

AUTONOMY

RI.
SE

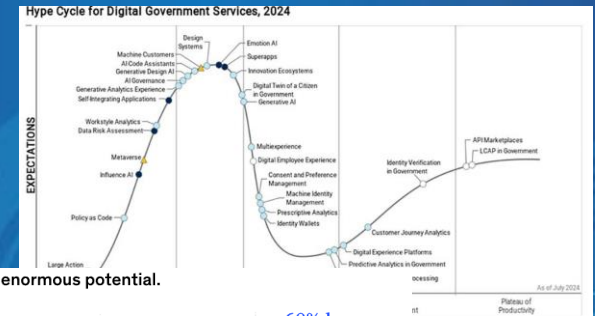
DEPENDENCY

JOHAN LINÅKER, RISE/LUND UNIVERSITY

Digital Sovereignty through Open Source

Enabling Europe's strategic opportunity

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



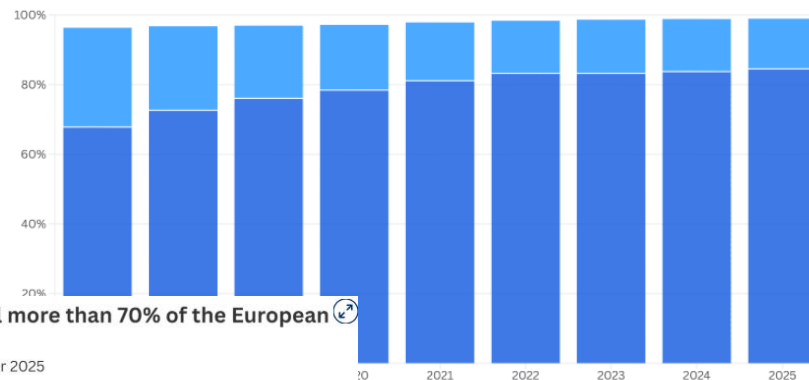
While we are digitally cuffed by dependence

- **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

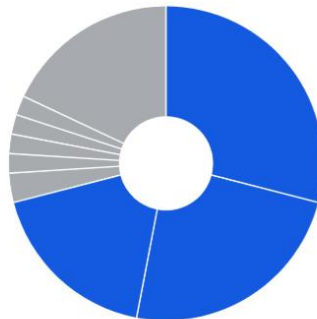
■ U.S. cloud providers ■ European cloud providers



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

Dutch software

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

By Toby Sterli
March 18, 2025



Europe's Digital Leaders Call for "Tech Sovereignty"

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

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
Schleswig-Holstein

Nordiska företag rör sig mot suveräna moln

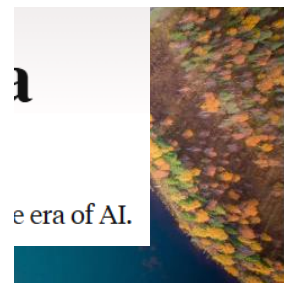
Nyhet

12 mars 2026 • 2 min

Digital sovereignty: less depend

The coalition partners are focusing strongly on d

- **Building European integrated and resilient** industries, from raw materials and chips to ha 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.

