

openDesk on openCode

How to Build Sovereign
Software for the Public Sector



**Zentrum
Digitale
Souveränität**



Leonhard



Alex



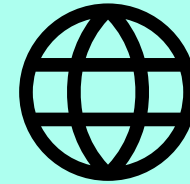
1.000.000.000 EUR

Centre for Digital Sovereignty



**Public
Administration**

**Zen
DiS**



**OS-
Ecosystem**

ZenDiS in a Nutshell

Zentrum für Digitale Souveränität



State-owned startup
100% publicly-owned



Function
Open Source Programme Office and active
solution supplier
for German Public Administration



International partnerships
France, EU, UN etc.

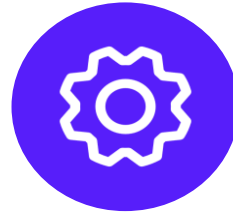
Digital Sovereignty

Having a **choice**



Providing
alternatives

Being free to **adapt**



Ensuring
adaptability

Having a **voice**



Building
competence

**Zen
DiS**

**Zentrum
Digitale
Souveränität**



openDesk

Office & Collaboration Suite

www.opendesk.eu/en



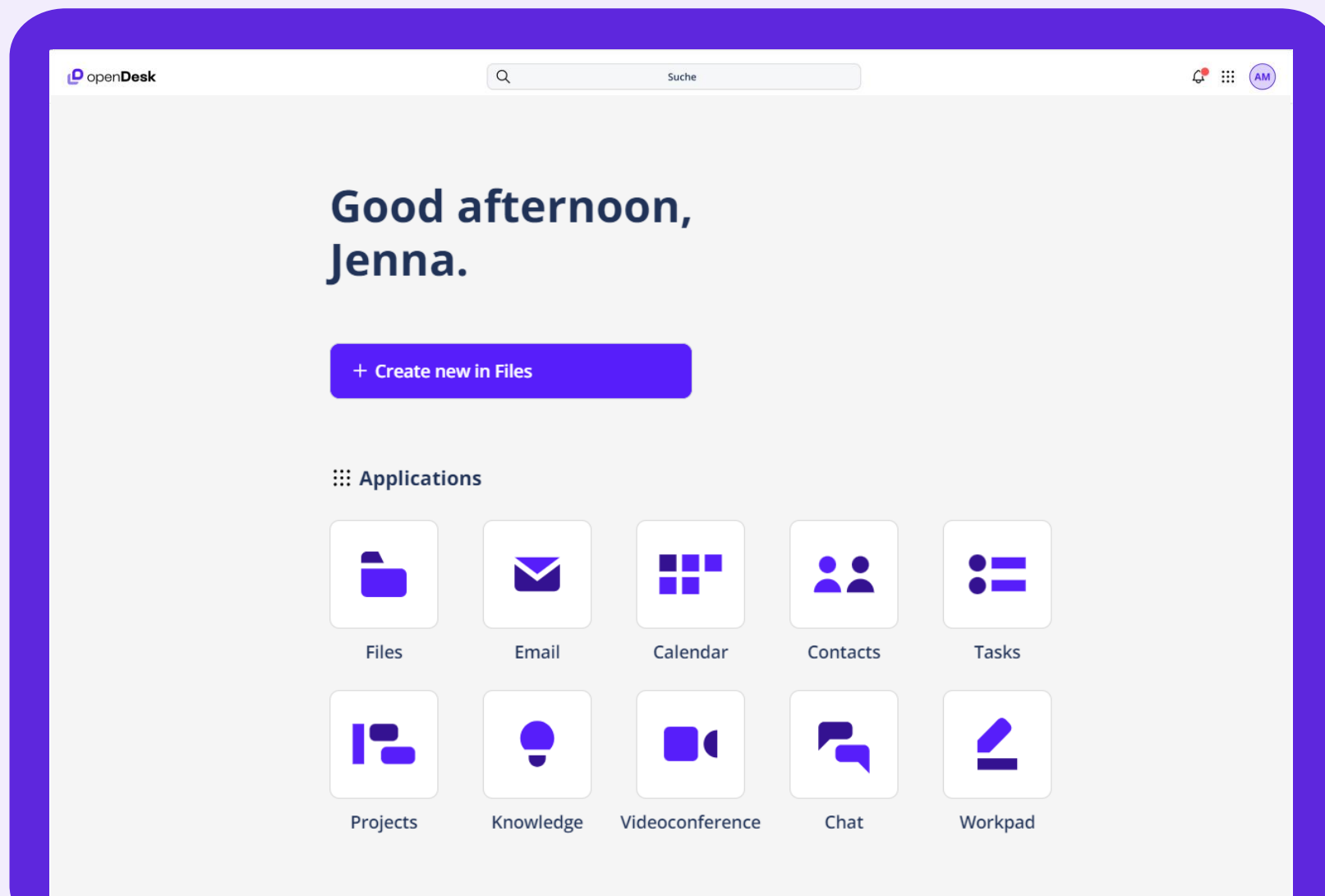
openCode

OS-Platform

www.opencode.de/en



Office & Collaboration Suite



Partner of openDesk



Zentrum
Digitale
Souveränität



element
by the creators of Matrix



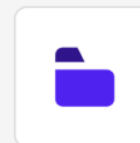
Stay Open.



