



Connect

Darmstadt

18-19 Nov 2025

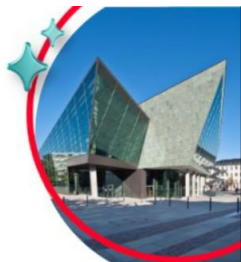
Kontrolle zurückgewinnen!

Wie Open Source Ihre digitale Souveränität stärkt



Armin Warda

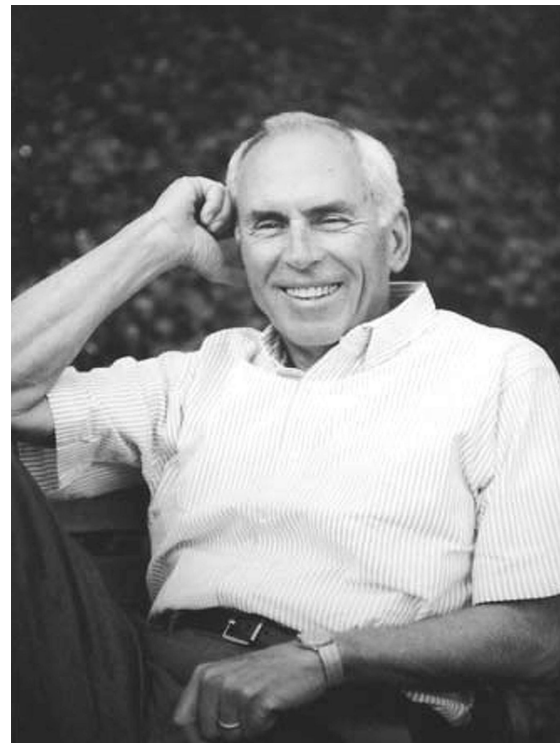
EMEA FSI Technology Lead
Red Hat GmbH



Red Hat
FSI
Industry
Vertical

Roy Amara 1925 – 2007

**“We tend to overestimate
the effect of a technology
in the short run and
underestimate the effect
in the long run”**



Starting off at Stanford Research Institute, Roy Amara joined with others to create the not-for-profit think-tank, the Institute for the Future (ITF). Whether it was hiring scientists to study how ARPANET (a predecessor of the internet) was used, or pioneering discussions on global climate change as early as 1978, Amara was constantly looking at the cutting-edge – and trying to understand how we as humans responded to it.

**"We tend to overestimate
the effect of a technology
in the short run and
underestimate the effect
in the long run"**

**Gen
AI**

**"We tend to overestimate
the effect of a technology
in the short run and
underestimate the effect
in the long run"**

- Autonomous AI agents refining their decision-making over time without need for human oversight.
- Highly specialized diagnostic systems in industries like healthcare, IT support, finance.
- Enterprise AI assistants that dynamically adapt to user needs beyond rigid RAG-based solutions.
- AI-powered software engineering tools that self-debug and optimize code based on failure reports and performance feedback.

"We tend to overestimate
the effect of a technology
in the short run and
underestimate the effect
in the long run"