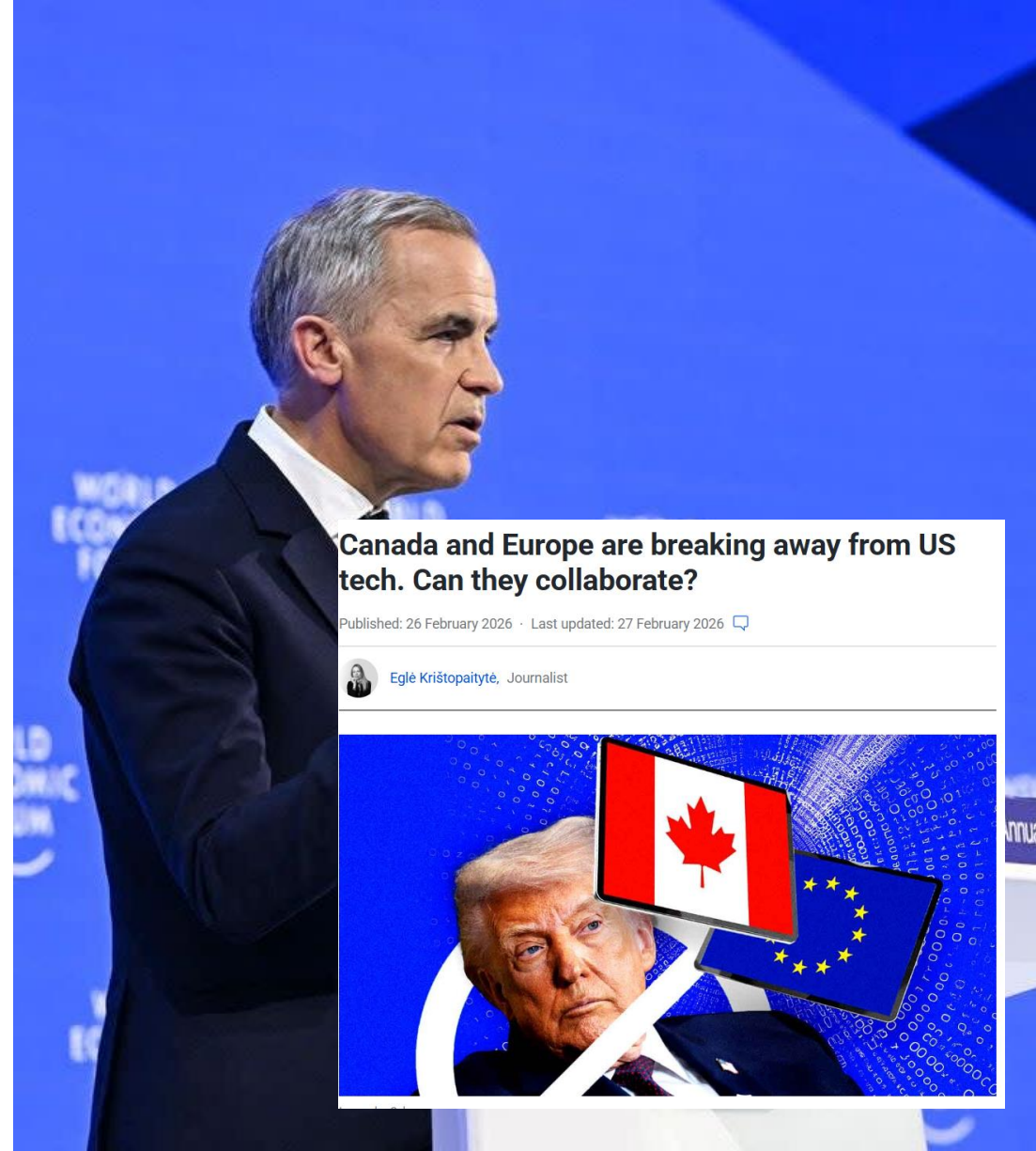


e era of AI.

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



Förslag till långsiktig utveckling och förvaltning av Ena

Slutredovisning av uppdrag till Myndig förvaltning att utreda hur Sveriges digi 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 totalförsvaret⁵⁷.

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 § förordningen om säker statlig it-drift ska ha följande lydelse:

SFS 2025:936

Publicerad
den 28 oktober 2025

2. tillhandahålla det samordnade statliga tjänsteutbudet 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

Publicerad: 9 juli 2025, 07:00

Matrix Conference 2024

[Schedule](#) [Sessions](#) [Speakers](#) [login](#)

Försäkringskassan, Matrix and Sweden's public sector

2024-09-20 16:15–16:45 16:15–16:45 (Europe/Stockholm), LAB 4

.ical

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
Datum Diarienummer

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.

Ett utbakt uppdrag till RISE Research Institutes of Sweden AB

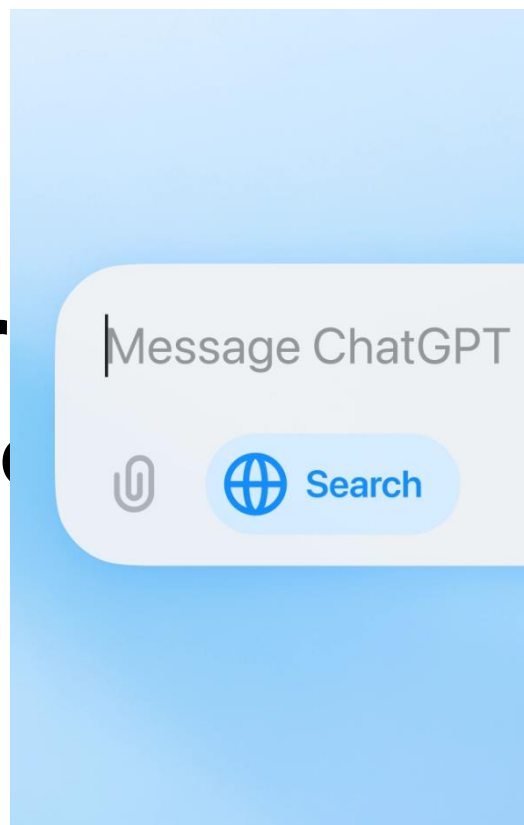
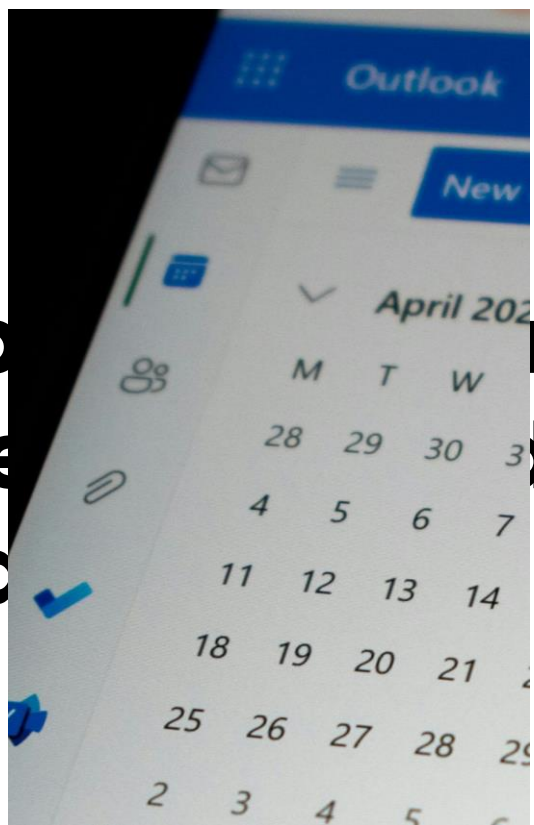
SOU 2025:68

