

AUTONOMY

RI.  
SE

DEPENDENCY

JOHAN LINÅKER, RISE/LUND UNIVERSITY

# Balancing Digital Sovereignty and Openness in a Changing World

# Technology is accelerating, as is expectations



Digital public services have enormous potential.

- 24/7 accessibility**  
even during a pandemic.
- ~50% less time spent**  
interacting with public administration.
- >50% lower costs**  
for companies when interacting with the public administration.
- ~60% less case-handling effort**  
through automated processing.

Source: German National Regulatory Control Council  
McKinsey & Company

A Europe fit for the digital age  
Empowering people with a new generation of technologies



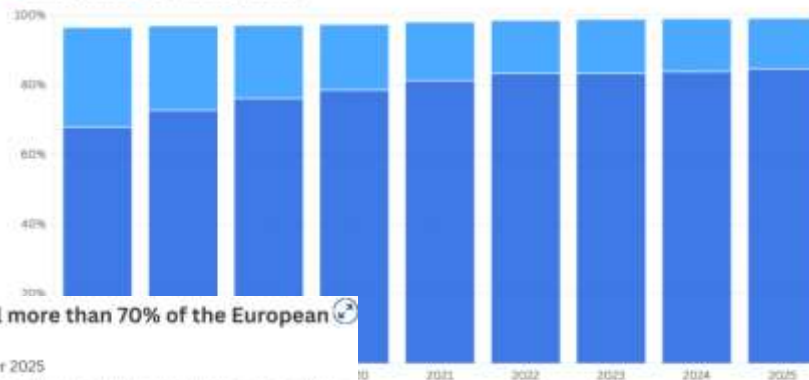
# While we are digitally cuffed by dependencies

- **80%** total spending on cloud software and services for professional use in Europe went to American companies, representing a volume of 265 billion euros.

## U.S. cloud providers dominate European market, with share rising in recent years

Market share of cloud providers serving Europe

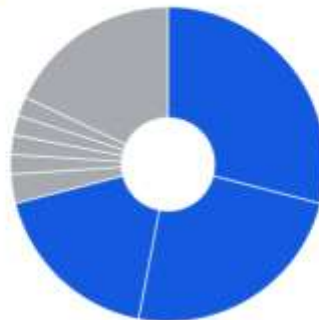
■ U.S. cloud providers ■ European cloud providers



## Amazon, Microsoft and Google control more than 70% of the European cloud market

Estimated cloud market shares in Europe, fourth quarter 2025

■ Amazon (U.S.) ■ Microsoft (U.S.) ■ Google (U.S.) ■ Oracle (U.S.) ■ SAP (Germany) ■ Salesforce (U.S.) ■ Deutsche Telekom (Germany) ■ IBM (U.S.) ■ Other



Source: Synergy Research

# CLOUD Act and FISA 702 cannot be washed away



## Microsoft admits it 'cannot guarantee' data sovereignty

Under oath in French Senate, exec says it would be compelled – however unlikely – to pass local customer info to US admin

★ [Paul Kunert](#)

Fri 25 Jul 2025 13:00 UTC

**UPDATED** Microsoft says it "cannot guarantee" data sovereignty to customers in France – and by implication the wider European Union – should the Trump administration demand access to customer information held on its servers.

# Fueled by geopolitical cracks and regionalisation



Donald J. Trump

@realDonaldTrump

As the President of the United States, I will stand up to Countries that attack our incredible American Tech Companies. Digital Taxes, Digital Services Legislation, and Digital Markets Regulations are all designed to harm, or discriminate against, American Technology. They also, outrageously, give a complete pass to China's largest Tech Companies. This must end, and end NOW! With this TRUTH, I put all Countries with Digital Taxes, Legislation, Rules, or Regulations, on notice that unless these discriminatory actions are removed, I, as President of the United States, will impose substantial additional Tariffs on that Country's Exports to the U.S.A., and institute Export restrictions on our Highly Protected Technology and Chips. America, and American Technology Companies, are neither the "piggy bank" nor the "doormat" of the World any longer. Show respect to America and our amazing Tech Companies or, consider the consequences! Thank you for your attention to this matter.

DONALD J. TRUMP, PRESIDENT OF THE UNITED STATES OF AMERICA

8.15k ReTruths 33.2k Likes

Aug 26, 2025, 2:31 AM

# Europe's Digital Leaders Call for "Tech Sovereignty"

pro-tech D9+ alliance switches sides as Europe debates targeting US digital services with tariffs and

## Dutch software In Davos, von der Leyen pitches 'European independence' versus Trump's worldview

By Toby Steril  
March 18, 2025



## European industry big win: Germany, France both support sovereign EU-tech infrastructure

part, now the real difficulties unfold.