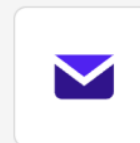
Guten Tag, Jana.

+ Erstelle neu in Dateien

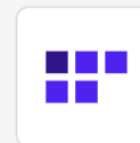
🗖️ Anwendungen



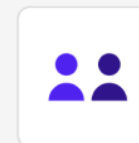
Dateien



E-Mail



Kalender



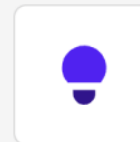
Kontakte



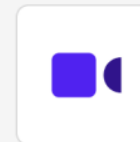
Aufgaben



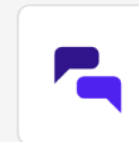
Projekte



Wissen



Video-
konferenz



Chat

Updates

1.200+

Inquiries

since launch by public administrations and
institutions

Updates

40.000+

Active Users
of openDesk Enterprise

openDesk

Deployability

Self-hosted community edition

in a small, private
data centre
environment

SaaS enterprise edition

in a commercial
data centre

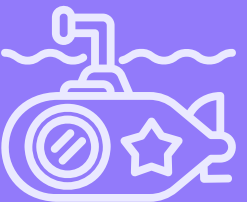
Self-hosted enterprise edition

in a
publicly-owned
data centre

Confidential cloud enterprise edition

in a commercial
data centre

Special infrastructure



openDesk ❤️ openCode

Developer Experience

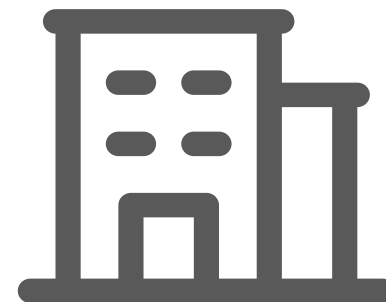
the key to a secure OS product



Idea



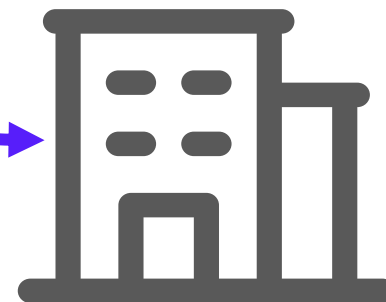
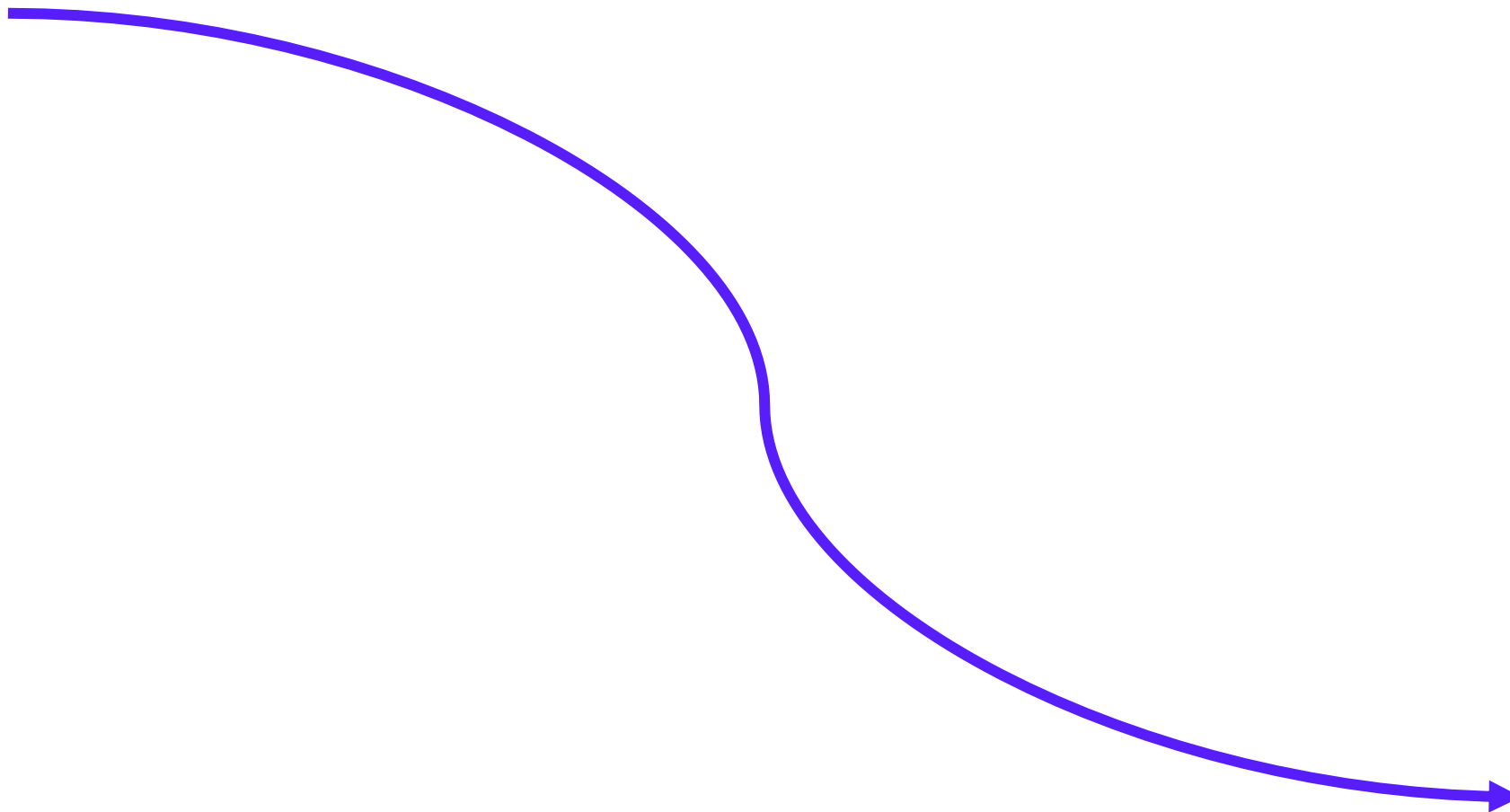
Idea



Public Sector



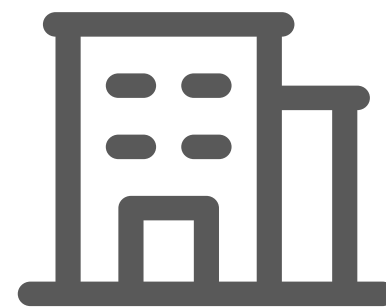
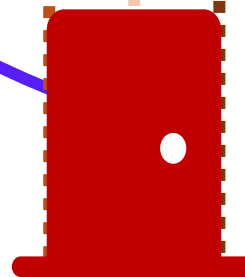
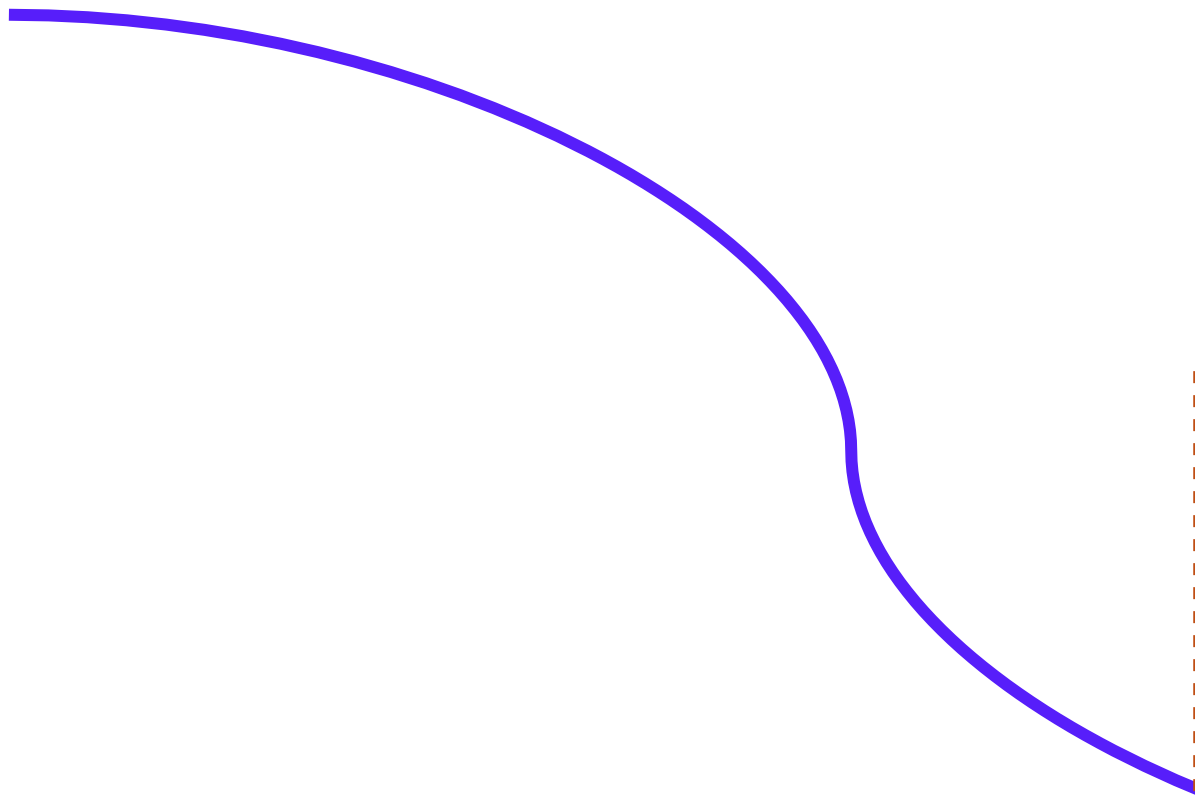
Idea



