

SWISS base

**Store and share
your research data**

**Benefit from
Swiss quality service**

**In line with
international standards**





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PROJECT

Context

Many institutions in the Swiss academic and data landscape are confronted with the challenges of managing research data and ensuring long-term preservation and accessibility, but do not have the tools nor the knowledge needed to fulfil these requirements.

The development and implementation of a large number of isolated local solutions is cost-inefficient and can not ensure accessibility. The use of private and international solutions brings substantial risks with respect to control and sustainability.

Hence, a national, public, sustainable and cross-disciplinary solution is needed.

Objective

To offer a national, cross-disciplinary research data service by extending and scaling up the established domain-specific social science research data service FORSbase.

Outcome

SWISSUbase is a research data service that provides a technical solution and services for the management of research projects and the archiving, dissemination, and promotion of research data and metadata across scientific disciplines.

Partners

- > FORS
- > University of Zurich
- > University of Lausanne
- > SWITCH

Supported by: swissuniversities

Launch

Available from January 2021



BENEFITS

for partner institutions

- > trusted and **certified in-house solution** for researchers to archive their data for the long term
- > **connectivity and interoperability on the European level (ERICs, EOSC, etc.) and the national level (SNSF P3, COSI)**
- > **sharing of development costs**
- > **data protection** in a secure environment (storage on SWITCH servers in Switzerland, GDPR compliance, access control, backup policies)
- > **CoreTrustSeal**-certified research data infrastructure (services, platform and technical infrastructure)
- > personal and **tailored archiving expertise** and support from SWISSUbase
- > **quality control** by archiving experts from SWISSUbase ensure high quality of deposited data and metadata
- > expertise from SWISSUbase in international metadata standards (e.g. DDI for the social sciences), user management, and certification processes
- > improved visibility of the data and of the data producers

for data producers

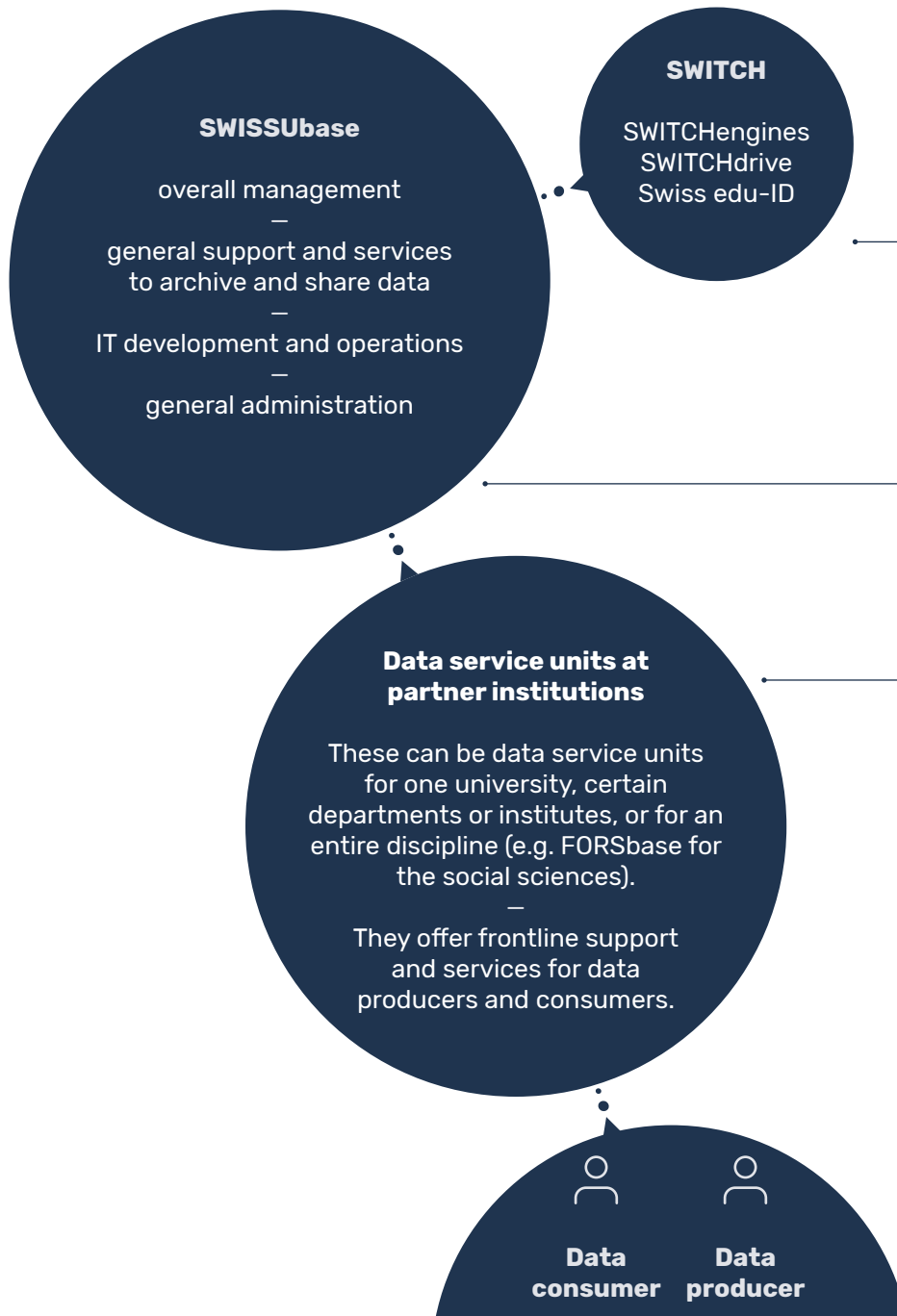
- > **common workspace** for research project teams to manage research data and metadata, synchronised with SWITCHdrive
- > data published in a **FAIR, OAIS-compliant, and non-commercial** repository (requirement of the SNSF)
- > data producers **control the access to their data** by defining the conditions of access to their data, ranging from open to highly restricted
- > certified, **trustworthy environment for long-term preservation** of data
- > free persistent identifiers for data (**DOIs**) for all published datasets
- > standardised data citations for all datasets for use in journal publications
- > data producers receive **information about who has downloaded their data**, and for which purposes
- > data producers can **improve the visibility** of their data, making their work and data discoverable and reusable within the larger scientific community, at national and international levels
- > data producers gain in visibility as active players in their discipline in Switzerland

