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Hybrid Cloud. From HPE.

SERVE TODAY.
BUILD TOMORROW.

A guide to delivering responsive local government that is always on, always learning, always improving.
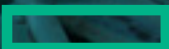
SERVE TODAY. BUILD TOMORROW.

Use hybrid cloud services to transform and enhance relationships with citizens and businesses. No matter which city, county or borough you serve.

Click on the arrows in this e-guide to jump to the particular section you want to see.

1. MEETING TODAY'S CHALLENGES

COVID-19 is an unprecedented event that has put local governments across the world under extreme pressure. This, at a time when many cities, counties and boroughs were already embarking on optimistic and challenging **digital transformations**.

Now the pressure is on to use mobile apps and government data networks to **serve societies and economies** more efficiently and transparently.

> **Citizens** want information.
> **Businesses** need support and advice.

Local government must serve both, whilst creating a **new world of work** for their employees.
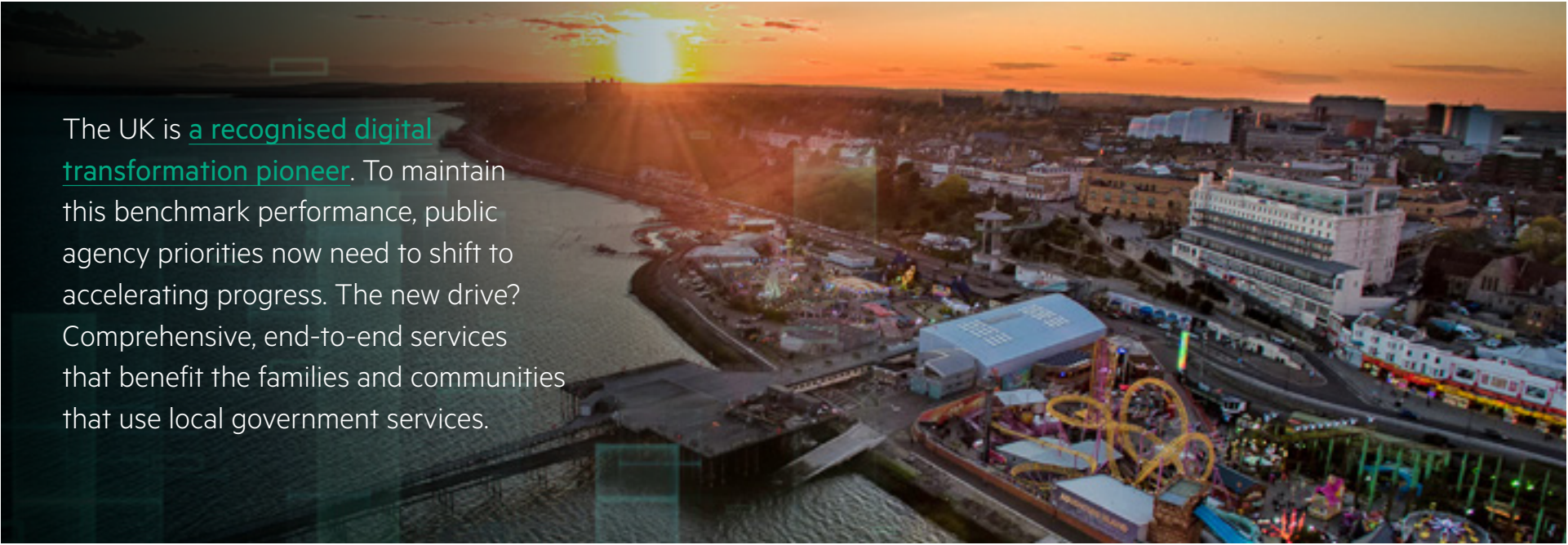
Legacy technology issues can trip up IT teams sprinting to deliver sustainable solutions—but **hybrid cloud offers a clear path for transition** and enables future-fit innovations.

Today's leaders in local government need to understand how technology and policy mesh, to build out an innovative, intelligent world that enables local government to do its best work, while confidently serving citizens and building tomorrow.

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2. THE UK'S TECHNOLOGY LEADERSHIP

The UK is [a recognised digital transformation pioneer](). To maintain this benchmark performance, public agency priorities now need to shift to accelerating progress. The new drive? Comprehensive, end-to-end services that benefit the families and communities that use local government services.

2

The Government Digital Service (GDS) has identified three major areas of work.

1 | **Accelerate the pace and scale of transformation** by avoiding duplication, developing digitally native business processes, and focusing on the challenges of legacy contracts. Security and privacy must be prioritised on every level.

2 | **Standardise**, using commodity hardware or, preferably, cloud-based services to build **government as a platform**. This move away from bespoke solutions applies to both internal and public-facing services.

