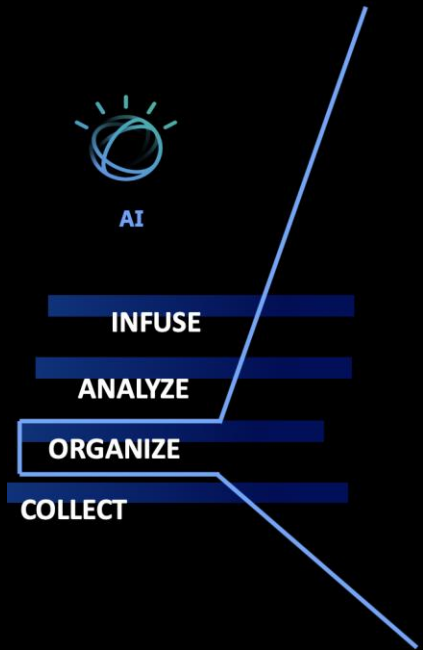
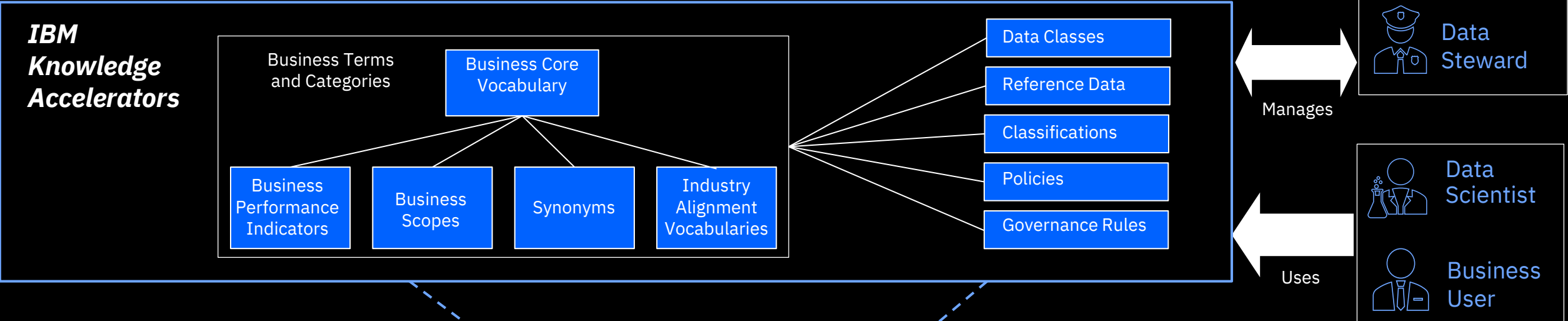
Introducing watsonx.data intelligence

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



* Unstructured data capabilities available only in IBM Cloud Toronto Data Center

Extensive business content designed for IBM Knowledge Catalog



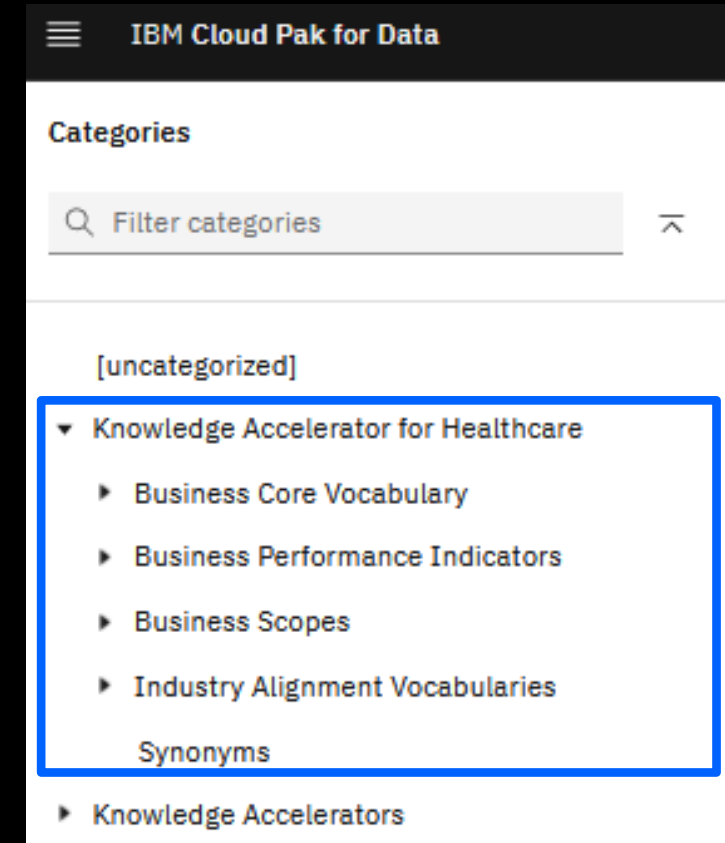
Approximate Vocabulary counts	
KAHC Vocabulary Area	Approx. Count
Business Core Vocabulary Terms	9,500
Business Performance Indicator Terms	4,330
Industry Alignment Vocabulary Terms	16,200
Synonym Terms	62
Reference Data Sets	1,169
Data Classes (excluding OOTB 165)	99
Business Scopes	163
Governance Rules	30
Governance Policies	57