### Digital Sovereignty, Innovation in Germ

Dirk Schrödter  
Minister und Chef der Staatskanzlei  
Holstein

# Nordiska företag rör sig mot suveräna moln

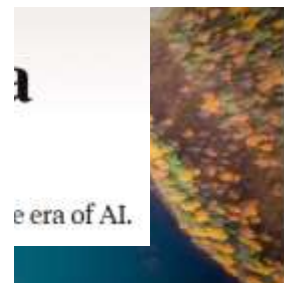
Nyhet

12 mars 2026 • 2 min

### Digital sovereignty: less dependence

The coalition partners are focusing strongly on d

- **Building European integrated and resilient** industries, from raw materials and chips to hardware manufacturers – both from China and the USA.
- **Strengthening open interfaces and standards:** "We ensure our digital sovereignty: we define open interfaces and open standards across all levels and systematically promote open source [...]." This is a reaction to the increasing dependence on proprietary systems, which are causing huge difficulties in the context of digital transformation and have had an enormous braking effect. With regard to open source, two options are discussed in the document – either "define ambitious targets" or specifically "achieve an open source share of 50% by 2029" for the IT budget.
- **Exclusion of untrustworthy providers:** "We will exclude untrustworthy providers with legal certainty in future." This refers primarily to critical infrastructures and is likely a reference to the debate surrounding providers in the 5G network.



era of AI.

### it: MS-365 alternative the Bundeswehr

The IT system house of the BWI has concluded a framework agreement with Zendis for "sovereign communication and collaboration solutions" such as OpenDesk.

# Digital sovereignty not a question only for Europe



Canada and Europe are breaking away from US tech. Can they collaborate?

Published: 26 February 2026 · Last updated: 27 February 2026



Eglė Kristopaitytė, Journalist



## Förslag till långsiktig utveckling och förvaltning av Ena

Slutredovisning av uppdrag till Myndig förvaltning att utreda hur Sveriges digitala Ena bör utvecklas och förvaltas

### 5.5 Totalförsvarsperspektivet

Att försörjning av livsmedel, vatten och el är väsentliga för samhällets robusthet är en ett digitaliserat samhälle som det svenska har även Ena betydelse för totalförsvaret<sup>57</sup>.

Enas lösningar för identifiering, bevisutbyte, SDK och datadelning utgör exempel på förmågor som är extra betydelsefulla i kris- och krigssituationer då samhällsviktig verksamhet måste upprätthållas.

### Förordning om ändring i förordningen (2024:1005) om samordnad och säker statlig it-drift

Utfärdad den 23 oktober 2025

Regeringen föreskriver att 5 § förordning om säker statlig it-drift ska ha följande lydelse:

SFS 2025:936

Publicerad den 28 oktober 2025

2. tillhandahålla det samordnade statliga tjänstebudet och stödja myndigheterna vid valet av it-driftslösning.

Vid utformningen av de it-driftstjänster som erbjuds ska totalförsvarets behov beaktas.

Digitalisering

## Helsingborg satsar på digital suveränitet – nytt projekt ska stärka motståndskraften

Publicerat: 9 jul 2025, 07:00

### Matrix Conference 2024

Schedule Sessions Sorterings

Försäkringskassan, Matrix and Sweden's public sector

2024-09-20 16:15 - 16:45 16:15 - 16:45 (Europe/Stockholm) UAB 4

Försäkringskassan, the Swedish Social Insurance Agency, offers a smörgåsbord of insight from building on Matrix to create a cloud-based collaboration platform for Sweden's public authorities.

Försäkringskassan

Skatteverket

9 (126)

En AI-verkstad ska tillhandahålla en gemensam, säker och robust infrastruktur med tillhörande stödfunktioner för den offentliga förvaltningen. Detta ska möjliggöra en snabbare, mer kostnadseffektiv och ändamålsenlig utveckling och användning av AI inom den offentliga förvaltningen. Den långsiktiga målsättningen är att en AI-verkstad ska bidra till att stärka Sveriges konkurrenskraft, civila beredskap och digitala suveränitet.