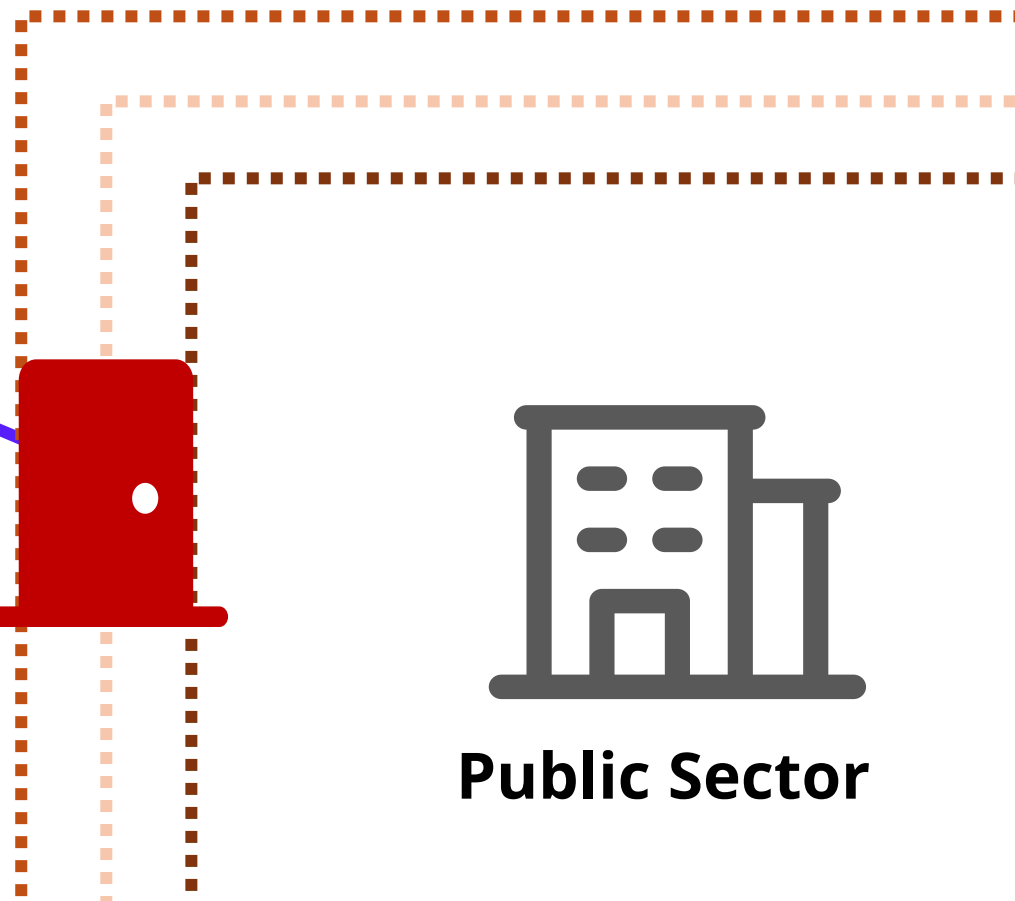
Public Sector



Idea



Public Sector

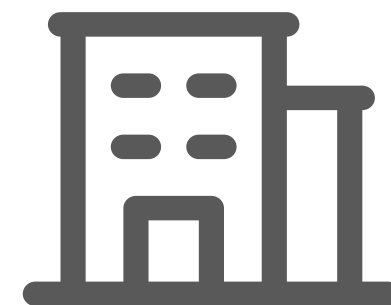
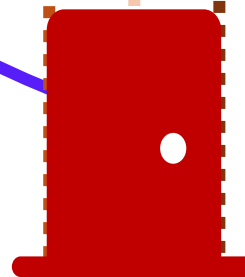




Idea

1. Quality and features
2. Procurement and compliance
3. Security
4. Support

How to get in?

