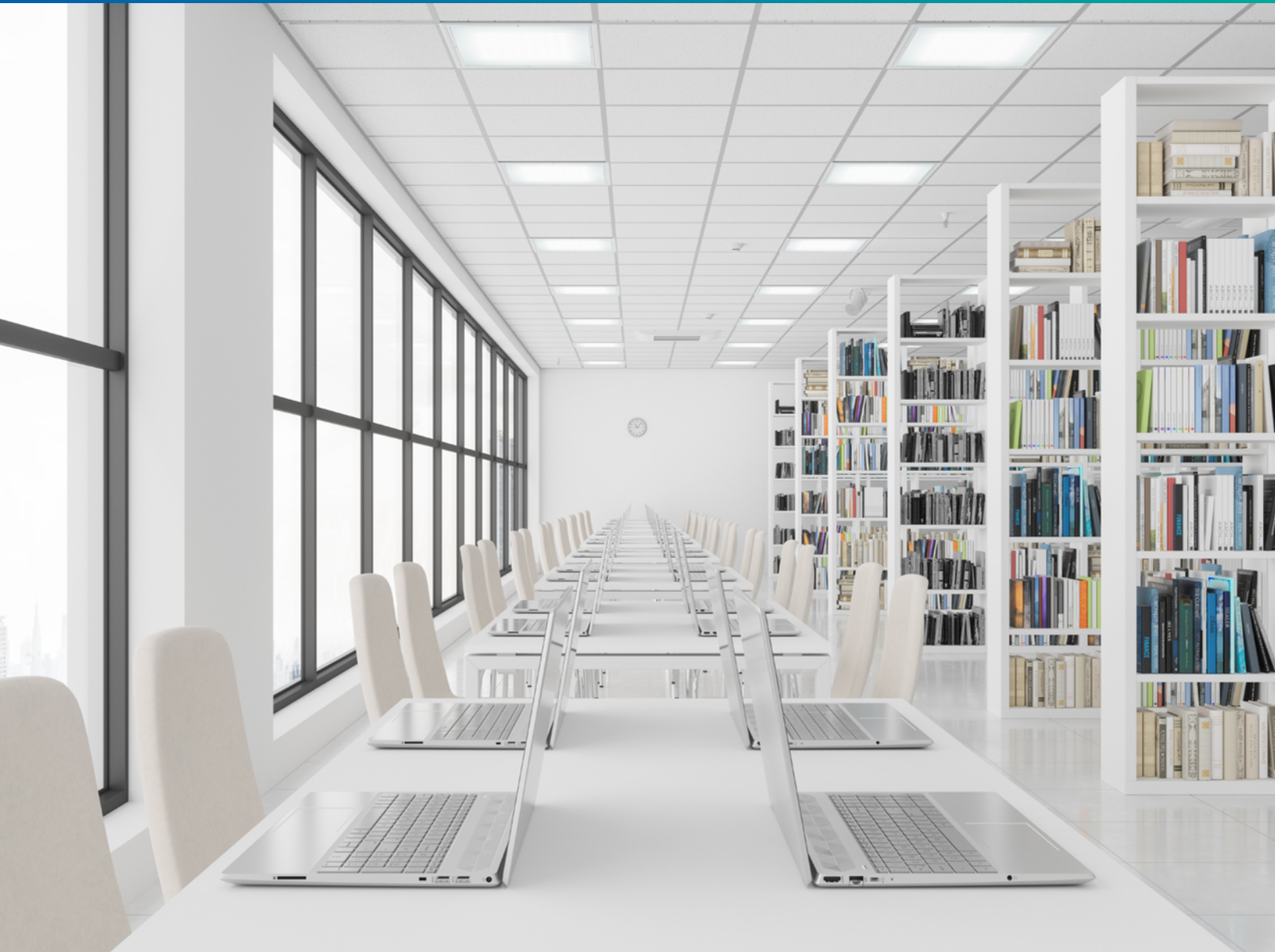


A Guide to **HPE GreenLake for Education**





Even before the pandemic drove educational institutions and school boards to accelerate their digital transformation plans, many educational institutions were on a journey to the cloud.

The ability for technology to impact learning is so profound to overlook: saving educators time and money, improving student's learning through personalization — all while helping them to build the digital skills they will need in the coming years. Of course, during Covid-19, technology became essential to deliver remote learning amidst lockdowns and health and safety measures.