3 | **Embrace reusable components** to assemble and distribute digital services that are quick to launch, affordable and accessible.
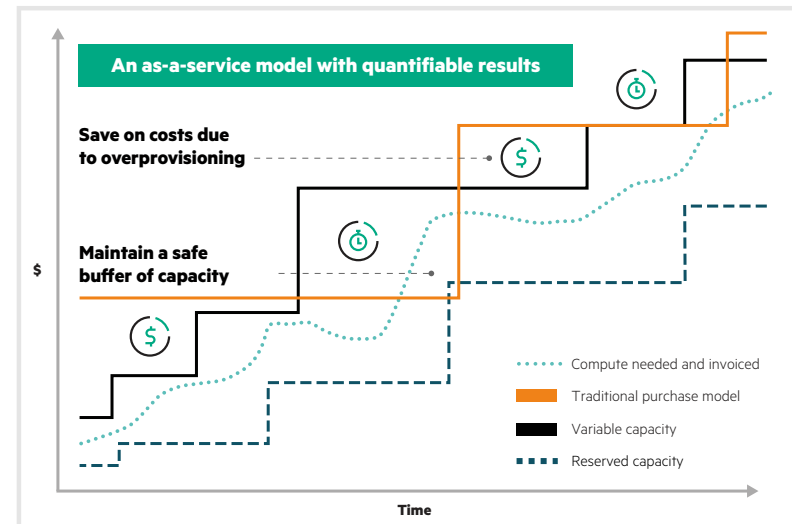
3. WHY HYBRID CLOUD?

The Government Digital Service has published a Cloud Guide for the Public Sector noting that "it is important that you know how to choose between a single, hybrid or multi-cloud solution and when you need to consider cloud concentration risk."

There are four key reasons to consider a hybrid cloud solution:

- **Mobility**: Mobile phone-based technology enables local governments to deliver data and services to employees and citizens, whenever and wherever they are needed. **Hybrid cloud systems provide the infrastructure for rapid and flexible implementation** of 24/7 citizen services and remote tools, including self-service apps, to meet growing demand—while at the same time freeing up support workers to serve the most vulnerable. Efficiently run on multiple cloud stacks—in the data centre, across public clouds, and at the edges—hybrid cloud delivers open, flexible, and consistent cloud experiences everywhere.

- **Costs**: With budgets under the microscope, managing costs means taking a long-term view when balancing risks against returns. A "public cloud first" strategy may not always be feasible or cost-effective, especially for legacy applications. Hybrid cloud services help IT managers optimise existing investments and data centres, while also providing expansion capacity.

- **Security and Privacy**: A one-size-fits-all cloud approach often fails to cover the specific needs of each application—and mapping your applications to the most suitable IT environment can be tricky without the right strategy. A hybrid cloud strategy that offers the right mix of public and private, on-premises and off-premises, can deliver both the flexibility and the security that's needed.

- **Growth with flexibility**: Computing demand is variable, but the trend is typically upwards as front-line services are digitised and citizen self-service increases. The right mix of on-premises, private and public cloud services can eliminate costly overprovisioning while also ensuring there is always enough capacity to meet demand—without compromising on data privacy and security.

An as-a-service model with quantifiable results

Save on costs due to overprovisioning

Maintain a safe buffer of capacity

$

Compute needed and invoiced

Traditional purchase model

Variable capacity

Reserved capacity

Time

4. THREE HYBRID CLOUD CHALLENGES

CHALLENGE 1

OPTIMISING WORKLOAD PERFORMANCE IN REAL TIME

Hybrid cloud has been tested in the proving grounds of the largest enterprises, and is adopted with confidence by government. Optimised workload performance results in a better experience for users, and shorter time to value for economies and societies. But to achieve this, the server foundation of any hybrid cloud solution needs real-time performance tuning to ensure the best possible performance. Data-driven guidance also enables intelligent planning to speed workload migrations while controlling costs.

CHALLENGE 2

MAINTAINING A SECURE INFRASTRUCTURE

Even with performance and flexibility requirements met, a significant IT hurdle remains: security. The threat of cyber-assault is increasing exponentially, and hackers are getting more sophisticated with every wave of attack. Just protecting software and networks is no longer enough. Security must take a 360° approach—a holistic view that extends through the entire lifecycle of the server. The data centre must be equipped to detect threats, protect against attacks, and recover with intelligent tools and options that accelerate the path back to normal operations.

CHALLENGE 3

TAKING A PROACTIVE STANCE

Under pressure to do more than ever before within smaller budgets, IT teams in local government must be proactive, anticipate demand, and be ready with the flexibility and capacity to meet stakeholder needs in moments, not days or weeks. Server monitoring and management must be simplified, and deployment and provisioning automated, so people are free to focus on strategic initiatives that create real value. This starts with a server intelligent enough to collect information on its own operations, and then share it through standards-based API to tools for higher-level management, optimisation, and orchestration.

5. THE HPE APPROACH

Hybrid cloud success requires a flexible software-defined approach, building on a foundation of intelligence that begins with the server. HPE ProLiant with HPE InfoSight is the ideal intelligent compute foundation for hybrid cloud, delivering unmatched workload optimisation, security and automation, all available as-a-service.