Hyper Scaler Cloud

Bugs happen

The October 24th global AWS outage



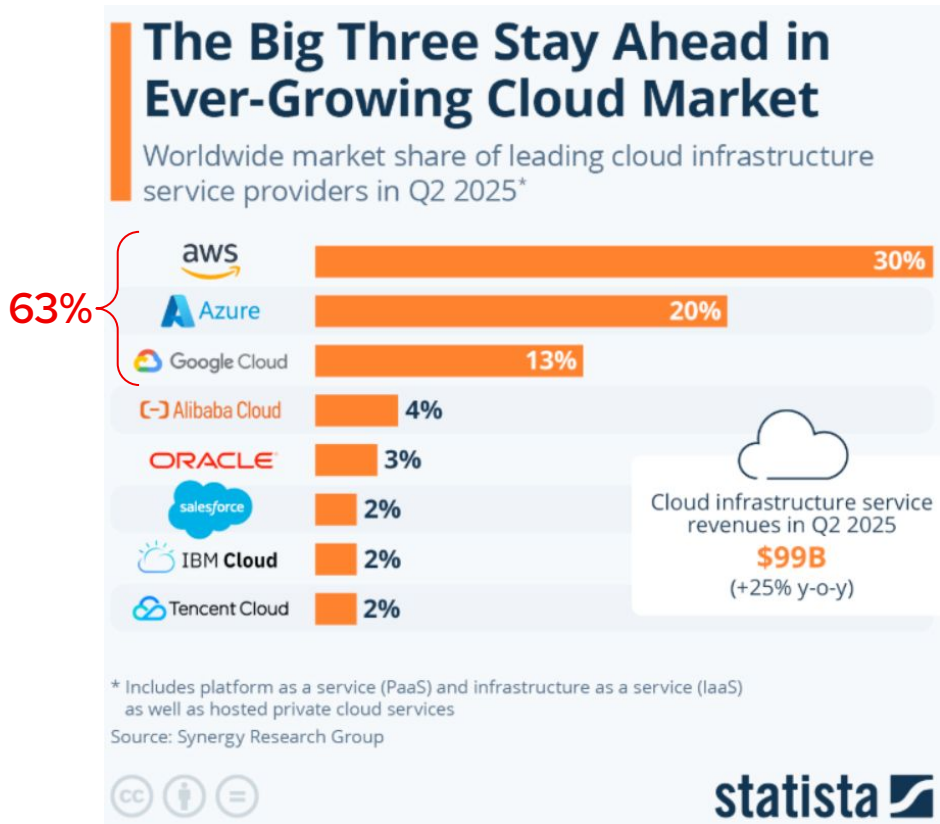
Platforms including

- **Signal, Snapchat, Roblox, Duolingo**
- as well as services such as banking sites
- **Lloyds Bank, Halifax, Venmo Payments**
- and the
- **Ring doorbell, Eight Sleep smart bed**
- companies were some of the
- **2,000 companies affected**
- by the outage, according to DOWNDetector
- with more than
- **8.1m reports of problems**
- from users across the world.

Who has a say in defining recovery priorities, if not all customers can be brought back online at once?

"We tend to overestimate
the effect of a technology
in the short run and
underestimate the effect
in the long run"

Concen - tration Risk



Concentration Risk

Resilience bleeding into sovereignty: configuration errors happen

Google accidentally deletes investment fund from its cloud platform

Leadership

Google praises UniSuper's CIO after GCP error deleted \$124 billion firm's entire private cloud

Post-mortem praises Aussie fund's good third-party backups, "speed and precision" from CIO's team



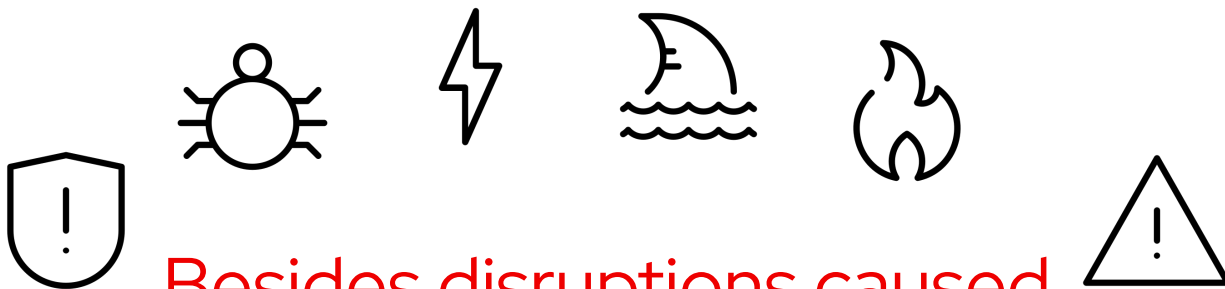
The Stack

May 27, 2024 - 2 min read

More than half a million UniSuper fund members went a week with no access to their superannuation accounts

- Duplication in two geos didn't help, because the whole GCP subscription was deleted
- Deletion grace period was also misconfigured

UniSuper was able to eventually restore because they had **backups with another provider**



