



**Hewlett Packard
Enterprise**

HPE Data Fabric Software

Data challenges

Diverse, complex data challenges quality assurance

67% of data scientists' time is spent on **data preparation** tasks

48% of data scientists struggle with **access rights** to diverse data sources

Diverse data types distributed across multiple sources

Increased complexity

- Difficulty in analyzing large volumes of data from distributed sources
- Data mapping and reconciliation
- Monitoring and maintenance
- Multiple data types / formats
- Lots of diverse workloads often requiring the same data



Higher costs

- Licensing for diverse tools
- Infrastructure
- Personnel
- Unpredictable cost – egress/networking



Reduced flexibility

- Data quality
- Security risks
- Reduced agility



Source: [New AI survey: poor data quality leads to \\$406M in losses](#), Vanson Bourne and Fivetran, 2024

Top concerns we hear from global leaders regarding their future data, AI & analytics roadmaps

Managing distributed data
is complex

Productivity
is stifled by siloed development

Costs
can be high and unpredictable



To achieve the full potential for AI and analytics **across** hybrid multi-cloud environments, **today's workloads demand modern software that is...**

Hybrid by design

Make the technology invisible to abstract the developer from the complexities of deployment by solving the 'across' challenges of hybrid cloud

Open

Teams have the freedom to use the tools, tech, and data format best suited for the task

Committed to open-source providing evergreen tooling without vendor lock-in

Extensible

Flexibility to adapt as technology and needs evolve

Easily add new types of data, sources and bring in tools, including open-source, ISVs, and custom apps

Consistent experience

Delivers a simple, fully managed, end to end hybrid cloud solution with a consistent experience and predictable consumption-based costs



