

Setting data free securely : AI's challenge

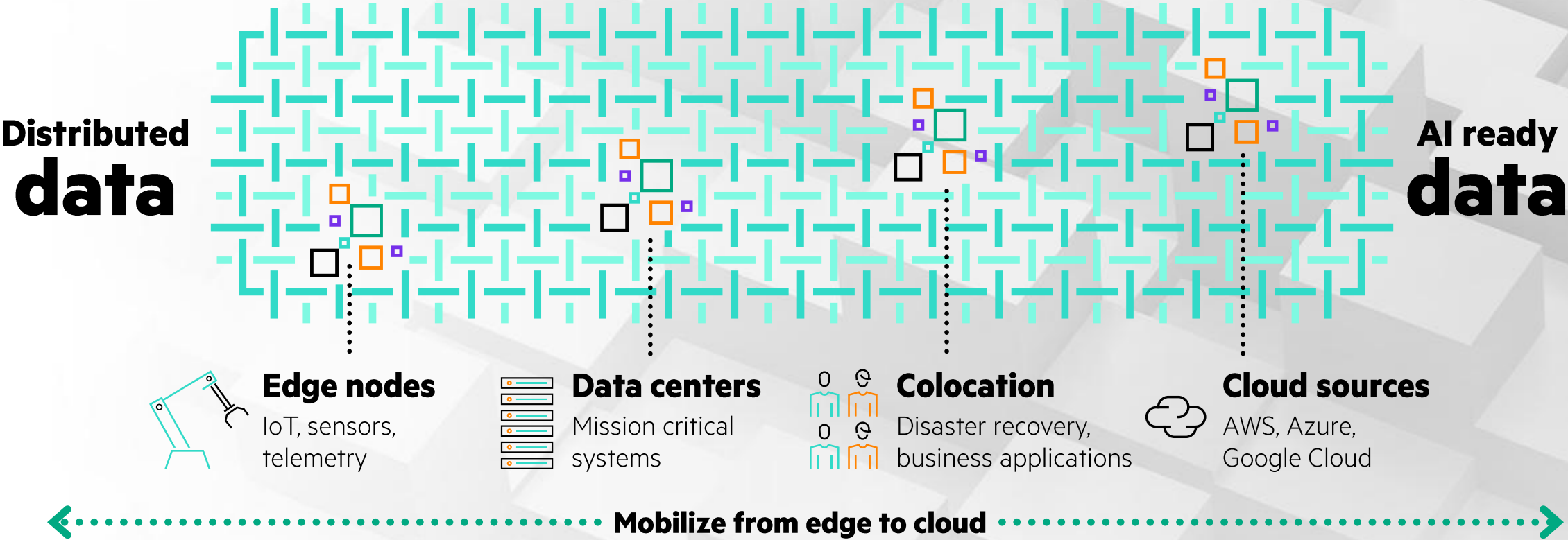
Team HPE

09.09.2026

Unifying distributed data to accelerate AI insight

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

HPE Data Fabric Software



The Bridge to Multicloud for Big Data Analytics at a Tier 1 Global Bank

- Significantly improved infrastructure utilization with separation of compute and storage
- Self-service provisioning that accelerated the entire data analytics lifecycle
- Eliminating copies of data and common security model that ensured GDPR compliance
- Bridge from data center to AWS

