Kaleidoscope 2019
Sharing knowledge and ideas. Linking information. Advancing the world

Report

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Sharing knowledge and ideas.
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Advancing the world.

KALEI DOSCOPE 2019

ETH Library

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## WELCOME TO THE ETH LIBRARY. WHAT YOU MAY EXPECT FROM US:

Information and Literature

Whether you require printed or digital formats or physical objects, we provide you with whatever you need for your research, teaching or degree. At the Swiss Federal Institute of Technology (ETH Zurich), we offer specialist literature, collections, data and specimens in a clearly structured manner and free of charge. We also have quiet reading, study and work spaces.

Publishing

We run the Research Collection as a repository for your publications and their dissemination, management and documentation, and advise you on data management planning, open access and long-term archiving. We provide financial support for publishing in open access journals by covering the expenses and offering expert advice.

ETH Library
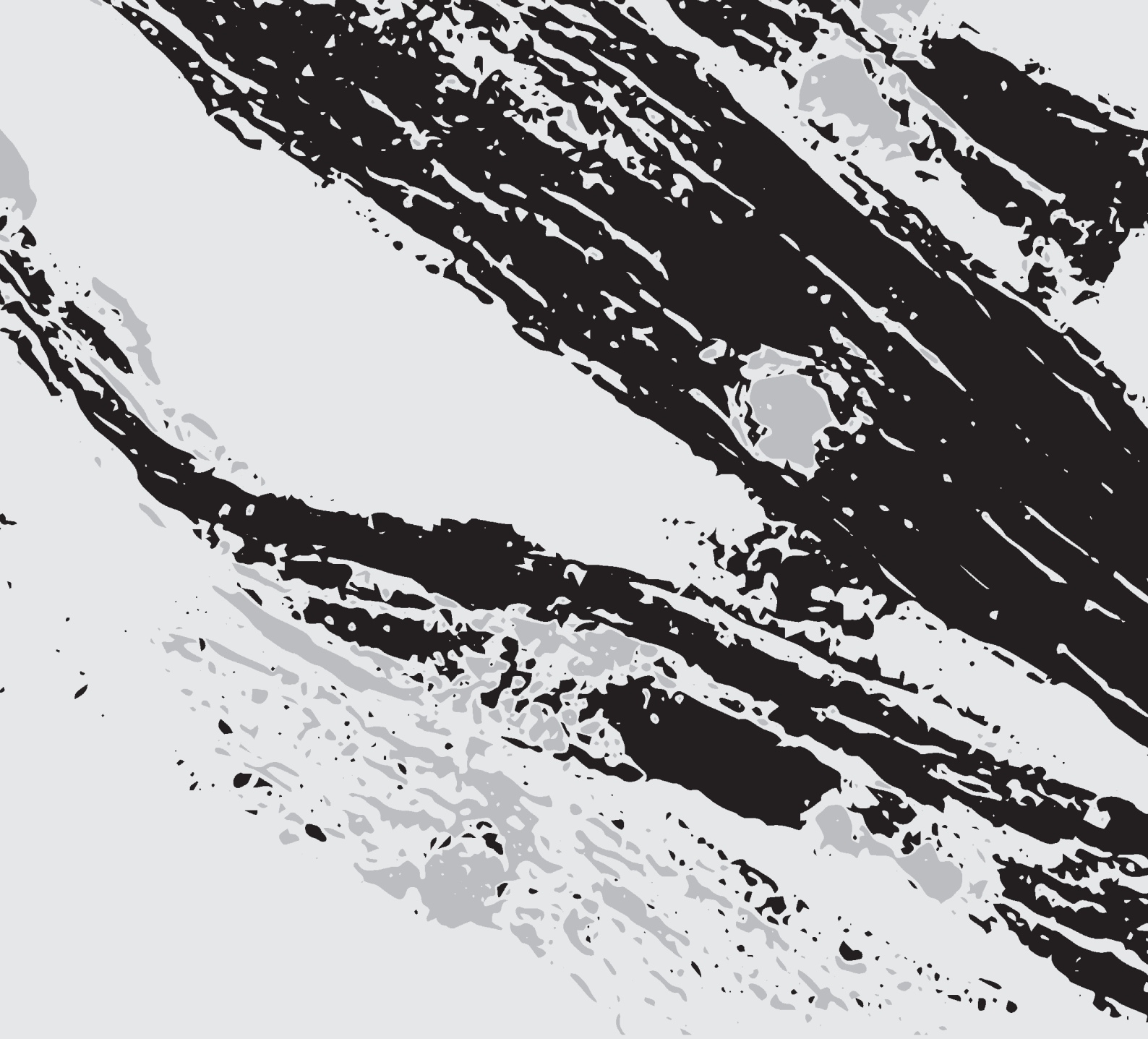
Cooperation

We digitise collections in cooperative projects and provide you with our expertise on digitisation and information organisation. As an active partner in integrated knowledge production, we develop infrastructures and tools that cover the entire scientific value creation chain in cooperation with internal and external partners and by participating in expert committees and associations.

Knowledge

Our exhibitions, online platforms, guided tours and hands-on campaigns take the know-how of ETH Zurich to the public. Our courses, workshops and webinars teach you skills in conducting searches, reference management, open access and data management. We also offer individual advice on all these topics.

ETH *zürich*

As an integral part of the academic value creation, libraries can actively support research today

The digitally-based value creation cycle of academia offers new opportunities to integrate information sources, labour, knowledge and skills of the library directly into academic work and research processes. Thanks to the possibilities of modern technology in the wake of this transformation of academia, our library is becoming an increasingly important part in the university's value creation.

At the ETH Library, we are working hard to expand our role as an active partner in knowledge production. In 2019 we have taken this project forward with a number of activities. Helping to shape transformation processes for ETH Zurich together with its departments and organisational units is a longstanding part of our day-to-day activities. We are constantly developing the ETH Library as an active, research-relevant university institution. We offer information events on digitally-based academic publishing in an open access and open science environment, advice and support for research data management, joint digitisation projects and portals, platforms, software services and training courses.

