



Hewlett Packard
Enterprise

HPE Data Fabric Software

Nov 2025

AI's Global Economic Impact

Powering trillions in value creation

Investments in AI solutions and services to create a global cumulative impact of

\$22.3 trillion
by 2030, approximately

IDC, Global AI Economic Impact, Apr 2025



3.7%
of the global GDP

From vision to value

Barriers to achieving scalable AI



Scale

Growing computational demand

Exploding data volumes



Complexity

Gaps in specialized expertise

Slower ROI



Cost

Inference at massive scale

Spiraling cloud costs



Data

Data sovereignty and privacy

Ensuring regulatory compliance



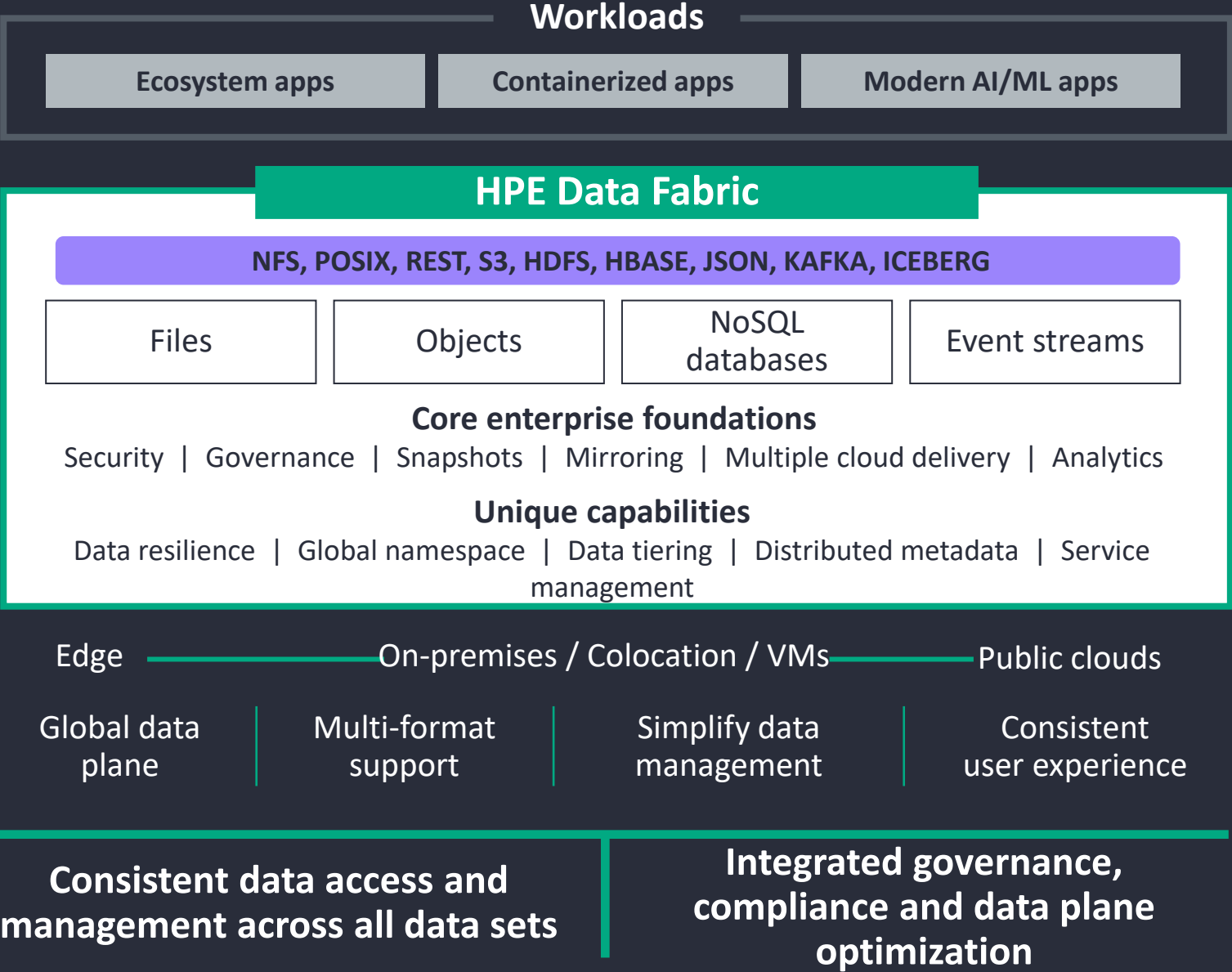
Security

Risks of exfiltration or IP leakage

Ensuring AI governance

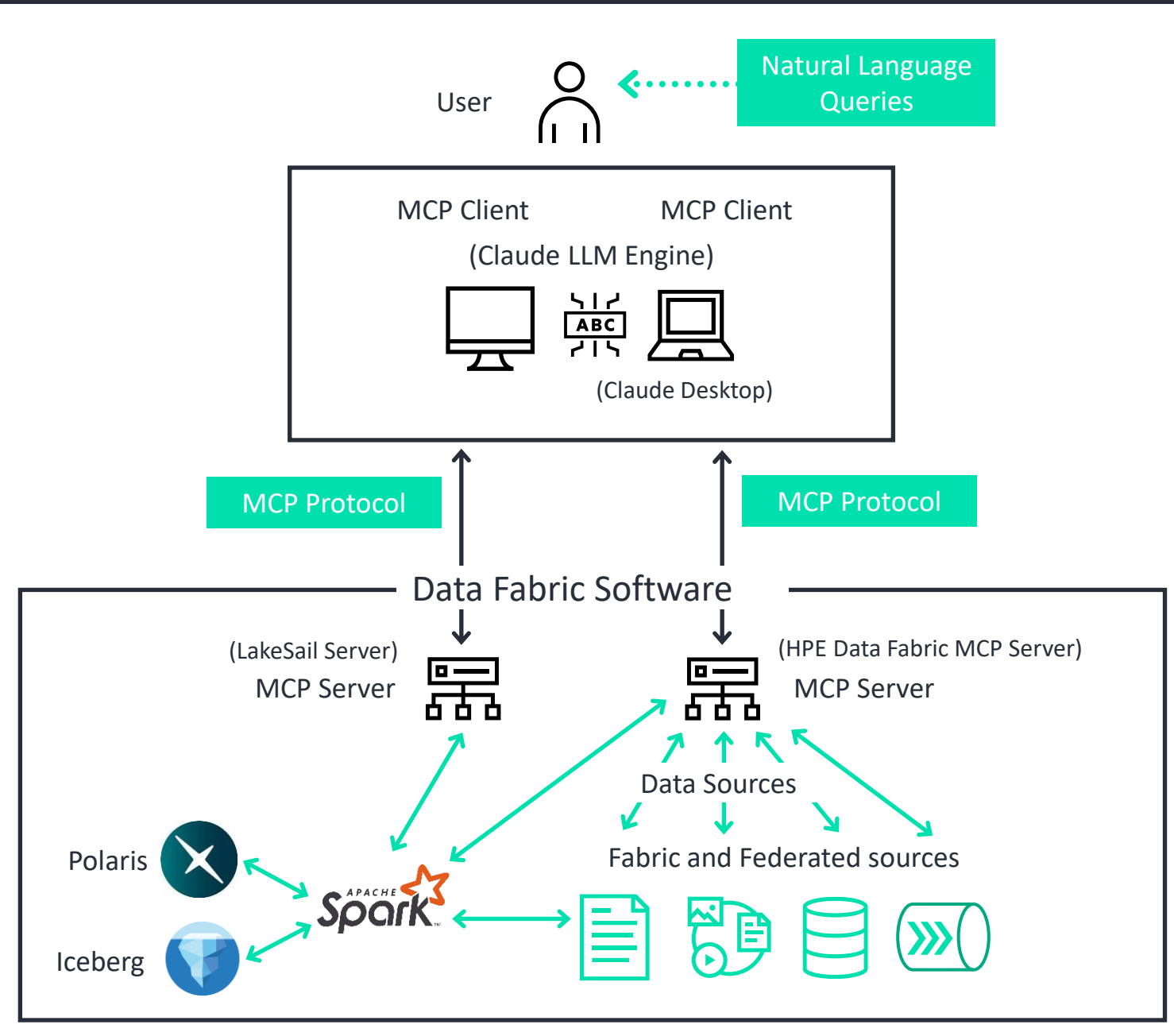
HPE Data Fabric Software

An intelligent data plane with radically simplified management, control and governance for analytic and AI applications across all enterprise storage assets

