Scientific information

Access, processing and safeguarding

Ongoing projects
(August 2016)

swissuniversities

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Scientific information Access, processing and safeguarding

The program funds the development of national solutions in the area of digital scientific information. It aims to build up a service network for the Swiss scientific community that enables easy access to publications and data, and at the same time, provides tools for processing and safeguarding them. Around 45 million Swiss francs are available to the program for the four-year period from 2013 to 2016, and 30 million Swiss francs for the period from 2017 to 2020.[1]

The program groups the extensive topics into four key areas of focus:

- Publications: extending licenses and supporting digitization and open access to create a basic range of online scientific publications.
- eScience: consistent processes for accessing research data and standards for processing and archiving are to be established across institutional boundaries.
- Basis: a technical and organizational basis is necessary to implement the program. Facilities such as cloud infrastructures and a service platform are required.
- Services: existing local services such as repositories, publication platforms and e-learning tools are to be expanded to create national services.

www. swissuniversities.ch/isci

[1] The administrative reference number of the program – P-2 – will change to P-5 in the 2017 to 2020 funding period.

National Licences

(142-005)

National Licences improve the nationwide availability of e-resources in Switzerland. The project is focusing on the acquisition of comprehensive and frequently used e-journal backfiles and archives. Beneficiaries are researchers, students and staff from universities, the ETH domain, cantonal libraries and other non-commercial institutions of higher education and research. Private users will have access by the end of 2016.
www.nationallicences.ch

Leading institution

ETH Library

Partner institution

Consortium of Swiss Academic Libraries

HOPE for Open Access

(151-002)

HOPE means «Hauptbibliothek Open Publishing Environment» and thus an upcoming service of the Main Library of the University of Zurich in publishing open access journals. The goals are to make the pilot «Journal für Psychoanalyse», a print journal, available with open access and to establish the Open Journal Systems based platform HOPE. The HOPE experience and documentation also serve as a basis for similar services at other universities in Switzerland.

www.hope.uzh.ch

Leading institution
UZH Main Library

Partner institution
Psychoanalytisches Seminar Zürich

jemr.org
(151-003)

The Journal of Eye Movement Research was founded in 2007 by Rudolf Groner as a peer-reviewed interdisciplinary periodical. The project, in cooperation with scians Ltd., Bern, Switzerland, provides a relaunch of the journal with full open access on the Open Journal Systems based platform BOP (Bern Open Publishing) and is preparing its inclusion in MEDLINE (Medical Literature Analysis and Retrieval System Online).
www.bop.unibe.ch/jemr

Leading institution
UNIBE Library

e-codices

Since 2005, e-codices – the Virtual Manuscript Library of Switzerland – has been offering free online access to medieval and early modern manuscripts from Swiss collections. Its primary goal within the next four years will be converting the project into a permanently running operation. Other major objectives relate to the technical development of the project, including in the field of interoperability, and the expansion of its content.

www.e-codices.ch

Leading institution

UNIFR

e-rara: Full Text

(152-003)

e-rara.ch, the platform for digitized printed works from Swiss libraries, has been expanded to include optical character recognition (OCR) for contents to be re-used in digital humanities research. The pilot project focuses on adapting the IT infrastructure of the platform, including integration of the OCR software ABBYY Fine Reader. In the pilot, OCR is limited to books with Antiqua typeface published between 1830 and 1920. Follow-up projects will expand OCR to e-rara.ch contents from earlier centuries.

www. e-rara.ch

Leading institution

ETH Library

Partner institution

Bibliothèque de Genève,
UNIBAS Library, UNIBE Library,
Zurich Central Library

e-manuscripta: Full Text

(161-001)

The purpose of the project is to create the conditions to provide full text on the platform e-manuscripta.ch by means of a transcription tool and to publish the first full texts of selected handwritten documents. The technical part consists of integrating additional software and developing interfaces for the import and export of text files in various formats. To ensure the quality of user contributions, it is planned to develop a formalized editorial concept that contains online access, registration, review and publication.

www.e-manuscripta.ch

Leading institution
Zurich Central Library

Partner institution
ETH Library, UNIBAS Library

AISOOP

(152-002)

The project AISOOP (Analyse der Informationsarchitektur, Schnittstellen und Organisation der Online-Plattformen) aims to analyze the information architecture, interfaces and used standards as well as organizational structures and service models of the existing Swiss online platforms (i.e. e-rara, e-codices, e-manuscripta, e-periodica). Based on the requirements of researchers, the project will define recommendations for the future development of the online platforms.

Leading institution

HTW Chur

Partner institution

ETH Library, UNIFR,
Zurich Central Library

NIE-INE

(161-004)

The mission of NIE-INE (National Infrastructure for Editions) is to create a platform for scientific editions. The project is setting up a digital environment for editorial projects in order to provide virtual research environments, public interfaces, and the long-term sustainability of data. The Digital Humanities Lab (University of Basel) provides and customizes the fundamental technology for the participating projects and institutions. The coordination lies in the hands of the Forum für Edition und Erschliessung (University of Basel).