Knowledge Accelerator for Healthcare

A *Category hierarchy* that groups *Business Terms* and *Reference Data* specific to the *Healthcare Industry*.

Contains 5 main areas:

- **Business Core Vocabulary** – central vocabulary of terms relevant to healthcare industry
- **Business Performance Indicators** – terms representing analytical reporting topics and KPIs
- **Business Scopes** – categories that reference terms from across the Vocabulary relevant to a specific business topic
- **Industry Alignment Vocabularies** – terminology of regulations and standards to aid navigation to the central Business Core Vocabulary.
- **Synonyms** – terms that describe how Business Core Vocabulary terms are otherwise named



Business value

Benefits of deploying watsonx.data intelligence

Accelerated data-driven outcomes

Automated and scalable data curation with metadata enrichment, data quality assurance, and industry-specific knowledge accelerators streamline data discovery, governance, quality, and understanding

Increased transparency and trust in data

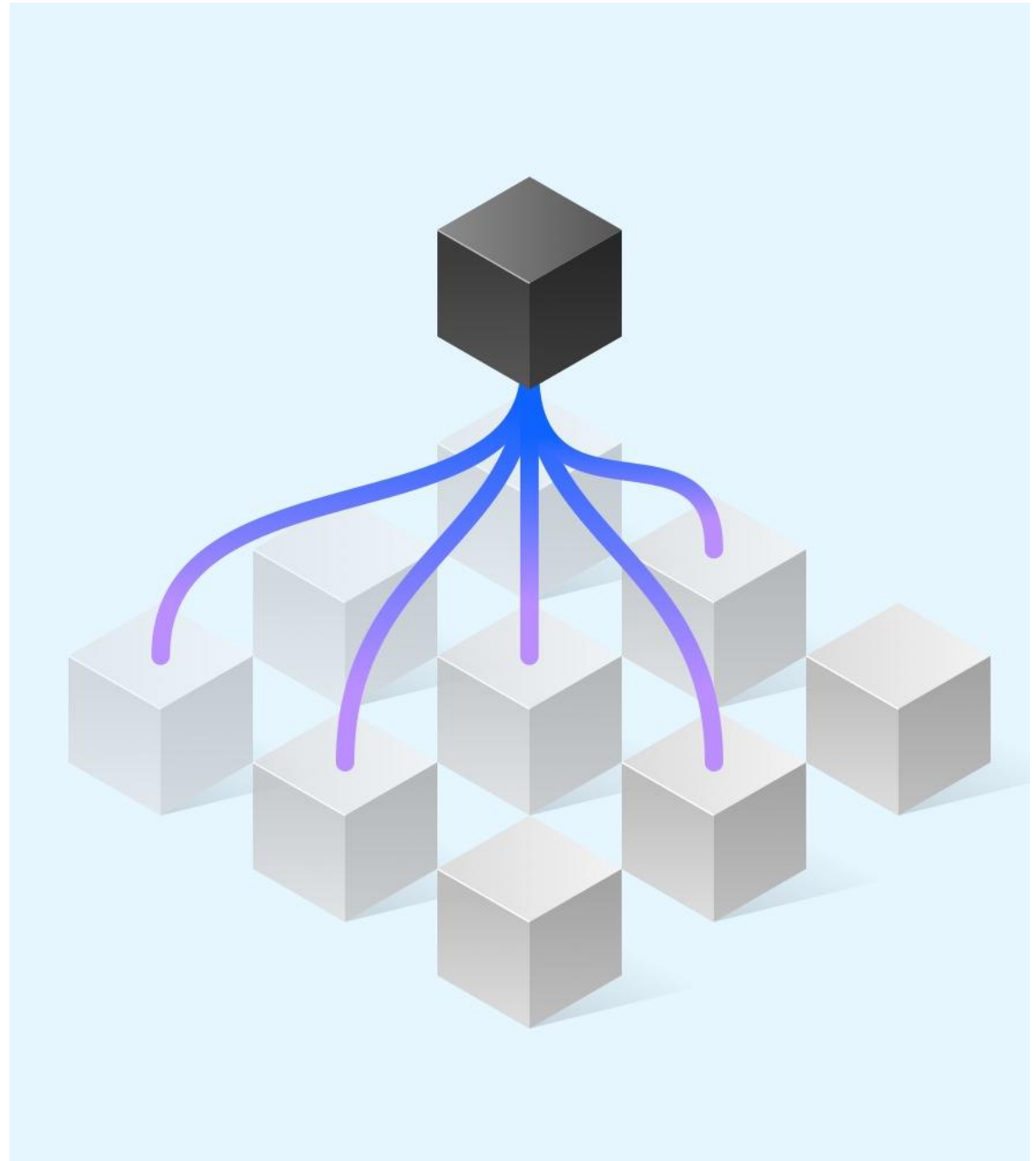
Advanced data lineage features that track and provide visibility into the movement, transformation, and usage of data & quality features that ensure data accuracy, completeness, reliability, and integrity