En utvärdering av RISE Research Institutes of Sweden AB

SOU 2025:68

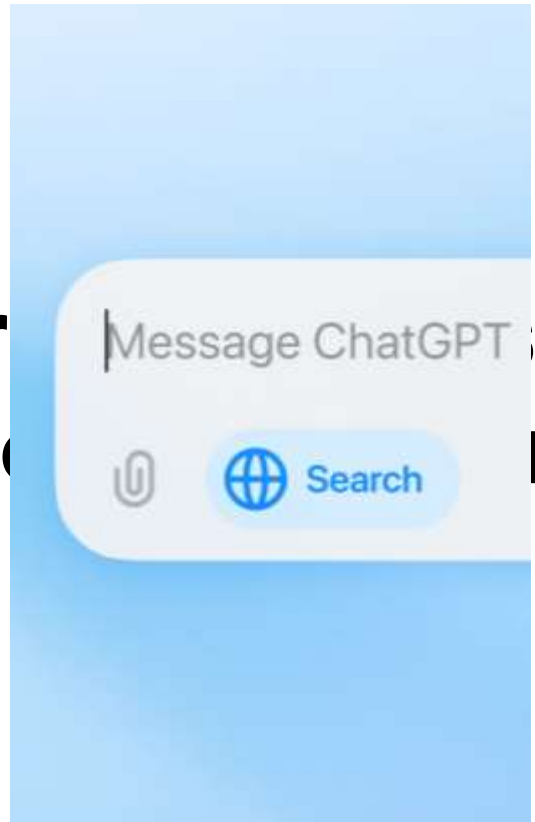
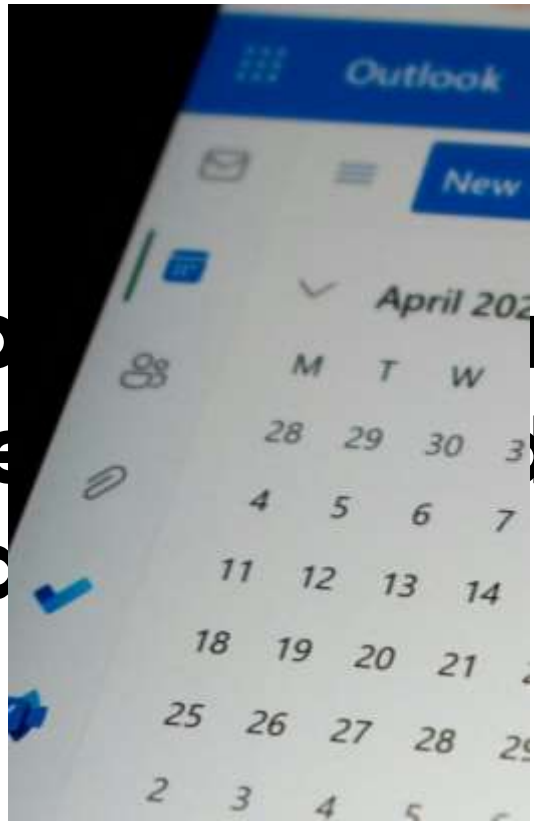
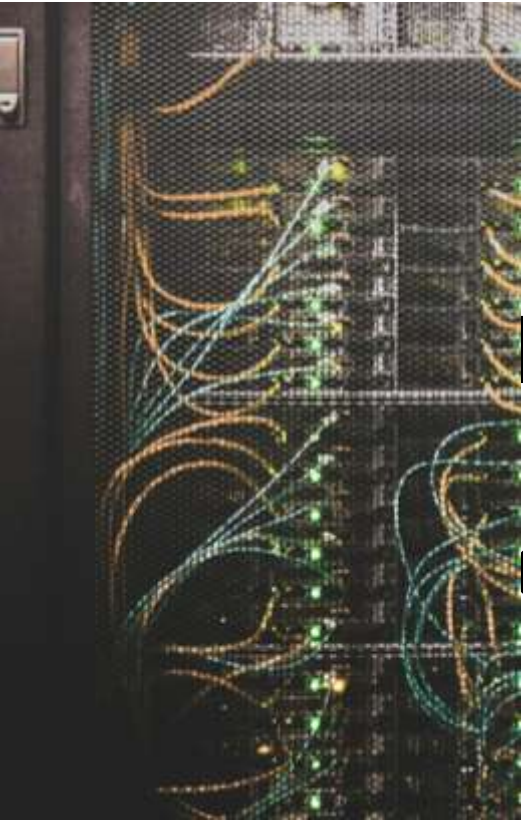
ska kunna få i uppdrag att försöka bedriva industriforskning, prövning och certifiering samt upprätthålla sin befintliga arbete med produktionsomställning i kris, höjd beredskap och krig är det viktigt att RISE under normalförhållanden bedriver motsvarande verksamhet. Detta är en förutsättning för att ha en realistisk möjlighet att bibehålla eller skäda upp verksamheten efter extraordinära behov.

