Hewlett Packard
Enterprise

CHOOSING THE BEST OF THE CLOUD

CHOOSING THE BEST OF THE CLOUD:

THE ACCELERATION OF DIGITAL TRANSFORMATION AND WHAT IT MEANS FOR ORGANIZATIONS' CLOUD FUTURES.

December 2020. Our work and personal lives are being digitally transformed in ways and at a pace we could not have imagined a year ago. These changes intensify the challenges for CIOs to put the right digital solutions in place for the full spectrum of operations: from the end-customer to the corporate back-office, from the cloud to the manufacturing plant.

To help CIOs navigate the choices facing them, HPE Belgium held a "CIO Vision" online session with experts in digital transformation. Moderated by Stephane Lahaye, Managing Director HPE Benelux, the session featured presentations by Gilles Thiebaut, SVP and Managing Director, HPE North Western Europe, Miguel Borrega, Research Senor Director Gartner, and Hédi Ezzouaoui, Sales Director at HPE Belux.

In this paper we present the top six insights that arose from the session.

1 THE FAST-FORWARDED DIGITAL ACCELERATION — BRINGING TOMORROW'S ENTERPRISE CLOSER
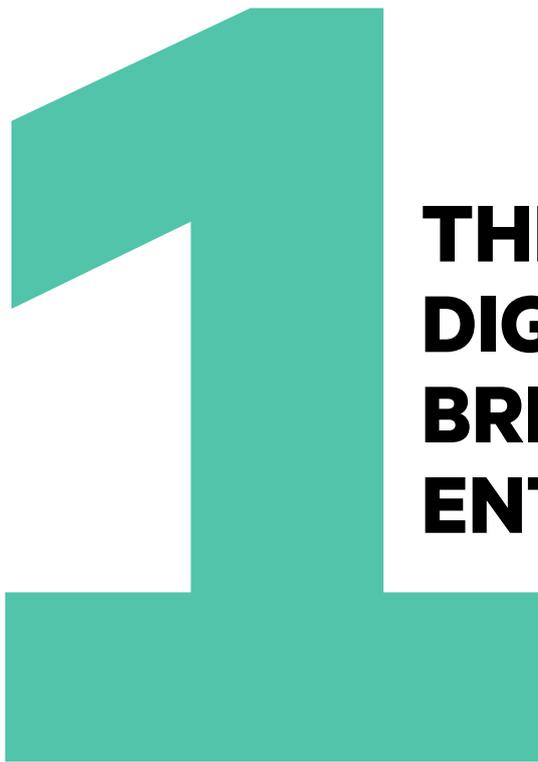
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1

THE FAST-FORWARDED DIGITAL ACCELERATION — BRINGING TOMORROW'S ENTERPRISE CLOSER

The pandemic, while having a serious health and economic impact, is also proving to be a formidable accelerator of trends.

Research from McKinsey shows that:

» Organizations implemented a remote working solution in 11 days on average, which they estimate to be 40 times faster than in "normal" times.

» Online deliveries took a forward leap of 10 years in the first eight weeks of the lockdown.

» 250 million students worldwide had shifted to online learning within two weeks.

» In five months Disney+ achieved subscription rates that took Netflix seven years to reach.

TOMORROW'S ENTERPRISE IS CLOSER THAN WE THOUGHT.

And with data fueling that enterprise, here are three facts about the changing landscape that CIOs need to take into account.

1. **Data is increasingly being generated at "the Edge"**—meaning that data computing is no longer the preserve of the cloud and of data centers, but is being done directly at devices on the edge—think of connected devices from IoT sensors in factories to smart watches and connected cars. An estimated 55 billion devices will be connected by 2022.

2. **There will be a major shift in how and where data is processed** - today only 30% of enterprise apps are on the public cloud.

3. And, while enterprise-stored data will grow five-fold by 2025, **today the large majority of data— 65% - is unorganized and underutilized.**

A NEW EUROPEAN POLITICAL IMPETUS

2

The new European Commission, in office less than a year, has put the enhancement of the EU's own digital capabilities as a top priority. Thierry Breton, European Commissioner for the EU's Internal Market and former CEO of France Télécom and of Atos, is determined to end Europe's dependency on a small number of non-European online platforms. He has put forward a data strategy to ensure that Europe will not miss the new data wave and will gain ownership of its industrial data. In October 2020, 25 European countries signed a joint declaration to establish a European Alliance on Industrial Data and Cloud that will enable cooperation on resilient and competitive cloud infrastructure and services across Europe. The European Union will invest up to €10 billion over the next seven years.

Meanwhile countries are cooperating to strengthen European cloud. Germany and France have established Gaia-X, a platform to develop common requirements for a European data infrastructure with common rules for sharing data. Gaia-X will make it easier for users to switch cloud providers.

It will also function as a platform for businesses to search for data storage providers and establish secure environment for cross-business data sharing in Europe.

THIERRY BRETON, EUROPEAN COMMISSIONER FOR THE EU'S INTERNAL MARKET, HAS PUT FORWARD A DATA STRATEGY TO ENSURE THAT EUROPE WILL NOT MISS THE NEW DATA WAVE AND WILL GAIN OWNERSHIP OF ITS INDUSTRIAL DATA.