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Federated data layer

The backbone of AI initiatives

Need a new approach that federates data across all formats and locations

Data accessibility and consistency

Scalability and flexibility

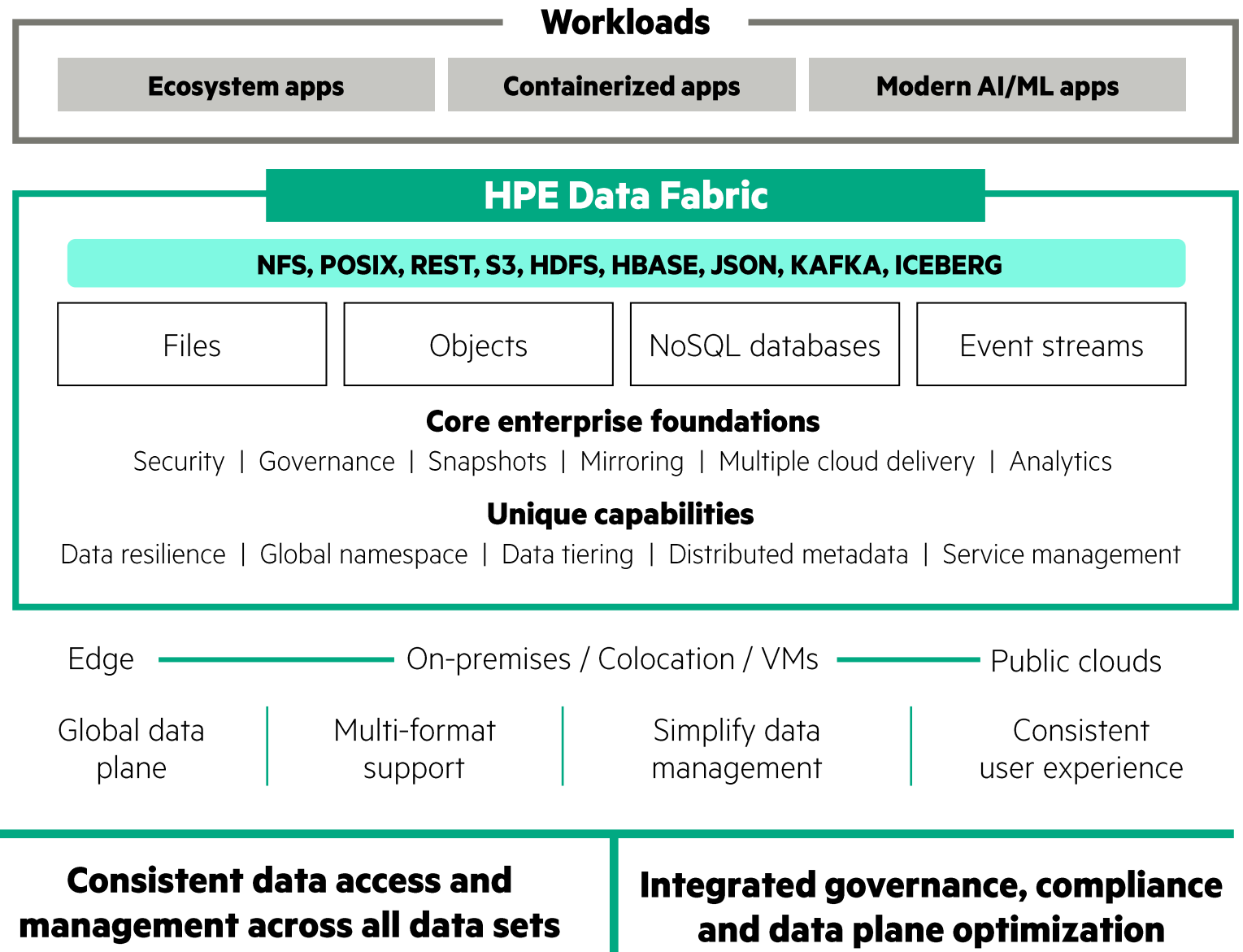
Enhanced data security and privacy

Improved AI model development & deployment



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



HPE Data Fabric Software — Vision

HPE Data fabric Software helps users access, manage, organize and govern enterprise data, across a variety of formats, in a **single**, consistent, easy to use, edge to cloud **data plane** optimized for analytics workloads



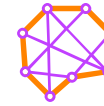
Access and manage data universally across data sources, and locations



Simplifies management, access-control and governance of data across on-prem, public cloud, and hybrid deployments



First to autonomously optimize cost, performance, compliance, etc and radically simplify admin experience for complex storage deployments



Single enterprise-grade, battle tested platform that supports most AI and analytical data formats



Best-in-class security features including geofencing, encryption at rest, extensible security policies

Delivering a unified approach to hybrid data lakehouse architectures

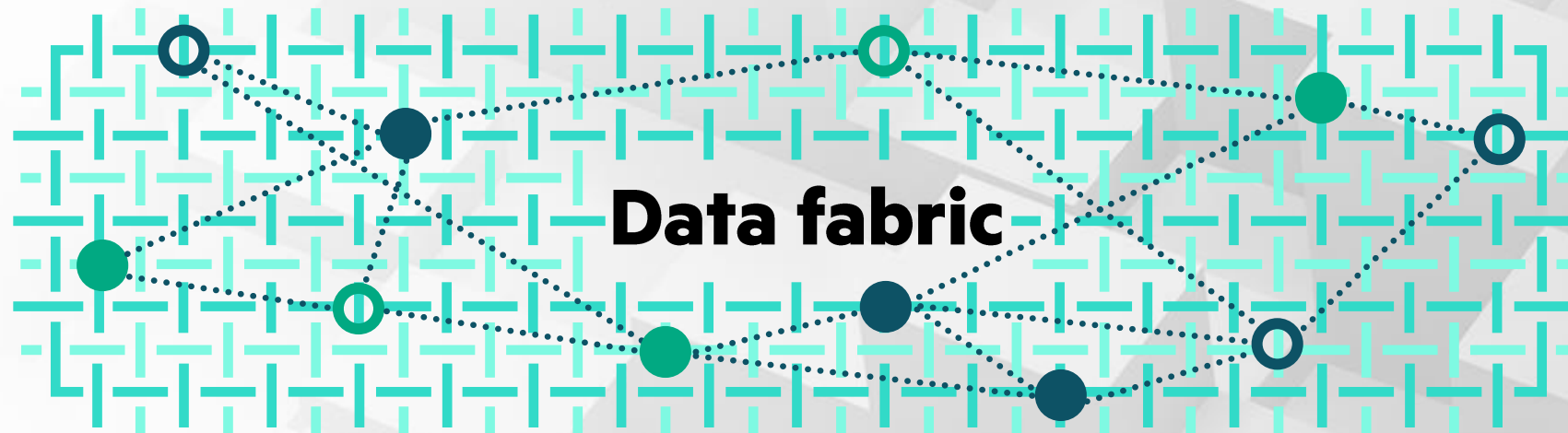
Transparent, secure access
for AI, analytics and all data
lakehouse data

**Consistent data access
and management** across
all data assets and formats

Integrated governance,
compliance and data
plane optimization

View all data assets in
a **global namespace**

Simplify many
data sources into
unified views



Enable all lakehouse
data formats into
one data plane

Manage all your data assets
through one hybrid data
management plane

Consolidate and automate
governance, compliance, and
security alerting and reporting

Optimize data placement
to improve efficiency and
reduce costs

← **Edge** **Cloud** **VM** **Data center** →



HPE Data Fabric Software

Key differentiators



Unified view and management

Provides unified view of data across multiple storage systems, simplifying data management—reducing complexity, latency and cost

Multi-format support

Out-of-box support for the most popular analytics data formats (files, objects, tables, & streams) provides maximum flexibility of use

