HPE GreenLake

How to make the most of your data

Create your cloud to deliver actionable insights everywhere

Get started >

Table of contents

The data reality check

Extracting insights from massive amounts of data across a hybrid cloud estate

Today, digital transformation efforts often include running workloads and applications in the cloud, for the ability to operate elastically and efficiently. However, 70% of applications and data remain outside the public cloud,[1] due to issues around data gravity, security, compliance, latency, performance, and application entanglement.

In the resulting diverse IT environment, growing data sets reside in and move across public and private clouds, data centers and colocations, and out to the edge and back again. Marshaling massive amounts of data across these distributed environments—with data silos and management complexity impacting both development timelines and application performance—impacts your ability to extract insights from data.

Taking a data-first modernization approach to digital transformation changes the conversation from deciding "where" data and applications should reside to "how" teams can use data where, when, and how they need to, turning raw data into actionable insights faster and better than the competition.

To deliver on this vision, Hewlett Packard Enterprise can help you bring the cloud experience to data and applications everywhere, with the ability to create your own cloud experiences for data-driven insights that transcend locations. This unified cloud experience connects to and simplifies data management and application development across environments, from creation to storage, and from pilot to production while improving efficiency and sustainability. With the ability to deliver IT capabilities as a service, you can connect data across hybrid cloud environments to resolve data disarray, simplify and speed up data access, avoid migration headaches, and scale quickly and intelligently as needed.

When the data deluge meets hybrid cloud complexity, you need a way to bring the cloud experience to all applications and data with a unified cloud experience.

Here's how to get started.

[1] IDC Cloud Pulse 4Q21 Survey Findings, IDC, December 2021
[2] Why Being a Data-first Leader Matters, ESG research report, 2022.

The cloud experience advantage[2]

20x more

likely to beat competitors to market by multiple quarters

11.5x more

likely to beat revenue goals by more than 10%

49% more

innovations in the past year

How to provide always-on, always-fast access to all data across diverse IT environments

Create a cloud experience for all apps and data, everywhere

To stay competitive, you need to deliver always-on, always-fast access to data-driven insights for business users and customers alike, running any application with the right performance, resilience, and efficiency. This requires delivering powerful compute and storage resources to data-driven applications as needed, with the scalability to accommodate large and growing analytics and artificial intelligence (AI) systems. Cloud can deliver on these requirements, and most organizations have adopted cloud-first strategies and migrated applications to the cloud to take advantage of these benefits.

However, most apps and data still remain outside the cloud[3] due to data sovereignty requirements and data gravity issues at the edge, where the laws of physics simply do not allow data transport before a decision needs to be made. Wrapping your arms around data and applications across your infrastructure, multiple clouds, and edges can turn your goals of making the most of data into a monumental challenge. Enabling data driven insights on demand from all data, everywhere, requires simplifying data management with a cloud experience that streamlines operations and lowers costs—no matter where data and applications reside.

HPE offers a secure, automated, flexible, and scalable pay-as-you-go private cloud experience that brings the benefits of the public cloud to your data centers, colocations, and edges with support for bare-metal deployments, virtual machines (VMs), and containerized workloads. This combination enables you to run any application at scale with simplicity and speed.

HPE also helps you tap into an always-on foundation for always-fast apps, wherever they reside. One that is scalable to exabyte levels to accommodate growing data sets and can provide seamless access to data and applications with unified, cloud-managed wired, wireless, and WAN edge-to-cloud connectivity. HPE can also help you optimize data storage across tiers and environments, using intent-based provisioning that leverages AI to determine where data should be stored, freeing up to 99% of IT time to work on strategic, higher-value initiatives.[4] Storage service from HPE combines self-service—faster and more flexible access—and 100% availability for your mission-critical apps to help you meet any service-level agreement (SLA).[5]

[3] IDC Cloud Pulse 4Q21 Survey Findings, IDC, December 2021
[4] Customers can speed time to value with 99% operational time savings using intent-based provisioning from HPE Alletra and Data Services Cloud Console delivered via HPE GreenLake for Storage—ESG Market Research, April 2021.
[5] Using HPE GreenLake for Mission Critical Storage service; 100% Availability Guarantee, HPE brochure, August 2021.

Bring the cloud experience to apps and data wherever they are with optimal application performance, delivered in a secure and cost efficient way, to empower data-driven insights for your entire organization.

How to get insights on demand, at any scale across hybrid cloud environments

Create a cloud experience for operationalizing AI and analytics at scale

AI intelligently extracts meaning from data, amplifying human capabilities, and turning exponentially growing data sets into insight, action, and value faster than ever before. AI and machine learning (ML) are being used in a variety of applications across industries, including retail, healthcare, manufacturing, and government. The ability of AI and ML to analyze immense data sets at scale makes it a cornerstone of data-first modernization, providing improvements in efficiency and insights with far-ranging impacts—from lowering costs to increasing revenues, improving productivity and business agility, and beyond.