Besides disruptions caused



by defects, errors & cyber attacks,



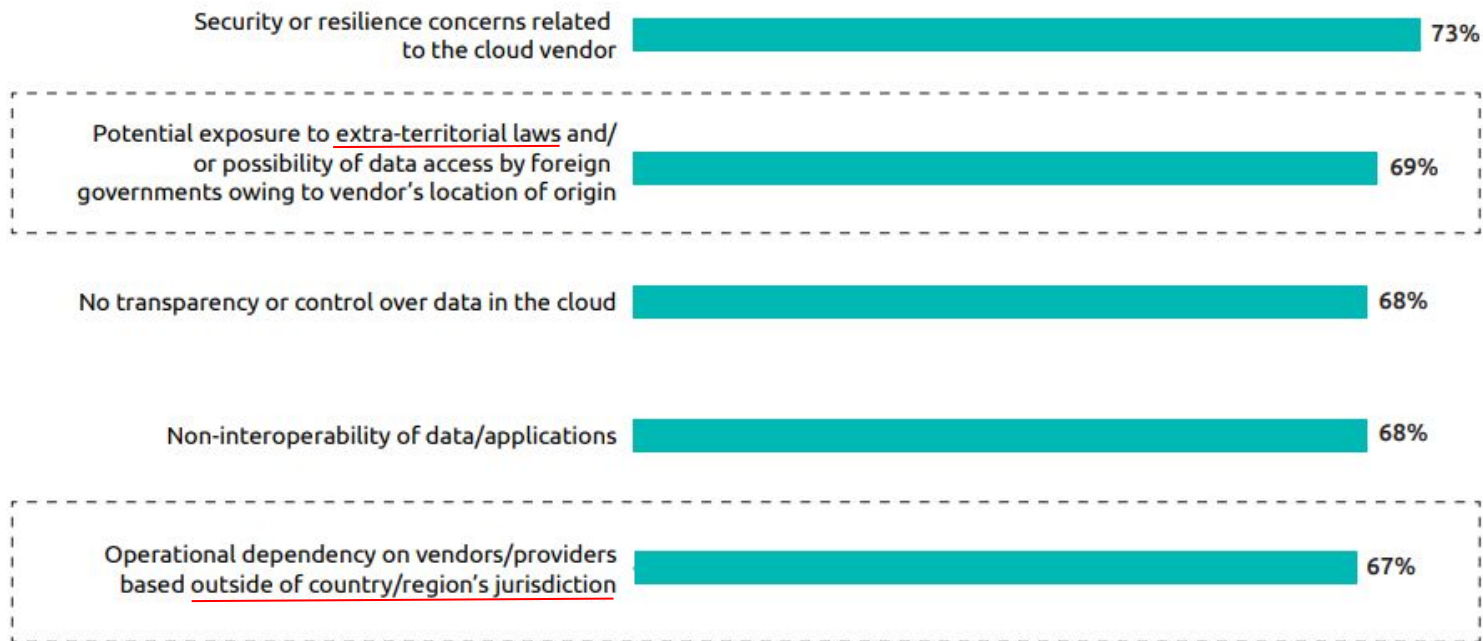
and data leakage, espionage,



there is another increasing concern...



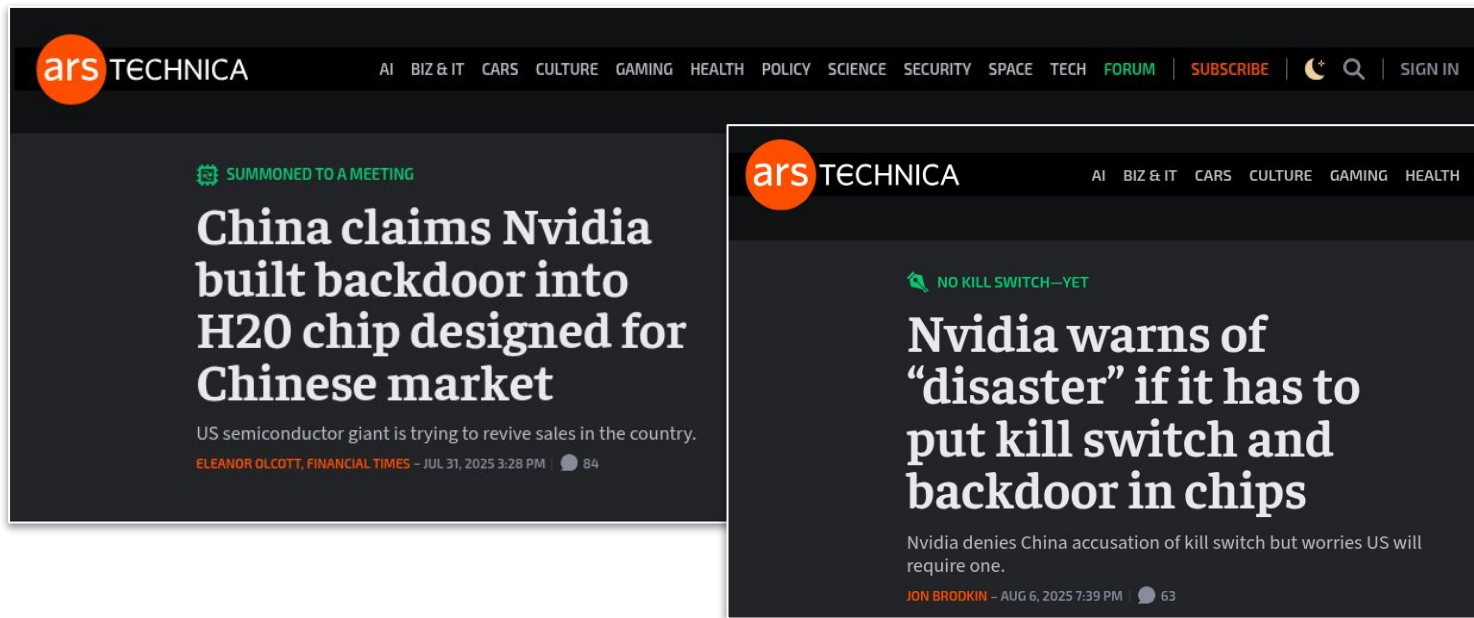
Digital Sovereignty -why?



