Watsonx.Data on IBM Power : Modern Analytics for Enterprise Data

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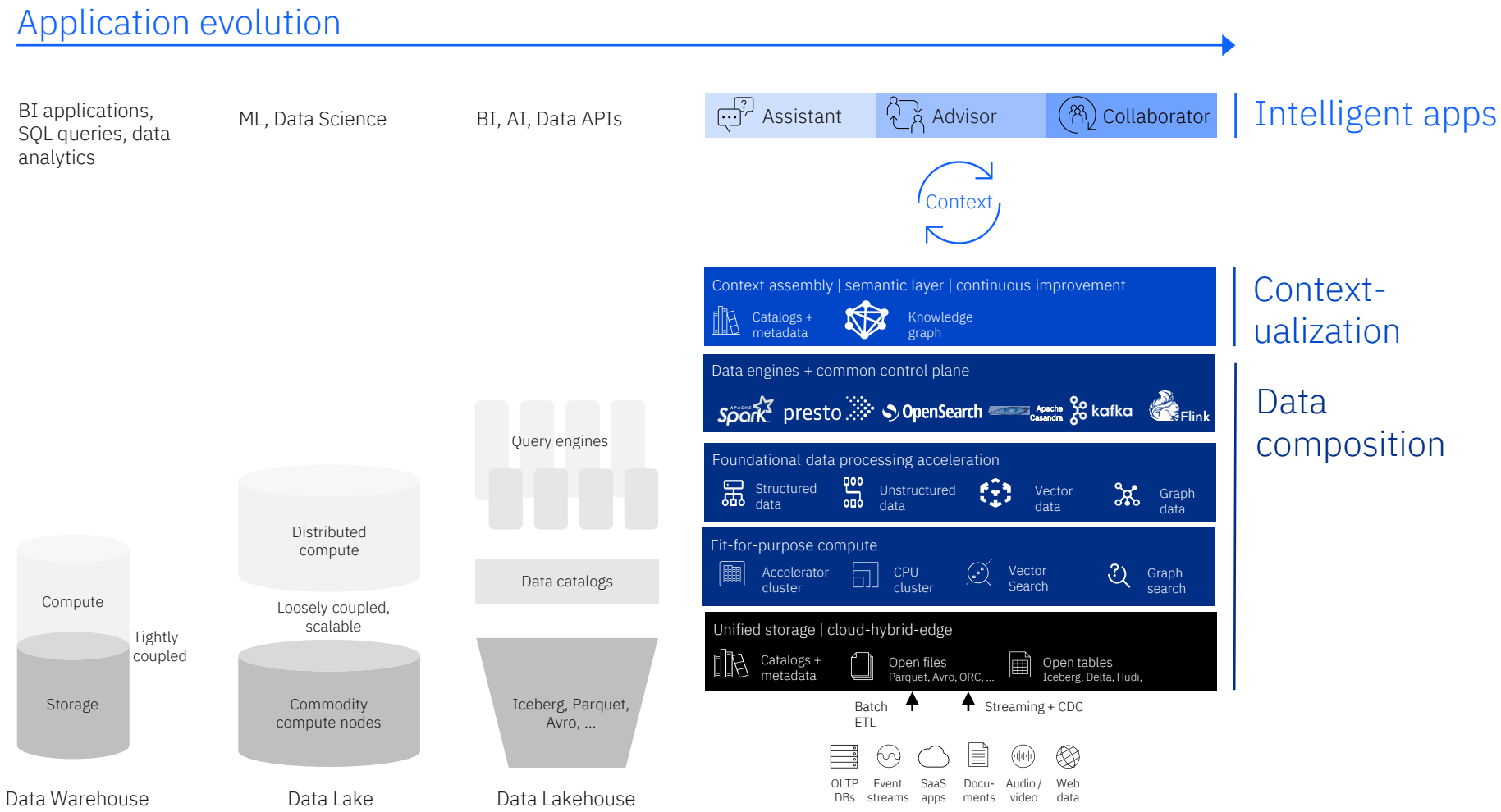
IBM

POWER11

Industry is evolving to intelligent applications with contextualized data...

...from AI-native data architectures.