Bland de åtgärder som RISE bedriver vidta till följd av det ökade samhällsplaneringsbehovet bedöms vi att det finns behov av:

- att genomföra planeringsåtgärder, disponibilitetskontroll och kapacitetsoptimering av personal med kritisk kompetens,
- att analysera och säkerställa tillgången till sådana produkter som är nödvändiga för bolagets verksamhet kopplat till samhällsplaneringsåtgärder,
- att analysera om tillgång till rent vatten och el för den verksamhet som bolaget inifrån inom samhällsplaneringsåtgärder är nödvändig,
- att säkerställa tillgången till och kommunikationssystem och
- att säkerställa tillgången till nödvändiga transporter.

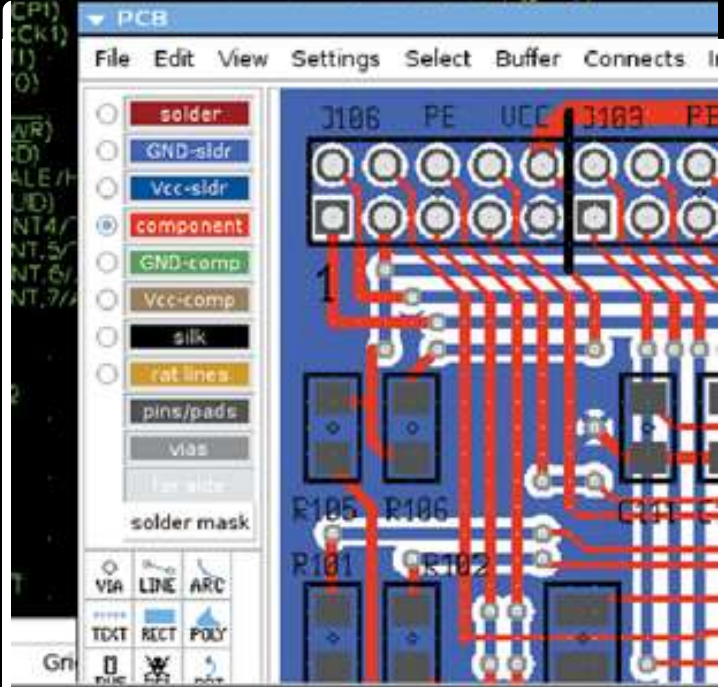
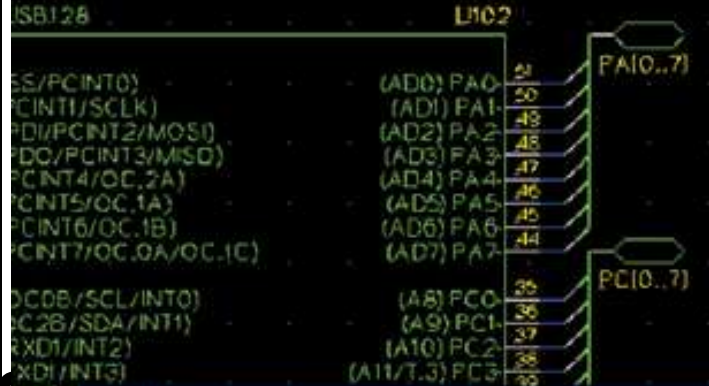


# Question about keeping society up and running during crisis, heightened readiness, and war

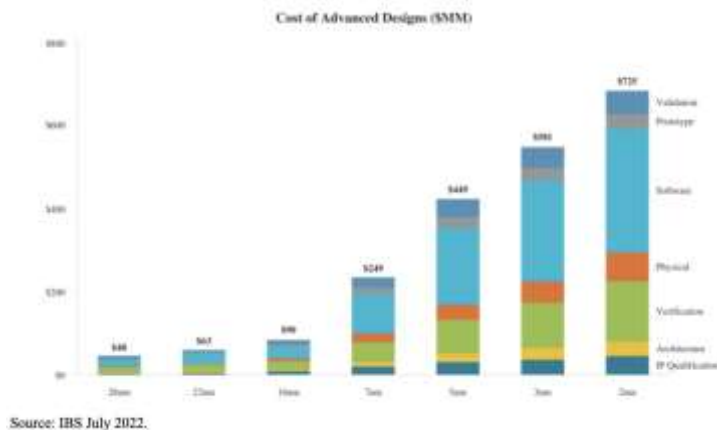




Add Hierarchy Attributes Options Help



# Sovereignty is a full-stack problem



Hardware Software

Applications/Workload

Operating System

Kernel

Drivers

Firmware

Devices/Machines

Boards

Chips/Components/SOCs

ISA

Microarchitecture

Tools, frameworks & infrastructure



<< Further reading [1]