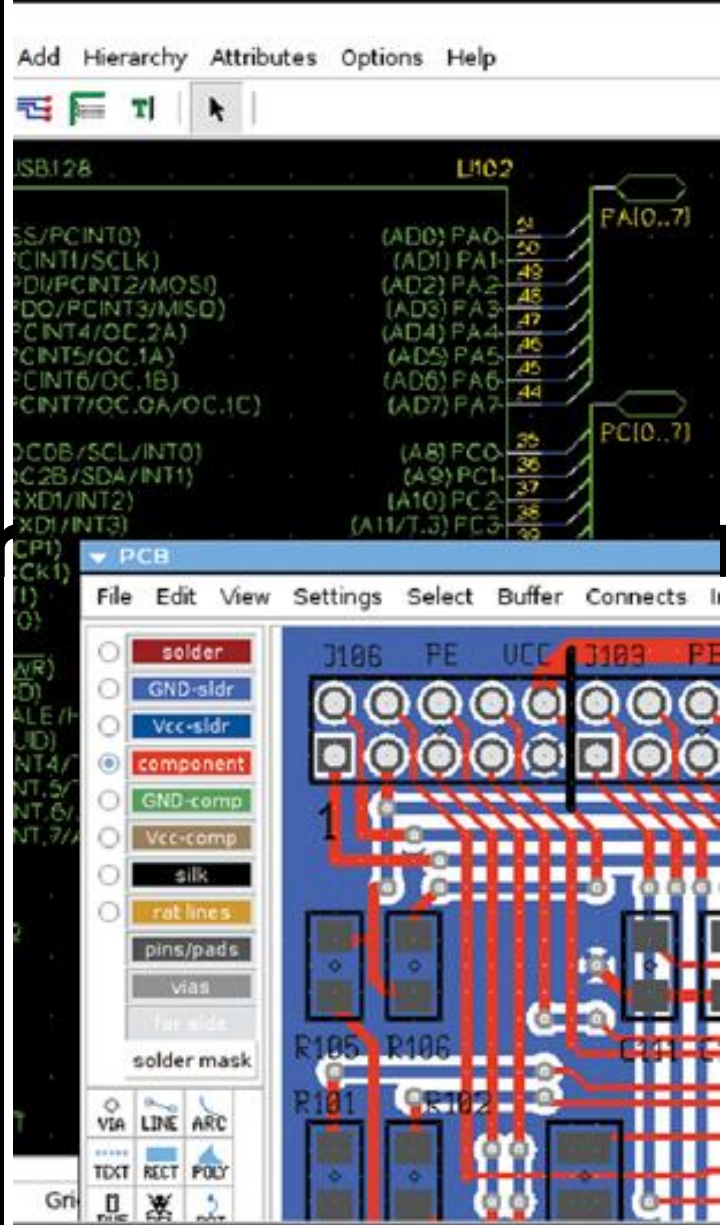
ska kunna få i uppdrag att fortsätta bedriva industriforskning, provning och certifiering samt upprätthålla sitt befintliga arbete med produktionsomställning i kris, höjd beredskap och krig är det viktigt att RISE under normaltilstånd bedriver motsvarande verksamhet. Detta är en förutsättning för att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

- Bland de åtgärder som RISE behöver vidta till följd av det ökade samhällsuppdraget bedömer vi att det finns behov av:
- att genomföra planeringsåtgärder, disponibilitetskontroll och krigsplacering av personal med kritisk kompetens,
 - att analysera och säkerställa tillgången till sådana produkter som är nödvändiga för bolagets verksamhet kopplat till samhällsuppdraget,
 - att analysera om tillgång till rent vatten och el för den verksamhet som bolaget utför inom samhällsuppdraget är nödvändig,
 - att säkerställa robusta it- och kommunikationssystem och
 - att säkerställa tillgången till nödvändiga transporter.

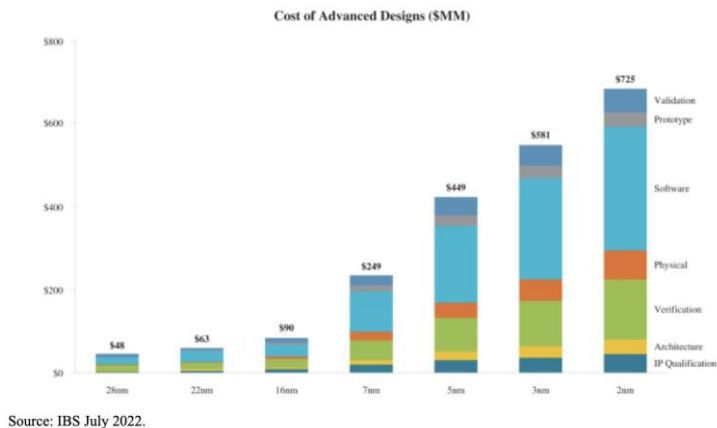
Question about keeping society up and running during crisis, heightened readiness, and war