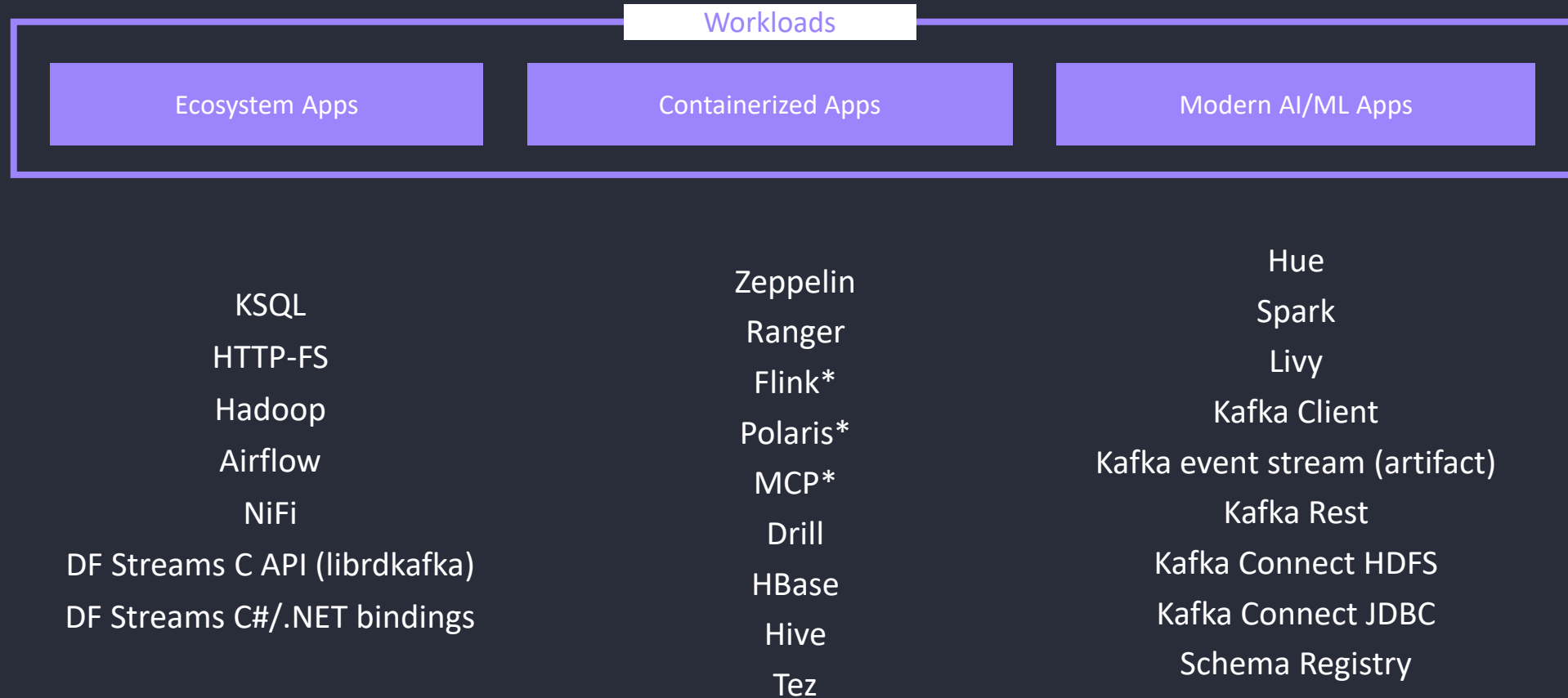


AI “in” the Data Fabric

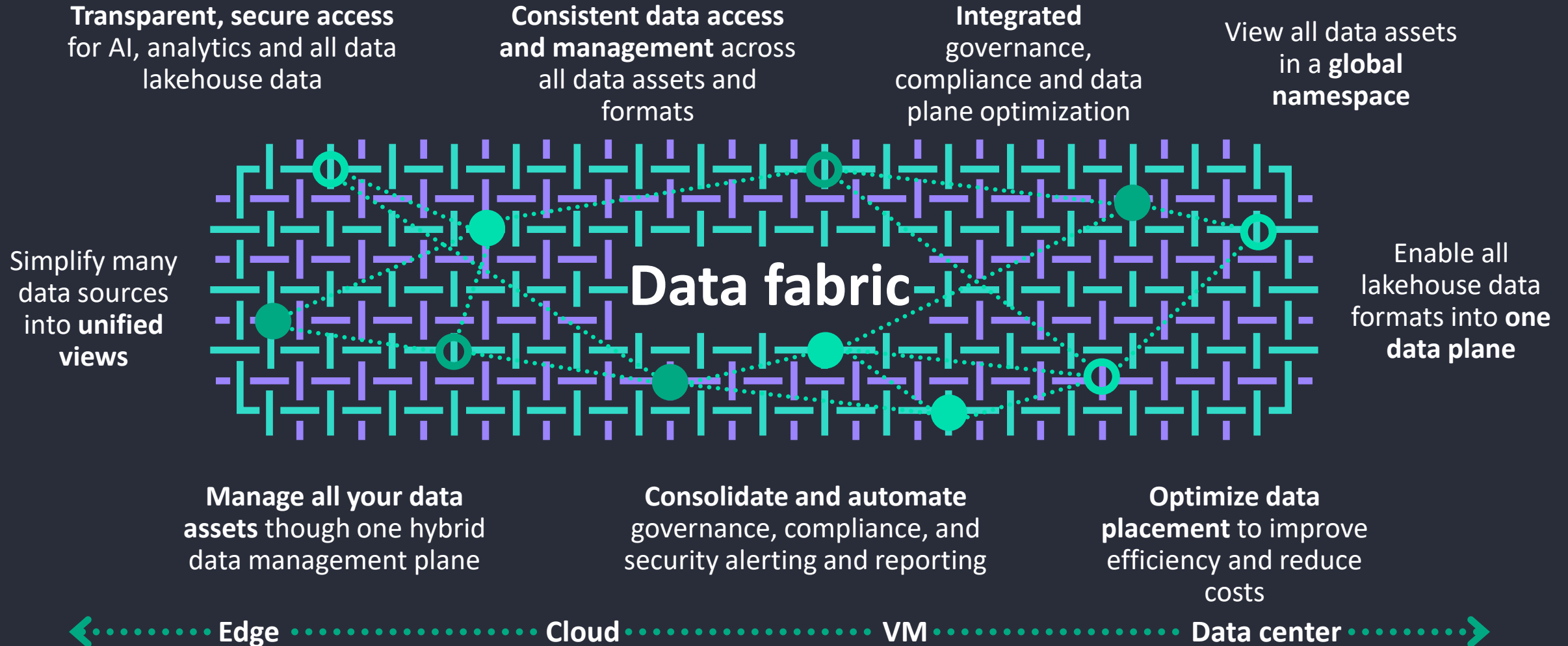
- AI driven governance and compliance
- Utilizes existing audit-data collection capabilities
- Separate data from schema from “investigation patterns”
- Rapidly decrease time to insight
- Build easy visualizations to monitor data patterns

