

## Digital Sovereignty and the Cloud: Everything is at stake

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# Introduction of myself

- CEO Univention GmbH
- Chairman of the Board of the Open Source Business Alliance
- Board member of APELL



# Promise of the Cloud





# New, innovative possibilities



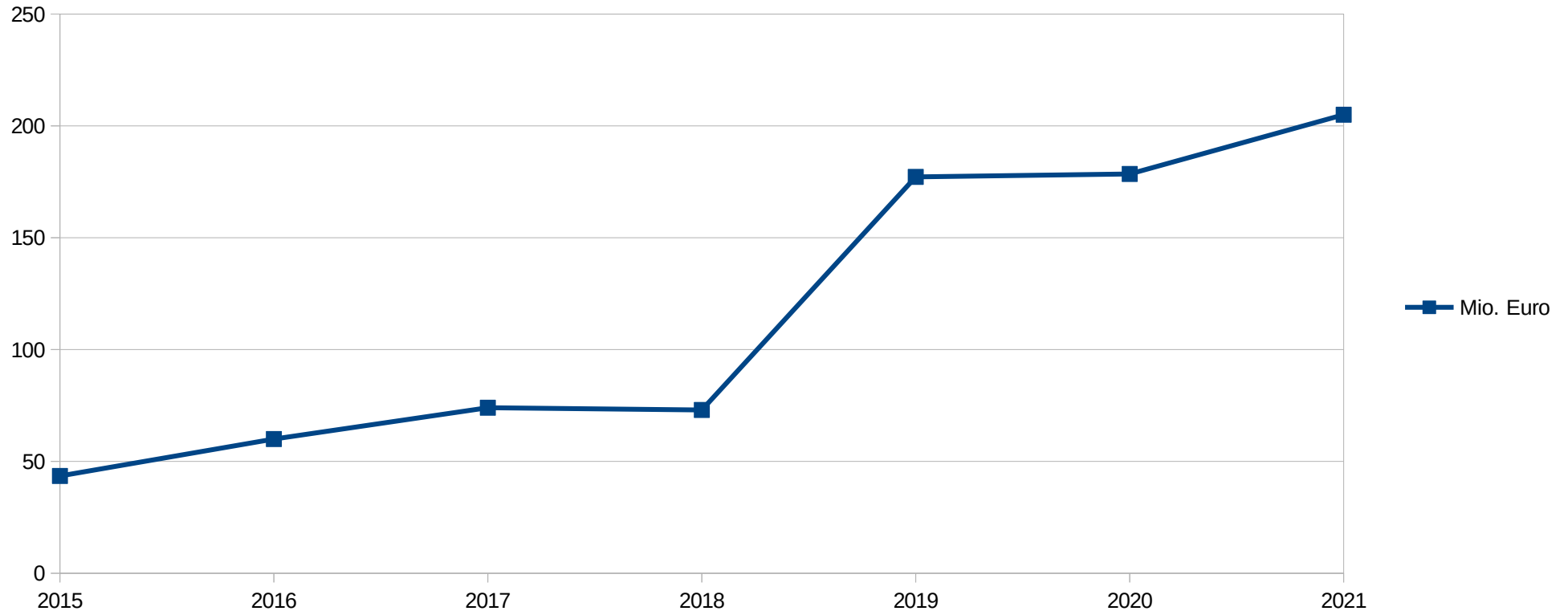


Google Cloud



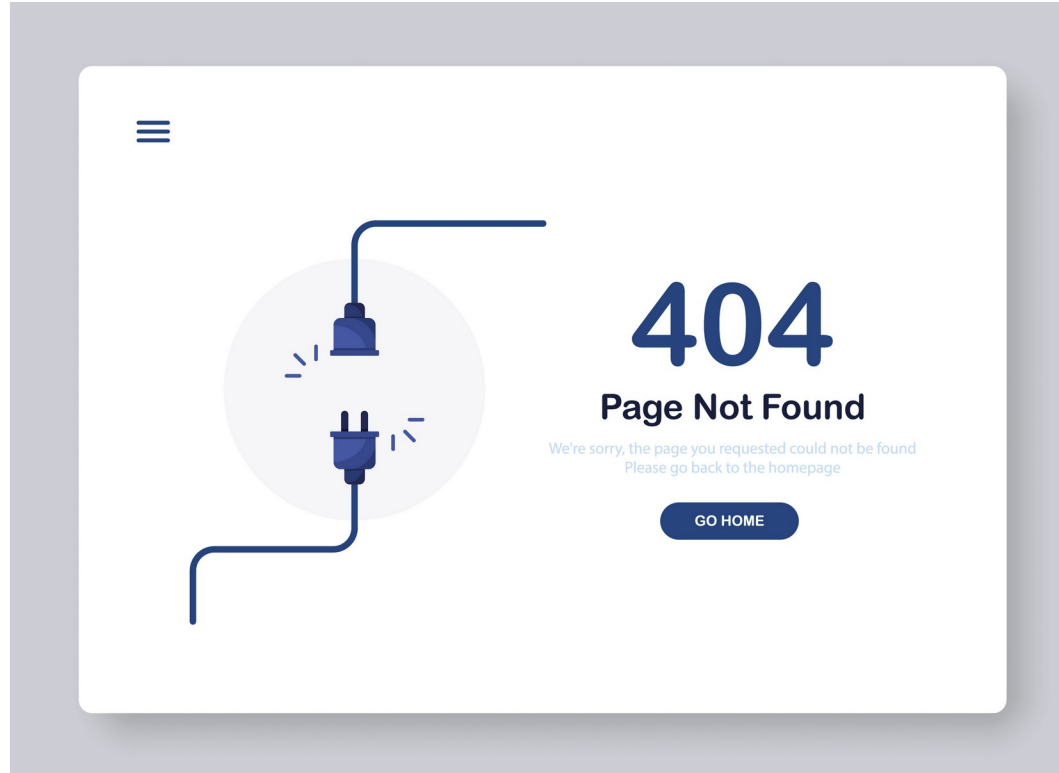
Azure

# Microsoft licence costs for Federal Administration



# Data Security: Cloud Act



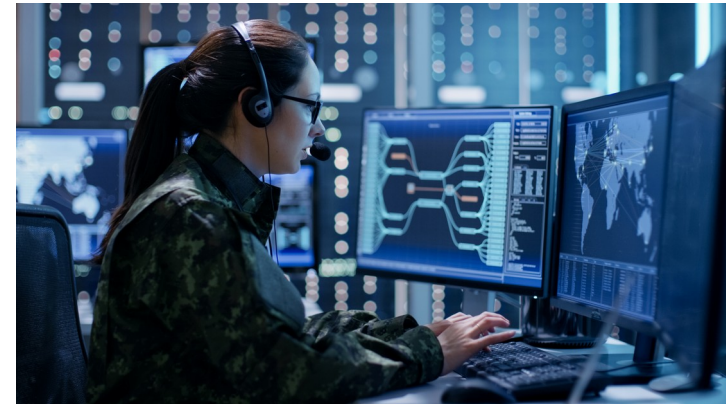




# Losing ability to shape and innovate



# Our lives become more and more digitalized



# The importance of independence in crisis



Source: Financial Times online, 21.3.2022: <https://www.ft.com/content/b32b4fc-608c-46fa-944b-0b3fe8642919>

## Biden congratulates France's Macron on re-election win

Reuters

1 minute read



U.S. President Joe Biden meets with French President Emmanuel Macron ahead of the G20 summit in Rome, Italy October 29, 2021.

WASHINGTON, April 25 (Reuters) - U.S. President Joe Biden congratulated French President Emmanuel Macron on his re-election, the White House said on Monday following Macron's victory over far-right rival Marine Le Pen. [read more](#)

Source: <https://www.reuters.com/world/biden-congratulates-frances-macron-re-election-win-2022-04-25/>



## Le Pen calls French election loss a 'brilliant victory'



Issued on: 24/04/2022 - 21:42 Modified: 24/04/2022 - 21:40



Promising to 'carry on' her political career, the 53-year-old vowed that she would 'never abandon' the French after losing with around 42 percent of the vote. Christophe ARCHAMBAULT AFP

🕒 1 min

Paris (AFP) – French far-right leader Marine Le Pen hailed her score in presidential elections on Sunday as a "brilliant victory", despite her projected defeat to Emmanuel Macron.