RI
SE





Sovereignty is a full-stack problem



Hardware Software

Applications/Workload

Operating System

Kernel

Drivers

Firmware

Devices/Machines

Boards

Chips/Components/SOCs

ISA

Microarchitecture

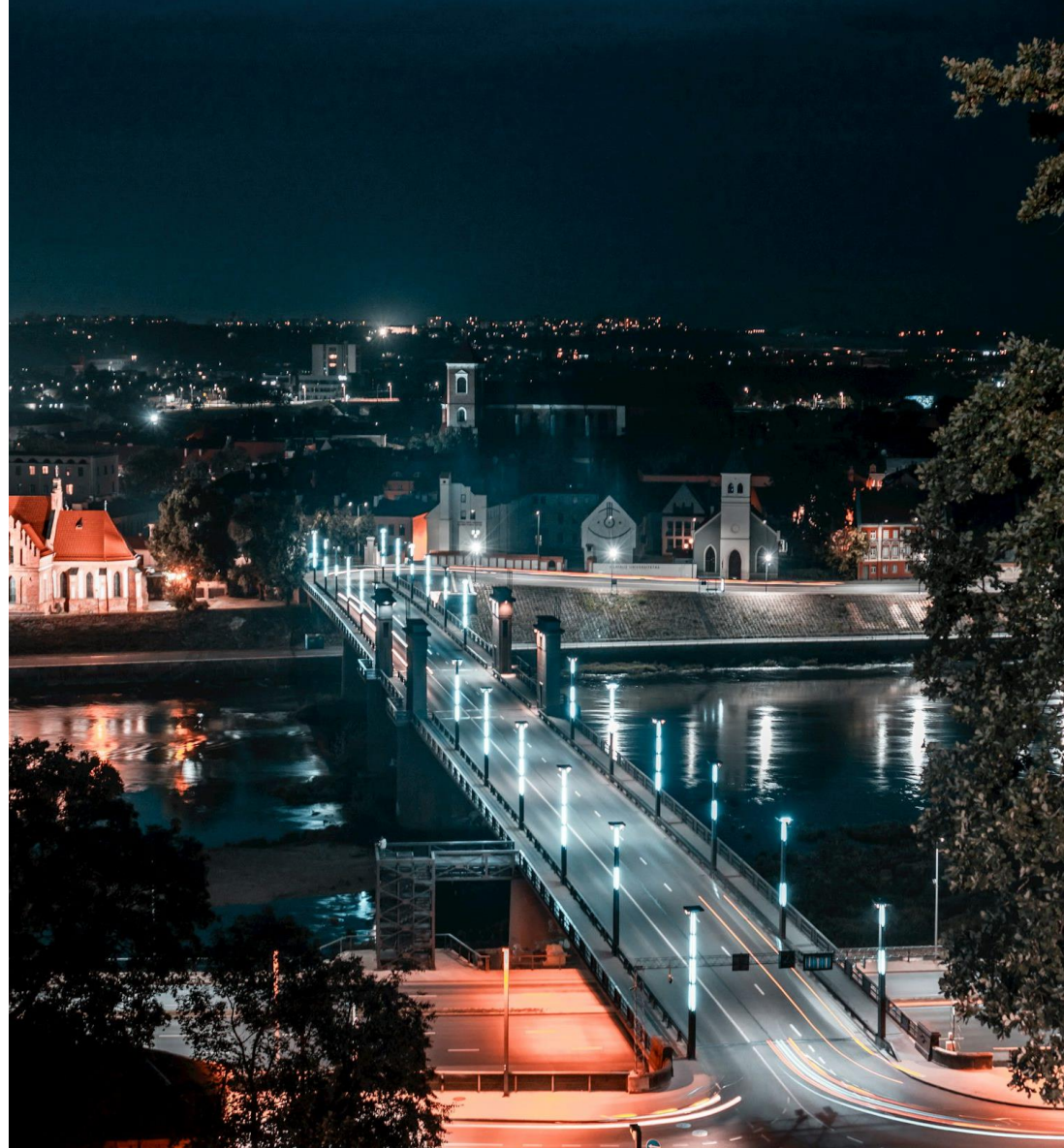
Tools, frameworks & infrastructure



<< 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



Høring i Udvalget for Digitalisering og It om Danmarks digitale suverænitet

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**

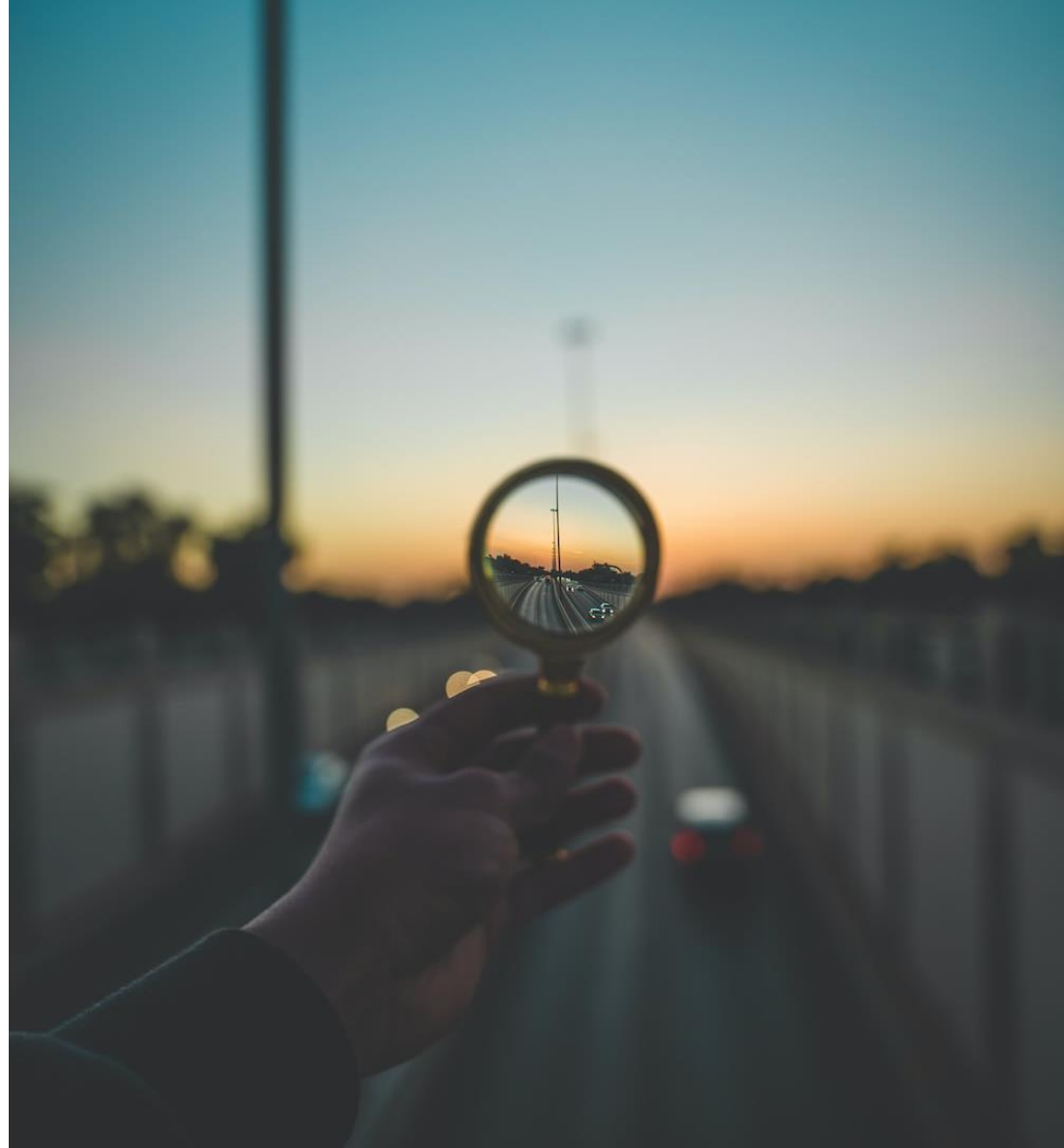
**{Software, Standards,
AI, Hardware...}**





<< Further reading [3]

Clear intent and direction needed from policy makers







<< Further reading [3]

Support structures needed to enable policy goals



Photo by Nguyễn Hiệp | <https://unsplash.com/photos/grayscale-photo-of-crane-near-building-mvYyx02rjk>

