



- Belgian In-house ICT Service Provider/Integrator
- For and by the Public Sector
- Nonprofit organization (VZW/ASBL)
- **2,166** collaborators
- Operates as a shared service center for 319 government organizations
  - Infrastructure management
  - Software development
  - Data management
  - Security services
  - Recruitment services ...
- Main role: enabler for government ICT
- Established in 1939

**Decades of Trust - Driving Open Collaboration and Synergies: Community!** 





2024



https://www.smals.be/nl/wie-we-zijn/activiteitenverslagen/activiteitenverslag-2024





#### Some Principal values & drivers of Smals

- **Sustainable** ICT solutions and services
- **Community** empowerment
- Collaborative innovation
- Overarching "enterprise" architecture <u>vision</u> for public sector ICT
- Quality driven with a particular focus on <u>business continuity</u> and <u>security</u>
- Data <u>ethics</u> and data protection as a fundamental cornerstone in our approach
- Digital inclusion and <u>citizen-centricity</u> as the default
- <u>Cost-Conscious</u> and <u>lean</u> mindset to maximize <u>value</u> for our community ...
- → Synergetic: giving rise to a whole that is greater than the simple sum of its parts
- → Enabler: ensuring indirect positive benefits for society
- → Invisible: leaving the spotlight to our members



#### Why does Smals Love Open Source?

- Alignment with our Vision, Culture, and Mindset
  - Principal values & drivers resonate with how we look at the ICT world
- Quality-driven Community
  - Fostering a quality-driven mindset to ensure operational stability and robustness
- Open standards
  - Adoption of open standards to facilitate longevity and to mitigate vendor lock-in
- Business Continuity Assurance by Embracing 'Free(dom)' technology
  - Utilizing free technology & the freedom to operate
  - Counter 'Machiavellian Licensing Plots' and balance the power of proprietary vendors
- Creative Nexus
  - It is where innovation magic happens

#### Supporting cross-institution ICT Initiatives

- G-Cloud Programme (2015-...)
  - For and by public institutions
  - Focus on infrastructure services & platforms, shared procurement, ...
- Software ReUse Programme (2019-...)
  - For and by public institutions
  - Focus on components, authentic data sources, API's, ...
- Full Stack Approach (2021-...)
  - Enterprise Architecture across public institutions
  - Focus on architectural principles, processes, building blocks, ...







- Public Cloud Computing & AI (2023- ... Accelerated)
  - Emphasis on secure by design, business continuity, cloud portability, digital sovereignty
  - Strong governance & smart choices



gcloud.belgium.be

HET RESULTAAT VAN EEN GEZAMENLIJKE AANPAK Het **G-Cloud**programma is het resultaat van een gezamenlijk initiatief door meerdere publieke instellingen: federale overheidsdiensten, instellingen van de sociale zekerheid en de zorgsector... De praktische realisatie wordt aangestuurd vanuit de « **Cloud Governance Board** ».

Een gemeenschappelijke roadmap wijst de weg naar de ontwikkeling van deze 'community Cloud' van de overheid. Terwijl de eerste generatie van **G-Cloud**-diensten al operationeel is sinds maart 2015, zijn er nog talrijke nieuwe evoluties op komst.

De **G-Cloud** is een hybride cloud, waarbij enerzijds gebruik wordt gemaakt van diensten aangeboden door private firma's in publieke cloudomgevingen, en anderzijds van diensten gehost in datacenters van de overheid. Het beheer van de **G-Cloud** gebeurt door de overheid. Voor de uitbouw en de operationele werking wordt in ruime mate beroep gedaan op de privé-sector.

#### G-CLOUD, DE COMMUNITY CLOUD VAN DE OVERHEID



#### **G-Cloud – Sharing ICT infrastructure**

#### Programme of synergy-driven initiatives

- Services, Projects, Procurement, Knowledge Sharing
- Active cross-institution ICT Community

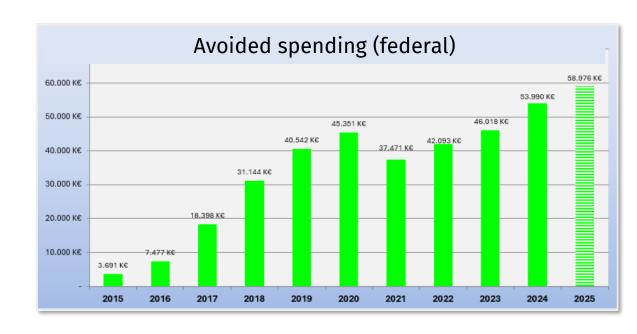


 Private Community Cloud running from government-operated datacenters

#### Public cloud?

- Already the case for special purpose needs
- Moving forward as a community for general purpose needs
- Joint taskforce defining vision, strategy, policies, guidelines, architecture, ...







#### Het softwareplatform voor slimme ontwikkelaars

Steeds meer Belgische overheidsdiensten hergebruiken softwarecomponenten. Doe mee aan het ReUse initiatief en lever jouw bijdrage!