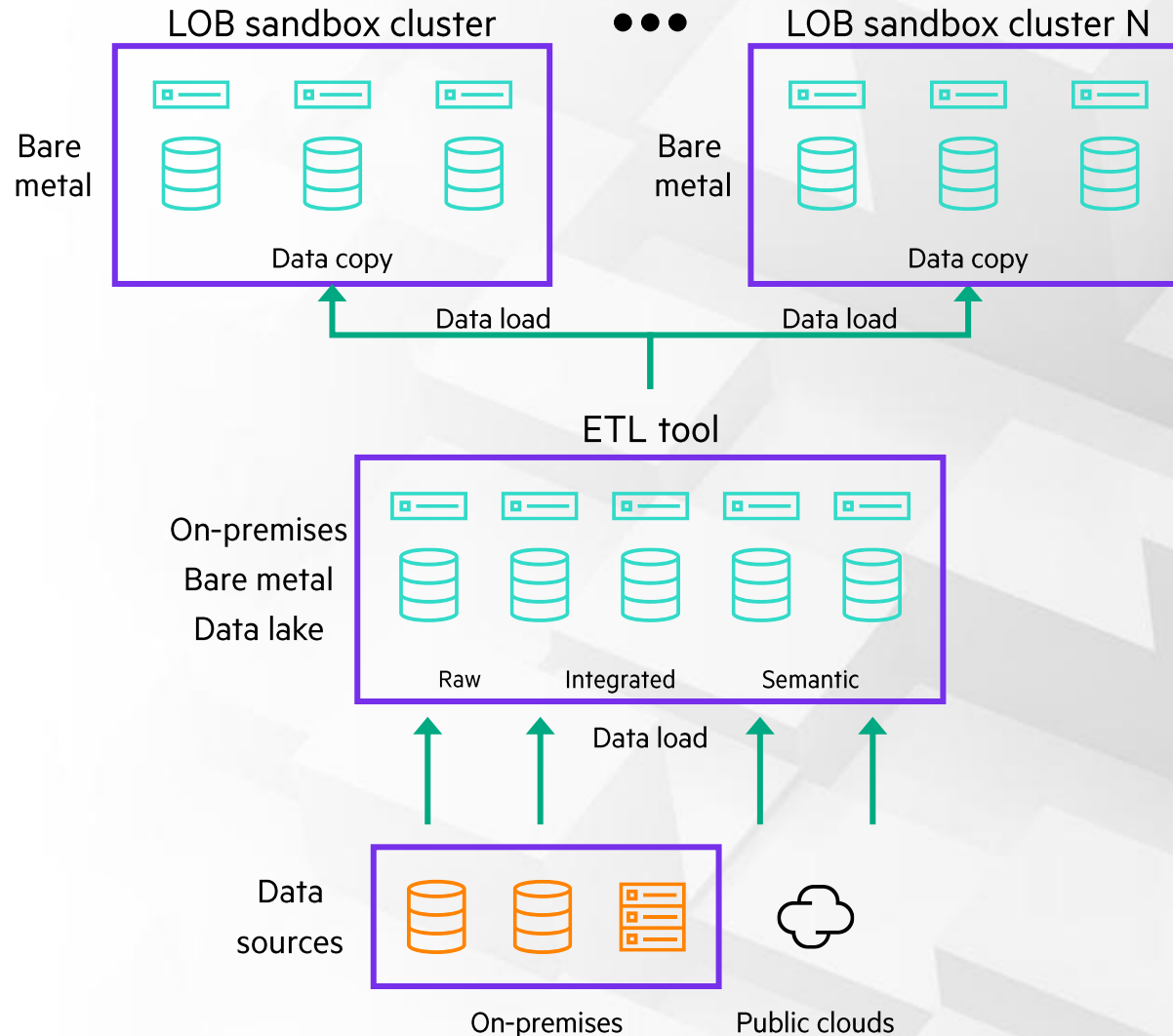
Infrastructure optimization
>\$6M
3-year savings

Single source of truth for all data
3 TB/day

Cloudlike on-premises experience
>1200X
faster time to value

Cloud ready
2 lines
of code change for AWS portability

Before State



Each team required its own cluster.

- New clusters took 9–18 months to deploy.
- Had to replicate for each team

Inefficient infrastructure utilization

- ~30% CPU utilization
- Storage bound, deleting 2 TB per day
- Massive data duplication