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 initiatives

Established in
Digital Service
software in the

We work to ac
publicly funded

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



Denmark's roadmap towards digital sovereignty



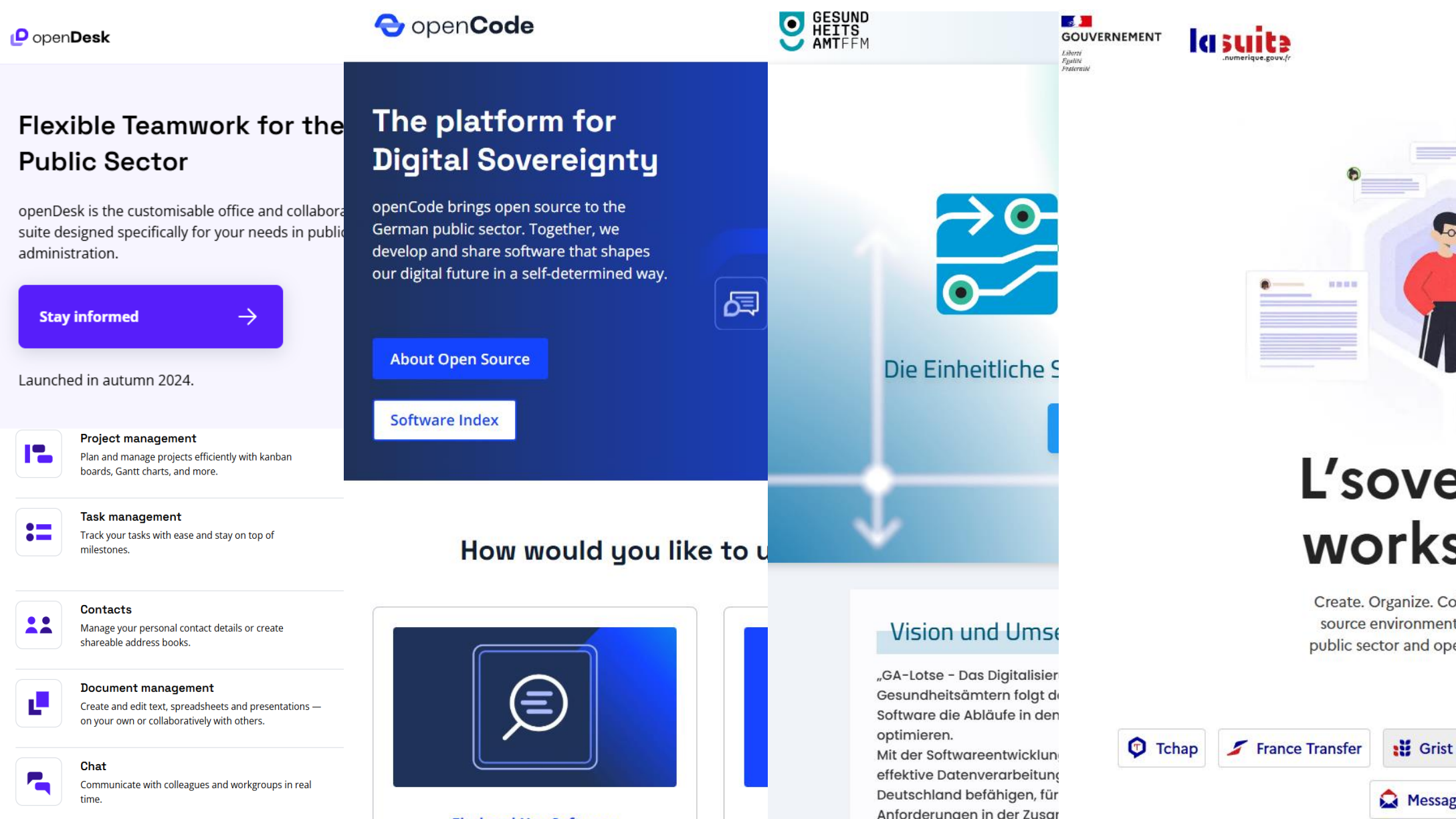
Photo by Rolands Varsbergs | <https://unsplash.com/photos/aerial-photo-of-boats-in-between-concrete-buildings-during-daytime-ePOH0oKeOJE>



<< Further reading [3]

Common platforms for share, reuse, and collaborative development





 open**Desk**

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.

 open**Code**

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...



L'sovere works

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

 Tchap

 France Transfer

 Grist

 Messag