But many organizations struggle with moving experimental ML pilots into full-scale production. Without proficiency in AI/ML and without an MLOps game plan to automate and operationalize efforts at scale, cutting-edge data science initiatives fail to add business value. In fact, analysts estimate that 80–85% of data science projects are unsuccessful, thwarting data-first modernization outcomes.[6]

Adopting MLOps as a plug-and-play solution with a cloud experience from HPE—delivered to on-premises locations and monitored and managed to reduce risks, control costs, and free up IT resources—can reduce the typical six-to-nine-month infrastructure procurement cycle to just weeks.[7] This enables data scientists to quickly operationalize their ML models.

Leading MLOps solutions from HPE reduce the access challenges of hybrid analytics and increase data accuracy and trust. They simplify data management across the lifecycle to speed development with a wide range of analytical and ML tools. They leverage automation to simplify complex operations across hybrid environments and to standardize and scale ML workflows while giving you the ability to use these resources on-premises and on demand with a cloud experience.

[6] CIO's guide to data & application modernization, HPE white paper, September 2021
[7] Speed machine learning workflows to drive faster insights, HPE solution brief, 2022

Accelerate data-driven outcomes by modernizing workloads, including adopting MLOps to deliver AI-driven applications at a consistent pace.

How to reduce costs and carbon emissions

Create a cloud experience that enhances efficiency to achieve business and sustainability goals

The IT industry works together to impact global climate change by adopting sustainability action plans. Sprawling, siloed IT operations can be inefficient and contribute to both high costs and carbon emissions. Low utilization rates sap budget resources and increase energy consumption. For example, 25% of IT infrastructure is tied up in abandoned or non-virtualized resources that have low utilization rates.[8] Inefficiencies like this cause power, space, and cooling issues and lead to costly overprovisioning.

Solving these constraints through modern, efficient infrastructure delivered as a cloud experience significantly reduces operational expense (OPEX) and capital expense (CAPEX), and improves operational efficiencies for equipment, staff, and infrastructure. Addressing overprovisioned and underutilized environments by transitioning to a cloud experience can be the key to increasing efficiencies—and reducing carbon footprints.

HPE provides a sustainable solution for data and applications that can be as efficient or more efficient than public cloud providers. A cloud that comes to you addresses the key causes of inefficiencies in on-premises or co-located data center IT equipment, helping reduce costs, overprovisioning, energy consumption, and carbon emissions. What's more, you even recover residual value from IT assets while helping minimize e-waste.

For example, HPE customers have reduced energy costs by more than 30% through transitioning to a consumption model as opposed to a traditional CAPEX model. Consuming more efficient technologies as a service can reduce carbon footprints by as much as 50% and consolidate server footprints by at least 50%.[9] In addition, HPE can help you extend your IT budget by unlocking the hidden value in legacy equipment to free up cash for new IT investment. HPE converts owned IT assets into an incremental cash source while converting the use of systems to an as-a-service model for more predictable expenditures.

By delivering on both digital transformation and environmental sustainability objectives, as-a-service models can accelerate your competitiveness. For example, companies leading in both digital adoption and sustainable practices are nearly 2.5x[10] more likely than other companies to be among tomorrow's leaders.

8, 9 How to transform and digitize with sustainability in mind, HPE blog, March 2021
10 The European double up, Accenture research report, January 2021.

Increase efficiencies and optimize delivery models to advance your sustainability practices by reducing carbon and energy use, materials, and waste.

Start planning your data-first cloud experience

Create your cloud, your way to deliver actionable insights everywhere

Data can be a differentiator, but only if you can unlock the value of all your data across diverse IT environments to make smarter moves, faster than the competition. HPE can help:

Provide always-on, always-fast access to data across diverse IT environments by creating a cloud experience for all apps and data, everywhere

Use AI to get insights on demand across hybrid cloud environments by creating a cloud experience for operationalizing AI at scale

Reduce costs and carbon emissions by creating a cloud experience that enhances efficiency to achieve business and sustainability goals

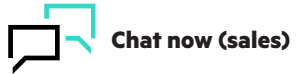# Partner with HPE to make the most of your data

HPE can help you empower data-driven insights on-demand by creating a cloud experience for all data and applications, everywhere, so you can operationalize analytics and AI at scale while enhancing efficiency to achieve business and sustainability goals. Make the move to learn how HPE GreenLake gives you hybrid cloud, just the way you need it, so you can make the most of your data.

Learn more at

hpe.com/greenlake/cloud

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