**All parts of the  
infrastructure  
are equally  
critical**

**Physical + Digital**





<< Further reading [1]

# Digital Sovereignty

=

**Open**  
Strategic  
Autonomy



**Open  
Strategic  
Autonomy  
requires  
control**

**Control  
requires  
investments  
and  
contributions**

**Investments  
and  
contributions  
requires  
capabilities**



<< Further reading [2]

# Public sector suffers of the Comfort syndrome



# It's a We-problem



4. **Political leadership:** courage to act
5. **Understanding:** sovereignty requires systemic changes and not just technical replacements

**Need to start  
growing  
courage and  
collaborate**



**Open as a toolbox for  
enabling collaboration**

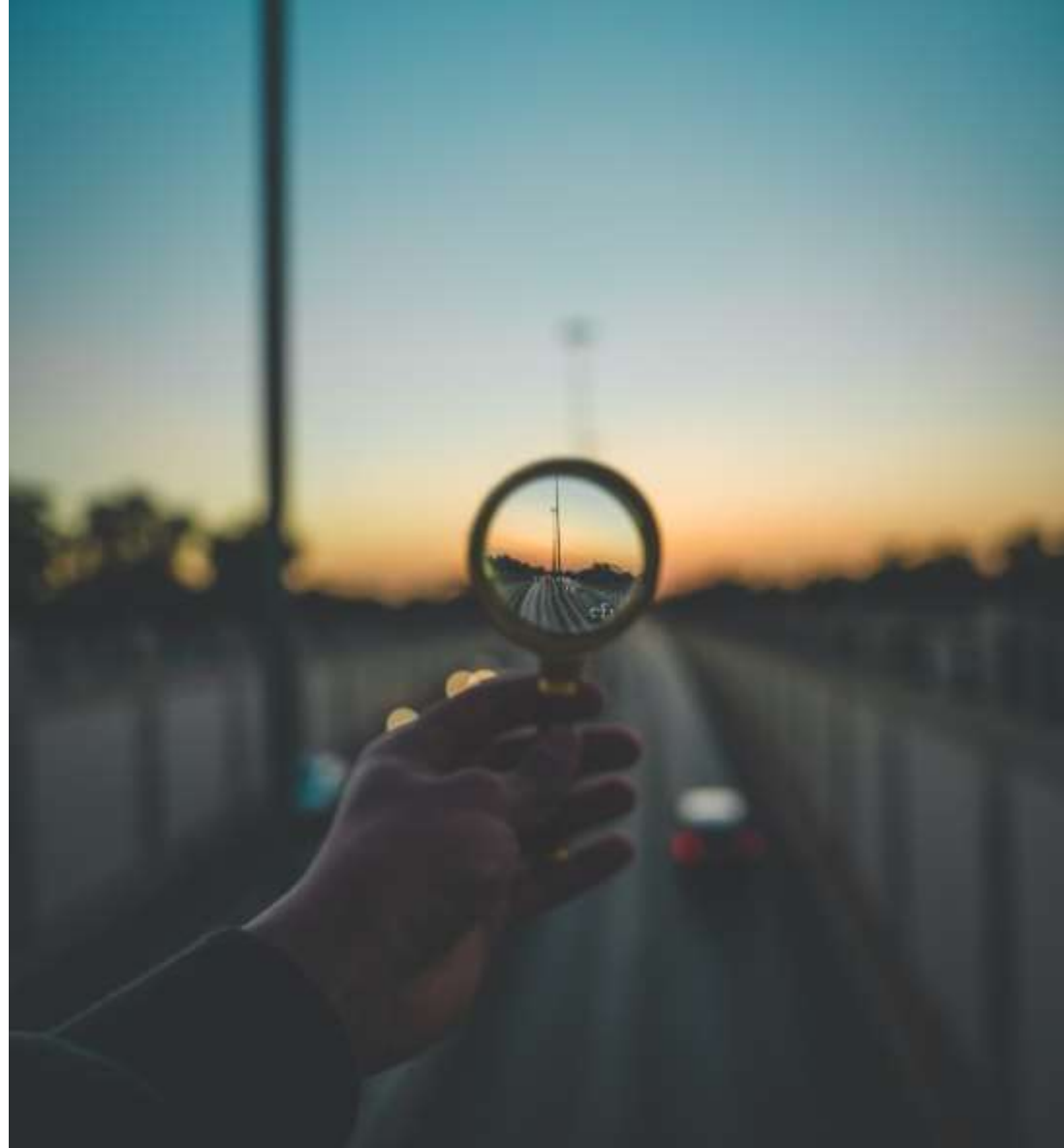
**{Software, Standards,  
AI, Hardware...}**