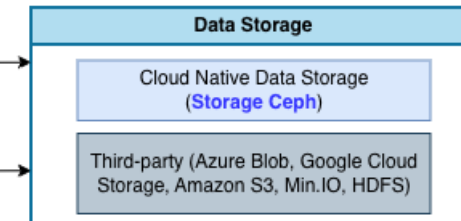
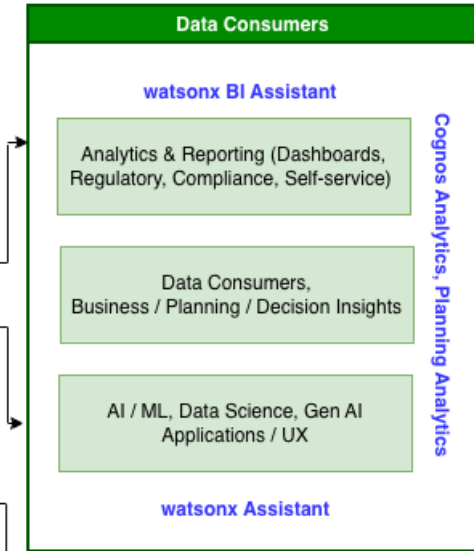
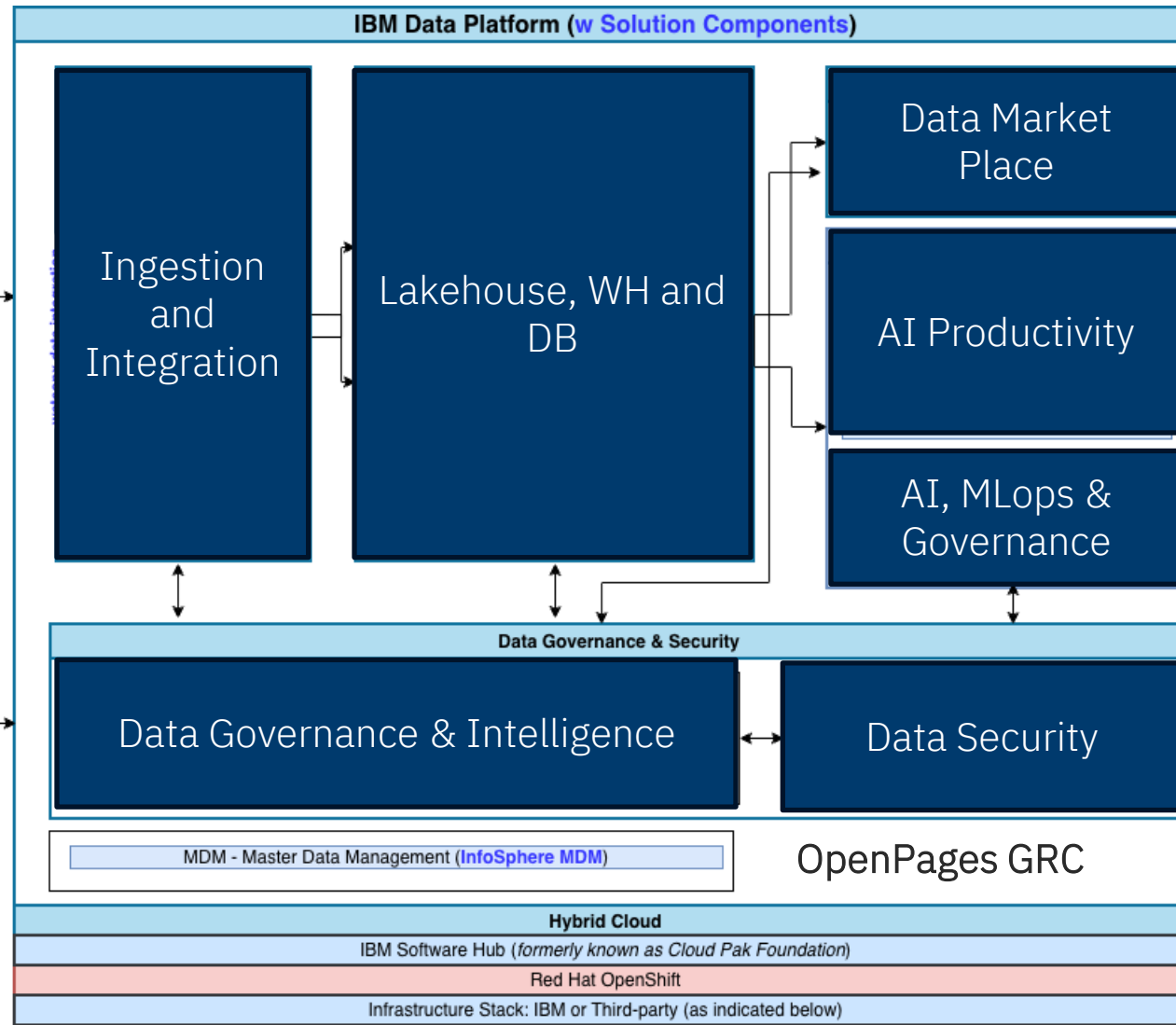
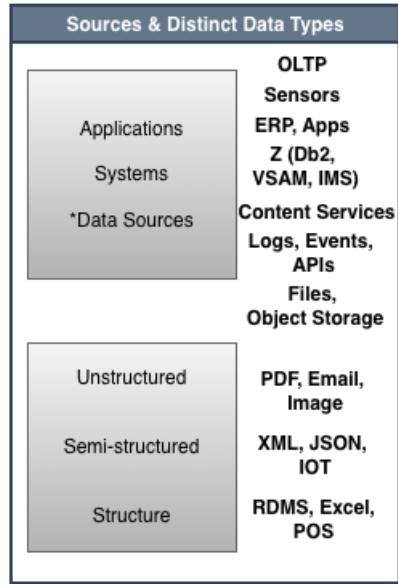
Stronger compliance and risk management