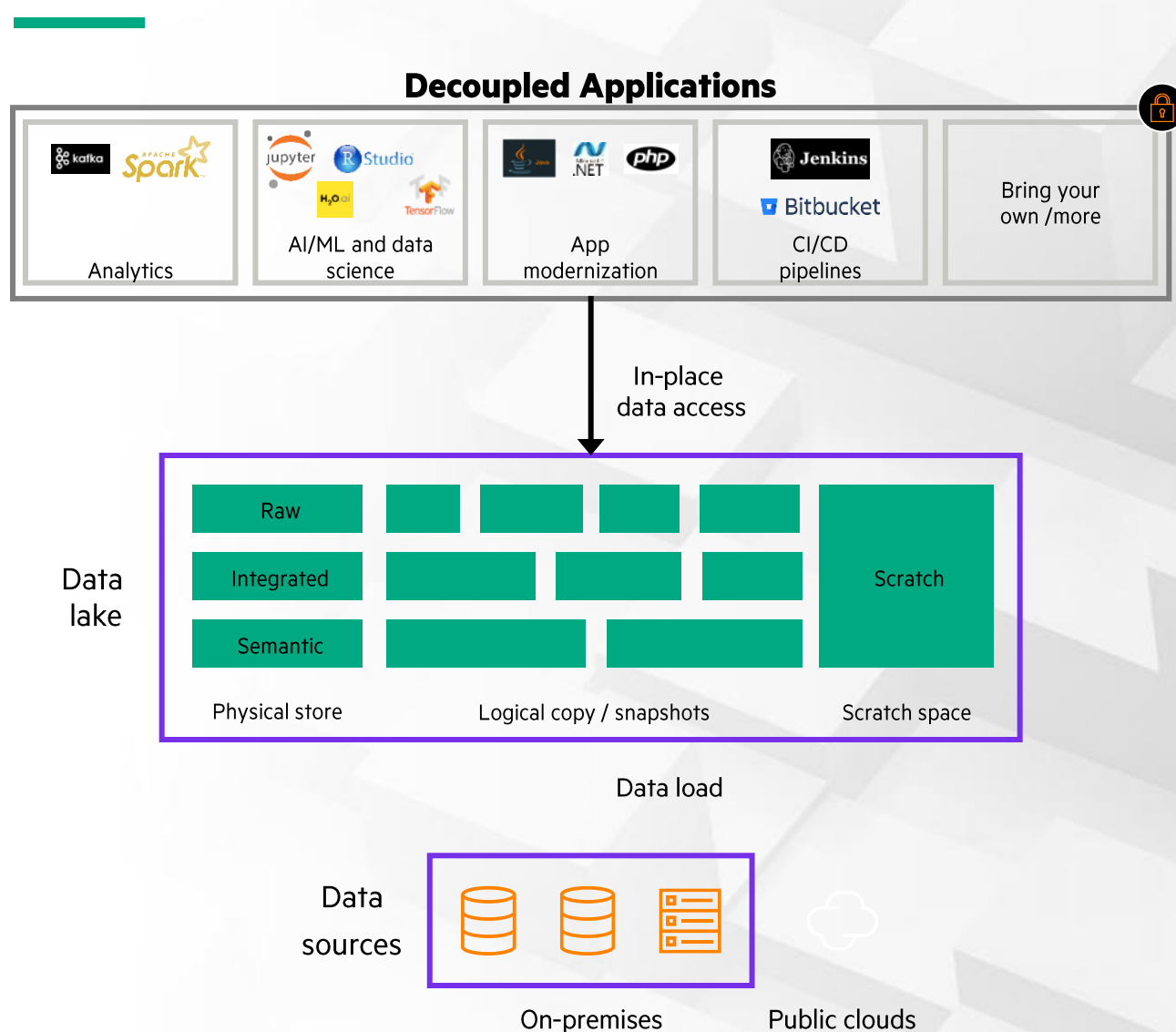
GDPR compliance

- Different results from different clusters
- Inconsistent storage of history

Cloud strategy

- On-premises data gravity

End State



Significantly improved infrastructure utilization with separation of compute and storage