Leading institution

UNIBAS

Partner institution

Kuno Raeber: Online-Edition des lyrischen Nachlasses, Logica Modernorum 2.0, Swiss Academy of Humanities and Social Sciences, UNIBE, UZH, Zurich Central Library

histHub

(161-002)

The project histHub contributes to the promotion of Linked Open Data (LOD) on historical entities from all periods and all Swiss regions. Its main objective is the creation of a multilingual infrastructure that allows the production, curation and use of high-quality research data.
www.histHub.ch

Leading institution

Law Sources Foundation of the Swiss Lawyers Society

Partner institution

DODIS, Historical Dictionary of Switzerland, Ortsnamen.ch, Schweizerisches Idiotikon

swissbib

(141-008)

swissbib, the Swiss platform for data and retrieval services, provides a convenient, fast and comprehensive gateway to academic publications in Switzerland. It currently combines the resources of 968 institutions. The open services, expertise as well as the modern methods and procedures in data management that have been developed and refined since June 2008 are freely available to other projects. Current examples for reuse and cooperation: baselbern.swissbib.ch, jus.swissbib.ch, linked.swissbib.ch, and consortium.ch/national-lizenzen.

www.swissbib.ch

Stay tuned: **www.twitter.com/swissbib**

Leading institution

UNIBAS Library

Partner institution

EPFL Library, Swiss National Library, Universitätsrechenzentrum Basel

linked.swissbib.ch

(141-001)

linked.swissbib.ch aims to integrate the metacatalog swissbib into the Linked (Open) Data space by transforming, interlinking and enriching the data. An infrastructure is created to provide, on the one hand, a data service for other applications via a specific interface, and on the other hand, an improved interface for the end user (e.g. a searcher).
www.linked.swissbib.ch

swissbib

Leading institution
HES-SO HEG

Partner institution
HTW Chur, UNIBAS Library

Data Life-Cycle Management

(151-005)

The primary objective of DLCM is to provide sustainable and tangible solutions to implement research data life-cycle management in Switzerland and allow early-on planning of data within research projects, efficient managing of active research data and ensure publication, long-term reference as well as preservation of data subsets selected by researchers. The DLCM team aspires to offer and propose its services to institutions, which either lack experience in this field and/or do not have any infrastructure for managing scientific data.

www.dlcm.ch

Leading institution

UNIGE

Partner institution

EPFL, ETH, HES-SO HEG, SWITCH, UNIBAS, UNIL, UZH

Data Analysis Service

(142-004)

This project will provide a new service in the form of a data analysis center for the data taken at the research labs of the Paul Scherrer Institute (PSI), the largest research institute for natural and engineering sciences within Switzerland. It will allow storage and analysis of the experimental data directly after data taking and will support the subsequent offline analysis of huge data volumes. Researchers will be able to analyze data both on site and remotely from anywhere worldwide. This will result in more efficiently pursued scientific projects and reduce time to publication.

Leading institution	Partner institution
PSI	ETH

eScience Coordination Team

(142-011)

The eSCT project is setting up a national service to assist research groups in benefitting from modern IT and infrastructures. It brings together experts from Research IT support units at institutions across Switzerland, and enables them to offer a joint service that can solve issues and problems for researchers. Working together with these customers, they provide consulting to understand the nature of Research IT problems in all disciplines, then design and deliver solutions to address them.
www.science-it.ch

Leading institution

UZH

Partner institution

EPFL, ETH, Friedrich Miescher Institute, HES-SO hepia,
Swiss Institute of Bioinformatics,
UNIBAS

Train 2 Dacar

(142-002)

Train 2 Dacar (Train the Trainer for Data Curation in Advanced Research) is developing training courses for research data management, addressing librarians as future trainers and experienced researchers as data creators. The training units consist of on-site vocational training and e-learning modules, both in German and French.

campus.hesge.ch/id_bilingue/projekte/train2dacar

Leading institution
HES-SO HEG

Partner institution
HTW Chur

Swiss edu-ID

(151-008)

Most national services being developed within the framework of the funding program will require reliable identity and access management (IAM). The project implements the core functions of this IAM framework. Swiss edu-ID is extending the well-established SWITCHaai service to allow scaling beyond active members of universities to include all individuals related to the Swiss higher education and research community (e.g. alumni, library users) and to support life-long learning.
projects.switch.ch/eduid

Leading institution
SWITCH

Swiss edu-ID Mobile

(152-008)

Over the past decade, mobility has affected Swiss higher education and created new opportunities for studying and researching. Today, universities find it difficult to include mobile apps in their IT infrastructure while considering privacy, information security, and transparency for their users. The EduID App is planned as a small app to help universities to share mobile apps and practices in Switzerland through easier access to the creativity of mobile app developers in- and outside academia.