3 Key Challenges for Enterprise Data and Analytics Systems

Challenge 1:
Data Access

You can't scale **AI** without *easily-accessed, relevant data*

Operational *and* Analytical systems

Structured *and* Unstructured data

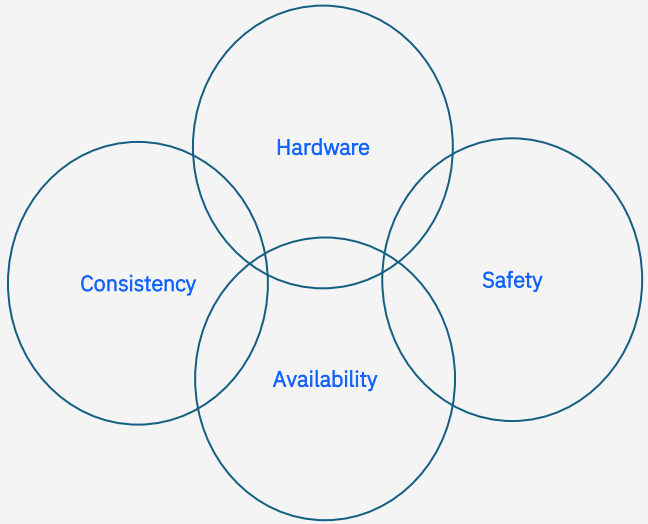
Cloud *and* On-Prem environments

Challenge 2:
Data Quality

...with **security** & **governance** across your data to prevent *data leaks and anomalies.*

Challenge 3:
Scalable insights

...with the **required performance** to *gain insights from all your relevant data.*



Scale your AI initiatives with confidence on IBM Power

IBM Power
high-performant, always available, secure infrastructure

+

IBM watsonx.data
open, converged, enterprise-ready data platform

Challenge 1:
Relevant Data

Co-locate your data
Keep both transactional and analytical data in the same infrastructure

Access data quickly
Built-in connectors for key data sources

Challenge 2:
Security & Governance

Protect your data
Ensure compliance, security and business continuity by keeping it on IBM Power