This issue of "Kaleidoscope 2019" features three main chapters and a compact overview in condensed form of our activities and services.

In 2019, we fielded many requests on research data management and data management planning. The chapter "Managing Research Data" highlights the challenges of proper and professional research data management and presents our range of solutions. We have prepared a comprehensive advice and training package to individually support the scientists researching at ETH Zurich.

In the chapter "Unlocking Imagery", we introduce the image platform E-Pics which we developed and operate. We also explain how members of ETH can use the platform to manage and present digital images from research work and collections. The chapter "Experiencing the Library" includes examples of how we are increasing our participation in the expert discussion surrounding problems in the digitally-based research cycle and how we share the information and cultural assets of ETH Zurich with the public through creative knowledge communication.

By itself, the ETH Library will not be able to tackle the variety of tasks that are needed to transform academia and its libraries and the long-term solutions that must then be provided – hence our continued networking efforts with other libraries and their service providers. We supplement our services with complementary market offers and are active members of national and international library networks. We had plenty of work to do in 2019 to help set up the Swiss Library Service Platform (SLSP). For more information on these and other activities, see the chapter "2019 in brief".

We hope you enjoy reading this year's Kaleidoscope and welcome feedback and discussions.

**Rafael Ball,
Director of the ETH Library**

ETHzürich

KALEIDOSCOPE 2019

Digitisation meets design

The cover picture and the basic graphic design of this ETH Library Kaleidoscope 2019 are based on macro images of fungi that infest and damage crops. They can be discovered on the E-Pics platform of ETH Zurich in the 2019 newly published catalogue "Rust fungi of Solanaceae". The digital images of the scientific collection documents inspired the graphic designers to create an abstract design. Would you like to learn more about it? The QR Code will guide you to further information.
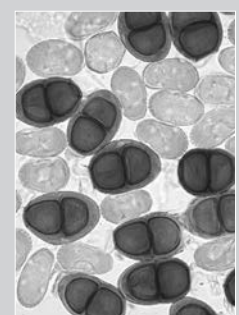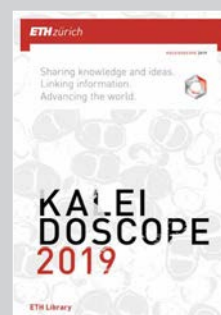
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COMMUNICATION OF KNOWLEDGE

Computer-based research, data-based analysis and electronic knowledge communication have made the proper and professional handling of data a basic requirement for good scientific practice.