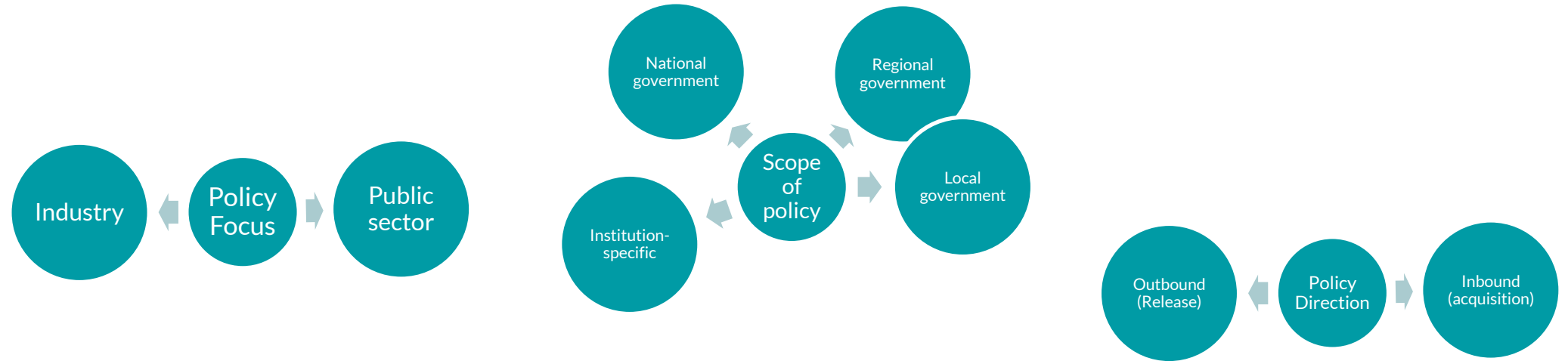




<< Further reading [3]

# Clear intent and direction needed from policy makers





# Comprehensive and complementary policies required





<< Further reading [3]

# Support structures needed to enable policy goals



# Enter <Open Source Program Offices>



## TODO Group

“Centre of competency for an organisation’s open source operations and structure”



## OpenForum Europe

“An institutional organisational construct that supports and accelerates the consumption, creation, and application of open source software”



## OSPO Alliance

“A cross-functional team to help define and steer an organisation’s open source management strategy and organisational readiness”

Exempel: 

# Growing network of OSPOs across Europe



## EU OSPO Network

Welcome

Network Members

Meeting Notes

Resources



*EU OSPO Network meeting in Brussels, 29 January 2026*

### About the

Welcome to the  
similar initiative

Established in  
Digital Service  
software in the

We work to ac  
publicly funde

**Germany  
running ahead  
with national  
and regional  
“stacks”**



# Denmark's roadmap towards digital sovereignty





<< Further reading [3]

# Common platforms for share, reuse, and collaborative development



## Flexible Teamwork for the Public Sector

openDesk is the customisable office and collaboration suite designed specifically for your needs in public administration.

Stay informed



Launched in autumn 2024.



### Project management

Plan and manage projects efficiently with kanban boards, Gantt charts, and more.



### Task management

Track your tasks with ease and stay on top of milestones.



### Contacts

Manage your personal contact details or create shareable address books.



### Document management

Create and edit text, spreadsheets and presentations — on your own or collaboratively with others.



### Chat

Communicate with colleagues and workgroups in real time.

## The platform for Digital Sovereignty

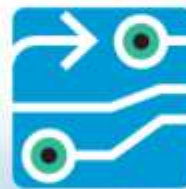
openCode brings open source to the German public sector. Together, we develop and share software that shapes our digital future in a self-determined way.



About Open Source

Software Index

How would you like to use



Die Einheitliche S

### Vision und Umset

„GA-Lotse - Das Digitalisier Gesundheitsämtern folgt die Software die Abläufe in den optimieren.

