Open Innovation and Open Source in Schleswig-Holstein

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Importance of Digital Sovereignty

The **IT of public administration** has become a **critical part of operations**, and its **functionality is systemically relevant**.

Digital Sovereignty

Digital sovereignty means that **individuals** and **institutions** have the **capabilities and skills** to fulfil their **roles** in the digital world **independently**, **autonomously** and **securely**.

Risks of Proprietary Software

1. Limited power to shape our IT Systems

2. Limited transparency

3. Security risks

4. Monopolistic pricing

Future of Administration

moving to cloud – increase

dependencies due to

vendor cloud systems

guiding principle
of the
digital
administration

Auto-
mation-
driven

Algo-
rithm-
driven

Data-
driven

Cloud-
driven
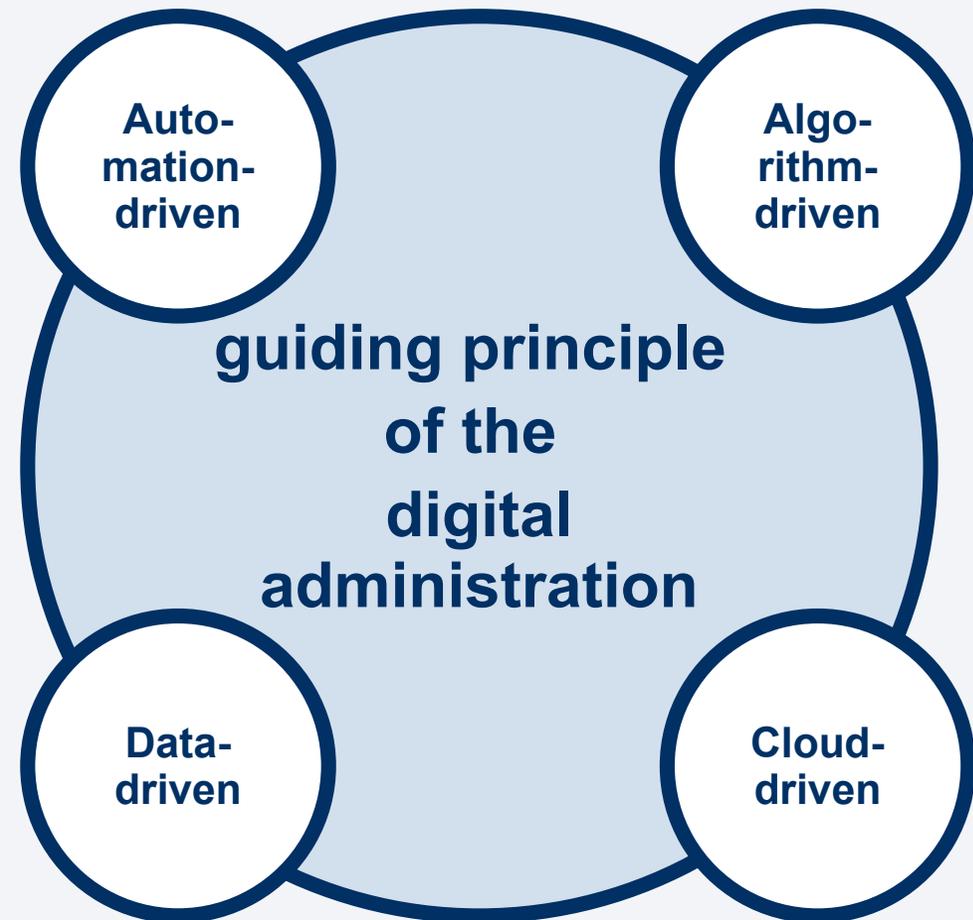
Targets with Digital Sovereignty

1. Be able to influence the operational processes of our IT systems

2. Be in control of government data (citizen and company data)

3. Be able to influence the design of solutions

4. Minimize security risks

5. Reduce economic/ cost risks

Ensuring Digital Sovereignty

Ensure digital sovereignty and save autonomy by:

1. Diverse Provider Landscape

2. Adopting Open Standards

3. Implementing and Using Open Source Software

IT-Security

➢ **IT security for government, critical infrastructure, and security-relevant applications is at risk without full access to source code**

➢ **Using of Open Source**

  ✔ **critical infrastructures can be operated, adapted, and controlled independently**

  ✔ **IT security and data security are improved through transparency and adaptability**

Administration as Innovation Driver

Creating an environment that fosters:

➢ **Open Innovation** in a whole **ecosystem,** that brings together
different stakeholder to support regional digital open source
economy

➢ **Open Source** and **Open Standards** in our **state-IT**

Digitally Sovereign IT Workplace SH

State IT: Schleswig-Holstein is transitioning to Open Source

Linux (LX)

Conceptualization of an open-source based operating system.

Deployment of Linux for workplaces to replace Microsoft Windows.

Video Conference

Customization and rollout of the Jisti Meet and Open Talk for Video-Conferencing.

LibreOffice (LO)

Customization and rollout of the LibreOffice open-source office suite.

Replacement of Microsoft Office with LibreOffice

Collaboration and Groupware

Utilization of open-source products such as Nextcloud, Open-Xchange, and Thunderbird.