Source: Capgemini Research Institute, Cloud Sovereignty Survey, May–June 2021, N = 1,000 organizations.

Back-doored, kill-switched, geo-fenced?

Is this just fake news? Spreading FUD* to damage business?



War bleeding into tech: kill-switched tractors

What John Deere did to Russian looters, anyone can do to farmers, anywhere.



Remote bricking of Ukrainian tractors raises agriculture security concerns

- Modern tractors are intelligent machines
- Hackable tractors are vulnerable to sabotage
- Tractors VIN-locks fueled the “right to repair” movement

Cyberwars bleeding into tech: Back-doored critical infrastructure

Rogue communication devices found in Chinese solar inverters and batteries



- “Backdoors in Chinese components raises **energy security** concerns”
- “China Holds a Kill Switch to **European Power Grids**”
- “**US** energy sector at risk, as Chinese inverters are under investigation for suspicious communication gear”

Owned by Norway 



Controlled by China 



Owned by Norway 



850 Yutong electric-busses



Controlled by China 

you are able to execute
CONTROL



*Switch-off
Outlook for the EU!*

*The EU might consider a
US Digital Services tax.*

*...but, but how can I
then print my eMails?*



Could this really happen?

Geopolitics bleeding into tech: immediate service denial

Sanctions make it impossible for Microsoft to continue providing cloud service to the ICC's chief prosecutor

Exclusive: US could hit entire International Criminal Court with sanctions soon

By Anthony Deutsch, Humeira Pamuk and Stephanie van den Berg

September 23, 2025 4:45 PM GMT+1 · Updated September 23, 2025



British ICC chief prosecutor lost access to email and has bank accounts frozen after Trump sanctions on top court



The US imposed sanctions on Karim Khan in February 2025 in response to the ICC issuing arrest warrants for Israeli prime minister Benjamin Netanyahu and his former defence minister Yoav Gallant in November.

Reuters: "Microsoft's email block a wake-up call for digital sovereignty"

How did Russian (owned) banks deal with US sanctions impacting IT delivery?

Amsterdam Trade Bank

GTR Global Trade Review

NEWS EVENTS MULTIMEDIA PUBLICATIONS AWARDS DIRECTORY

All News | Global | On the Move | Africa | Americas | Asia | **Europe** | Mena | FI

Solvent but bankrupt: how sanctions felled Amsterdam Trade Bank

EUROPE / MAY 31, 2022 / BY JACOB ATKINS SHARE THIS ARTICLE: f t in

The writing was on the wall for the Amsterdam Trade Bank (ATB) when, after being sanctioned by the US in early April over its Russian ownership, Microsoft yanked the company's and staff's access to their email accounts.

The decision by the US software giant and notice of a similar planned move by Amazon, which provided cloud services to the Dutch lender, and other technology providers show how sanctions can cripple a bank's operations beyond the ramifications for its links to the financial system.

A Dutch court placed the bank – described at the time as a solvent and “healthy” business – **in the hands of bankruptcy trustees** on April 22, weeks after the US and UK imposed sanctions on the lender and its Russian parent company, Alfa Bank.

Sberbank

RSS

TADVISER
Government. Business. IT

Model Studio CS: How to use BIM to give new impetus to the development of the fuel and energy complex

Search News

Sberbank transferred 43 thousand servers to its own operating system

Customers: Sberbank
Moscow, Financial Services, Investments and Auditing

Contractors: Sberbank-Technologies (Sber Tech)

Product: Platform V SberLinux OS Server

Project date: 2023/01

Sberbank has fulfilled the plan to migrate the bank's servers to its own operating system - more than 43 thousand servers have been transferred to Platform V SberLinux. Sberbank announced this in its annual report for 2023, TAdviser discovered.