#### Verken de Software ReUse Catalogus

1

Zoek op trefwoord (en) in de catalogus

1

Q

Externe	
communicatie	

Kerndiensten van de instellingen

Ondersteunende diensten

Personeelsbeheer

Generieke ITbouwblokken ①

Kanalen	
e-Box - Elektronische mailbox	>
registeredMail	

dmfa >

Loopbaan van een werknemer

eAcademy >
organizationalChartnsso >

As a Service

AAAS - Archiving-as-a-Service >

Aanvraagbeheer via formulieren >



#### Reuse of software & business components

- Orginated within Belgian public social security & Smals
  - Open to other federal public services
- Synergy around (technical) business components
  - Avoid multiple development of redundant components
  - Save costs & effort
- Catalogue of reusable components
- Active micro-community
- Openness
  - Regardless of whether development takes place by the institution's own ICT department, Smals, subcontractors



Raming ROI 2023: € 44.000.000

#### **Enterprise Architecture Framework** BA @ GOV ba4gov.be Holistic Vision & **Vertical** strategy **Domains** Health **Social security** Other Customer Only Once Centricity **Employment Illnes** Health care **Taxes Services** Holiday Pension Medical costs Defense Mobility Family allowance Care Health risks Medicines Horizontal **O** iot iot **Processes O O** io: Generic & reusable Interoperability Architectural **Building Blocks** -principles Generic & reusable Privacy by Legacy vs Standards design innovation



## Open source is an inspiration for our own

ECOMMUNITY

#### Communities: Worth the Effort, but Unforgivingly Hard



- Community creation is hard
  - Finding champions and critical mass
- Community standardization is hard
  - Aligning across silos and priorities
- Community maintenance is hard
  - Sustaining energy and engagement over time
- Community advocacy is hard
  - Making the case, again and again
- Community sponsorship is hard
  - Securing time, budget, true leadership support for the long haul
- And the context works against it...
  - Roadmaps and organization structures don't like community work

Best approach?
Iterate relentlessly,
fueled by stubbornness
and determination

#### Ok, so then Smals is a top contributor?

- Our core business is not "technology product development"
  - We (ab)use technology to (retro)fit the needs of our context
  - Like most organisations we are mainly on the consumer side
  - Abstractions that are (re)usable for the rest of the world pop up occasionally but are not the norm
- Practical open source contribution in general is not for everyone
  - Less than 1% of the population is capable to directly contribute in a meaningful way
  - Coding competency, paying with your time, figuring your way around the code base and culture, ...
- We organise our own micro-communities
  - e.g. Reuse Catalogue, G-Cloud, AI Center of Excellence, Overarching Enterprise Architecture ...
- We pay others to contribute for us ©
  - e.g. RedHat, Postgres EDB, ...

#### Open Source Put to Good Use at Smals

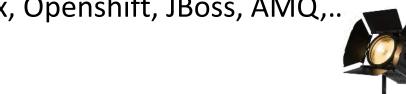
We host critical public services (social security, healthcare, ...)





#### **Red Hat**

Linux, Openshift, JBoss, AMQ,...







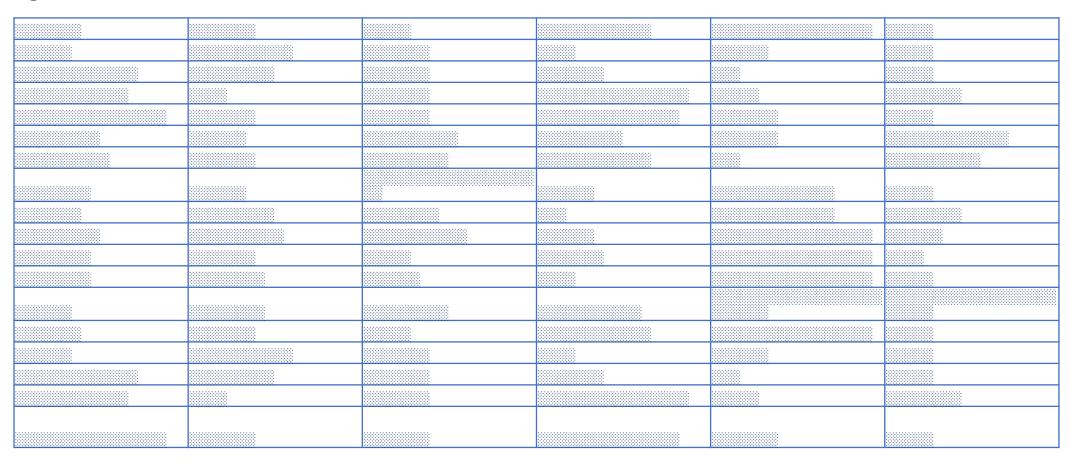




# That's all Fulks

OPEN SOURCE at Smals

#### **Open Source Put to Good Use at Smals**



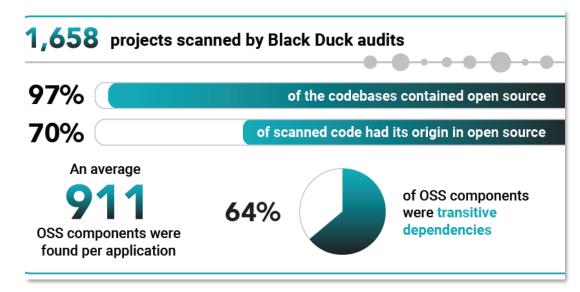
Apparently, we don't always require enterprise versions/support...