Global namespace

Enables seamless data federation allowing users to query and access data across different storage locations without data movement

Hybrid and multi-cloud deployment

Works across on-premises, cloud and edge environments offering vendor agnostic flexibility

Optimized for AI and analytics

Designed to accelerate ML workflows with Apache Iceberg support, improving query performance and scalability

Governance and compliance

Integrated governance, and policy driven encryption, access control and regulatory compliance to meet industry standards (SOC2, HIPPA, GDPR)

What sets HPE Data Fabric Software apart?

| | HPE Data Fabric | Competition |
|---|--|---|
| Data federation | Unified Global Namespace across storage platforms | Requires data ingestion into platform-native format |
| Hybrid and multi-cloud deployment | Deploy across on-premises, cloud, or at the edge like a true data mesh | Primarily cloud-dependent |
| Multi format support for modern AI and analytics workloads | Apache Iceberg support, real time query acceleration | Limited support for multi-format AI workloads |
| Security and compliance | End to end encryption, RBAC and audit trails | Requires third-party integrations for compliance |
| Storage optimization | Tiered storage and intelligent data placement for cost efficiency | Standard data storage models |

Global namespace

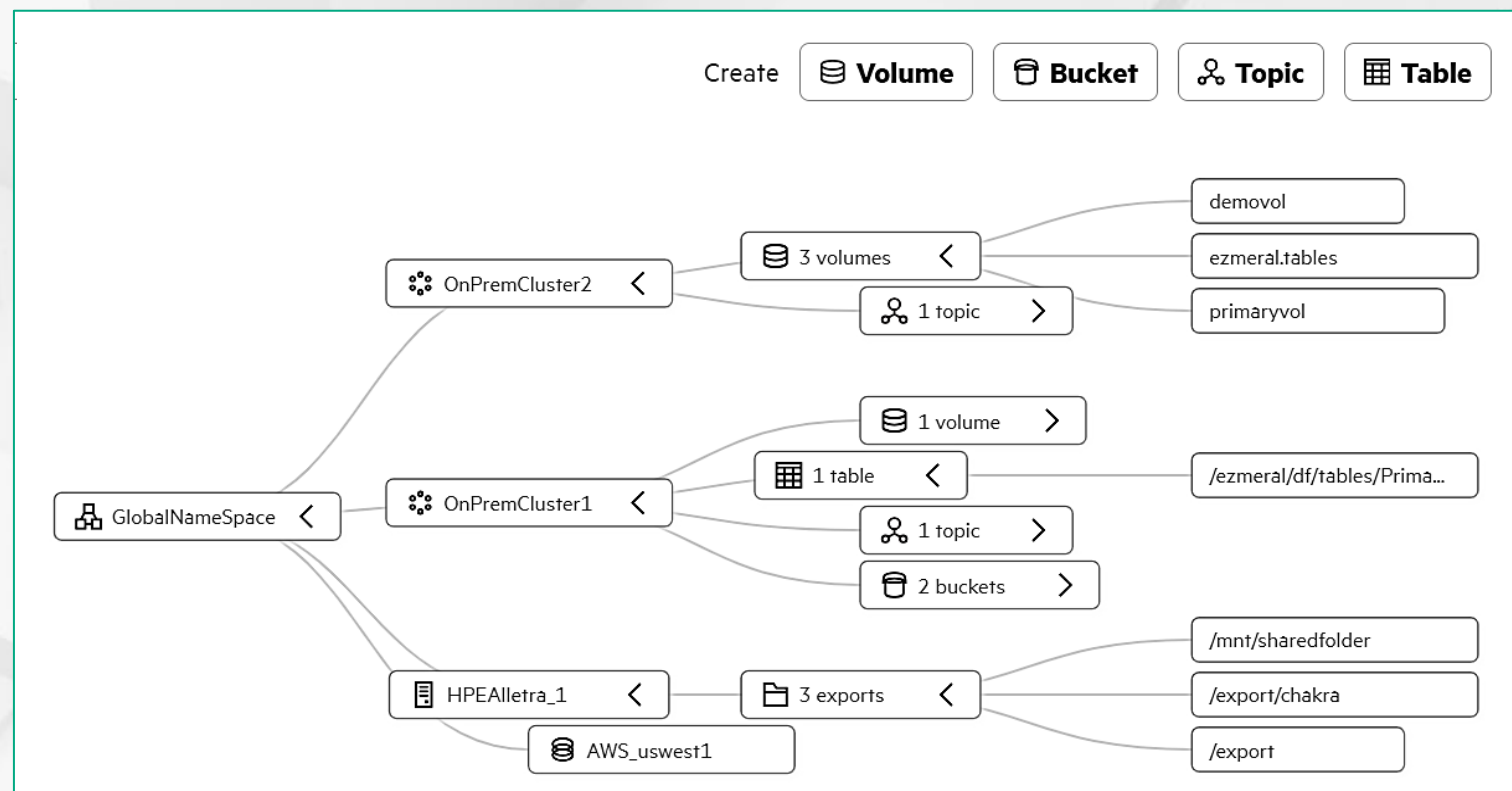


- **Unified naming system** that organizes data under a consistent naming scheme
- **Abstracts** data's physical location
- Provides **multiple entry points**, but structure remains the same for all users
- **Easily scale** as data volumes/users grow and add new data sources