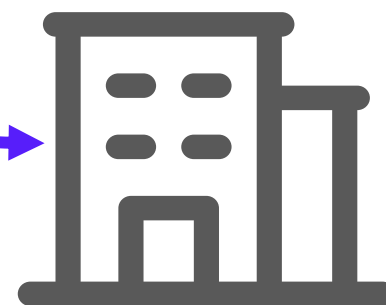
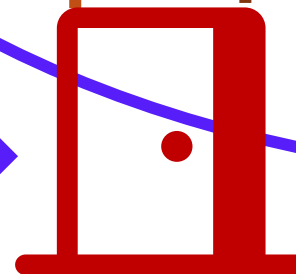
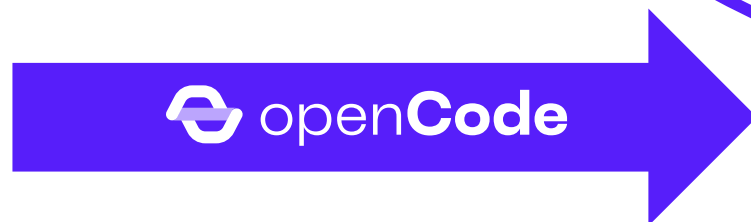


Public Sector

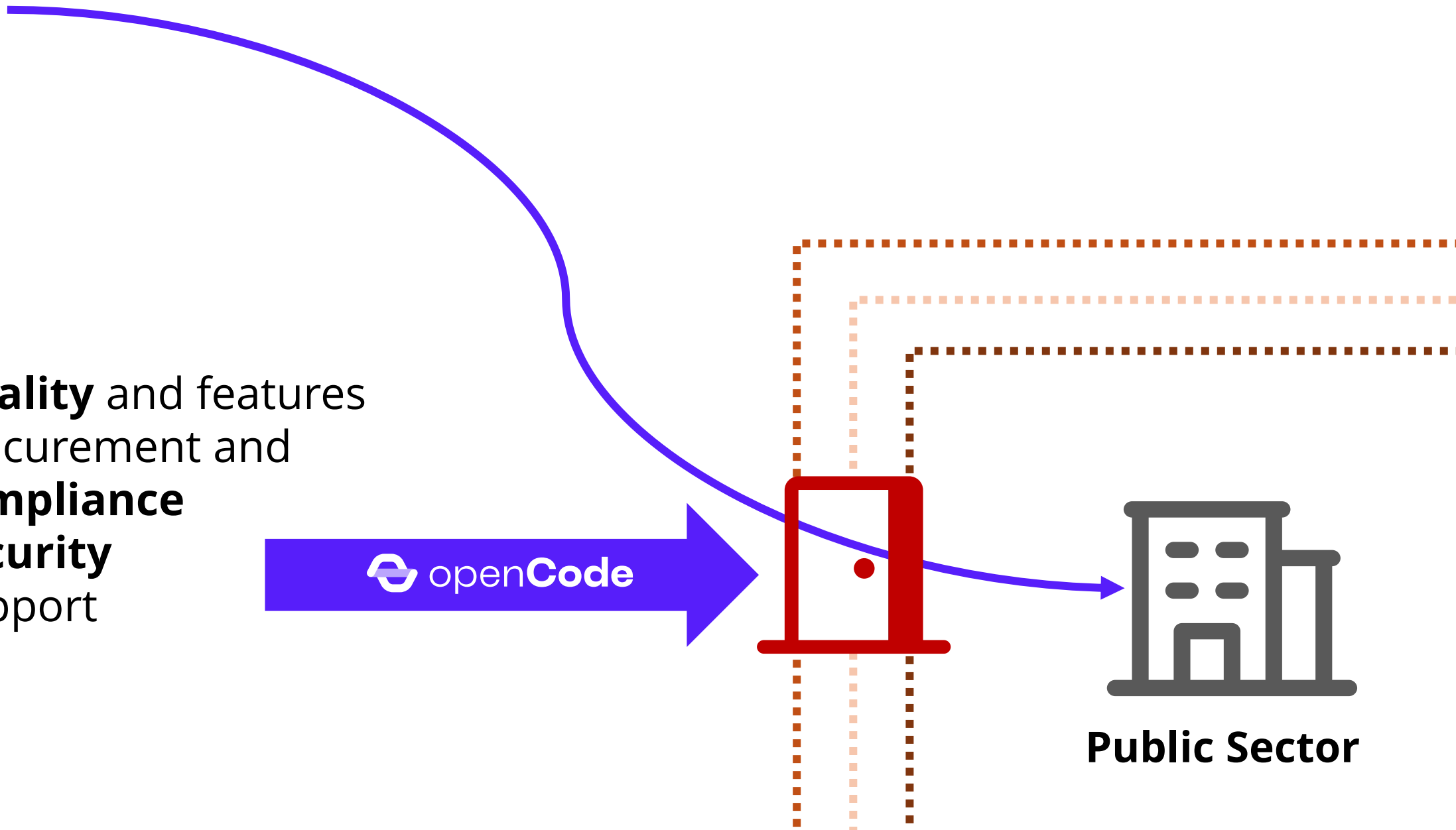


Idea

1. **Quality** and features
2. Procurement and **compliance**
3. **Security**
4. Support



Public Sector



openCode as Enabler for Digital Sovereignty

Skills, services and solutions for the public sector to