Still counting and "discovering" every day...

#### OSS in the World: Mostly Hidden in Plain Sight

- BLACKDUCK Open Source Security and Risk Analysis report finding (2025)
  - 97% of codebases contain open source
  - Open source components and libraries are the backbone of nearly every application across all industries





Proprietary vendors would not exist without open source!



## Open source is more often than not

## INVISIBLE

### Log4j vulnerability - what everyone needs to know

National Cyber Security Centre

Information about the critical vulnerability in the logging tool, who it could affect and what steps you can take to reduce your risk.



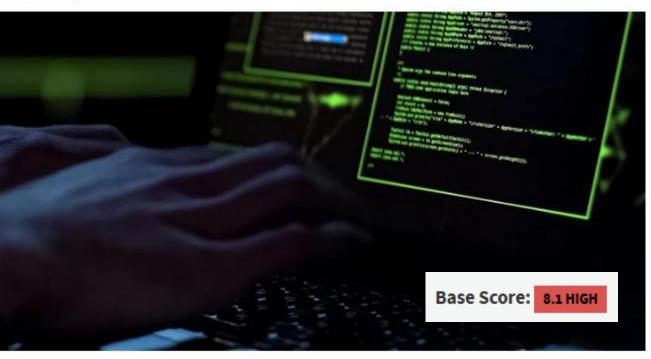
14 December 2021

Don't Get Pwned. Get Informed II

#### The Hacker News

Meta Warns of FreeType Vulnerability (CVE-2025-27363) With Active Exploitation Risk

mar 13, 2025 & Ravie Lakshmanan



Meta has warned that a security vulnerability impacting the FreeType open-source font rendering library may have been exploited in the wild.

The vulnerability has been assigned the CVE identifier CVE-2025-27363, and carries a CVSS score of 8.1, indicating high severity. Described as an out-of-bounds write flaw, it could be exploited to achieve remote code execution when parsing certain font files. techradar pro THE BUSINESS TECHNOLOGY EXPERTS

Reviews **Features** 

**Expert Insights** 

Website builders

#### Security flaws in key Nvidia enterprise tool could have let hackers run malware on Windows and Linux systems

News

By Sead Fadilpašić published August 5, 2025

Three bugs can be chained together to devastating effects



- Security researchers found three flaws in Nvidia Triton Inference Server
- · When used together, they can grant remote code execution capabilities
- A patch has been released, so users should update immediately

Nvidia Triton Inference Server carried three vulnerabilities which, when combined, could lead to remote code execution (RCE) and other risks, security experts from Wiz have warned

Triton is a free open source tool working on both Windows and Linux which helps companies run Al models efficiently on servers, whether in the cloud, onsite, or at the edge.

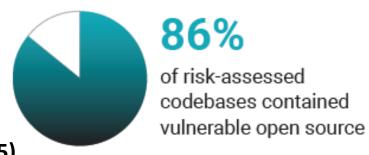
It supports many popular AI frameworks and speeds up tasks by handling multiple models at once and grouping similar requests together.

#### The Vulnerability that Opened our Eyes

- It is <u>highly unlikely</u> that your system doesn't contain Open Source
- Your code contains more than you know
  - Their code also contains more than they know
  - Since they are suppliers, they should know!



- 86% of codebases contained at least 1 open source vulnerability
- **91%** of codebases were found to contain outdated OSS components
- 90% of codebases were found to contain components 10 versions or more behind
- It is <u>highly certain</u> that your code contains (un)discovered vulnerabilities
  - Regardless of whether the whole is open source or not...





**81**%

of risk-assessed codebases contained high- or critical-risk vulnerabilities





#### No More Blind Spots: xBOM to the Rescue?

#### Bill of Materials for

- Software (SBOM), SaaS (SaaSBOM), Hardware (HBOM), Machine Learning (ML-BOM), ...
- Include all direct and transitive components
- Include the dependency relations between them

#### • OWASP CycloneDX Software Bill of Materials (SBOM) Standard

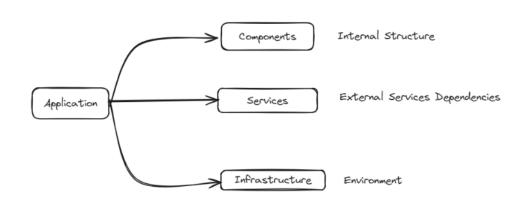
- Open source Component Analysis platform
- Identifies risks in the software supply chain