As higher education colleges and universities turn to technology innovation to attract the best and brightest, so too do private and public K-12 schools look to the cloud as a means to improve student outcomes and preparing their bright futures — all with a necessary eye on justifying expenses and cost containment.

Today, blended or hybrid learning — technology-assisted learning combining online activities with physical in-class education — continues. While studies by the World Economic Forum show online learning grows, with numbers accessing online education at pre-pandemic levels.ⁱ

With its promise of lower costs, scalability and the flexibility to adjust quickly to changing needs, many education institutions, both K-12 and higher learning, have looked to cloud computing to offload some of the pressure on the school's own IT environments.

Hybrid cloud for hybrid learning

Recent events have trust change on educational institutions faster than ever before. To meet evolving student needs, they have had to become more agile and innovative, adopting remote and blended learning, incorporating new techniques and materials (such as OERs (open education resources), and the list goes on.

To embrace gain the agility needed, many have moved at least some tasks or workloads to the cloud to be able to respond quickly enough to the rapidly changing of students, faculty and administration alike. Cloud computing affords educators with the ability to access resources when they need them, where traditional on-premises solutions are too restrictive and often result in over-provisioning and waste.



But while the cloud provides agility and scalability and on-demand resource provisioning, it comes with a host of complexities and costs that many institutions and boards aren't prepared for.

Striking an ideal balance between what workloads and data reside on the public, private or hybrid cloud, and on-premises data centers becomes a central consideration, as cloud services very often result in unpredicted, and unconsidered costs when not part of a larger strategy. Disjointed cloud offerings can also cause data silos to form, complicating operations.

The power of a cloud-like experience... everywhere

One logical approach for educational institutions and school boards to achieve the resource availability and agility needed to evolving needs and their digital transformation goals is, as discussed, the cloud. But the public cloud isn't appropriate for all workloads — especially in education.

Many institutions maintain a mix of legacy and modern systems, cloud applications and unique backend platforms, all with various states of interdependence that can make the public cloud impractical or even impossible. Add to that education organizations must contend with compliance, data sovereignty, and data privacy requirements, making the cloud ill-suited for some applications, while the costs associated with the effect of data gravity in the cloud — with public service providers charging high data egress fees — can be crippling to educators and school boards.

With that in mind, most educational institutions today must run some workloads on-premises or in hosted data centers.

The problem with overprovisioning

There was a time when IT would simply “throw money” at the many infrastructure challenges educational institutions face today by over-provisioning resources. That way they'd have the compute, storage, and security services needed to new and evolving needs of students, staff, administration, and regulators. That option is increasingly becoming unsustainable, as on top of unnecessary costs, it introduces management complexity, tremendous waste, and an unnecessary ecological impact.



It's unquestionable the cloud model has the benefits needed to meet the industry's rapid evolution but maintaining the hybrid operation needed to support data and performance concerns is complex and cloud costs can easily skyrocket.

The answer is a consumption-based model for IT services.

Bringing an OPEX model to on-premises IT resource deployment frees organizations up from capital costs, allowing them to focus on the innovation needed to achieve their goals and improve student outcomes.

A consumption-based model provides a cloud-like experience whether in the cloud, on-premises, or at the edge, providing educational institutions with: quick response to changing demands; the elimination of over-provisioning; faster IT procurement and, ultimately, time to value; a metered OPEX procurement model; simpler, centralized management with fewer operation silos; shared risk with vendors and service providers; and, the scale and elasticity needed to grow in digital services (or respond to bursts in demand, such as the high periods of remote learning seen during recent events).

HPE GreenLake, a consumption-based solution from HPE — and backed by the expertise and services of Advizex — has emerged to extend the consumption-based model beyond the public cloud to provide the infrastructure, compute and application resources educational organizations need across multiple clouds, on-premises, and at the edge — everywhere learning is taking place.

HPE GreenLake: HPE's edge-to-cloud platform

HPE GreenLake is an IT-as-a-Service consumption model that brings a cloud-like experience across educational organizations' edges, colocations, and data centers.

HPE GreenLake uses actual metered usage to provide on-premises IT resources on an OPEX model, where educational institutions pay only for what they use. This gives them the openness, agility, speed, and scalability they've come to expect from the public cloud, but also the performance, security, and control they have at their on-premises data centers, campuses, and local schools.

How does HPE GreenLake work?