strengthen digital sovereignty through open source

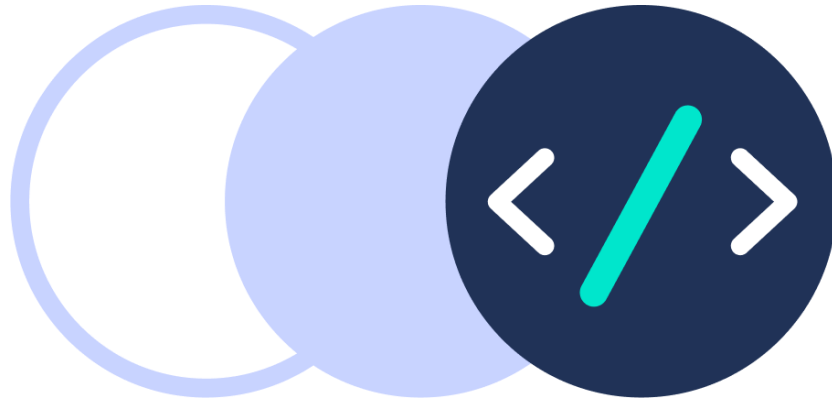
From software directory to
platform for digital
sovereignty

openCode 1.0

- 1 Software directory for the public sector
- 2 Open source criteria and definition
- 3 Licence catalogue
- 4 Platform for collaboration
- 5 Policy and governance advice



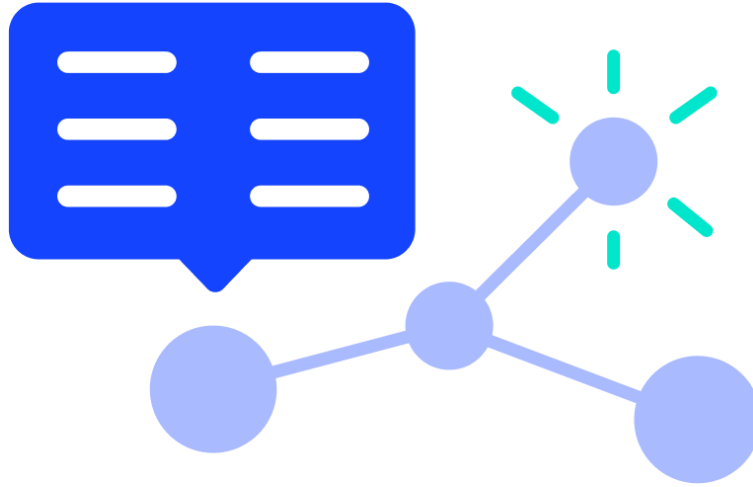
Discovering and understanding open source