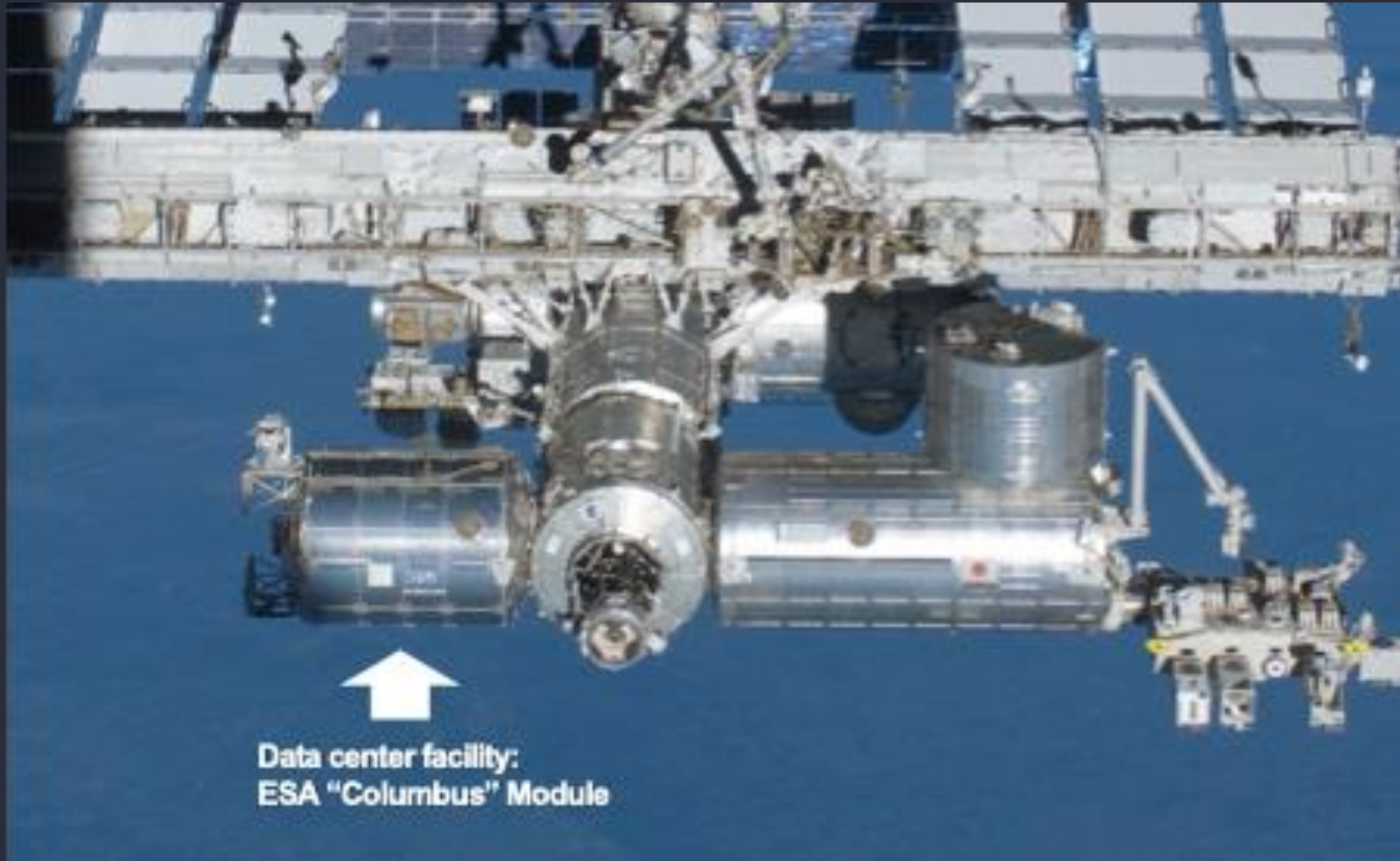


Extensive Open-Source Ecosystem Components



Delivering unified approach to hybrid data lakehouse architectures





Data Fabric Goes to Moon!

In past 4 years, Data Fabric facilitated **50+** experiments strongly focus on **artificial intelligence (AI)** and **machine learning (ML)** projects.

In 2024, Data Fabric on board International Space Station (ISS) running **NFS file share, S3 object store, and NoSQL workloads** on the Spaceborne Computer

In 2026, Data Fabric will on board Flex Rover, making it the first deployment on the Moon, expected in 2026.



Data Fabric customer snapshot and use cases



International Space Station

- Terrestrial, ISS moon rover
- Ultimate disconnected use case



Longest running fabric (12+ years)

- 240 applications, files, objects tables



AI / autonomous driving system development

- 250PB of disk and NVME in a single DF fabric



400 million registered mobile wallets, file store, processing 2.8 billion transactions monthly



Every Walmart transaction

- 152PB
- 200+ algorithmic applications
- 2.5k active daily users



Real-time fraud and compliance

- DF stretched across 4 separate data centers
- 2 billion files



Fraud

- 32PB data lake
- Files + PB in DF tables
- 270,000 jobs per day
- 10,000+ users