Mit der Softwareentwicklung effektive Datenverarbeitung Deutschland befähigen, für Anforderungen in der Zusar

# L'sove works

Create. Organize. Collaborate. Open source environment in the public sector and open





# Growing European collaboration on digital commons with DC-EDIC

[/ Notizie](#) / [Articoli](#) / [En Italy, France, Germany and Netherlands...](#)

/

## Italy, France, Germany and Netherlands launch EU consortium open, sovereign digital commons

Four EU Member States launch the Digital Commons EDIC to build open and shared European digital infrastructures

DATE

29 October 2025

READING TIME

3 minutes

[Leggi in italiano](#)

**Increasing  
investments in  
model training,  
and  
infrastructure**





<< Further reading [8]

**Need for  
increased  
public  
recognition and  
awareness**



European  
Open Source  
**Awards**



<< Further reading [1]

# Robustness and security of common infrastructure critical

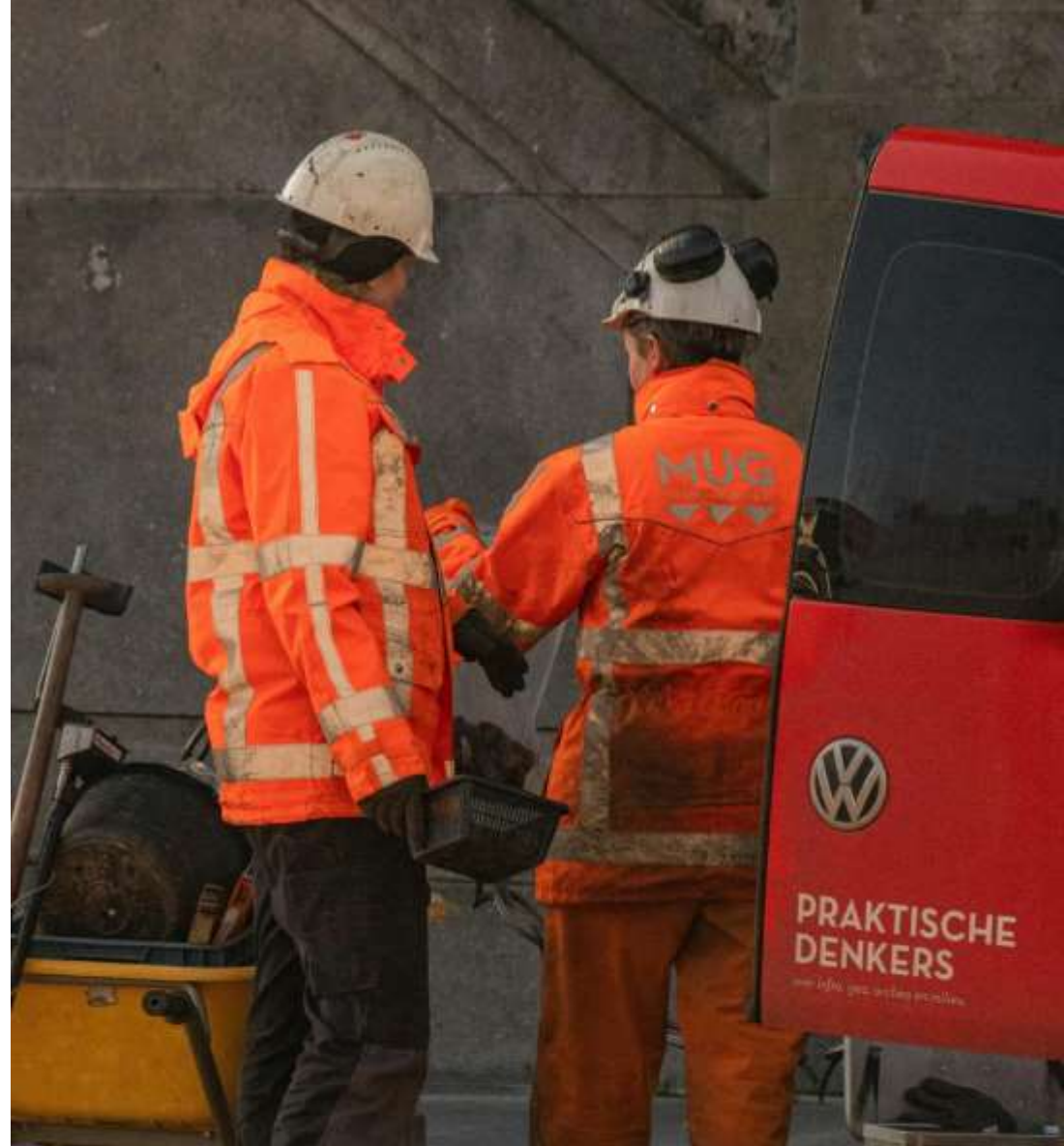




<< Further reading [7]

**Sustainability =  
Collective  
responsibility**

**Need to  
de/centralise  
maintenance with  
a push & pull  
model**



# Sustainable vendors = Sustainable software



A complete digital ecosystem made and supplied in Europe.