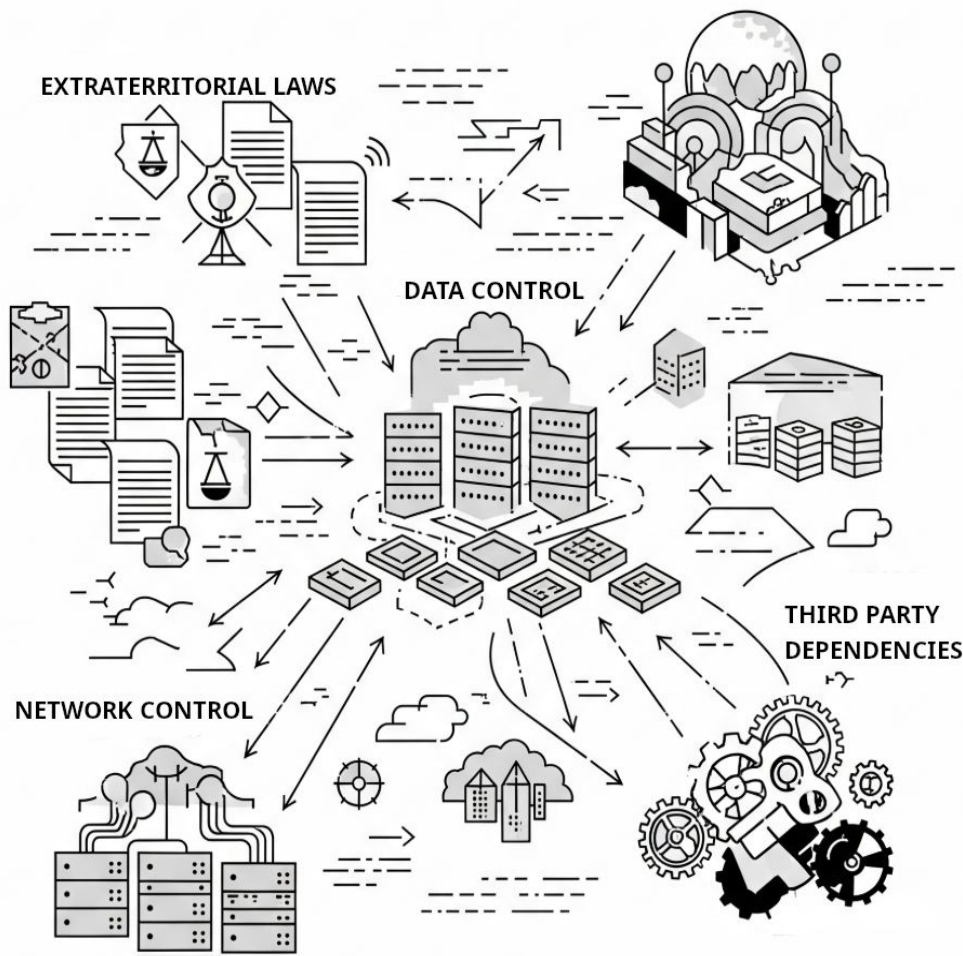
The Platform V SberLinux OS Server operating system is based on open source solutions and is designed to manage enterprise servers, as well as create an efficient and secure environment for executing workloads of server applications, databases, distributed computing, containerization and virtualization, artificial intelligence, etc.

The solution allows you to import substitution of popular foreign Servers based on Red Hat Enterprise Linux (RHEL), which have left the Russian market.

What is Digital Sovereignty?



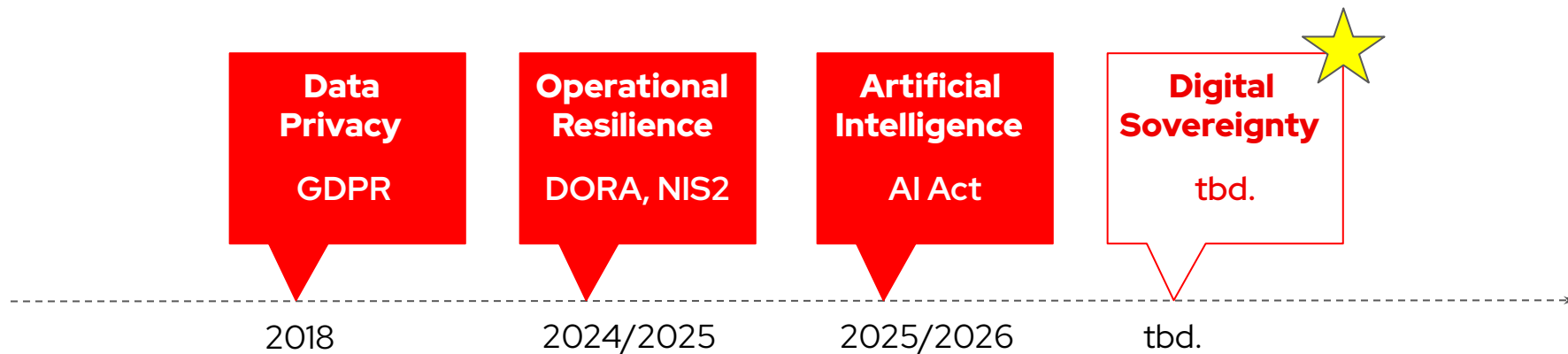
Digital sovereignty refers to the ability to have control over your own digital destiny – the data, hardware and software that you rely on and create.