Source: <https://www.france24.com/en/live-news/20220424-le-pen-calls-french-election-loss-a-brilliant-victory>

POLITICS • Analysis

## 'Genius,' 'Savvy': Trump reacts to Putin's moves on Ukraine exactly as you'd expect



By Philip Bump  
National correspondent

February 22, 2022 | Updated February 22, 2022 at 4:06 p.m. EST



President Donald Trump and Russian President Vladimir Putin give a joint news conference at the Presidential Palace in Helsinki on July 16, 2018. (Pablo Martinez Monsivais/AP)

Source: <https://www.washingtonpost.com/politics/2022/02/22/trump-reacts-putins-invasion-ukraine-exactly-you-d-expect/>

# “Dirty” Technologies



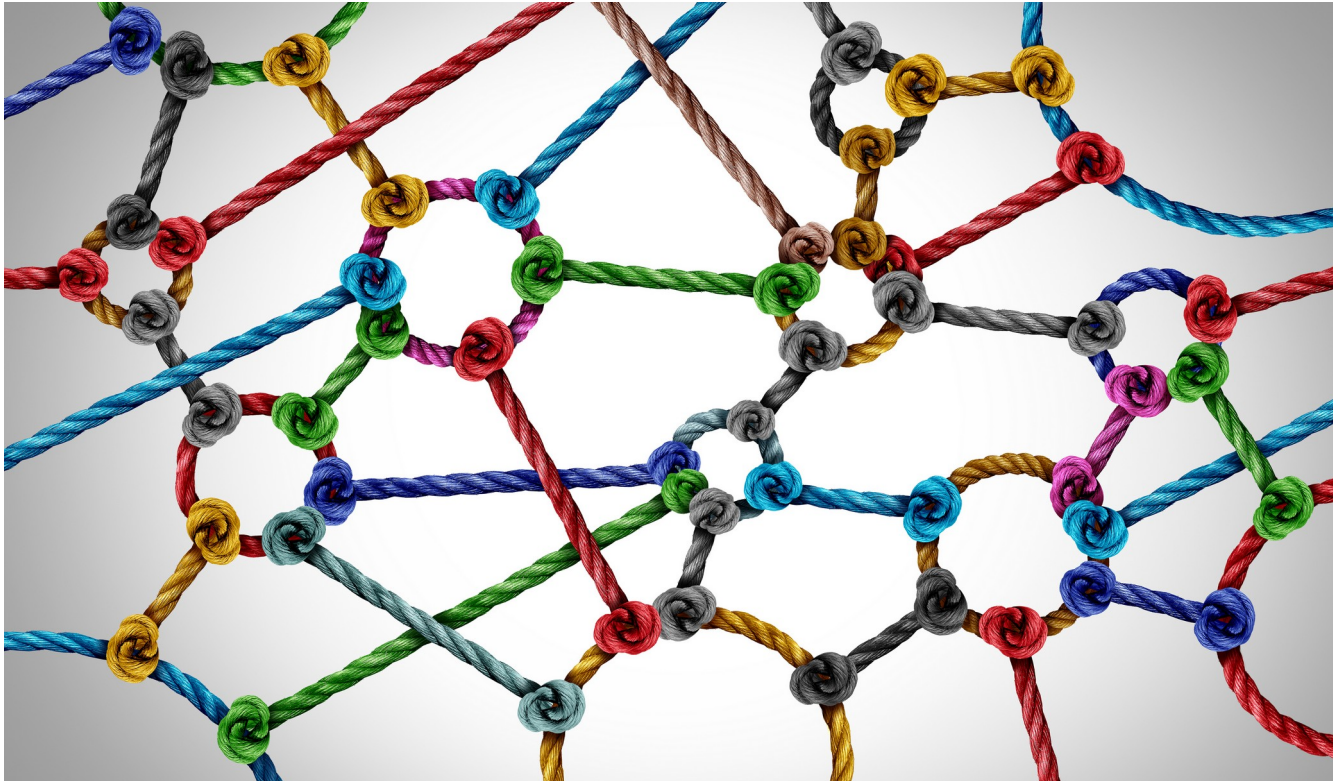


- **1.** Ability to decide what happens with self generated and stored data (**Data Sovereignty**)
- This is the basis for trustworthiness of communication
- **2.** Ability to act self-determined and **shape** and **innovate** the IT according to one's own vision and requirements
- So **Digital Sovereignty** is the ability to **control** and to **shape**
- But it does not mean autarky or protectionism!