The organization's hardware and software — yes, the organization's, HPE GreenLake is not a lease with static monthly fees — are installed on their premises by HPE or Advizex as a certified partner. This installation includes reserve capacity to scale for future or unanticipated needs. HPE and Advizex implement, then manage and support each HPE GreenLake solution, so the organization's IT team can focus on high-value tasks, not routine infrastructure management.

Benefits of IT-as-a-Service

Because of its as-a-Service delivery model, hardware and software are continuously updated, again, with organizations only paying for the IT resources they use. This frees up IT staff further, taking from them the burden of securing and updating those resources, while still cost control and risk mitigation, and achieving compliance.

Advanced forecasting capabilities found in HPE Infosight help to predict and address infrastructure needs now and in the future. Armed with the most advanced AI for infrastructure, organizations can predict and prevent issues before they become a problem, ensuring their infrastructure and apps are always on, always available, and always fast.

Flexible and scalable

With HPE GreenLake, educational organizations can adopt the modern IT architecture they need in a massively changed learning environment. It gives the elasticity needed to scale up (or down) as needed to give educators the confidence of always being prepared with the resources required — no over-provisioning necessary.

Schools can be ready to scale to adopt new technologies and digital teaching methods, as well as any unexpected digital service demands knowing with confidence everything is supported from a technology perspective. And, because it's pay-per-use, organizations can control costs and make sure they line up with the business outcomes they achieve.



HPE GreenLake Central

HPE GreenLake Central is HPE's enterprise management software, allowing organizations to manage their entire hybrid estate — public cloud providers and on-premises environments — through a single pane of glass. With it, organizations can keep track of usage and security, monitor, and run instances wherever they reside and keep track of costs and compliance issues. Through its Monitoring-as-a-Service (MaaS) offering, Advizex can use GreenLake Central to monitor its customers' hardware, software, and usage, while they retain control.

HPE GreenLake benefits for education at a glance

HPE GreenLake provides higher learning and other educational organizations with the benefits of a consumption-based model like the public cloud, but much more. HPE GreenLake provides many remarkable benefits including:



Flexible metering. HPE GreenLake is a pay-per-use solution based on actual metered usage, with several flexible metering options



Operational ease. All the hard work around the equipment installation, usage analysis, capacity monitoring, and proactive maintenance are done by HPE or Advizex.



Comprehensive insights. Through Infosight, organizations have clear, real-time visibility into usage and spend by service, project, location, or business unit, wherever IT activities occur, ensuring costs line up with business outcomes.



Faster time to market. Organizations can go from planning to production-ready infrastructure fast for even the most demanding workloads — acting fast and going where the market takes them.



Reduced waste. Through active capacity planning provided by HPE, organizations can avoid overprovisioning, reducing costs but also their environmental footprint.



A wide ecosystem. HPE offers a wide breadth and depth of solutions, partners, and technologies through HPE GreenLake that meet all modern IT needs.



Security. Security is simplified but bolstered through role-based access, HPE's trusted supply chain, and zero-trust architectures.



Compliance. HPE GreenLake provides educational institutions with an integrated view of costs, governance, performance, operations, and security.



Billing and support. Organizations benefit from one support team for infrastructure, installation, upgrades, support, and metering, and from a single bill for all services.

With HPE GreenLake, higher learning institutions, school boards and other educational organizations no longer need to choose between the agility and scale of the public cloud or the security and performance of on-premises infrastructure. They get the best of both worlds: leading-edge technology, reduced capital expenditures, and both flexibility and control wherever learning takes place.

About HPE

Hewlett Packard Enterprise (NYSE: HPE) is the global edge-to-cloud company that helps organizations accelerate outcomes by unlocking value from all of their data, everywhere. With offerings spanning Cloud Services, Compute, High Performance Computing & AI, Intelligent Edge, Software, and Storage, HPE provides a consistent experience across all clouds and edges, helping customers develop new business models, engage in new ways, and increase operational performance. For more information, visit

About Advizex

Advizex is a leading technology provider of infrastructure and enterprise application solutions. For more than 45 years, Advizex has partnered with its customers to accelerate the adoption of new solutions and create business value. Its deep heritage in both applications and hybrid infrastructure are essential elements in its approach to developing new solutions that meet its customers individual business needs. Combining the expertise of its people with the innovative technologies from its strategic partners, Advizex helps solve complex IT issues that impact its clients' businesses— all guided by its mission of creating customers for life. For more information, visit