Integration with Univention UCS AD-Connector to replace Microsoft SharePoint and Exchange/Outlook.

New Directory Service

Development of an open-source based directory service.

Replacement of Microsoft Active Directory.

Specialized procedures

Assessment of specialized procedures for compatibility and interoperability with LibreOffice and Linux.

New Telephony

Development of an open-source based telephony solution (OSKAR).

Replacement of Telekom-Flexport.

Implementation Challenges

1. **Use of specific IT-application** in which Microsoft software is deeply embedded

2. **Document sharing** with other states and federal level

3. **Change Management**

Budget and Procurement

1. **<u>Budget</u>:** share of Open Source in public IT procurement spending must be gradually increased at all governmental levels - federal, state, and municipal

2. **<u>Procurement</u>:** laws must be adjusted to create targeted opportunities for prioritizing Open Source solutions
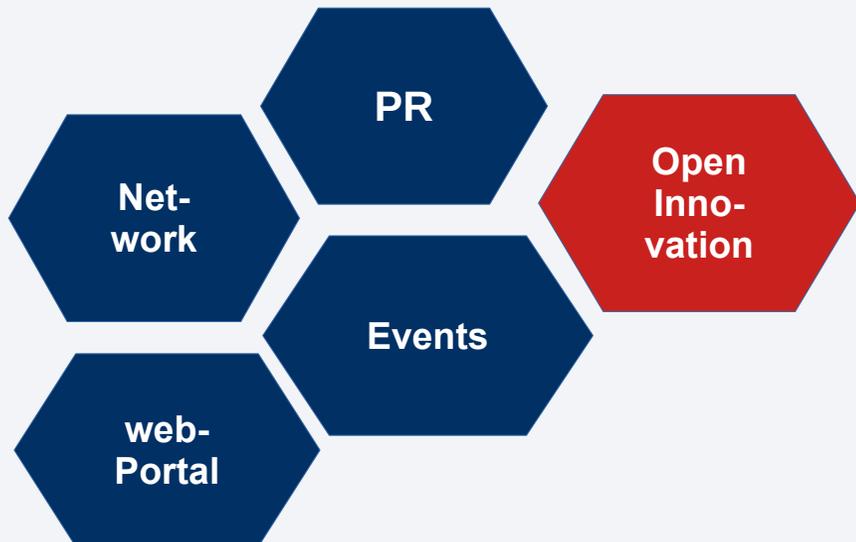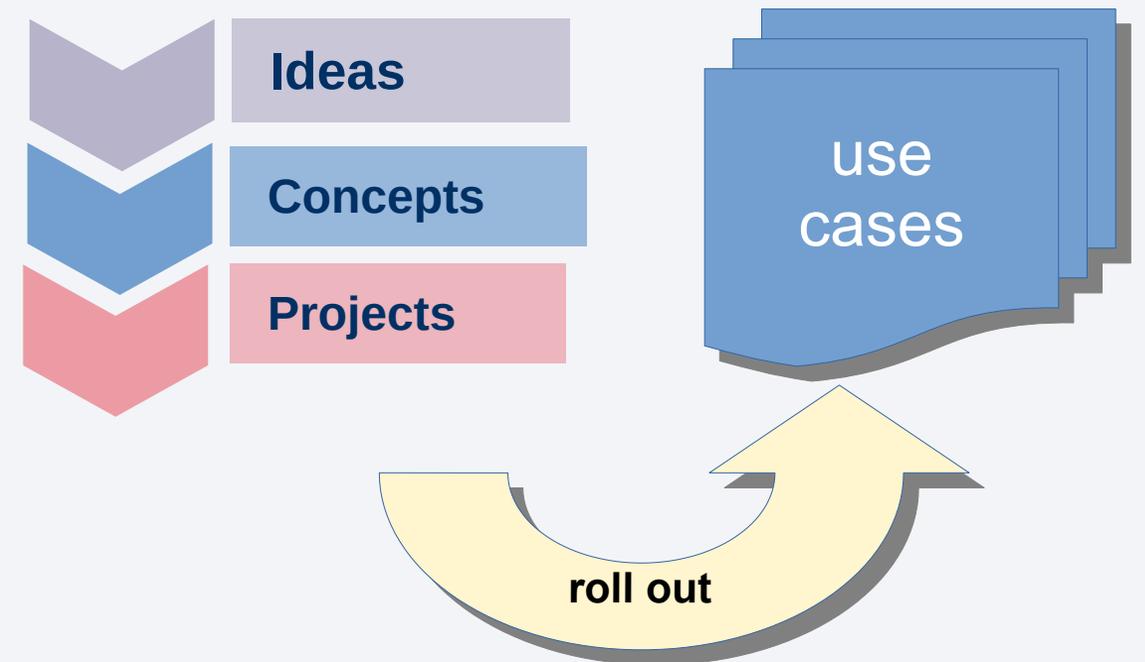
Open Innovation: Electronic Case File

What problem is being solved?

- High time loss due to paper-based and inefficient administrative processes.

