Edge-to-Cloud Sovereignty
On your terms

Sovereignty and interoperability enablers of Public Sector Cloud adoption

euLISA Industry Roundtable, 11-12 June 2024

Hybrid by accident, not by design

The world is hybrid, but the **cloud experience is not everywhere**

67%

Edges	Data centers	Co-locations

33%

Public clouds

← workload moves →

Multi-gen IT | **Data sovereignty** | **Security & compliance** | **Data costs & control** |
Latency

Sovereignty implies
security by design

Provides a **secure cloud** experience

Infrastructure and services are based upon **zero trust principles**

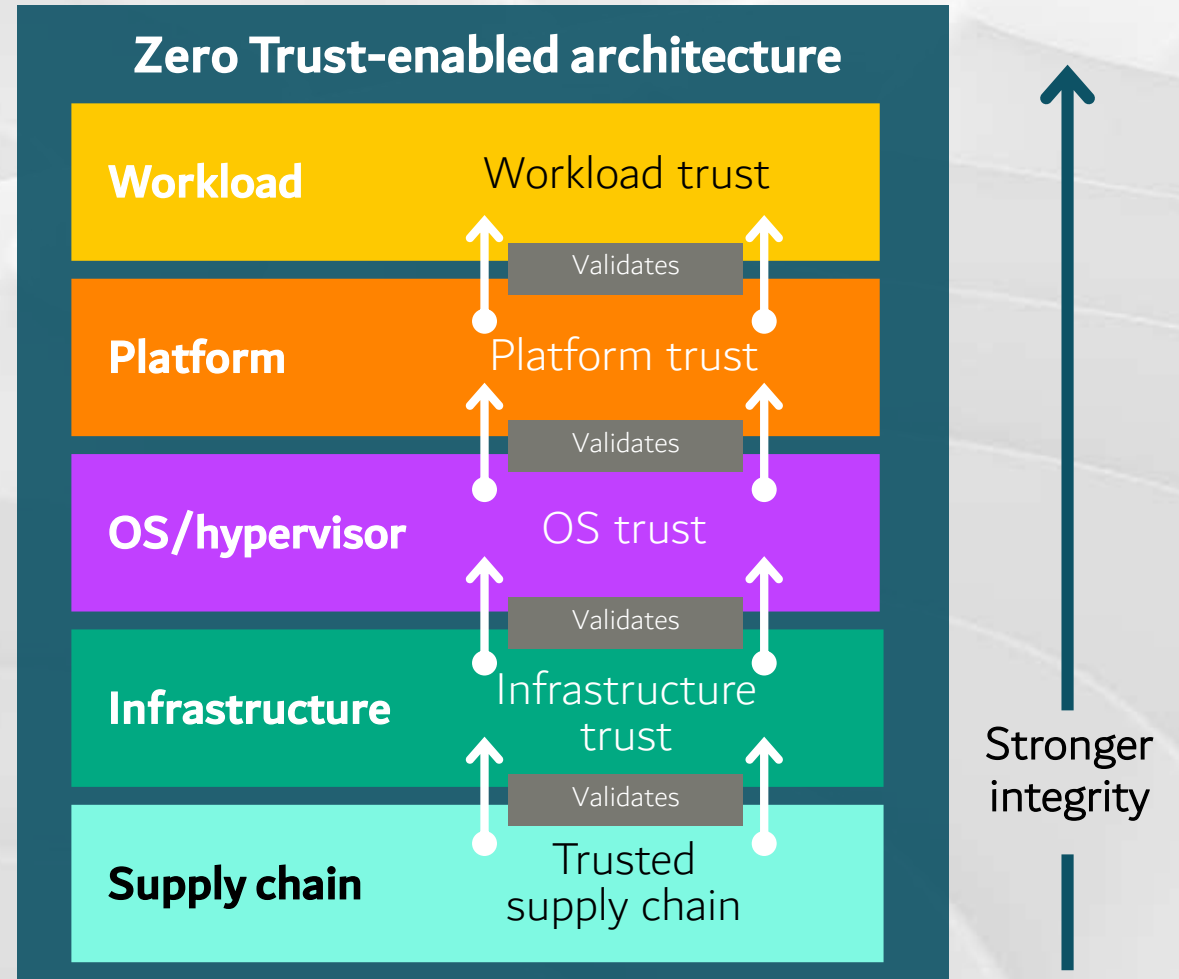Uses **identity** and **privilege** as a foundational principle