## Five reasons for digital sovereignty

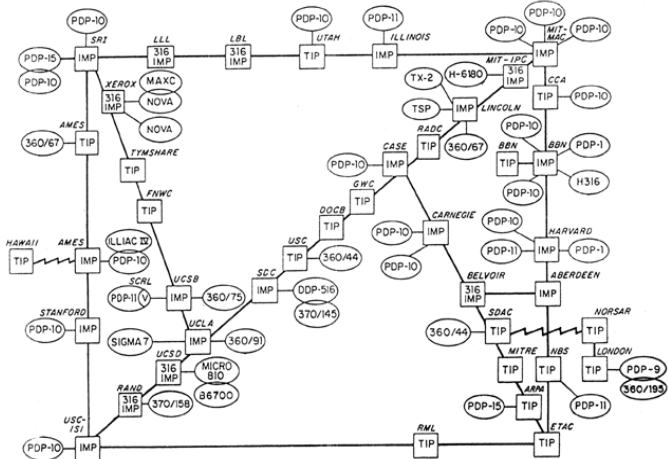
- **Reduction of Dependencies:** it's not about autarky or being cut off from world trade, but about being able to say "no"
- **Security:** protection of trustworthy communication and data only possible if the systems used can be considered secure
- **Innovation Capability:** involves creation of innovations of one's own - no doorkeepers to determine which changes are to be made and under what conditions
- **Competitiveness:** more and more processes depend on IT, realization of appropriate margins becomes increasingly difficult
- **Resilience:** in crisis, it is important to be able to take alternative paths; only possible if there are options for action and design

# Open Standards

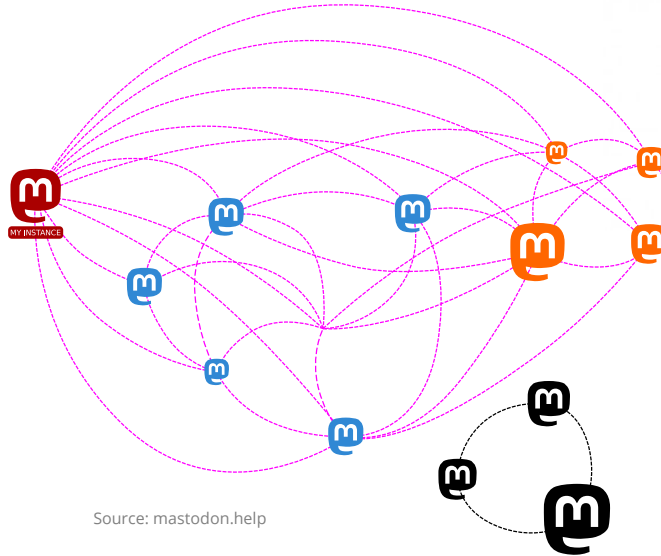


# Federation

ARPA NETWORK, LOGICAL MAP, SEPTEMBER 1973

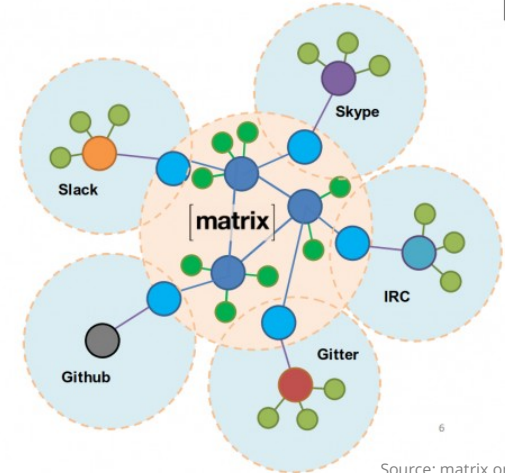


Source: <https://qz.com/860873/a-1973-map-of-the-internet-charted-by-darpa/>



Source: mastodon.help

[matrix]