Leading institution
HTW Chur

Partner institution
FHNW, SWITCH, USI

Swiss Library Service Platform SLSP

(151-001)

SLSP is developing a central service platform for Swiss academic libraries. The immediate aim is to replace existent legacy IT-systems with a centralized new generation system offering enhanced user experience and seamless access to print and electronic resources. SLSP will integrate other existing or new services (interlibrary loan, consortium, user authentication). The new infrastructure will be supported by a robust governance model and facilitated by common, multilingual standards.
www.slsp.ch

Swiss Library Service Platform SLSP

Leading institution

ETH Library

Partner institution

Fribourg Cantonal and University Library, HES-SO HEG, Informationsverbund Deutschschweiz, RERO, UNIBAS Library, UNIBE Library, UNIGE, UZH, Zurich Central Library

SCALE-UP

(151-011)

The scalable infrastructure of SWITCHengines, offering self-service virtual machines and storage to Swiss academic institutions, was implemented as part of the project SCALE (141-024) in 2014 and 2015.

SCALE-UP, the follow-up project, will develop specific services for academic use. The services will address researchers, lecturers as well as students and cover domains such as big data analysis, academic data pools and scientific collaboration tools.
www.switch.ch/services/engines

Leading institution
SWITCH

Partner institution
EPFL, FFHS, FHNW, FHSG, UNIBAS, UNIBE, UNISG, USI, ZHAW

NeI-CH

(142-013)

The Swiss National e-Infrastructure Link connects Swiss e-Infrastructure efforts to the EU-sponsored, Pan-European computing e-Infrastructures, EGI. It provides central operation of the Swiss sites in these infrastructures, trusted signing of the necessary e-certificates for Swiss users and resources, and Swiss representation at the international level.
www.lhep.unibe.ch/neich

Leading institution
UNIBE

Partner institution
PSI, SwiNG, CSCS, UNIBE, UNIGE, UZH

CCDigitalLaw

(152-003)

The goal of the project is to establish a national Competence Center able to support the Swiss academic community (teachers, researchers, librarians, IT staff, and other collaborators of Swiss Higher Education Institutions) in dealing with legal issues related to the use of digital technologies, specifically in the fields of copyright, privacy and data management. The center will offer training and consulting activities and develop supporting resources (guidelines, FAQs, use cases, etc.).
www.ccdigitallaw.ch

Leading institution

USI

Partner institution

Conference of Swiss University Libraries, UNIBAS Library, UNIGE, UNINE

Geodata4SwissEDU

(142-007)

Geodata4SwissEDU is developing a national portal for geodata in teaching and research. Access to geodata is becoming increasingly important in various branches of science. However, there is no central academic geodata infrastructure in Switzerland yet. The national service geodata4edu.ch plugs this gap. It offers Swiss universities easy access to a comprehensive range of geodata and is geared towards students and researchers with both basic and specialist GIS knowledge.

www.geodata4edu.ch

Leading institution
ETH Library

Partner institution
HSR

Cooperative storage library

By August 2016, the Swiss Cooperative Storage Library (CSLS), operative since February 2016, has ingested close to 1 million books and fulfilled more than 7,200 orders for physical and electronic document delivery. Program support for the project included the planning processes for construction and operation, the deduplication of journals and the relocation of 2.6 million volumes.

Complementing the program's focus on digital resources, the CSLS guarantees the secure long-term storage of print material.

www.speicherbibliothek.ch

Leading institution

Verein Kooperative Speicherbibliothek Schweiz

Partner institution

Aargau Cantonal Library, Lucerne Central and University Library, Solothurn Central Library, UNIBAS Library, UZH Main Library, Zurich Central Library

Abbreviations

CSCS	Swiss National Supercomputing Centre
EPFL	Swiss Federal Institute of Technology Lausanne
ETH	Swiss Federal Institute of Technology Zurich
FFHS	Swiss Distance University of Applied Sciences
FHNW	University of Applied Sciences and Arts Northwestern Switzerland
FHSG	St. Gallen University of Applied Sciences
HES-SO HEG	University of Applied Sciences Western Switzerland HEG-Geneva
HSR	Hochschule für Technik Rapperswil
HTW CHUR	Chur University of Applied Sciences
PSI	Paul Scherrer Institute
RERO	Library Network of Western Switzerland
UNIBAS	University of Basel
UNIBE	University of Bern
UNIFR	University of Fribourg
UNIGE	University of Geneva
UNIL	University of Lausanne
UNINE	University of Neuchatel
UNISG	University of St. Gallen
USI	University of Lugano
UZH	University of Zurich
ZHAW	Zurich University of Applied Sciences

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Scientific information:
Access, processing and safeguarding

For background information as well as up-to-date project and contact information, visit the program website:
www.swissuniversities.ch/isci

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