**European industry big win: Germany, France both support sovereign EU-based tech infrastructure**

That was the easy part, now the real difficulties unfold.

**Rival report to Knafo's on EU tech sovereignty: more content, more cautious**

The recommendations in the working document are currently too cautious and will be made more ambitious, a source close to the matter told Euractiv.

**Von der Leyen expresses timid support for Eurostack tech sovereignty project**

German MEP Tiemo Wölken called von der Leyen's comments an important signal, but not everyone is convinced.

**Supply needs  
to meet  
demand, and  
grow  
symbiotically**



**Support and  
guidance  
emerging**

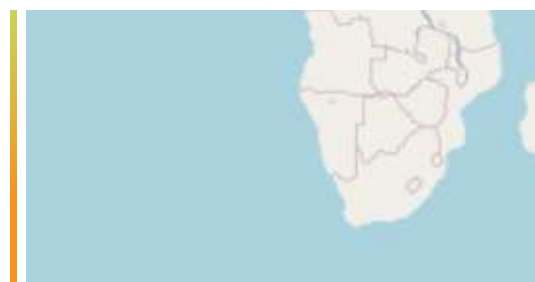


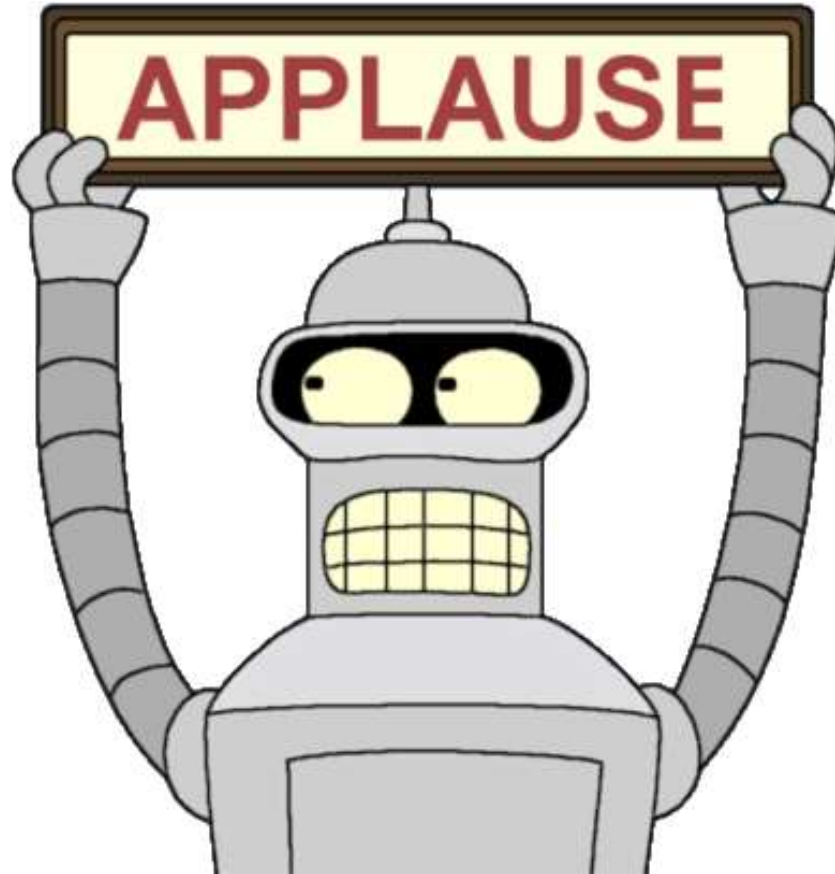
**Sweden does a lot of good things, but lack coordination and strategy**





# Open Strategic Autonomy requires Open Collaboration, Share/reuse, and growing Common capabilities





# Further reading

- [1] <https://www.linaker.se/blog/building-sovereignty-the-open-way/>
- [2] <https://arxiv.org/pdf/2409.01118>
- [3] <https://www.linaker.se/blog/report-software-reuse-through-open-source-software-in-public-sector/>
- [4] <https://www.linaker.se/blog/public-sector-open-source-program-offices/>
- [5] <https://www.linaker.se/blog/public-sector-open-source-software-projects-how-is-development-organized/>
- [6] <https://www.linaker.se/blog/sustaining-maintenance-labor-for-open-source-software-projects-through-human-Infrastructure-Copy/>
- [7] <https://www.linaker.se/blog/health-check-ups-on-open-source-software-projects/>
- [8] <https://europeanopensource.academy/>