 **GESUNDHEITSAMTFFM**

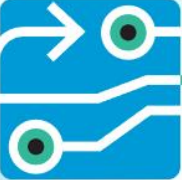
 **GOUVERNEMENT**

Liberté
Égalité
Fraternité

 **la suite**

.numerique.gouv.fr

Die Einheitliche S...



Vision und Umse...

„GA-Lotse – Das Digitalisierungs-Lotse der Gesundheitsämter folgt der Vision, die Software die Abläufe in den Gesundheitsämtern zu optimieren. Mit der Softwareentwicklung und der effektiven Datenverarbeitung soll Deutschland befähigt werden, für die Anforderungen in der Zukunft zu sein.“

Growing European collaboration on digital commons with DC-EDIC



Dipartimento per la trasformazione digitale

[Sottosegretario](#)

[Dipartimento](#)

[Progetti](#)

[Notizie](#)

[Innova con noi](#)

[/ 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]

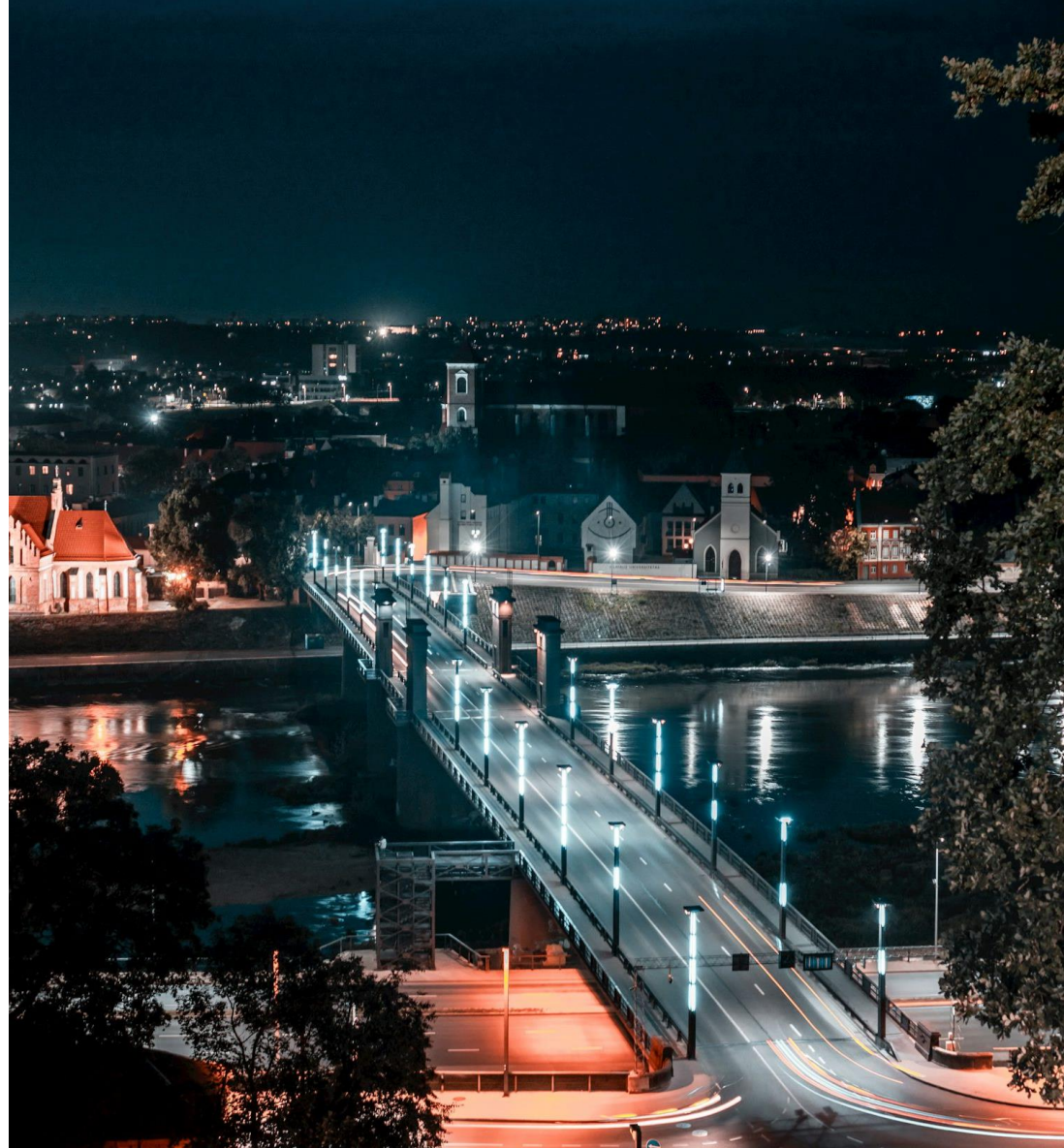
**Need for
increased
public
recognition and
awareness**





