**Context**
- Rise of big data and learning analytics in education.
- Open data used for evidence-based research.
- Ethical and legal concerns associated with handling data in education, addressed by regulations (e.g., GDPR).

**Problem**
Limited support for researchers to generate, access, and share experimental data using openly-available digital education platforms.

**Solution**
Study how to enhance educational platforms with features that would allow researchers to:
- run studies within typical learning environments;
- adhere to legal and ethical frameworks when handling sensitive data;
- share their data sets confidently with a wider audience.

**Survey Results**

### Usage of Open Data
- Most participants (53%) used open data in their research.
- Related Concerns:
  - Data format is not easy to use (76%).
  - License for using data is not always clear (45%).
  - Data authenticity cannot always be ensured (45%).

**Sharing Research Data**
- Platforms should support interoperable data formats, clear licensing, and data authenticity certificates.

**Data Management & Sharing**
- Participants (73%) are more inclined to share their research data if platforms provide guidelines and tools for data management and sharing.

**Ethics & Data Privacy**
- Follow Code of Conduct:
  - Only 40% had strategies or methods in place to handle data privacy-related processes in a reproducible way.
  - Need to store experiment data in custom locations (40%).

**Architecture**
- We present a user flow in order to address the requirements that emerged from our survey.
- Our blueprint is conceived to be compliant with ethical and privacy regulations and to empower all stakeholders.
- Our aim is to relieve researchers of the burdens of conducting data-sensitive experiments, support the adoption of best practices, and pave the way for open data policies in digital education.

**Future Work**
**Vision:**
- Open Science: FAIR services for Scientific Information at Swiss Universities. The aim is to improve the reproducibility and impact of research, as well as facilitate the participation of citizens in the scientific progress through Open Data.
- Exploratory projects regarding infrastructure, platforms and services to support Open Education.

**Next Steps:**
- Evaluation of data anonymization techniques in education data.
- Standards for interoperability for data management and publications.
- Usability study with a prototype of the blueprint.
- Consent forms for education.
- Distributed storage with blockchain.