Separates service provider operations from customer workloads by default

Logs all management activity for audit purposes

Is a **custodian** for data in use, at rest, and in motion and supports customer BYOK (Bring Your Own Key)

Customers retain ownership of their data, always

Sovereignty implies
verifying integrity

Zero Trust-enabled architecture

Workload — Workload trust
Validates
Platform — Platform trust
Validates
OS/hypervisor — OS trust
Validates
Infrastructure — Infrastructure trust
Validates
Supply chain — Trusted supply chain
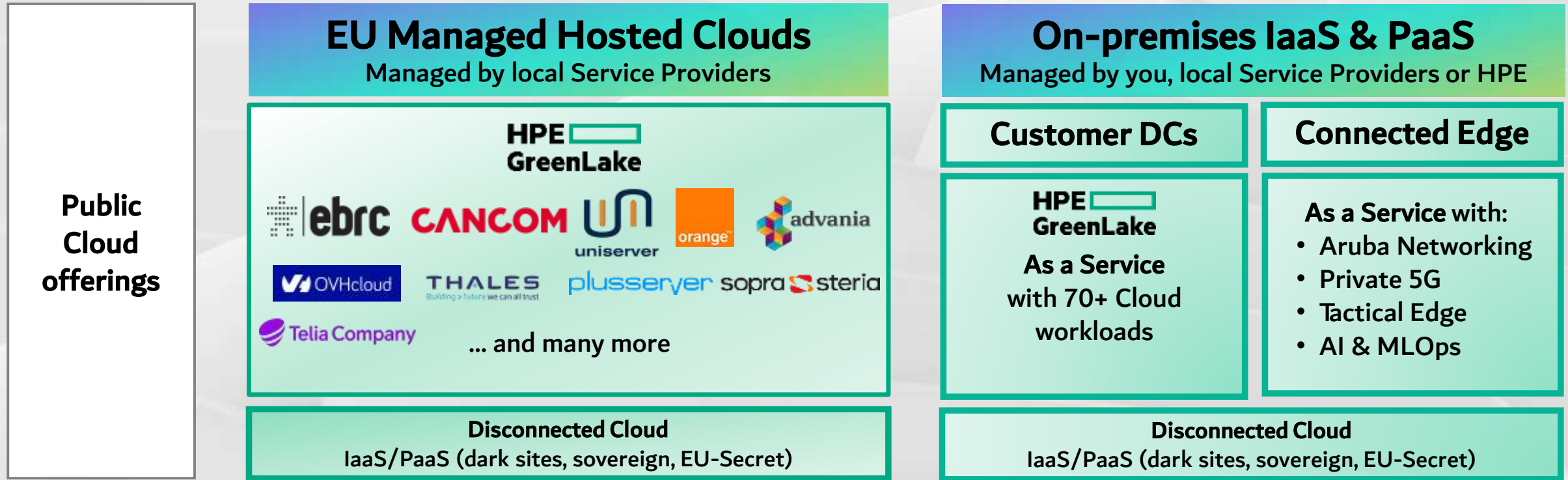
Stronger integrity

Every layer is validated
and protects **layer above**

4

Edge-to-cloud Sovereignty
Enabling the European cloud ecosystem on your own terms

Public Cloud offerings

EU Managed Hosted Clouds
Managed by local Service Providers

HPE GreenLake

ebrc · CANCOM · uniserver · orange · advania

OVHcloud · THALES Building a future we can all trust · plusserver · sopra steria

Telia Company

… and many more

Disconnected Cloud
IaaS/PaaS (dark sites, sovereign, EU-Secret)