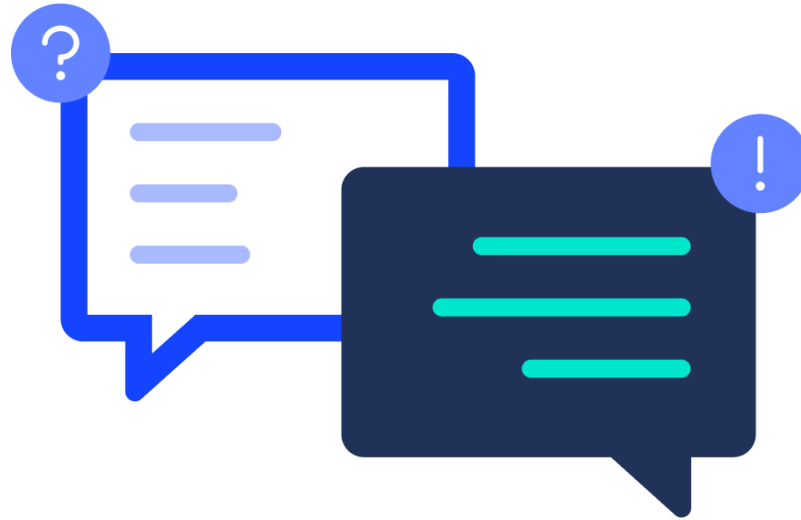
Sharing and developing code



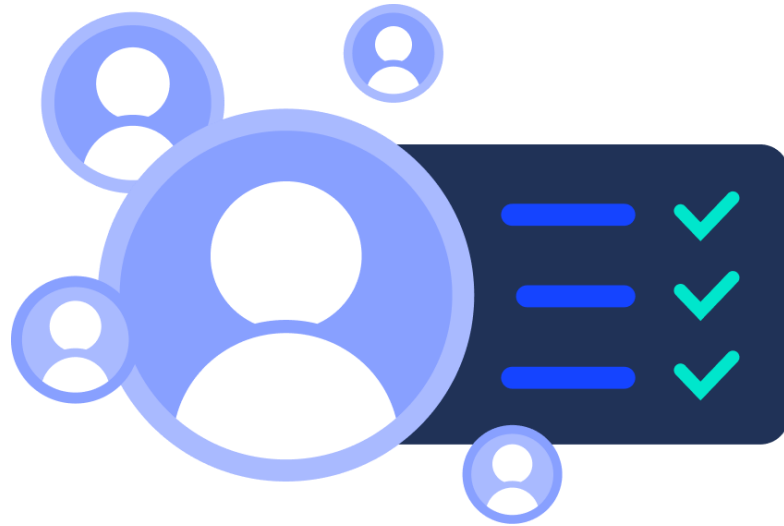
Finding and using software



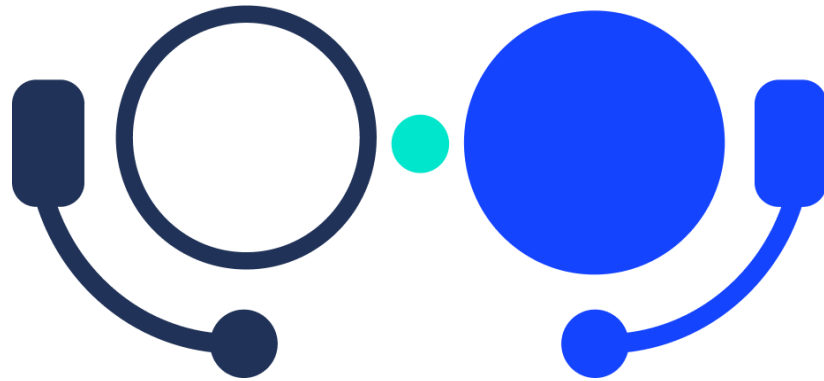
Documenting and sharing knowledge



Offering and participating in discourse



Fostering community



Understanding and supporting users

~5,400 Users

2024 ~2,500,
almost double number
of users

>1,000

public repositories,
a total of over 2,300
repositories

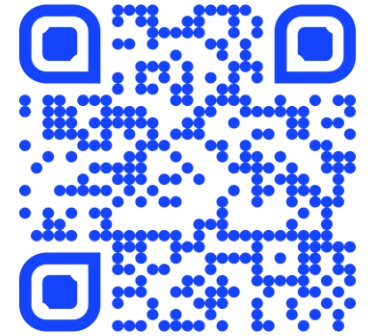
**Over 60
projects**

use openCode to host their web
content, including opendesk.eu

Become part of a lively network for Digital Sovereignty

Community of communities

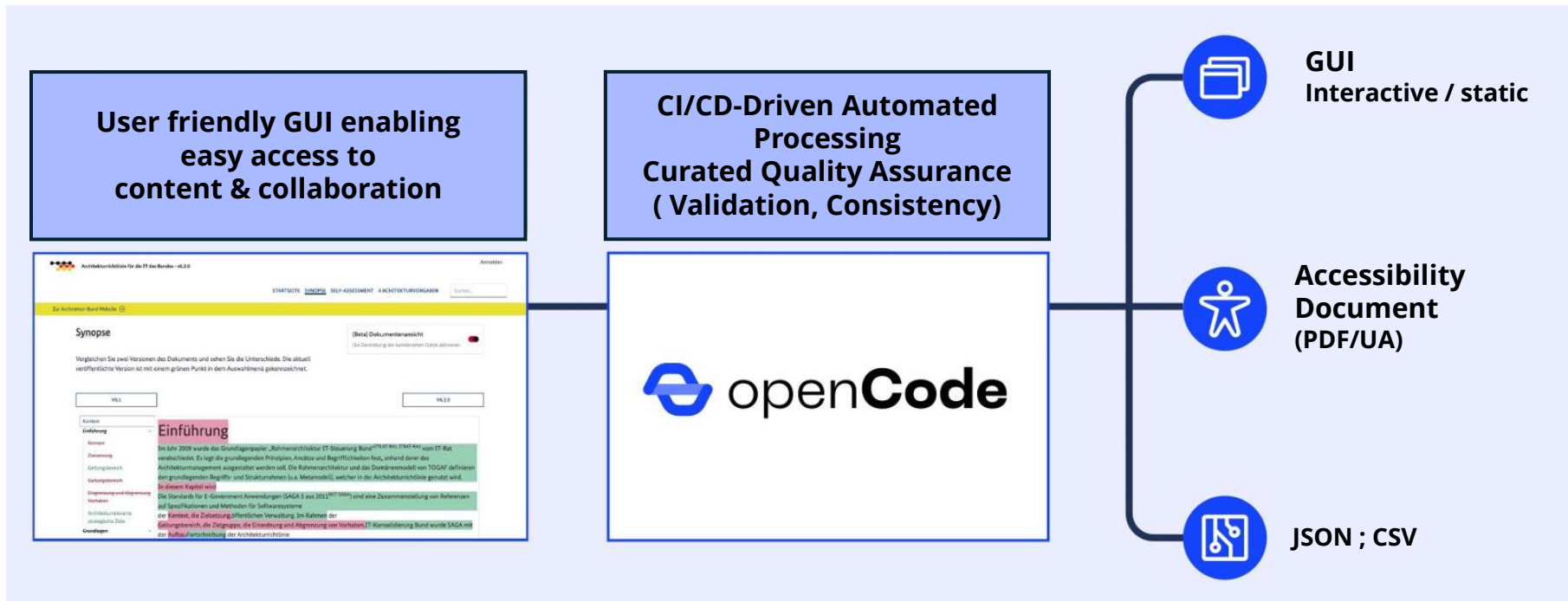
- ✓ **Support and Consulting:** Direct support and weekly consultation hours
- ✓ **Access to GitLab:** Upload / download, submit and develop projects
- ✓ **Knowledge exchange:** Benefit from practical experiences
- ✓ **Regular events:** Info sessions, discussion formats and community calls
- ✓ **Networking:** Personal exchange with experts in the discussion forum



<https://opencode.de/en/events>

Update of the Federal Government's IT-Architecture Policy

Open collaboration and OSS-Toolkit



Used by
Federal IT ArchRL

Recognising software quality

Outlook: Badge Program 2025



v2.1

Badge:

- + Actively maintained
- + In production use
- + Open Source



v2.2

Badge:

- + CVE check



v2.3

Badge:

- + sovereign supply chain

We show at first glance

- Is the software actively maintained?
- Is the software already being used?
- Should I worry about the supply chain?



open**Code** publiccode.yml



openDesk's Mission



Providing an open-source workplace solution for public administration that can be used anywhere.



Cloud approach based on
container technologies



Stability

How reliable is the supply of containers?

(What happens if Dockerhub is no longer easily available?)

2

Security

How secure is the supply chain? Do we know the supply chain?



Trust

Who created the containers for the application?

4

Tools

How can we use the SBOM data to provide quality and safety analysis?



Modern cloud infrastructures are highly
dependent on the distribution of
containers



Trust

Public sector as infrastructure provider



Stability

Public sector as a decentralised container image supplier



Security

Hardening and ensuring container safety



Tools

Infrastructure and tools to derive situation report from the repository and SBOM data

Beyond openCode 2.0

- 1 Providing a secure build and development environment
- 2 Attestation services provider
- 3 Establishment of a registry for artifacts for software production
- 4 Criteria for supply chain evidence and secure builds
- 5 Decentralised distribution of components internationally

Tasks of a decade

Thinking about digital sovereignty on a European scale – architecture and infrastructure

openCode as a blueprint –
Community Edition for Europe



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