<< Further reading [1]

Robustness and security of common infrastructure critical

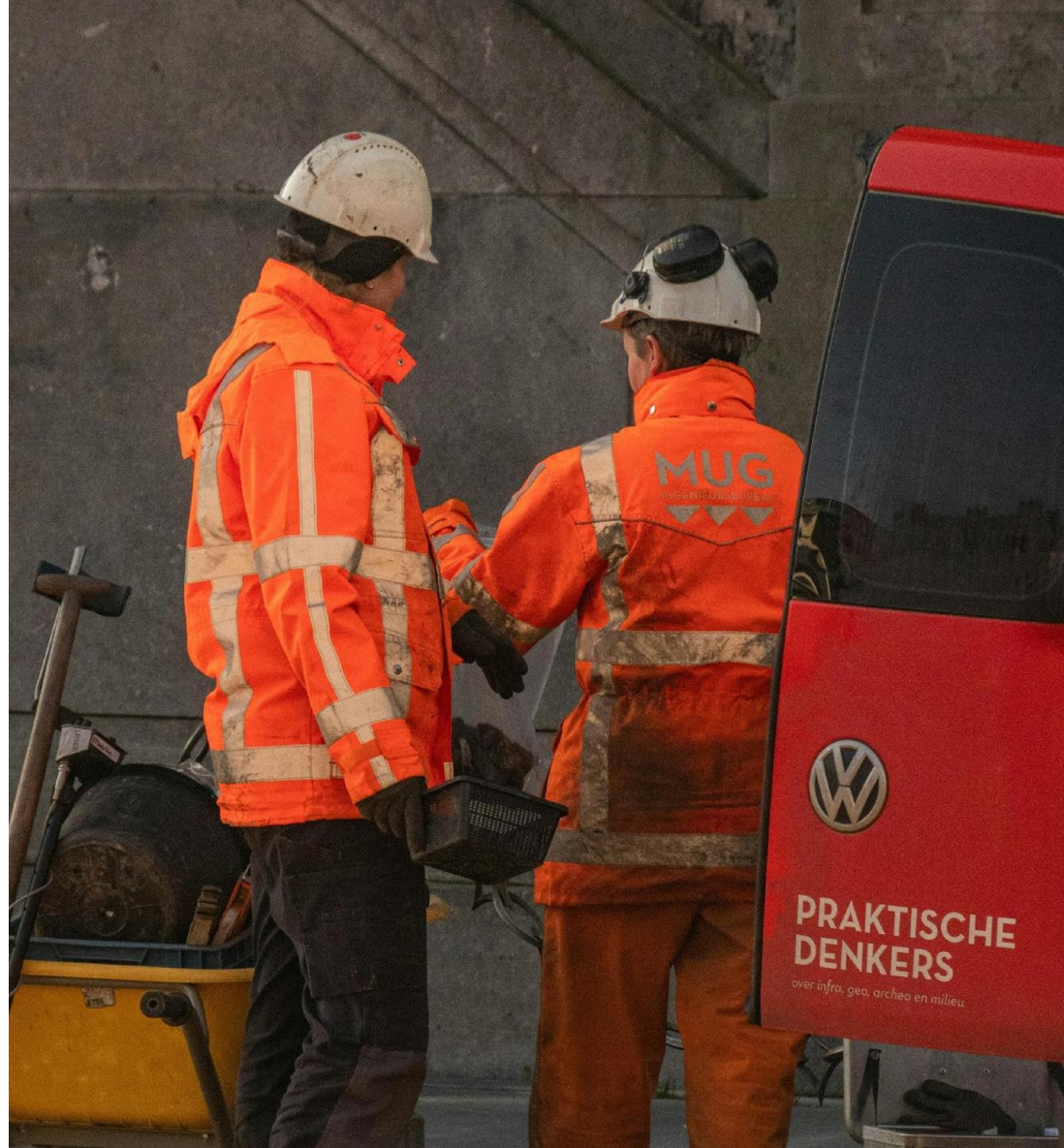




<< Further reading [7]