#### Primary use cases

• Vulnerability identification, license compliance, outdated component analysis

#### Main drivers @ Smals?

- Cybersecurity, ISO/IEC27001, NIS2
- Lifecycle management
- Log4J reality check



#### **xBOM** to the rescue?

- Component Identification: Lists all components, including libraries, modules, etc.
- **Version Information**: Specifies versions or commit hashes of each component.
- **Metadata**: Provides details like description, author, and release date for each component.
- Licensing Information: Indicates the licenses under which components are distributed.
- Dependencies: Documents both direct and transitive dependencies.
- **Vulnerability Information**: Includes known vulnerabilities with severity ratings and remediation guidance.
- Provenance Information: Identifies the source from which each component was obtained.
- Checksums or Hashes: Offers cryptographic hashes for verifying component integrity and authenticity

```
"creationInfo":
    "created": "2024-02-07T08:09:00Z",
    "creators": [
      "Organization: Red Hat Product Secur
    "licenseListVersion": "3.8"
  "dataLicense": "CC0-1.0",
  "documentDescribes": [
    "SPDXRef-227f7b84-025c-45ae-bb43-bf5ec09cc
  "documentNamespace":
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  "packages": [
      "copyrightText": "NOASSERTION",
      "downloadLocation":
"registry.redhat.io/openshift/ose\u002Dcluster\u002Dnode\u002Dtuning\u00
2Doperator:v4.9.0\u002D202203081819.p0.qce0b3ae.assembly.stream",
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          "referenceLocator": "cpe:/a:redhat:openshift:4.9::el8",
          "referenceType": "cpe22Type"
          "referenceCategory": "PACKAGE MANAGER",
          "referenceLocator": "pkg:oci/ose-cluster-node-tuning-
operator@sha256:c05025965a23568d177f84e30adda1f2b4677a54baf1a0f1a67005a2
cfd7cb52?repository url=registry.redhat.io/openshift/ose-cluster-node-
tuning-operator&tag=v4.9.0-202203081819.p0.gce0b3ae.assembly.stream",
          "referenceType": "purl"
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      "homepage":
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2Doperator",
      "licenseComments": "Licensing information is automatically
generated and may be incomplete or incorrect.",
      "ligongoCongludod": "MONGGEDTTOM"
```

#### **Blind Spots Remain...**

#### Position in Technology Landscape?

Understanding its role and relevance within our technology ecosystem, what value does it bring

#### Criticality and Reliability?

Assessing the potential impact if it malfunctions or if it requires replacement

#### Characteristics and Attributes?

Evaluating various aspects such as its complexity, size, maturity, and other –ities

#### Contributors and Community?

• Determining the number of active contributors and their demographics

#### Availability of Support?

Confirming the availability of support channels, either commercial or in-house

#### Release Cadence and Update Frequency?

Analyzing the frequency of releases and updates is a quality indication, yet some components are simply "done"

#### Track Record?

Reviewing the history of bugs, vulnerabilities, fixes, and overall performance/score in the community

#### Visibility and Recognition?

Identifying if it's recognized or on the radar of major industry players ...

Quality, security, and sustainability demand investment, activism and commitment!



## Open source is no FREE LUNCH



ATTACK OF THE CLONES -

### GitHub besieged by millions of malicious repositories in ongoing attack

GitHub keeps removing malware-laced repositories, but thousands remain.