On-premises IaaS & PaaS
Managed by you, local Service Providers or HPE

Customer DCs

HPE GreenLake

As a Service
with 70+ Cloud workloads

Connected Edge

As a Service with:
- Aruba Networking
- Private 5G
- Tactical Edge
- AI & MLOps

Disconnected Cloud
IaaS/PaaS (dark sites, sovereign, EU-Secret)

Interoperability of workloads across clouds

Microsoft · vmware by Broadcom · Red Hat · NUTANIX · SAP · veeAM · COMMVAULT · SCALITY

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Reference cases and successes with the Public sector

Belgian Police

Politie

When technology helps the police
to keep the city safe

Aleph Alpha

ALEPH ALPHA

LLM for highly regulated
industries and governments with
explainable, auditable AI and
Data sovereignty

Defense Information Systems Agency

experience to data centers

US National Security Agency

purpose-bui   AI solutions,
as a Service

Public Sector

FACULTY OF INFORMATION TECHNOLOGY CTU IN PRAGUE

COUNTY OF ESSEX NEW JERSEY

CRIANN

KU LEUVEN

SGMAI SECRETARIA GERAL — MINISTÉRIO DA ADMINISTRAÇÃO INTERNA

Pošta Slovenije

Seirbhís Phríosúin na hÉireann
Irish Prison Service

ITDZ BERLIN

SANTA CASA Misericórdia de Lisboa

RMIT UNIVERSITY

University of HUDDERSFIELD
Inspiring tomorrow's professionals

... and more

KEY TAKEAWAYS

Mission critical systems: HPE supports mission critical Public sector systems evolving towards a Hybrid cloud model. HPE is a Day-1 contributor to Gaia-X interoperability framework

Sovereignty on your own terms: Sovereignty has different definitions and applications that require specific platforms and operating models that can adapt to evolving regulatory landscapes

Open standards: Use of open standards and leading ISVs for interoperability (e.g. support of multiple container platforms and multi-cloud)

Integrity and traceability: Starting from the supply chain, apply Zero trust security from silicon to cloud

Switchability: HPE GreenLake standards endorsed by many EU-owned Service providers facilitate supplier switchability

Interoperable: Ability to integrate HPE and non-HPE components to support interoperability of systems. Starting from Greenfield or Brownfield for investment protection

Freedom of choice: Operating models managed by you, your trusted partner or HPE

Unified Cloud Experience : Operating model with workload specific architecture and specific SLA's

HPE GreenLake

You are welcome to discuss further with us and receive our Public Sector white papers :

- Supporting the Digital Transformation in the Public Sector
- Data Sovereignty – the new digital landscape
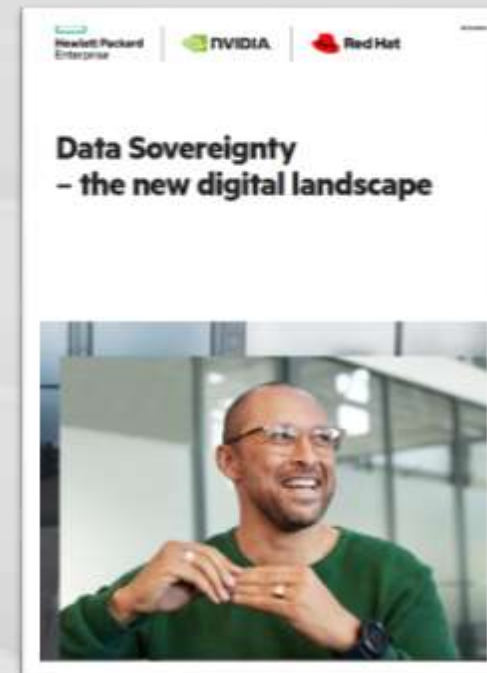
Thank you

HPE.com/be/en/greenlake.html