for data consumers

- > an **online public catalogue** with advanced search functionality for data and metadata discovery
- > data consumers can trust that **data, metadata, and documentation are quality-controlled**
- > users of data have access to **professional (human) service** for discovery and access
- > data for reuse or replication are accompanied by **adequate documentation**
- > users receive a notification when previously downloaded data have been updated



INSTITUTIONAL FRAMEWORK



SWITCH

- > setup and support of the SWITCHengines environment
- > support for SWISS edu-ID authentication and SWITCHdrive
- > support for short-term and long-term storage solutions

SWISSUbase

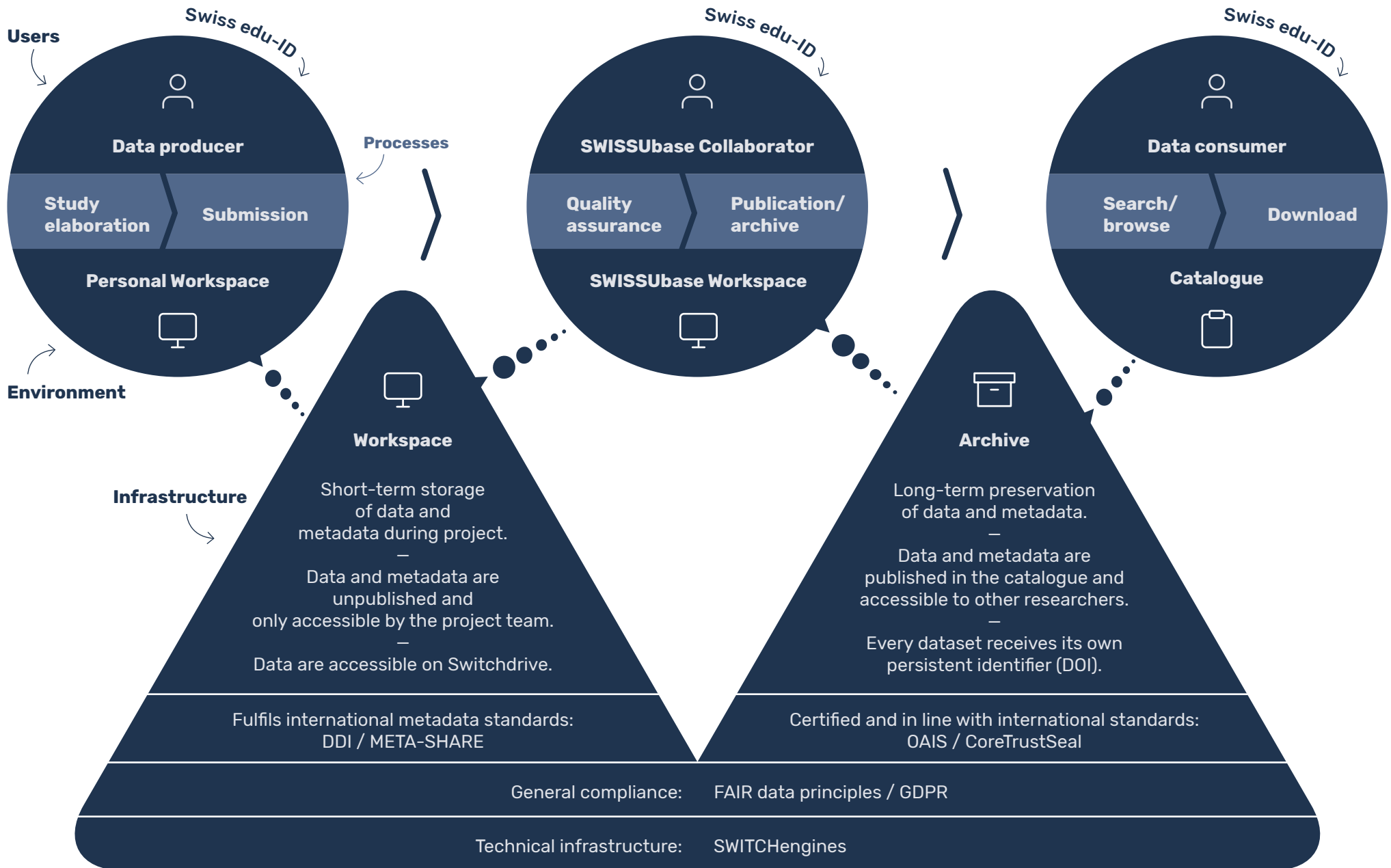
- > The **Management Board** is responsible for the overall direction of SWISSUbase and overseeing operational matters.
- > The **support and services team** provides services and training to data service units at partner institutions, a helpdesk on the use of SWISSUbase, and cross-disciplinary expertise (legal advice, handling of sensitive data etc.).
- > The **IT unit** assures ongoing operations, maintenance, and further development.
- > The **administration unit** handles the general administration, billing, and reporting processes.