- Digital sovereignty is a nebulous concept
- Third-party dependencies and vendor lock-in pose risks
- Evolving regulatory landscape and extraterritorial laws create challenges

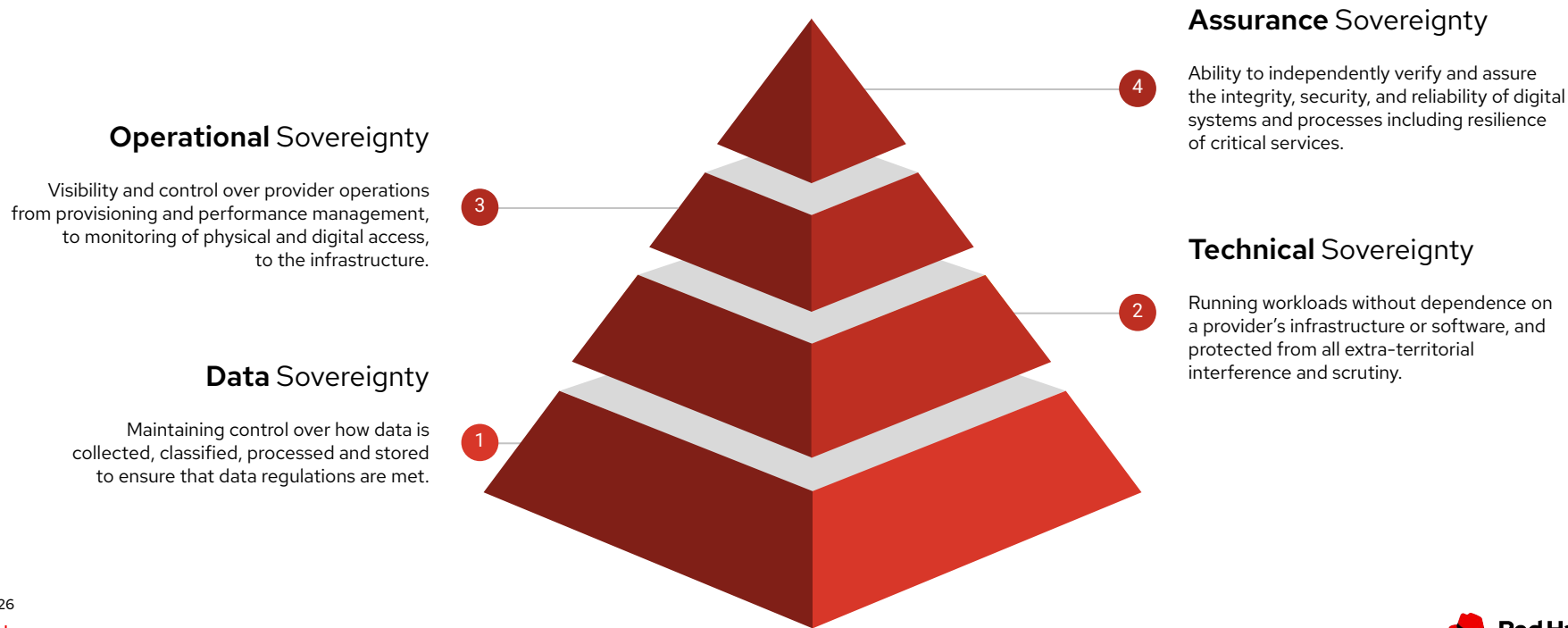
IT and Cloud usage is being reshaped by emerging regulatory requirements