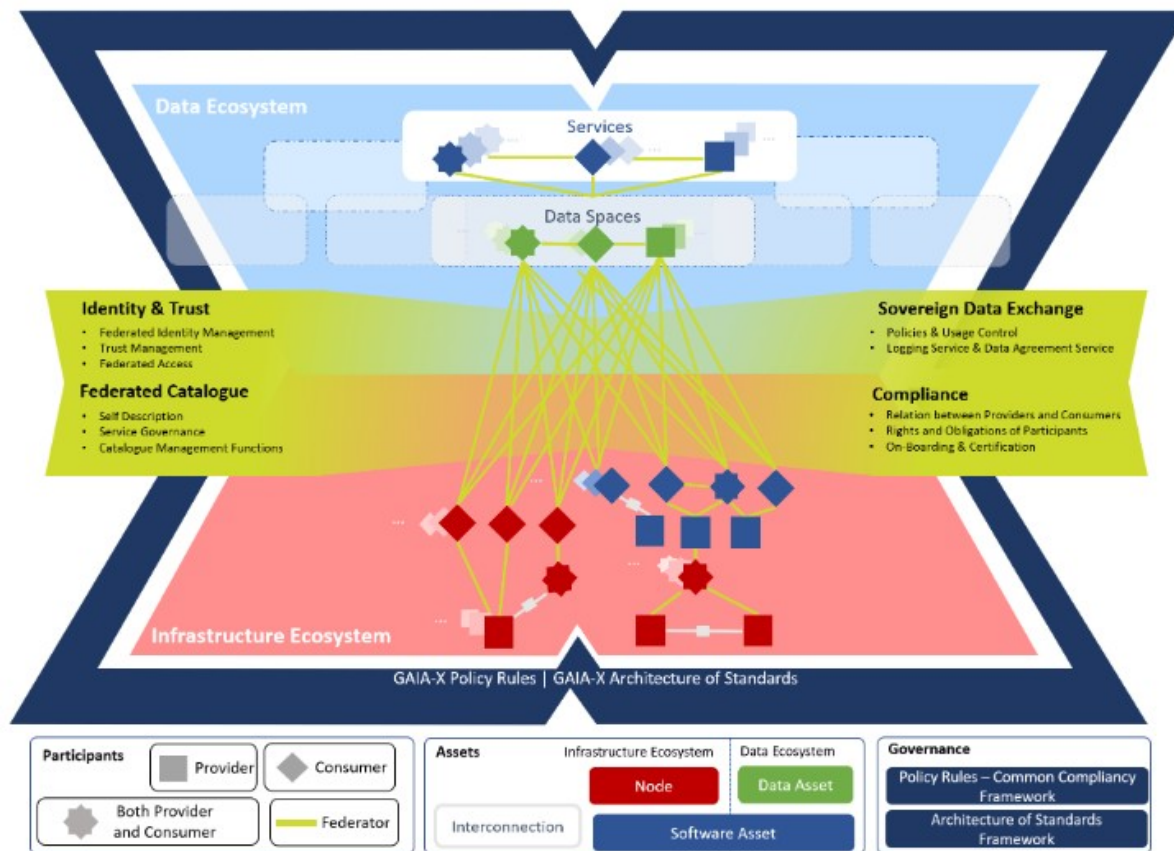


Source: matrix.org

# Open Source as a basis for

- Control of the code
- Trustworthiness of communication and data exchange
- Resilience
- Scalability
- Federation – everyone controls a little bit