Data service units at partner institutions

- > review, validate and publish project descriptions submitted by researchers
- > perform quality assurance on deposited data and metadata
- > archive the datasets deposited by researchers
- > manage SWISSUbase users from their institution
- > publish studies and datasets to the institutional catalogue
- > provide training to data producers on SWISSUbase and research data management
- > consult and assist individual researchers with data deposit and access
- > offer IT helpdesk for researchers



SYSTEM AND WORKFLOW





FEATURES

Existing features in FORSbase implemented and scaled up in SWISSUbase

- > a FAIR, OAIS-compliant, and non-commercial repository (requirement of the SNSF)
- > certified, trustworthy environment for long-term preservation
- > free persistent identifiers (DOIs) for all published datasets
- > standardised citations for datasets for use in journal publications
- > data producers control the access to their data by defining the conditions of access, ranging from open to highly restricted
- > customisable contract templates for data producers
- > producers receive information about who has downloaded their data, and for which purposes

- > an embedded institutional project registry and catalogue allows partner institutions to have an overview of all the current and completed projects of the researchers affiliated with their institution

See FORSbase (forsbase.unil.ch) to learn more about these features.

New features available in SWISSUbase

- > discipline-specific metadata schemas for rich metadata
- > Swiss edu-ID authentication
- > common workspace for research teams, synchronized with SWITCHdrive
- > statistics on new projects, published datasets, and dataset downloads



SERVICES

Expertise

We provide expertise and user support in archiving, data management and digital preservation.

Research infrastructures

We support and accompany the implementation of the data service unit at your institution.

Capacity building

We produce and provide guidelines, policies and training resources for the data service units at partner institutions and researchers.

Digital curation and data publishing

We support and contribute to defining standards for long-term access to managed digital resources.

Data protection and access

We provide guidance on data protection policies and access control.

Metadata and data discovery

We promote the use of rich metadata standards for data and metadata discoverability.

Data management

We provide guidance and best practices regarding data management for research data producers.



WHAT MAKES SWISSUbase UNIQUE?

Rich metadata

FAIR data needs high-quality metadata. The more these metadata are discipline-specific, the better they suit the different scientific communities in terms of findability and reuseability of research data. That is why SWISSUbase provides a general metadata schema as well as discipline-specific metadata modules.

Services and expertise

Technical solutions for long-term storage of research data have been around for a while but are only a small part of a proper data archiving solution. SWISSUbase's broad range of services and expertise in the management and preservation of data provide crucial added value for institutions and researchers.



COMPLIANCE with international standards

OAIS - Open Archival Information System



FAIR data principles



CoreTrustSeal



DDI - Metadata schema for social sciences



META-SHARE - Metadataschema for language resources



CMM - CESSDA Metadata Model



GDPR - General data protection regulation



TECH STACK

Presentation



Application



Metadata



Data



Infrastructure





ABOUT US

FORS is the Swiss centre of expertise in the social sciences and responsible for the development of SWISSUbase.

FORS⁺
explore. understand. share.

- > We have nearly **30 years of experience** in long-term preservation of research data.
- > We offer already a **certified trusted repository** and a broad range of services, including data archiving, data management training and individual consultations.
- > We work **closely with researchers** who produce and use data.
- > We **developed FORSbase in-house** – a technical solution since 2013 for social science research data.

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