**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**

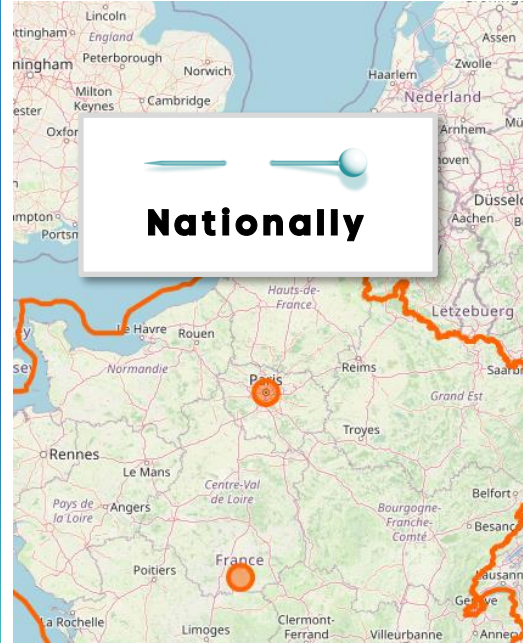


**Support and
guidance
emerging**

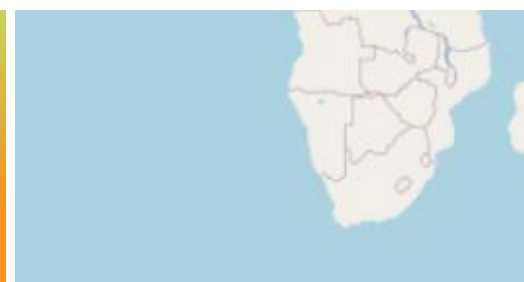
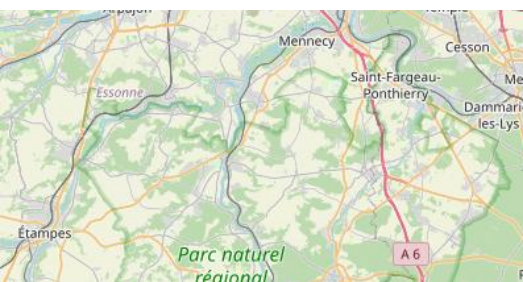


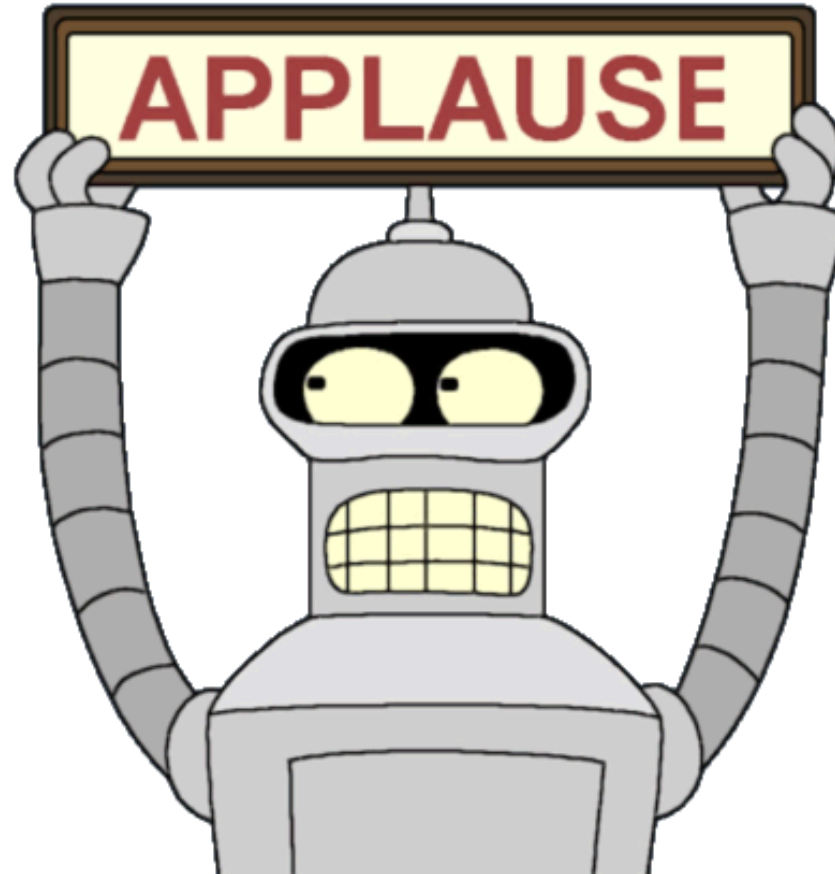
**Sweden does a
lot of good
things, but lack
coordination
and strategy**





**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/>