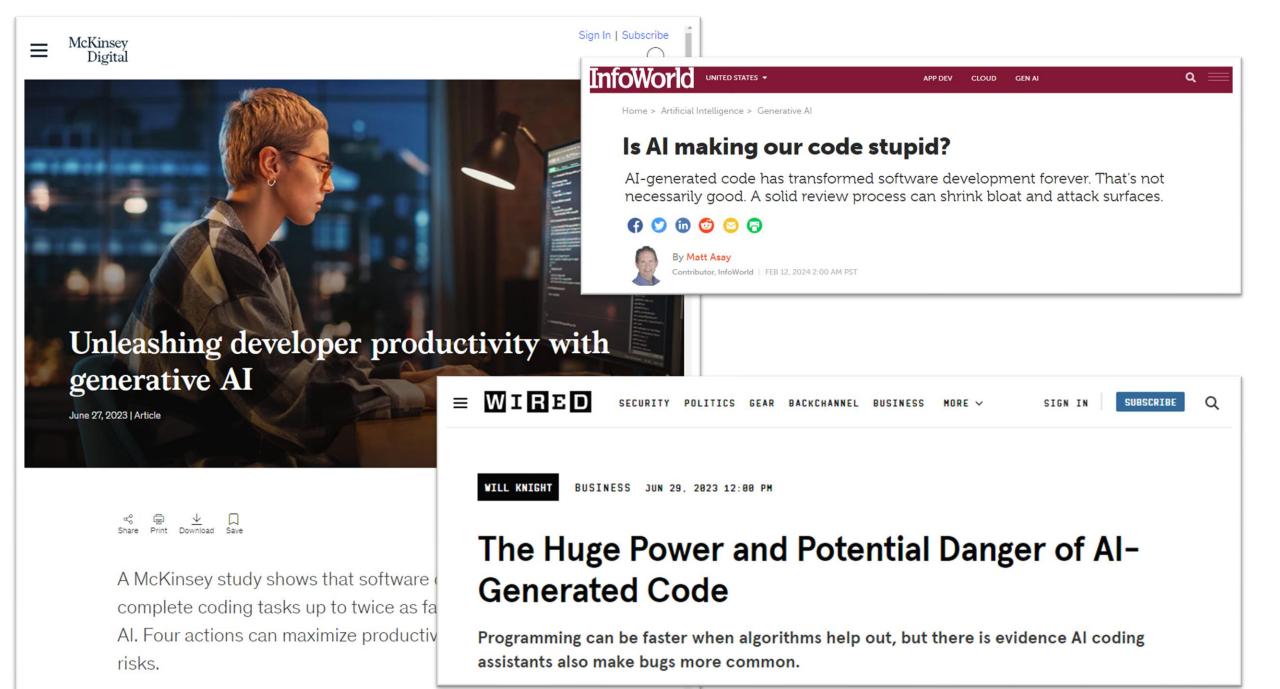
DAN GOODIN - 2/28/2024, 11:12 PM





The Rising Threat of Software Supply Chain Attacks: Managing Dependencies of Open Source projects

PAOLO MAINARDI | 15 AUGUST 2023



#### Al: Saviour or the Last Drop?

#### **Accelerating security**

Scans vulnerabilities & generates SBOMs

#### **Supporting maintainers**

 Automates pull request review, dependency hygiene, ...

#### **Detecting patterns at scale**

Spotting anomalies humans might miss

#### **Reducing toil**

Frees human effort for strategic work

#### **Automation** ≠ Safety Insecure Al-generated code is real

#### **Volume > Review**

More commits, harder human oversight

#### Adversaries are learning too

• Al-powered attacks are a fact

#### **Community trust at stake**

Al can't replace stewardship

#### **Identity, Trust & Quality Checks** → **Critical**

#### Ensure Open Source AI: Models, Platforms, ...

#### Fast-track Innovation & Ecosystem

- Global collaboration
- Rapid iteration, more ideas, robust tools

#### Accessibility & Market Fairness

- Lowers entry barriers for startups, academia, governments
- Supports regional innovation (e.g., Latam-GPT)