WORKLOAD OPTIMISATION

Foundational intelligence transforms IT with insights that optimise workload performance, placement, and efficiency, delivering better outcomes faster.

WORKLOAD MATCHING

Workload matching, a standard feature on HPE ProLiant, encapsulates decades of HPE performance engineering expertise into a set of preconfigured profiles. Use these profiles to tune BIOS settings and precisely match server resources to workload requirements. Workload matching eliminates the trial-and-error—and risk—of server tuning, delivering the performance and efficiency of a server ideally suited to its workload tasks.

WORKLOAD PERFORMANCE ADVISOR

Changes in work requirements and workload characteristics can require adjustments to server resources. Workload Performance Advisor complements workload matching, providing real-time operational feedback on server performance, as well as recommendations for fine-tuning BIOS settings to optimise for changing business needs.

HPE ONEVIEW

HPE OneView is the foundation of today's software-defined infrastructure, helping IT deploy infrastructure faster, simplify lifecycle operations, and increase productivity. It lets IT compose workloads like code, increasing agility, enabling predictability and compliance. With HPE OneView, customers can orchestrate their infrastructure from core to cloud by integrating with partner cloud management platforms.

HPE RIGHT MIX ADVISOR

Built on the experience of over a thousand hybrid cloud engagements, HPE Right Mix Advisor delivers data-driven guidance to quickly and confidently move workloads to the right mix of hybrid cloud platforms. This ensures optimised performance to meet government-specific needs while reducing migration time from months to weeks and slashing costs as much as 40%.

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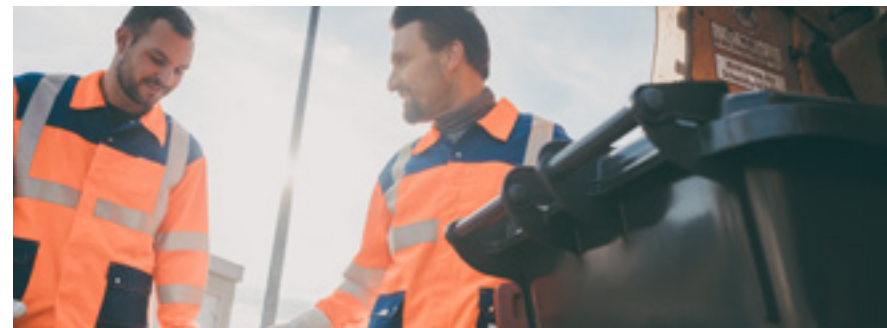
6. PROLIANT, INFOSIGHT AND INTEL—A POWERFUL TRIO

The perfect foundation for today's hybrid cloud in the public sector, the HPE ProLiant Family includes tower and rack solutions for any requirement, from small, on-premises deployments to countrywide hybrid cloud architectures in large local government systems. HPE ProLiant servers are secure, intelligent and easy to manage—and HPE Infosight is included as standard. Providing early warning of problems and failures before they happen, HPE InfoSight reduces hands-on maintenance by 85% and prevents downtime by predicting up to 86% of problems before they happen.

360° SECURITY
We embed whole lifecycle security from the supply chain up, with the HPE Silicon Root of Trust, server configuration lock and security dashboard, right through to secure decommissioning and recycling at end of life.

SEAMLESS BACKUP AND RESTORE
ProLiant servers with InfoSight include automatic firmware recovery to help you return to the last 'good state' in event of a breach. Server restoration at scale enables IT managers to get up to 10,000 servers back online with a single click.

INTEL INSIDE
HPE and Intel® High-Performance Computing Alliance is a strategic partnership that brings high-performance computing to organisations of all sizes. Now, local governments can leverage high-performance computing to sustain regular operations and drive innovation, whether they're in small towns or large metropolitan centres.

7. GOVERNMENT-ONLY PRICING

The agreement between HPE and the Crown Commercial Service (CCS) makes it faster and easier than ever before for local government to access essential infrastructure quickly.

Get started in as little as 24 hours after you place your order.

> **Serve today. Build tomorrow,**
> **with Hybrid Cloud from HPE.**

HPE + Local Government = Always on, always learning, always improving.

KEY CONTACTS

David Keigher, HPE Public Sector Leader, david.keigher@hpe.com

Buy HPE with confidence because:

- HPE's circular economy approach drives more effective use of energy and materials.
- HPE ProLiant Gen10 servers remain the most secure, intelligent and energy-efficient on the market.
- We have best-in-class people, technology and partners for **complex AI and analytics** workloads.

PARTNERSHIPS THAT EMPOWER YOUR POTENTIAL.

At HPE we have one primary goal: to enable you to create solutions that really matter and deliver tangible business value. We're innovators at heart, passionate about people and technology. Our thinking is both/and, not either/or. That's why we partner with the world's leading cloud providers to make sure we can deliver your best mix of cloud services.

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