- Lack of storage options makes it difficult to comply with retention obligations.

What does the new solution offer?

- Further development of an existing proprietary solution into an open-source-solution

- Simplification of collaboration and cooperation within the association

Involved project partners:

AKJS SH
Aktion Kinder- und Jugendschutz

MACH®
Verwaltung macht Zukunft
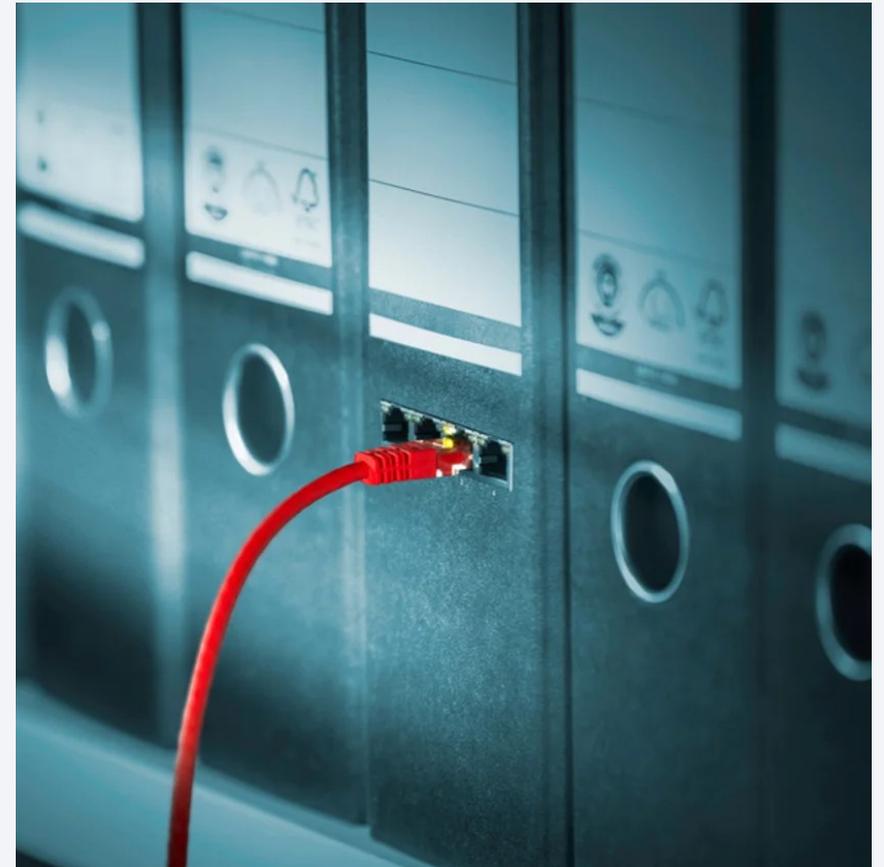
Open Source Program Office

An Open Source Program Office (OSPO) is an **intra-organizational** or **intra-administrative** central coordinating office. It steers the **strategical usage**, the **development** and the administration of open-source software.

The **OSPO Schleswig-Holstein** takes this part from the federal state administration and stands for:

➤ community management & networking between administration, economy & society (DigitalHub)

➤ transparency & open governance

➤ digital sovereignty through open-source

➤ strategy (& steering) of open-source-usage

It is the central point of contact for all open source activities and ensures a sustainable, independent and innovation-promoting IT landscape for Schleswig-Holstein in the long term.

OSPO SH - Shaping strategic Open Source

Establishment
OSPO SH

incorporation in IT, organization & culture

OS Strategy

OS Compliance

OS Ecosystem

- Support local administration (via ITV.SH)
- Networking with other OSPOs
- Cooperation with the federation, federal states, ZenDiS
- Promotion of economic OSPOs (via DigitalHub)

Network participation

Event offers & participation

Regional	Federal	International

Economically impact

➢ **Study by EU Commission** (2021): 10 percent increasing contributions to OSS software would generate an additional economic growth in der EU between 0.4 percent and 0.6 percent, as well as more than 600 additional ICT start-ups in the EU.

➢ **Harvard-Study** (2024) „… find that firms would need to spend 3.5 times more on software than they currently do if OSS did not exist."

Contribution to the UN's Goals:

The promotion of **open source** paradigms and the cultivation of **digital sovereignty** within the context of Schleswig-Holstein's governance framework resonate with a spectrum of **United Nations Sustainable Development Goals** (SDGs)

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

11 SUSTAINABLE CITIES AND COMMUNITIES

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

Goal 17:

Advocating for open-source practices and digital sovereignty in Schleswig-Holstein supports **collaboration** and **knowledge sharing** among governments, businesses, and civil society. This cooperative effort strengthens **global partnerships** and broadens access to technologies, which is crucial for **sustainable development**.

To Do-List

1. **Binding Open Source Strategy:** clear roadmap and milestones

2. **Procurement laws-reform:** allow public administrations to prioritize Open Source

3. **Budget shifting/ redesign:** shifting money from licenses to development, training, and community building

4. **Political leadership:** courage to act

5. **Understanding:** sovereignty requires systemic changes and not just technical replacements

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