#### Standards, Interoperability & Reproducibility

 Encourages shared protocols and scientific rigor; vital for regulated sectors

#### • Trust, Ethics & Auditing

Public auditability builds confidence; ethical tools evolve in open forums

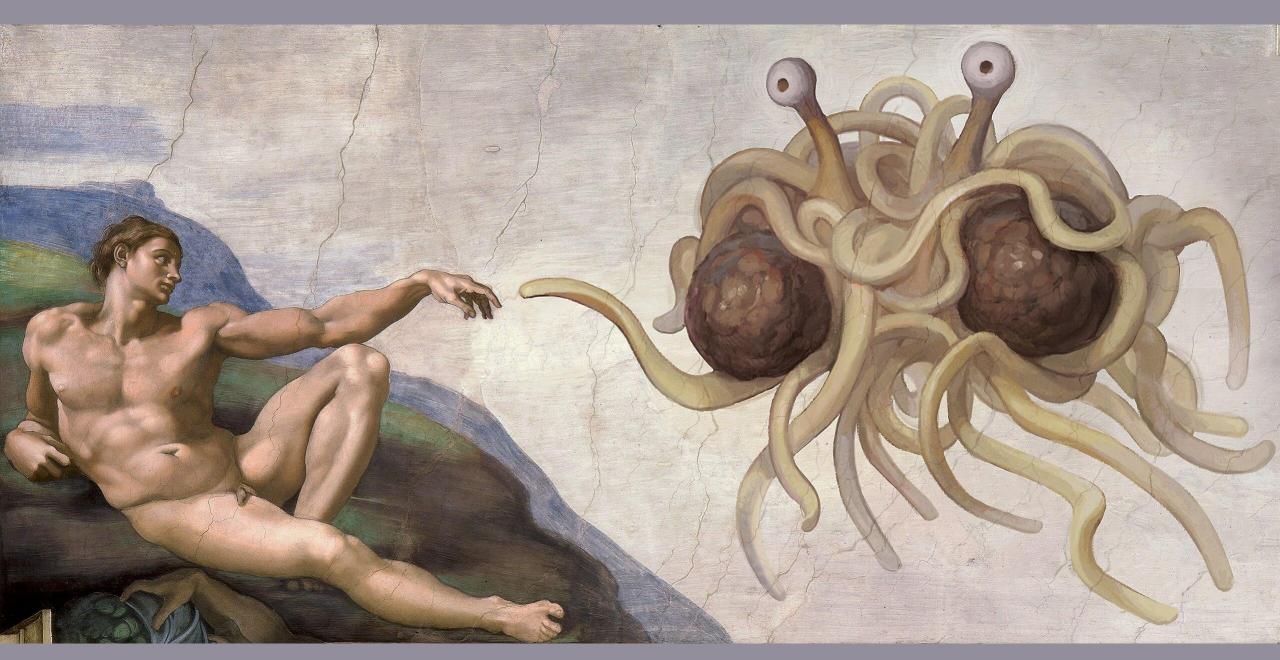
#### Sovereignty & Strategic Autonomy

Control over AI, aligned with local values and global balance

#### Supports Open Source Community Values

Reinforces collaborative norms, reinvestment, talent development





https://www.androidarts.com/fsm/index.htm

#### Freedom or Not? The OSS Paradox

#### in the proprietary/commercial/hybrid community

- Opportunistic Open Source
  - Profit-driven use of the "open source" label
- Profit Over Principles
  - Business gains prioritized over community values
- Hollow Commitments
  - Lip service to Open Source ideals without meaningful contribution
- Deceptive Marketing
  - Promoting openness while pushing proprietary models
- Community Betrayal
  - Exploiting goodwill without giving back
- Standards Undermined
  - Interoperability takes a back seat
- Tech Oligarchy
  - Large vendors steering projects, consciously limiting diversity and innovation





#### Ford Foundation

#### Our Lea

### Open Source Software: The \$9 Trillion Resource Companies Take for Granted

Many companies build their businesses on open source software, code that would cost firms \$8.8 trillion to create from scratch if it weren't freely available. Research by **Frank Nagle** and colleagues puts a value on an economic necessity that will require investment to meet demand.

Featuring <u>Frank Nagle</u> and Manuel Hoffmann. By Rachel Layne on March 22, 2024.











OpenForum Europe and Fraunhofer ISI conducted a <u>study on the impact of Open Source Software and Hardware on technological independence, competitiveness and innovation in Europe</u> for the European Commission. The project aimed to provide solid evidence for shaping European Open Source policies for the years to come is now over, thank you to all contributors who supported our research.

The European Commission published our study on the impact of open source software (OSS) and open source hardware (OSH) on the European economy, conducted by Fraunhofer ISI and OpenForum Europe on 6 September 2021. <u>Full report is available here</u>. The study estimates that open source software contributes between €65 to €95 billion to the European Union's GDP and promises significant growth opportunities for the region's digital economy. To achieve that, the EU should actively engage in a transition towards more openness in its political and investment culture.

Sachiko Muto, the CEO of OpenForum Europe: "Open source offers a greenfield advantage for policymakers and Europe has the chance to lead."

#### Roads and Bridges: The Unseen Labor Behind Our Digital Infrastructure

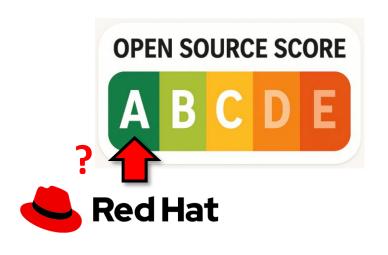
14 JULY 2016

RESEARCH REPORTS

As Eghbal outlines, digital infrastructure should be treated as a necessary public good. Free public source code makes it exponentially cheaper and easier for companies to build software, and makes technology more accessible across the globe. However, there is a common misconception that the labor for open source projects is well-funded. In reality, it is largely created and maintained by volunteers who do it to build their reputations, out of a sense of obligation, or simply as a labor of love. The decentralized, non-hierarchical nature of the public coding community makes it difficult to secure pay for coders, yet the work that emerges from it is the foundation for a digital capitalist economy. Increasingly, developers are using shared code without contributing to its maintenance, leaving this infrastructure strained and vulnerable to security breaches.

#### **Trillions Extracted, Eurocents Contributed?**

- Is it time for an Open Source Contribution Balance Sheet?
  - We measure CO₂ emissions. We disclose them. If you pollute too much, you pay
- Imagine this in every annual report & EU procurement bid
  - People: Maintainers funded & employee time upstream
  - Money: Grants, enterprise OSS payments, memberships
  - Infrastructure: Cloud credits, CI pipelines, tooling
  - Metric: (1)+(2)+(3) as % of revenue or market cap
- Set a baseline. Make it transparent. Reward leaders.
  - Without accountability, we risk OSS-washing while communities erode
- Would your organization dare to publish its OSS balance sheet?
  - To be benchmarked with others?
- Which metric would you add?