Control data holistically
Built -in data governance capabilities

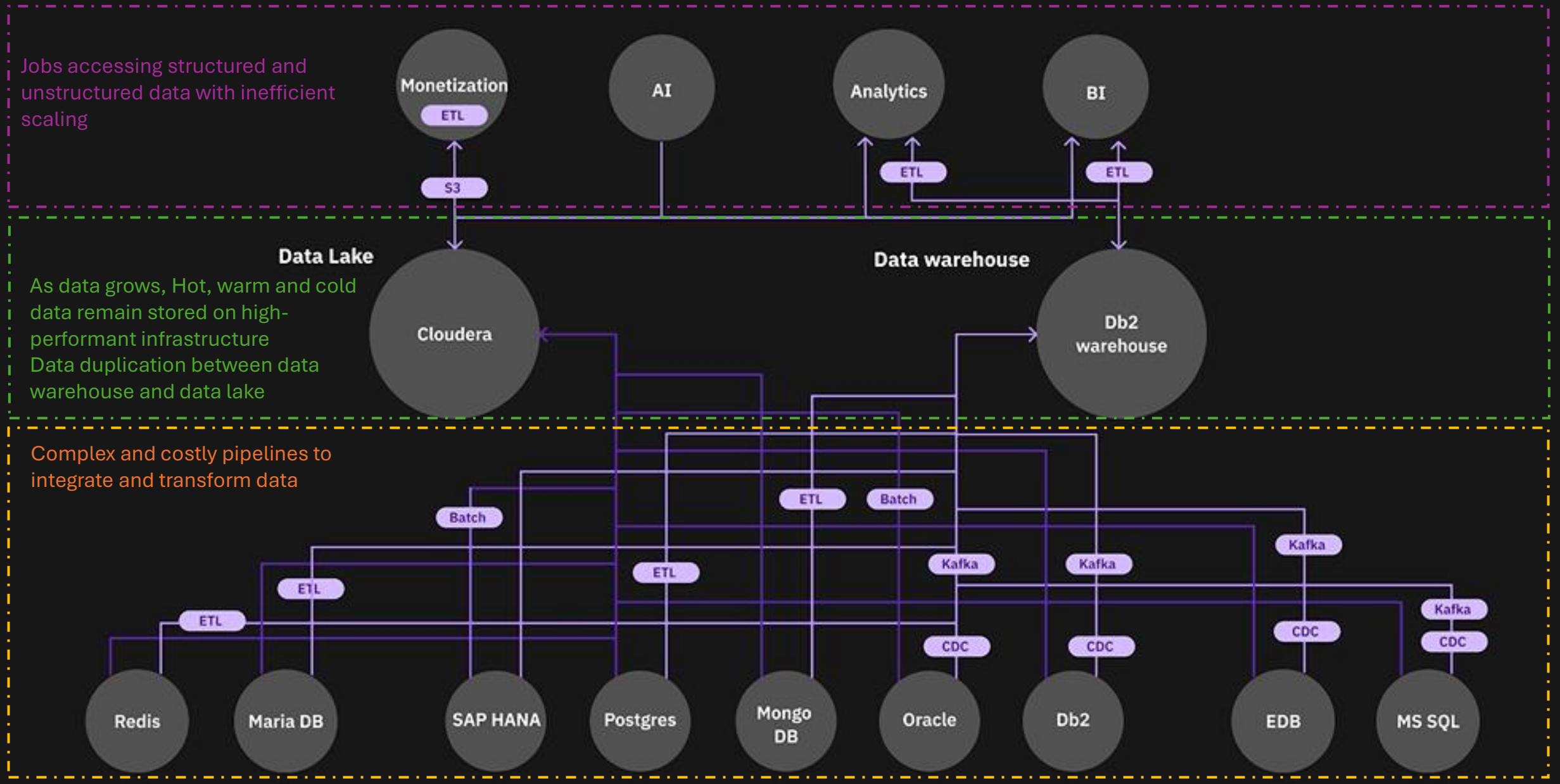
Challenge 3:
AI Reliability & Cost

Efficiently query your data
Efficiently process growing data volumes with 1.41x higher throughput per core*

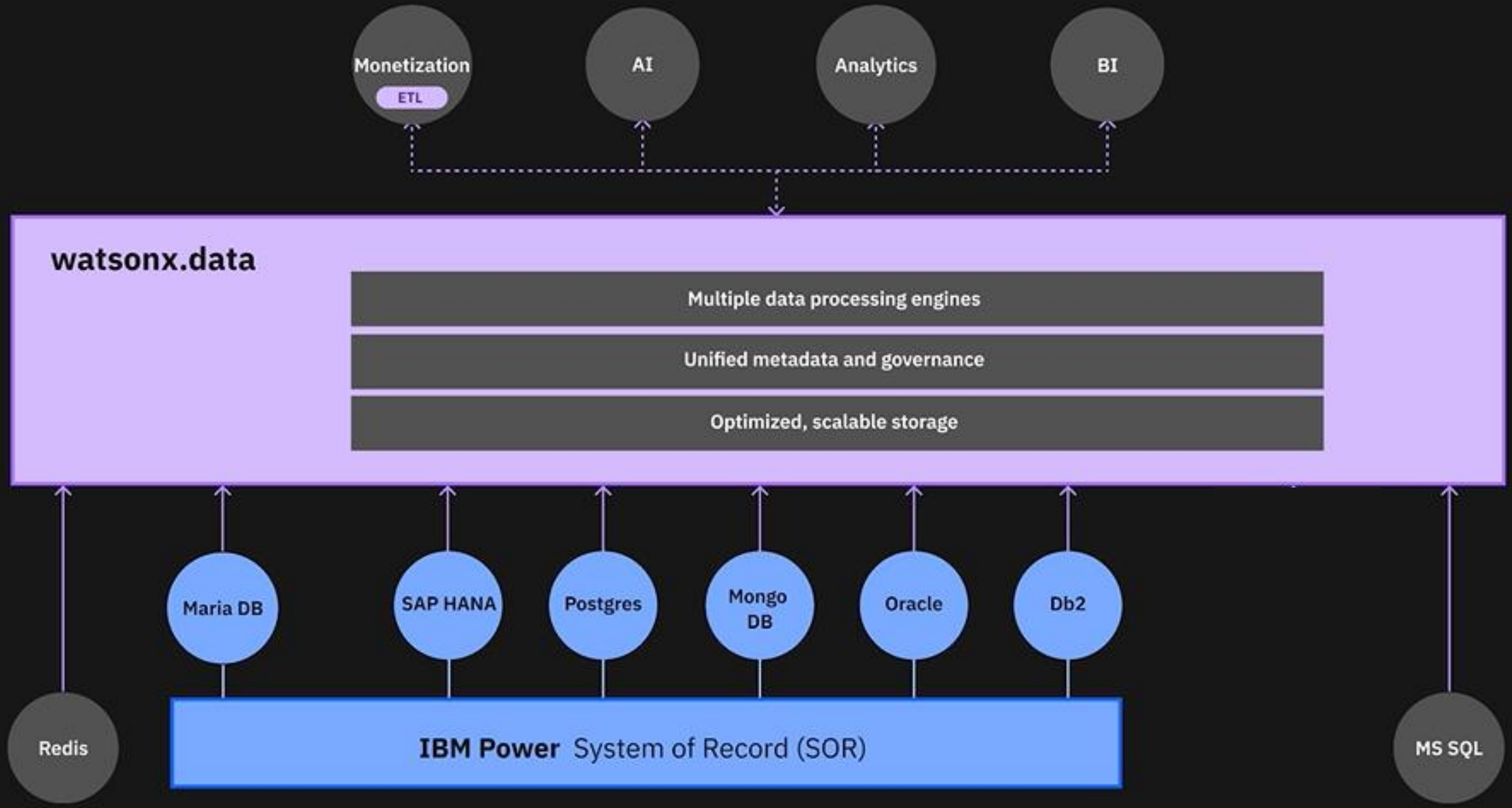
Optimize data querying
Packaged fit-for-purpose query engines to run queries at scale