The EU's strategy and the rules in the pipeline will have three outcomes:

Firstly, they will make **an impact on hyperscalers' businesses** in Europe.
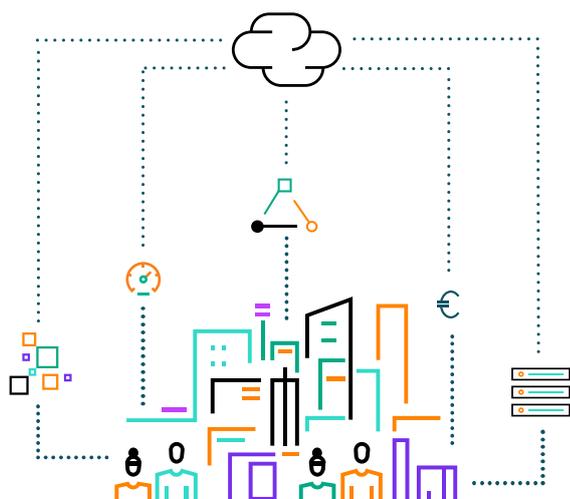
Secondly, public clouds for industrial data will become more distributed, and **interoperability of data will become crucial.**

And thirdly, they will fuel **the need for having a scalable cloud experience** wherever you are—including on-premises.

3

ORGANIZATIONS' WISH-LIST FOR CLOUD

Gartner research shows that most **organizations move to cloud computing for cost savings and agility,** with some organizations prioritizing the innovation that cloud offers in areas such as AI and IoT.

HPE sees that **organizations want the agility and simplicity of the cloud, together with the control and flexibility of a hybrid model.**

Across all sectors, organizations are using a mix of public cloud, on-prem cloud and data centers. This hybrid demand looks set to remain for the years and will need to be met with a hybrid supply.

The flexibility that customers want is less likely to be found in a conventional cloud platform model. **Cloud solutions that are offered as-a-service give that desired flexibility in terms of scalability, self-service and pay-per-use.**

HPE is seeing rapidly increasing demand for on-premises cloud as-a-service—50% CAGR in 2020. And it's clear organizations are satisfied with this new model - HPE has a 94% retention rate for as-a-service solutions.
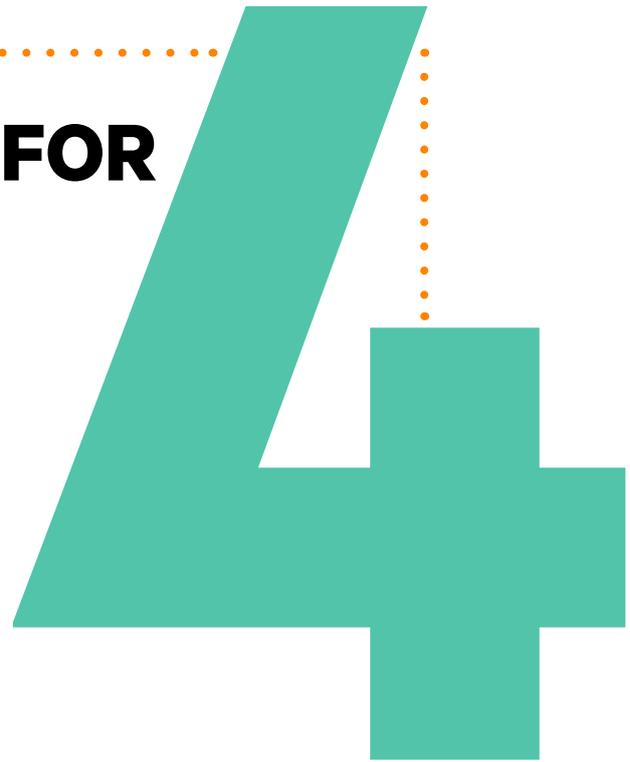
THE PREFERENCE FOR MULTICLOUD AND HYBRID CLOUD

More than 80% of organizations use more than one cloud service provider

More than 80% of organizations use more than one cloud service provider, according to Gartner research. Working with multicloud brings several advantages. **Users have access to a broader range of tech capabilities** and can choose different providers based on their expertise in different cloud services.

More importantly, **with a multicloud approach, it's easier for users to avoid vendor lock-in.** To make a multicloud solution even better, users would like to be able to better manage and govern their overall cloud operations and have a clearer overview of their data and of the costs.

With 90% of enterprises using some kind of hybrid approach, **the demand for hybrid cloud is such that many cloud vendors are moving towards the hybrid experience.** Traditional public cloud players are bringing the public cloud to on premises. And on-premises vendors are moving towards as-a-service. **Consumption-based models seem to become the preferred option for the hybrid environment.**

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5

A BLUEPRINT FOR MIGRATING TO THE CLOUD

MIGRATING TO THE CLOUD SHOULD BE A WELL THOUGHT-OUT AND CAREFULLY INSTRUMENTED OPERATION.