- \$6M in 3-year savings

Self-service provisioning accelerates the entire data analytics lifecycle

- Provisioning from quarters down to minutes

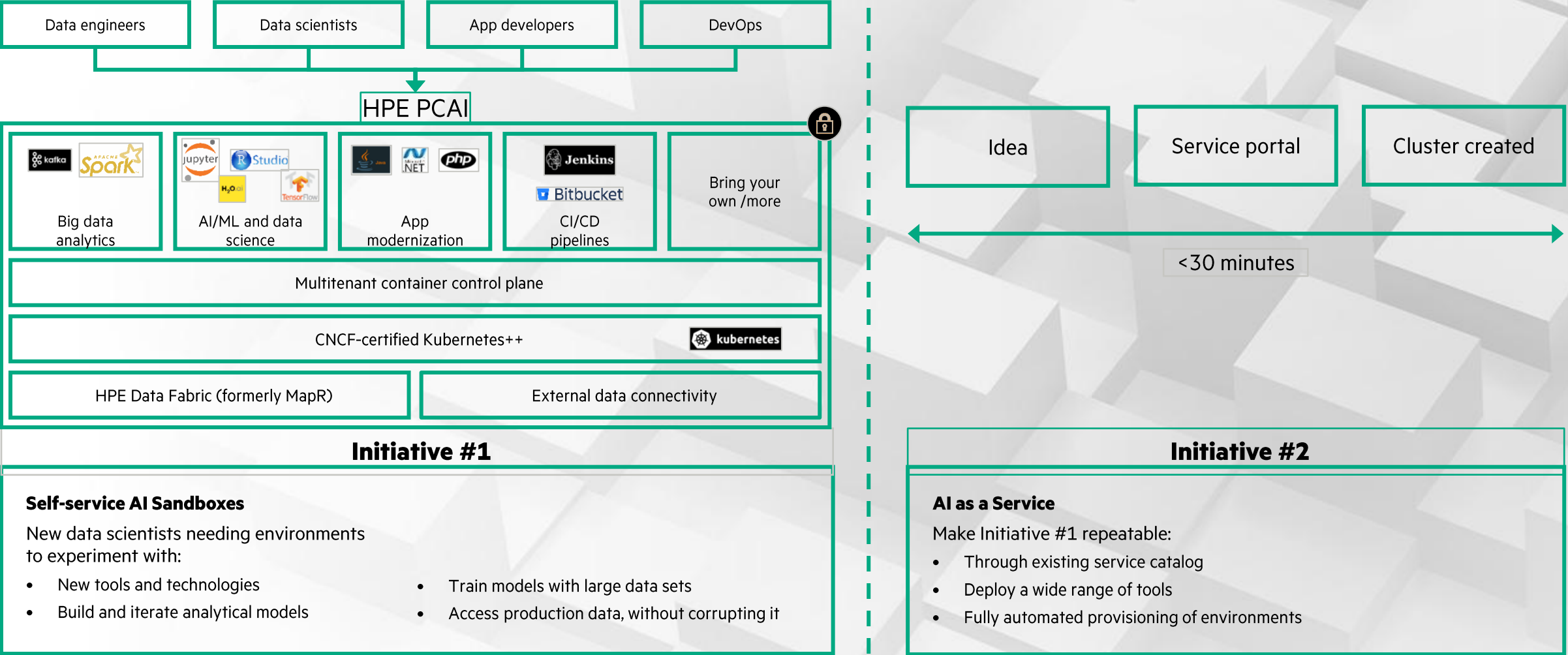
Ensured GDPR compliance

- Eliminated copies
- Full audit trail with consistent security model

Cloud-ready modern analytics solution

- Need to change only two lines of code to move to port apps to AWS

Cloud-Like Experience enabled New AI use cases



Chief Security Organization at a Fortune 50 Telco

Solution detects anomalies and attacks that could exploit their assets and cause an impact to their intellectual property.

- Simple, feature-rich, on-premises Big Data environment modernization
- Effortless scaling with enterprise data management
- Reduces security risk with real-time query capability

1000s
of queries per hour

Ingest
30 billion
records per day

5.7 PB
initial footprint

Why HPE wins

Ingest and integrate from many APIs, sources.

Full range of processing—analytics, ML, AI

Secure for multiple tenants, data types

Governance, access, catalog, control

Deliver insights into operational apps.



Largest Biometric Database in the World



- Biometric database for national identification system
- 10 fingerprints, 2 iris scans, digital picture
- Over 1B entrants to date, 40+ PB
- 1M registrations (trillions of matches)/day
- 5TB incremental data/day
- 100M+ authentications/day
- 200ms response time
- 1 in 10000 false positive rate
- Replaced Cloudera

20 Billion Biometrics



Fraud Detection & Recommendations

104 Million Card Members

- Dozens of use cases, multi-PB scale
- 100s of PhDs and data scientists
- Machine learning to support MyOffers
- Machine learning to support credit card fraud — protects over \$1T in spending each year
- Fraudulent transactions automatically trigger alerts to phone, email, text for the cardholder

Mercedes Benz uses hybrid IT to accelerate autonomous driving initiative

- Single repository for camera, vehicle and diagnostic data
- Growing data volumes made it essential to process data at edge
- Unload data from test vehicles to a mobile cluster infrastructure
- Mobile clusters logically integrated into different clusters

A car generates
5-20 TB
of data per day

Scalable
235+ PB
and growing

Global namespace
delivers one view of
global data

Run centrally
distributed Spark
jobs at the edge

Lower hardware
costs for mobile data
centers

Reduced remote
site
administration

View and analyze data
in less than 4 hours
after offloading

Consumer-led, privacy-first digital advertising

- Single platform to plan and execute digital advertising without using cookies
- Context-driven optimization, engagement measurement, and creative services
- Impending renewal of Hadoop vendor created compelling event to move to HPE
- Enables movement from Impala to Apache Drill

“HPE Data Fabric helps our customers receive more value out of their media, allowing us to blow the competition out of the water. The combination of HPE Data Fabric and our optimization technology allows us to review past advertisement placement behavior and performance, which was not possible with our previous vendor.”