Automated data lineage features provide the information and evidence needed to track and report on data to effectively respond to regulatory compliance audits to ensure adherence to regulatory standards

Improved collaboration and data sharing

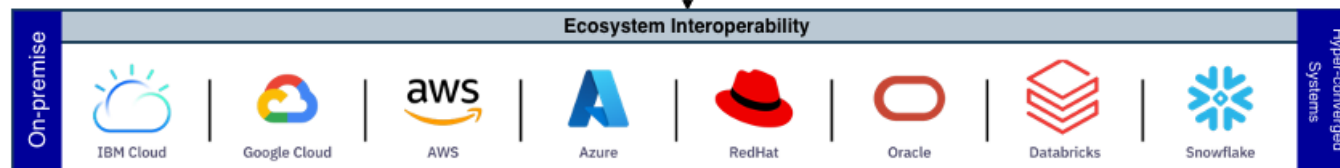
Intelligent search capabilities and a central data marketplace of data products enable sharing of curated assets to streamline the discovery and consumption of trustworthy data and AI products organization-wide





Notes:

1. Recommended to refer to Seismic or Solution Documentation for exhaustive list of solution options.
2. SaaS & on-premise solution availability varies from region to region, and in some cases are offering specific like Guardium.
3. External / Open-source solution components are depicted for integration possibilities as well.



Legend:
IBM Solution Components, OEM Solutions, Open-source



September Digital Series 2026

Feedback Form



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