Instant access to your entire data ecosystem

Global namespace

- Reduces time consuming data transfers between systems
- Enables real-time analysis and decision-making
- Maintains data integrity and consistency
- Reduces costs, improves governance
- Protect investments in existing big data estates



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Customer benefits



Transparent data access to AI, analytics and data lakes

- Unified data view across multiple storage systems
- Real-time insights and decision making



Consistent data management solution across all data sets

- Unified data management
- Integrated with wide set of tools and systems
- Software defined platform



Secure governance, compliance and data plane optimization

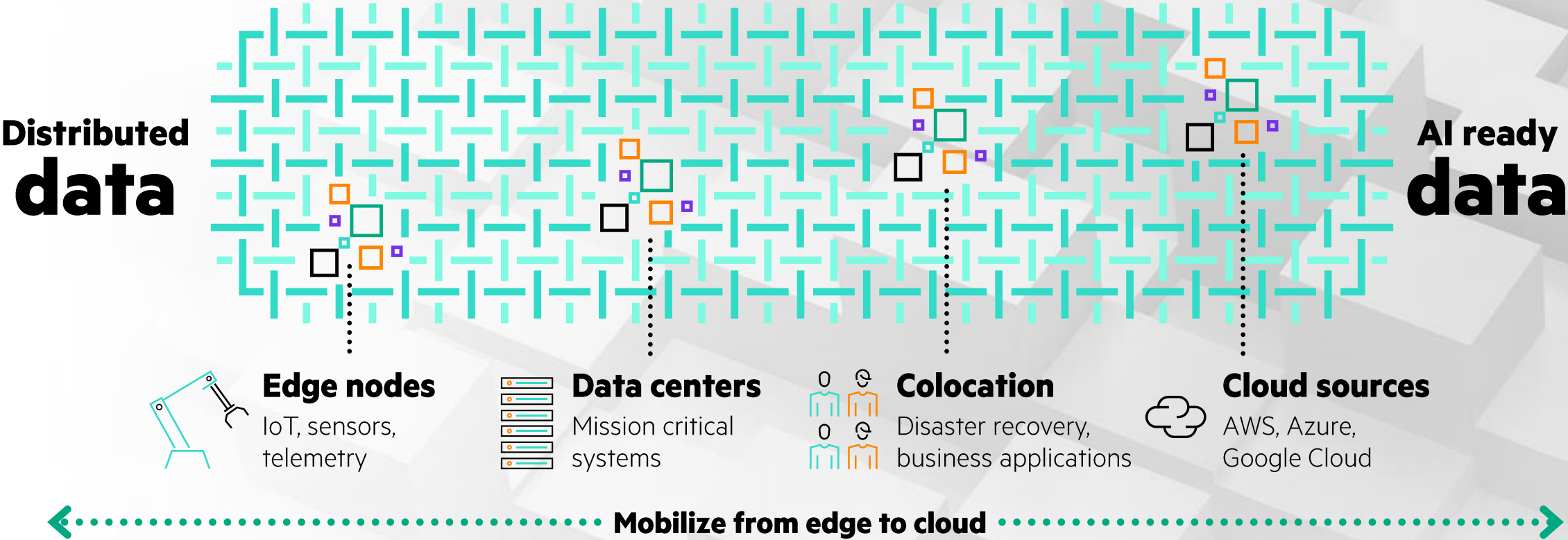
- Single point for collecting, analyzing and enforcing compliance and governance
- Consolidated data in a single platform
- Robust security and compliance



Unifying distributed data to accelerate AI insight

Universal access | Global namespace | Automated data tiering | Multi-protocol

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Leading the way to AI data management

Summary

Unified data management

Unified view of data across multiple sources simplifying management and reducing latency and costs

Multi-format

Supports multiple protocols in a single deployment for AI and analytics use cases

Software-defined

100% software-defined platform integrating with existing storage infrastructure

Data lakehouse for AI/analytics

Real-time insights for better decision making and integrates with data engineering and analytic tooling

Robust security and compliance

Meet stringent compliance and security requirements with built-in access control and encryption

Seamless hybrid integration

Users can grow their data lakehouse without compromising on performance and scalability





Thank you



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