It should be based on three pillars: a cloud strategy; a cloud implementation plan; and a cloud Governance and Management model.

1

An organization's cloud strategy should include:

» Vision, objective and alignment with business goals

» Risks assessment & mitigation

» Adapting skills and internal structure to a cloud-based business

» A decision & governance framework to decide on and manage evolving cloud plans and costs

» An exit plan for services that no longer suit

2

The cloud implementation plan involves:

» An internal assessment of workloads to be migrated to the cloud. The business value of what is being migrated should be assessed—not everything needs to go on the cloud

» Deciding cloud foundations: which provider and which solutions?
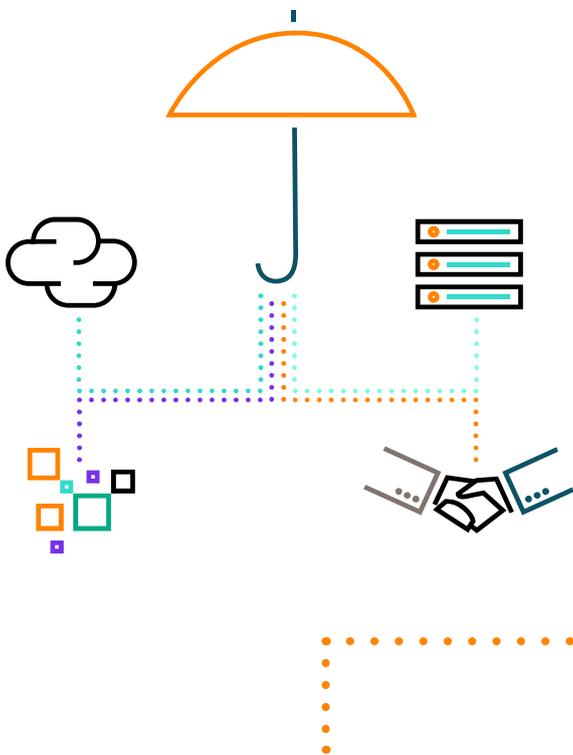
» What cloud architectures best match the data needs?

3

The cloud governance & management plan covers, in addition to general governance, issues such as:

» If and how end users in your organization will interact with the cloud

» How costs will be managed

» How multiclouds will be managed.

CLOUD AS AN (AS-A-SERVICE) EXPERIENCE, NOT A DESTINATION

6

AT HPE WE SEE CLOUD NOT AS A DESTINATION, BUT AS PART OF A BIGGER EXPERIENCE.

With this mindset, we work with organizations to:

» Redefine experiences and operations at the intelligent edge: going from a centralized approach to a distributed approach

» Bring the cloud experience and operating model to all of an organization's apps and data: going from cloud first to cloud everywhere

» Unlock the value of all of an organization's data from edge-to-cloud: going from more data to more insights

HPE GREENLAKE

Signalling a game-changing shift in HPE's company strategy, under HPE GreenLake, (which originated in the Benelux) **HPE will make their full portfolio available as-a-service by 2022.**
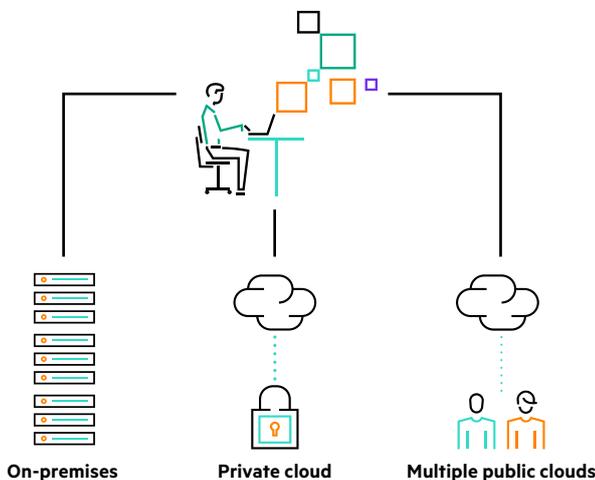
Today GreenLake is used for 15 different types of workloads from containers to VDI to Machine Learning and more.

For such a far reaching, all-round solution, **its importance lies in its simplicity and transparency** with a single control tower pane where users have a snapshot view of their GreenLake operations.

This helps CIOs rapidly answer questions from colleagues — whether CFOs or developers.

Today GreenLake is being deployed across a spectrum of sectors (16 deployments to date in Belgium). For example, Zenuity, an autonomous driving company, uses GreenLake as it fulfils its requirements for flexibility, low latency, and access to HPC and AI capacity.

Supporting GreenLake is **Esmeral, HPE's new software portfolio.** Esmeral brings value to customers by **modernizing applications, unlocking value of data, and automating operations at the edge and in the center.**

On-premises   **Private cloud**   **Multiple public clouds**

WITH HPE GREENLAKE HPE OFFERS AGILE MICRO-SERVICES THAT CAN BE DELIVERED ON A PAY-PER-USE BASIS ANYWHERE — ON PREMISES, ON SERVERS, ON THE EDGE, IN THE PUBLIC CLOUD, IN THE PRIVATE CLOUD.

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