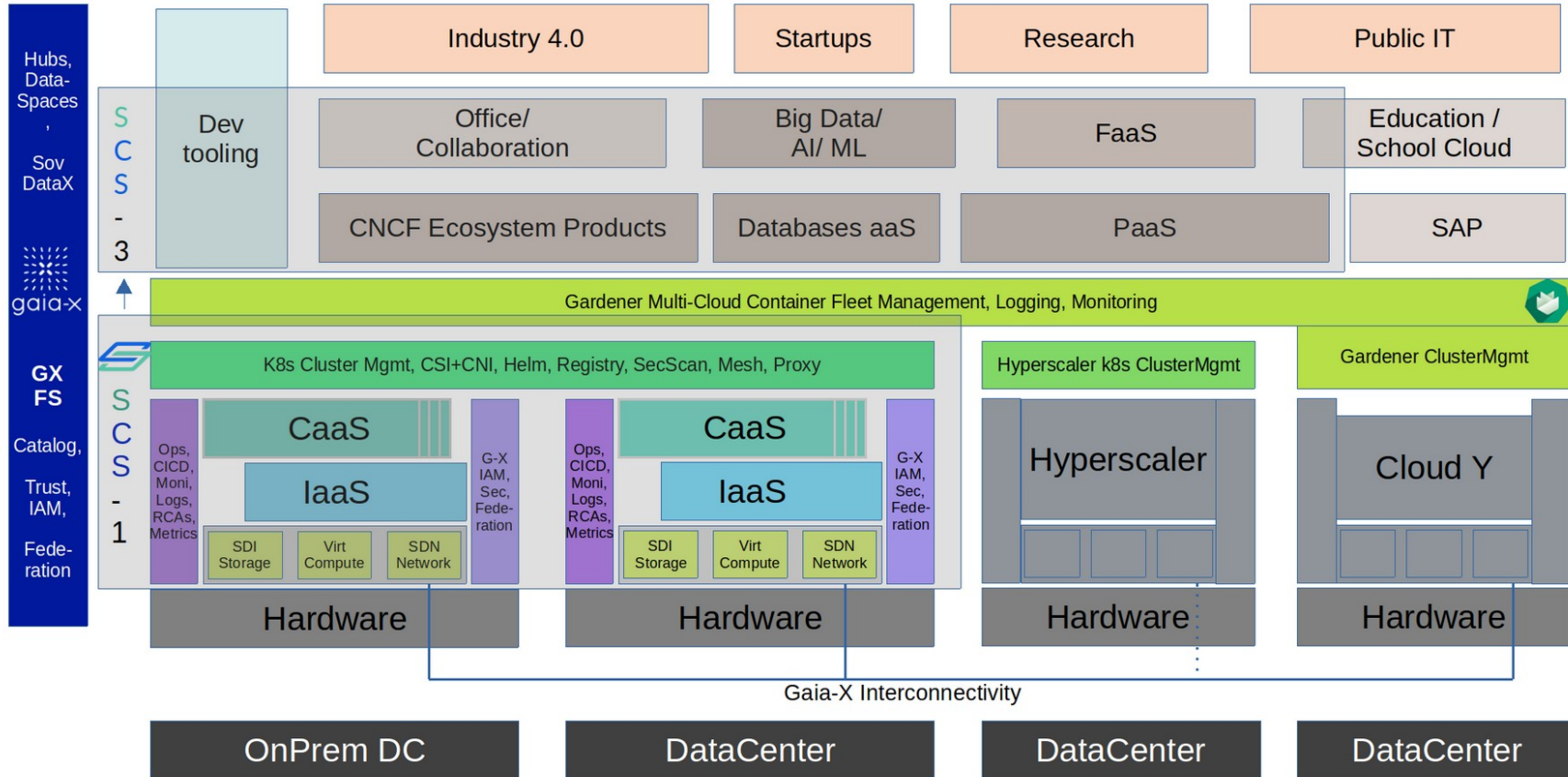


# Sovereign Cloud Stack

Gefördert durch:



aufgrund eines Beschlusses  
des Deutschen Bundestages



# Many open, federated services available



# Phoenix sovereign workplace

The screenshot shows a web browser window with the following details:

- Browser Tabs:** Phoenix Portal, Dateien - Nextcloud, E-Mail - User Peter - OX A
- Address Bar:** <https://portal.dpx-showroom.at-univention.de/univention>
- Page Header:** Phoenix Portal logo, search icon, notification bell, and menu icon.
- Section: Groupware**
  - E-Mail:** Envelope icon
  - Kalender:** Calendar icon
  - Kontakte:** Contact card icon
  - Aufgaben:** Task list icon
- Callout Box:** "Dateien verwalten, bearbeiten und teilen" with a "Neuer Tab" link and external icon.
- Bottom Row of Icons:**
  - Dateien:** Folder icon
  - Bilder:** Image icon
  - Aktivitäten:** Lightning bolt icon



## What are the key takeaways?

- the promise of the cloud is great, but still fraught with **problems**, e.g. the **dependence** on hyperscalers and **lack of confidence** in safety of data and communication
- Clouds need to be designed using **interoperability** and **federation** as core architectural principals based on **Open Source** and **open standards**
- with the **Sovereign Cloud Stack** there is already a solution in production, that allows for that
- on top of this we can build many great and **open cloud services**

# Thank you for your attention!

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