## Yesterday's practices aren't sufficient for today's and tomorrow's

## Challenges

# **Digital Sovereignty Defined?**

### sovereignty noun

variants or less commonly sovranty

plural sovereignties also sovranties

Synonyms of sovereignty >

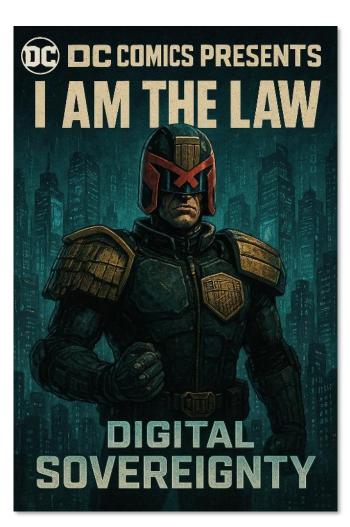
sov·er·eign·ty ('sä-v(ə-)rən-tē ◄)) -vərn-tē, also 'sə-

- **a**: supreme power especially over a body politic
  - **b**: freedom from external control: **AUTONOMY**
  - c : controlling influence
- 2 : one that is sovereignespecially: an autonomous state

#### **Data Sovereignty**

**Operational Sovereignty** 

**Technical Sovereignty** 



#### Supreme and Independent Power

- No higher authority can override decisions
- Full control over laws, policies, or operation

#### Self-Determination and Autonomy

- The ability to act independently without external interference
- Freedom to set rules and operate without dependence on outsiders.

#### Legitimate Authority

- Backed by legal, historical, or democratic legitimacy
- Recognized by others as having rightful control.

#### Crisis Decision-Making Power

The ability to act beyond normal rules in emergency situations

#### Enforcement and Control

- The power to enforce rules and impose consequences
- Without enforcement, sovereignty is symbolic rather than real.

#### Recognition (for states and organizations)

Others acknowledge and respect sovereignty

...

Currently, over 80% of Europe's digital infrastructure and technologies are imported, creating systemic vulnerabilities and hampering the region's capacity for innovation and selfreliance

Data and artificial intelligence



Software



Cloud



Internet of things & devices



Networks



Chips



Raw materials, energy, and water





### **Island Mode Test!**

- Your personal "brute force" test to verify how sovereign you are in practice
- Imagine you cut everything that is outside your sovereign control:
  - No external connectivity
  - No external repository access
  - No external API access
  - No external DNS service.
  - No external documentation
  - No external subscription activation check
  - No external vendor support
  - No external operators
  - No external updates or patches
  - ...



What does this mean for Open Source?

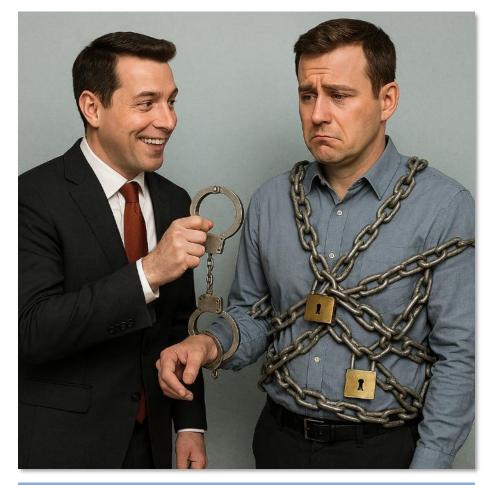


#### • Ask yourself:

- Legal: Can you compel your vendors?
- Hardware: Can you repair/replace without imports?
- Software: Can you operate & patch without the vendor?
- **Skills:** Do you have the expertise in-house?
- **Standards:** Can you interoperate on your own terms?
- Sovereignty gap = dependencies you cannot control
- Goal: Ensure resilience & autonomy
  - → not isolation, but choice.

## Vendor Lock-in: Hidden Risks in Our Digital Engine

- Vendor lock-in is multi-dimensional
  - Business, technical, operational, sills, ecosystem, ...
- End-user experience often hides lock-in
  - Seamless services mask dependencies, learning curve is not to be ignored
- Questionable Open Source practices can create lock-in
  - Proprietary extensions (often subtle), limited support, limited upstream
- Digital sovereignty at stake
  - Overreliance on a single vendor undermines control





What does this mean for Open Source?

# Open Source as a Lever for Digital Sovereignty?

- <u>Linux Foundation Report finding (2025)</u>
- Widespread impact
  - Open Source is embedded across domains (64% IT infra, 55% cloud/containers, 54% web/app dev, 41% AI/ML)
- Clear benefits
  - 90% see sustained/growing value
  - 75% report higher quality
  - 69% greater competitiveness
  - 63% higher productivity with reduced lock-in and costs
  - 58% expect most innovation gains from Open Source
- Sovereignty opportunity
  - 38% prioritise Open Source for AI/ML
  - 52% want stronger government adoption to strengthen Europe's Open Source ecosystem



#### Gaps to close

- Only 34% have an Open Source strategy
- 22% have an Open Source Programme Office
- 28% employ full-time Open Source contributors
- C-level awareness lags (62% vs 86% among practitioners)

Cailean Osborne and Adrienn Lawson, "Open Source as Europe's Strategic Advantage: Trends, Barriers, and Priorities for the European Open Source Community amid Regulatory and Geopolitical Shifts", foreword by Cédric Gégout, The Linux Foundation, August 2025.