The European Union is pushing ahead with regulations



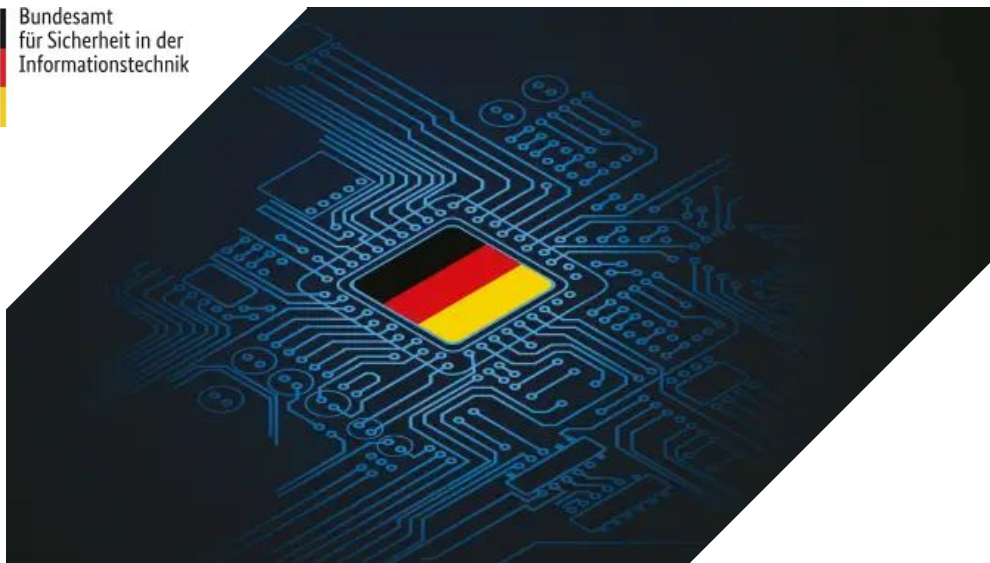
The Dimensions of Digital Sovereignty

Digital Sovereignty is a continuum, reflecting a range of practices and policies to manage and control digital assets, data, and technology infrastructure



Digital Sovereignty – a pipe-dream?

BSI President Plattner (12.8.2025): “Digital sovereignty for Germany is currently unattainable”



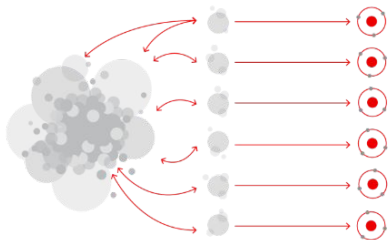
Public sector and companies remaining dependent on non-European technology:

- "Wir haben technologische Abhängigkeiten an ganz vielen Stellen." Es sei unrealistisch zu glauben, "dass wir das kurzfristig alles selbst können werden", sagt Plattner.
- "alles selbst" ~ DIY?
- **Buy European?**
- **Build European?**

There's a better way

Open Development & Support Model

Enterprise Open Source



- built transparently in the open
- built and controlled by **global** communities
- long-term enterprise support by commercial companies such as **Red Hat**

Open Deployment & Operation Model

Open Hybrid Cloud



use **multiple** computing environment, and keep the option to switch environments

- US Hyperscaler Clouds
- regional Sovereign Clouds
- on-premise Data Centers, Edge locations

use **Confidential Computing***



Confirmed Sovereign Support for European Union (CSS-EU)



- **Dedicated EU-Citizen staffing** Access to support expertise delivered by verified EU citizens operating solely within the 27 EU member states.
- **Localized operational control** Reinforces that EU technical support oversees the provision of support services.
- **24/7 in-region availability** Provides round-the-clock technical support delivered within the EU region, aligning with sovereignty and service continuity requirements.
- **Expansive local ecosystem** Red Hat's approach is further amplified by its robust ecosystem of more than 500 EU cloud partners, many of whom already offer sovereign clouds. This powerful network helps strategically reduce reliance on non-EU hyperscalers, providing customers with robust, local alternatives that align directly with regional regulatory policies and economic priorities.
- **Foundation for sovereign cloud** Red Hat Confirmed Sovereign Support is built to underpin Red Hat's broader open hybrid cloud and AI portfolios, enabling organizations to deploy, run and maintain both current and future IT estates independently across any sovereign cloud environment.



Navigating the EU's stringent regulatory and compliance frameworks demands an open source-driven, transparent, auditable foundation and a local operational support model. Red Hat Confirmed Sovereign Support offers exactly that: a fully EU-anchored support experience, run by EU citizens for EU organizations backed by the trust of our open hybrid cloud portfolio.

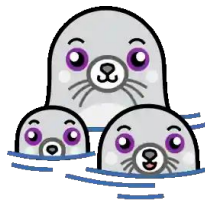
Chris Wright

CTO and senior vice president, Global Engineering, Red Hat

An example of Assurance Sovereignty

Reproducible Container Builds

- **RHEL 10.1** and **RHEL 9.7** both feature reproducible builds for container tools **Podman** and **Buildah**.
- Previously, container images based on the same inputs still had slight variations, such as different timestamps.
- With this update, container images built with **identical content** will yield **identical images** with no timestamps or other metadata creating inconsistencies.
- That's a boost for **security**, **reliability**, **efficiency**, and **assurance** sovereignty



Reproducible Builds

Reproducible builds are a set of software development practices that create an independently-verifiable path from source to binary code.