Seamless support
with a single point of contact across the stack

** Based on IBM Internal Testing.*


Jobs accessing structured and unstructured data with inefficient scaling
Monetization
ETL
AI
Analytics
BI
S3
ETL
ETL
Data Lake
Data warehouse
As data grows, Hot, warm and cold data remain stored on high-performant infrastructure
Data duplication between data warehouse and data lake
Cloudera
Db2 warehouse
Complex and costly pipelines to integrate and transform data
Batch
ETL
Batch
ETL
ETL
ETL
Kafka
Kafka
Kafka
Kafka
CDC
CDC
CDC
CDC
Redis
Maria DB
SAP HANA
Postgres
Mongo DB
Oracle
Db2
EDB
MS SQL

Converged data platform on Enterprise-grade infrastructure



Watsonx.data on IBM Power Demonstration

developed by Ashwin Srinivas, AI on IBM Power Product Manager

Unlock the value of enterprise data with watsonx.data on IBM Power11

Data sources

- Oracle
- DB2 (Unix and iBM i)
- Other DBs (MongoDB, EDB)
- SAP

watsonx.data

Easily manage growing data volume and variety while optimizing costs of storing data

- Offload cold data to watsonx.data to optimize storage costs while maintaining access for compliance or data retention requirements

Simplify data connectivity and optimize query performance

- Easily connect and ingest data from multiple sources
- Deliver data to multiple data consumers from a single, centralized location

Build generative AI applications with your data

- Manage the entire unstructured (& structured) data for AI lifecycle through a single user experience

Data consumers

- Reporting
- Business Intelligence
- Data Analysis
- Traditional & GenerativeAI

IBM **Power11**

✓ Seamless AI Scalability ✓ Unmatched Reliability
✓ Enterprise-grade Performance ✓ platform's built-in resilience and security

watsonx.data on IBM Power Showcase

For clients who need end-to-end capabilities (Demo till PoX)#

Demonstration of watsonx.data on POWER

Functional demonstration of watsonx.data on IBM Power

Co-Creation workshop with Client Engineering

(see details on next slide)

Work with us to build a solution for your use case in watsonx.data on IBM Power

Hands on lab

Use watsonx.data on IBM Power on our demonstration system for first hand experience with the product

Key Contacts for more information

EMEA

1. Andrew Braid (andrew.braid@fr.ibm.com)
2. Jerome Calves (Jerome_Calves@fr.ibm.com)

Building Blocks

Systems of records

Oracle

Customer profile information

Db2 for i

Transactional data

Product information
(File system)

Data Lakehouse

watsonx.data

watsonx.data

Inference Platform

Spyre

MMA

Agentic Platform

watsonx Orchestrate

IBM Bob*

IBM i | AIX | RHEL on Power

Red Hat OpenShift

Red Hat OpenShift AI

RHEL LPAR

IBM Power / Power Virtual Server

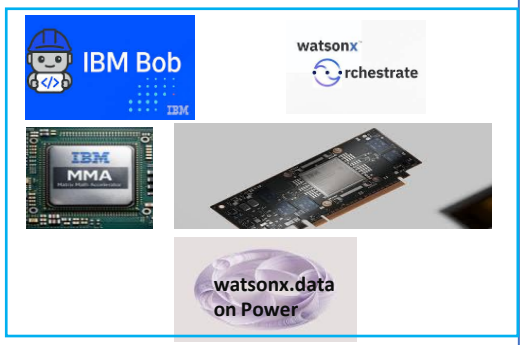
IBM Power on-prem

IBM Cloud Saas

*IBM Bob runs in IBM Cloud – to accelerate development of agentic and AI code.

Deployment Workflow

AI Stack



Watsonx.data on Power

Stores customer information and transactional histories

BOB

ML building and agent code generation

Watsonx.Orchestrate

Digital Assistant

Assess my savings capacity and recommend suitable savings instruments

Agent predicts the potential Savings **(MMA)**

Agent recommends savings instrument **(MMA)**

Your financial data shows a projected annual savings potential of **$6,000,** for which the **High-Growth Investment (HGI) plan is recommended**

What be the return on Investment on the proposed investment plan

Agent invokes RAG to answer customer queries **(Spyre with AI services)**

The HGI plan offers an estimated return in the range of **15–20%, contingent on market performance**

Questions ?

Thank You !