https://www.linuxfoundation.org/research/world-of-open-source-eu-2025

# Open Source as a Digital Sovereignty Driver

#### Strategic Open Source as a countermeasure

• Micro-Communities, reusable components, enterprise open source

#### Visibility is key

Knowing all components, dependencies, and upstream ecosystems

#### Control & Transparency

• Full access to "code". Audit, adapt, govern independently

#### Operational Autonomy

• Run it on your own terms without foreign dependency

#### Legal & Contractual Leverage

OSS avoids one-sided contracts and supports EU procurement sovereignty

#### Data Protection by Design

Aligns with GDPR & local compliance. Data stays under EU control

#### Ecosystem Resilience

Builds local skills, reduces geopolitical risk, fosters European innovation





interoperable europe

Policy

ns Support

### 04/2025: EU launches Open Source Solutions Catalogue

https://interoperable-europe.ec.europa.eu/

#### **EU Open Source Solutions Catalogue**

Solutions created by and for European Public Services

Welcome

Search About

conne Sedicii Ab

About

☐ Bookmark 🖒 Like (2) 💁 Translate

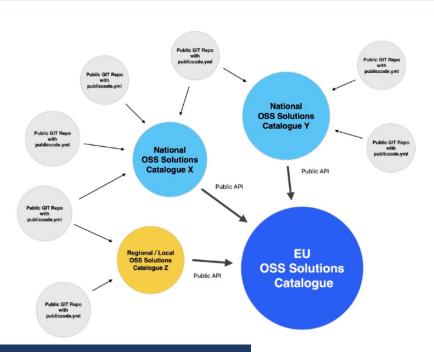
The EU Open Source Software Solutions Catalogue (EU OSS Catalogue) has been created by the FOSSEPS Preparatory initiative, Free and Open Source Software for European Public Services, which aims to promote cooperation at European Union level by giving visibility and facilitating the sharing and reuse of Open Source Solutions developed "by and for" public sector bodies in the European Union Member States.

This catalogue is based on a federated architecture of public APIs that generates a central pool of OSS Solutions collected by OSS Solutions Catalogues from EU Member States, at both National and Local level.

#### EU OSS Solutions Catalogue Federation Requirements

The Federation and integration of a National/Local Catalogue into the EU OSS Catalogue are made possible by the following architectural conditions and technical constraints:

- Each National / Local OSS Catalogue should be a collection of OSS Solutions developed "by and for" public sector bodies and stored in public GIT repositories;
- Each OSS public GIT repository should implement the publiccode.yml metadata standard: this ensures that each OSS Solution has its specific qualification in the context of Public Services (more info on this below);
- 3. Each National / Local OSS Catalogue should provide
  a publicly accessible API that can provide the list of
  its OSS public GIT URLs: this condition allows the EU
  OSS Catalogue to federate (fetch and continuous
  synchronise) from original sources catalogs;



#### Interoperability and open standards are key!

#### 02/2025: UN launches Open Source "Principles

https://unite.un.org/





#### Office of Information and Communications Technology

lome ICT Security Emerging Technologies Ethical Technology Field Technology About OICT

#### The UN Open Source Principles

- 1. Open by default: Making Open Source the standard approach for projects.
- 2. Contribute back: Encouraging active participation in the Open Source ecosystem.
- 3. Secure by design: Making security a priority in all software projects.
- Foster inclusive participation and community building: Enabling and facilitating diverse and inclusive contributions.
- 5. Design for reusability: Designing projects to be interoperable across various platforms and ecosystems.
- 6. Provide documentation: Providing thorough documentation for end-users, integrators and developers.
- 7. RISE (recognize, incentivize, support and empower): Empowering individuals and communities to actively participate.
- 8. Sustain and scale: Supporting the development of solutions that meet the evolving needs of the UN system and beyond.

We invite other organizations to join in support of the UN Open Source Principles and in contributing to a future of open, inclusive digital solutions worldwide.

To Endorse the UN Open Source Principles, Submit Your Organization's Information Here.



# Open source is the way forward for digital

# SOVEREIGNITY

and long term autonomy



# Key takeaways...

- Open Source quietly powers our digital society
  - Until it becomes visible for the wrong reasons
- Visibility and trust are non-negotiable
  - SBOMs, identity, and community health matter
- The Open Source future needs more than consumption
  - Invest, contribute, and nurture (micro-)communities with (macro-)impact
- Al and automation can strengthen or shatter
  - How we govern it decides which
- Digital sovereignty means control, interoperability, and freedom
  - Not accidental lock-in, have a plan
- Communities are hard but worth it
  - Collaboration beats isolation every time
- Join & Build Communities: Every type of contribution matters
- Protect Trust: Safeguard confidence in Open Source and public sector systems
- Sustainable XaaS: Promote open services and open cloud for a resilient public sector
- Embed Methodically: Establish structural approaches to integrate OSS into our digital landscape



# Open source is a STRATEGIC ASSET

Treat it accordingly!





# Reimagining Open Source Together!

Think beyond code