A build is reproducible if given the same source code, build environment and build instructions, any party can recreate bit-by-bit identical copies of all specified artifacts.

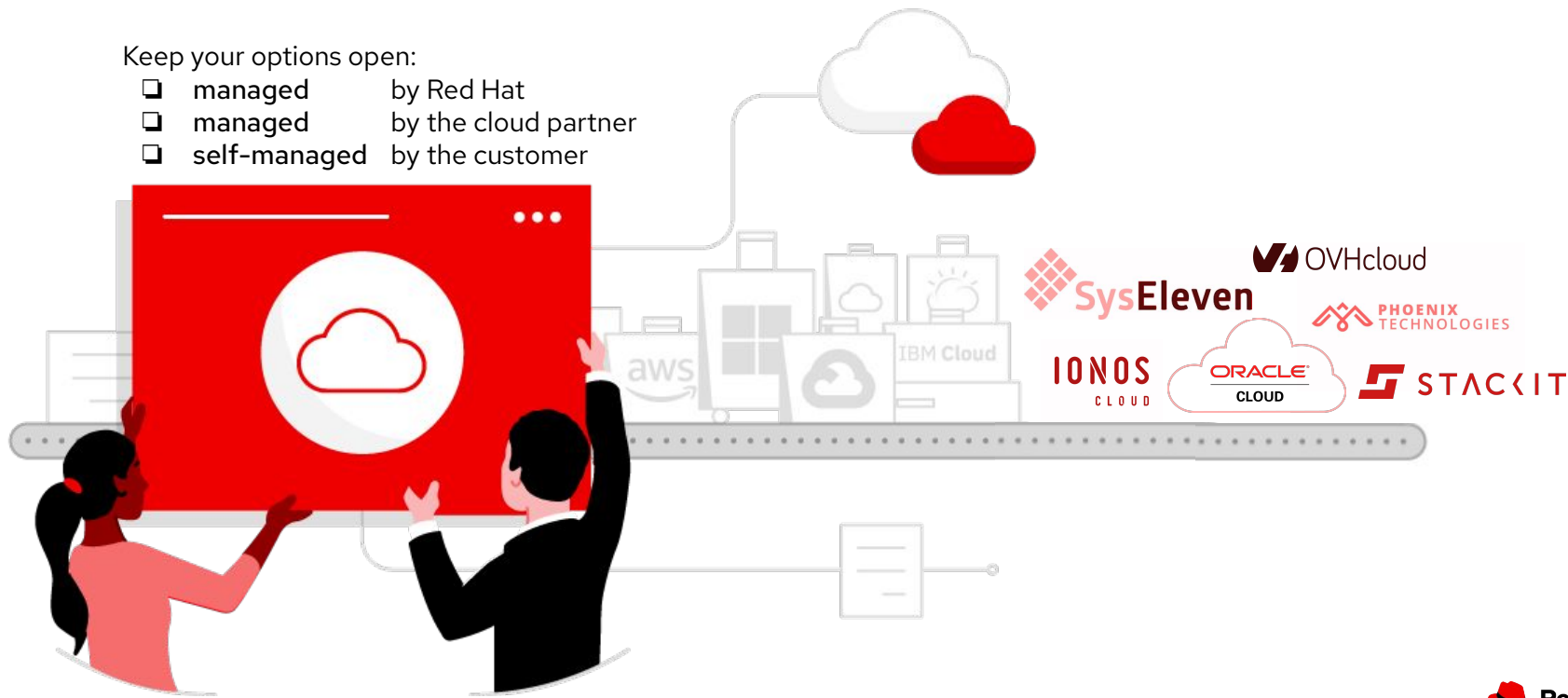
<https://reproducible-builds.org/>

Open Hybrid Cloud

Use any hyperscaler, sovereign or private cloud, managed or self-managed

Keep your options open:

- ☐ managed by Red Hat
- ☐ managed by the cloud partner
- ☐ self-managed by the customer



The Red Hat Difference: **Keep Your Options Open!**

Red Hat can help customers improve **operational resiliency**.

Red Hat platforms are **cloud-independent** and provide **application portability**

Red Hat is
Open Hybrid Cloud

Open Source and its community approach helps customers to **innovate** while giving much more **control over security & risk** management.

Red Hat is
Open Source

Red Hat products are open source and use open standards offering **freedom of choice**.

Open Source does not
lock-in customers



Connect

Thank you



linkedin.com/company/red-hat



facebook.com/redhatinc



youtube.com/user/RedHatVideos



twitter.com/RedHat



Red Hat
FSI
Industry
Vertical