—Mike Conway, Chief Technology Officer, Intelligent Advert Corp

Why HPE wins

Higher optimization
for compute
and storage

HPE Ezmeral Data
Streams save cost
of Kafka licenses.

World-class
technology

HPE Financial &
Professional Services

Unified Hybrid Cloud Control & Absolute Infrastructure Sovereignty



HPE Morpheus Enterprise Enables IT to Become an Internal Platform Provider

Hybrid cloud, DevOps, internal development platforms are about self-service

Provision any workload into any cloud on-demand

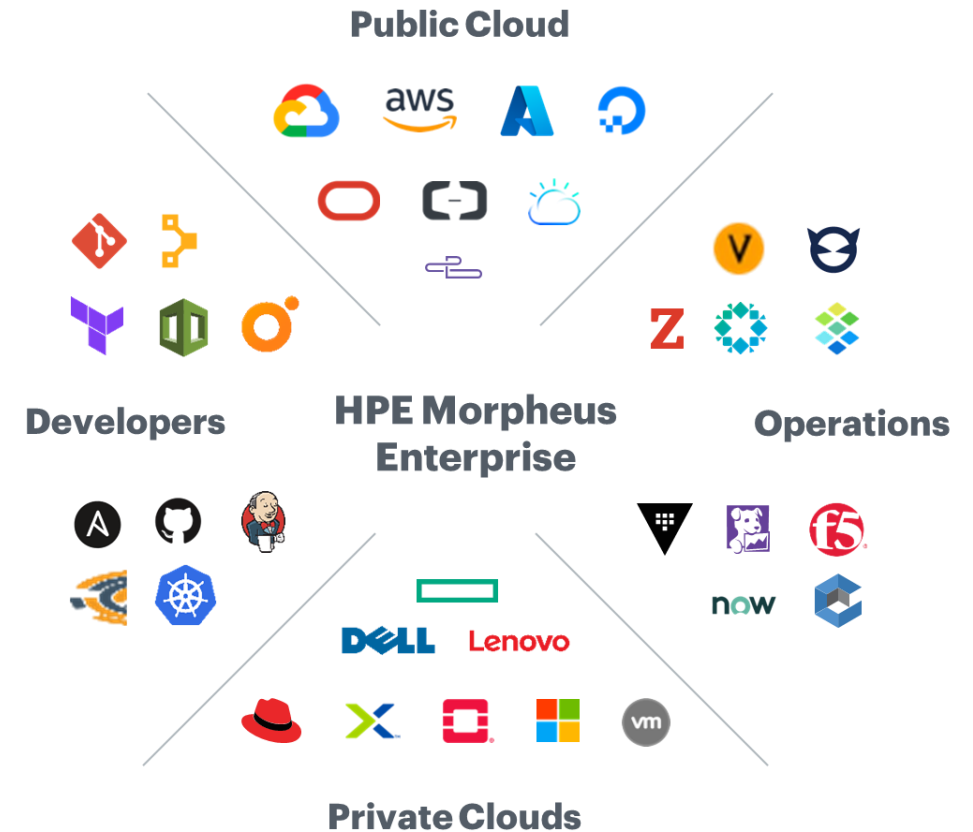
Orchestrate tools, dependencies, & guardrails for deployment and lifecycle management of VMs (IaaS / VMaaS), containers (CaaS), app services (PaaS/DBaaS), multi-tier app stacks, and cloud services.

Simplify runtime deployment for flexibility and choice

Push button deployment of HPE KVM-based Virtualization (HVM) and Kubernetes (MKS) Clusters plus deploy cloud-managed EKS, AKS, GKE. Extend with brownfield of 3rd Party K8s like SUSE, OpenShift, etc.

Lower cloud cost with visibility and optimization

Discover on-prem and public cloud instances, optimize resource use with analytics and rightsizing, sync cloud invoices & tags, enforce budget policy, enable show back, and centralize reporting.



IT / Platform Ops: Boost Productivity 20%-50%

Infrastructure & Security: Reduce Risk Exposure

Developers & Data Nerds: Provision 70x-150x Faster

Thank You

- Derrick Struys
- Derrick.Struys@HPE.com