Credit risk

- Hybrid / cloud bursting for files and data management capabilities of DF



Largest biometric DB in world

- 49PB file and table
- 4.73 million concurrent queries per min



Fraud, cyber analytics, insider threat, files, objects, streams, tables

- 800 nodes
- 16PB of data

Sovereign AI factory

Accelerate national AI strategies on your terms

Turnkey AI factory

AI factory at scale

Sovereign AI factory

Infrastructure autonomy
and security

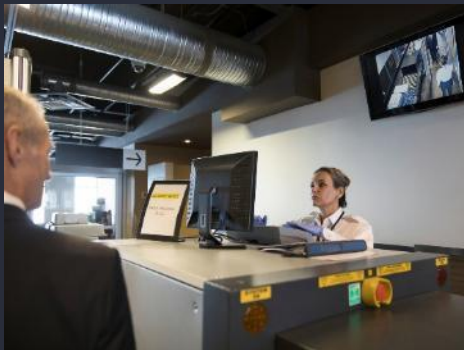
Data sovereignty
and control

AI governance at
sovereign scale

Sample use cases



Citizen services with
local language LLMs



Public safety



Smart cities



Urban planning

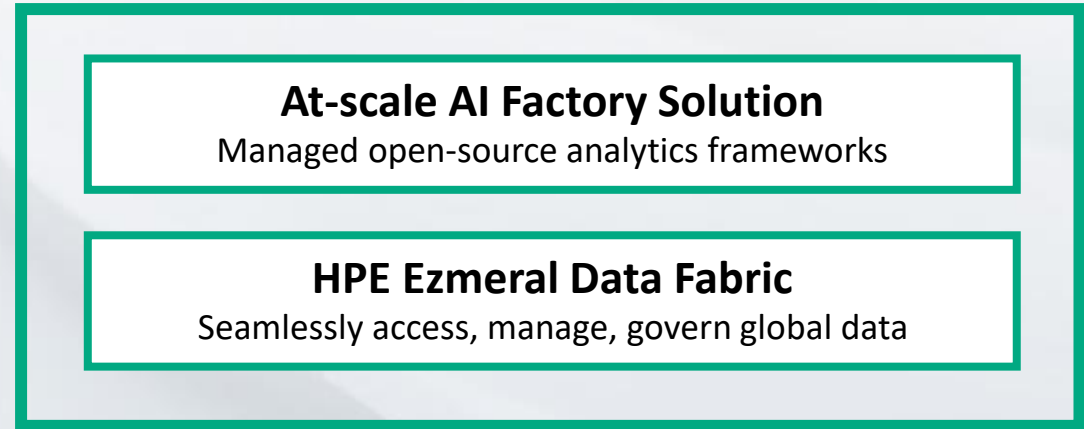
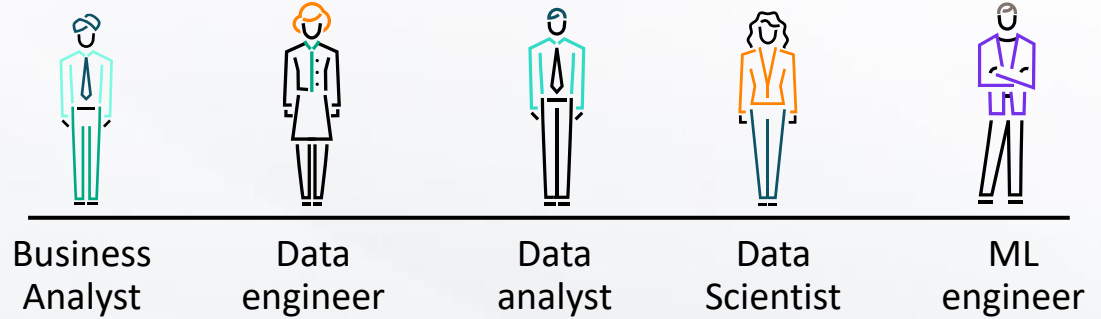


Personalized
medicine

HPE AI Solutions

A fully curated open-source analytics environment for hybrid cloud

Develop
Deploy
Analyze



AI Services — AI Data Storage — AI Infrastructure

Accelerate AI at massive scale

Simplify data management

Cloud-like flexibility

Thank you

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