At ETH Zurich, researchers can draw on diverse types of support for research data management (RDM). They can participate in training courses and workshops, attend our Summer School, get individual advice via our "Book a Librarian" service and publish their work and research data in the ETH Research Collection, from where the data is being archived in the ETH Data Archive.

The ETH Library offers these training courses and services in collaboration with the departments of ETH Zurich and organisational entities such as the Scientific IT Services. The training courses all cover the entire research data life cycle: preparing the data management plan (DMP) at the start of a project, daily data management with structured storage, publishing findings in an open access and open science environment, sharing data with research partners and interested parties (data sharing) and, last but not least, long-term archiving.

These offers are designed for scientists from all ETH domain institutions.

COMMUNICATION OF KNOWLEDGE

RDM advice:
Available for the fifth year running
Since 2015, the ETH Library has offered advice, workshops and training courses specially designed for individual research groups on the subject of research data management (RDM). Demand for our RDM-related services is growing quickly, particularly as both national and European research funding institutions now require a detailed data management plan (DMP) to be submitted with applications for project funding. www.library.ethz.ch/RDM-Datacuration

Research data management:
More than just a plan for funding applications
Research data management involves much more than simply preparing a plan to obtain funding. The aim of RDM is the reproducibility of research findings, i.e. being able to reproduce results at all stages of the research and publication process at any time. The basic prerequisite for this is unaltered and permanently viewable data.
The training courses offered by the ETH Library impart the necessary knowledge. The ETH Research Collection and the ETH Data Archive are available for publication and archiving. https://youtu.be/c8PdFGvZQlc

DMP:
High demand for individual advice on SNSF applications
Individual advice on research data management, which we offer to scientists at ETH Zurich, was highly sought after in 2019. Our experts specifically addressed the individual clients' questions. The most common questions related to preparing a data management plan for the first time. A DMP must be submitted with project funding applications to the Swiss National Science Foundation (SNSF). The DMP must state which data was used as the basis for research, which data must be gathered and re-evaluated and how the data is dealt with in the course of the project. The term "research data" includes all data products that are gathered, used or created as part of the research, i.e. measurement and observation data, calculation data, calculation models, formulas, texts, tables, audio and video data etc., including all the software used for research.

Project funding application:
Library checks DMP conformity
The DMP represents the entire process, from generation and storage to methods and target groups for data sharing, data security and the planned publication in a repository, including the specification of intended licences for re-use.
ETH Library experts support you in preparing your DMP, not only by providing information but also, if required, by checking the DMP draft for conformity with the policies of the respective research funding institution.

Clear guidelines:
ETH policies on integrity and open access
ETH Zurich defines the collection, documentation and storage of primary data as well as the responsibilities of project management and project staff and describes the principles of publication and access in its policies on integrity in research. Two important statements from these policies are: 1) Primary data must be stored and secured in a manner that it can be securely accessed for later use or review. 2) If at all possible, researchers at ETH

Guidelines on integrity in the research of ETH Zurich. Source: ETH Zurich

Zurich must publish their work according to the "principle of open access" while complying with the university's open-access policy. With its revised open-access policy, in force since 1 February 2018, ETH Zurich urges all its scientists to actively participate in implementing the concept of open access.
The ETH Library is the centre of competence of ETH Zurich for all open-access matters. We provide all the necessary information in the RDM workshop Open Access and Data Publishing.

Proper and professional data handling is of fundamental importance for good scientific practice

In digital-based research, every step after the development of the research question requires reliable data management. Source: ETH Library

The DMP is a tool for open research data

The SNSF aims, as do the EU and other research funding institutions, to make research findings available free of charge to all interested parties, i.e. to scientists all over the world as well as to the general public. Open access to publications and open research data are both building blocks of open science, an initiative that seeks to make all research steps transparent. As it documents the intended handling of research data, the DMP is a tool that realises the concept of open research data. However, there is no obligation to make all the research data openly available. Instead, researchers are motivated to make a conscious decision and document it in the DMP.
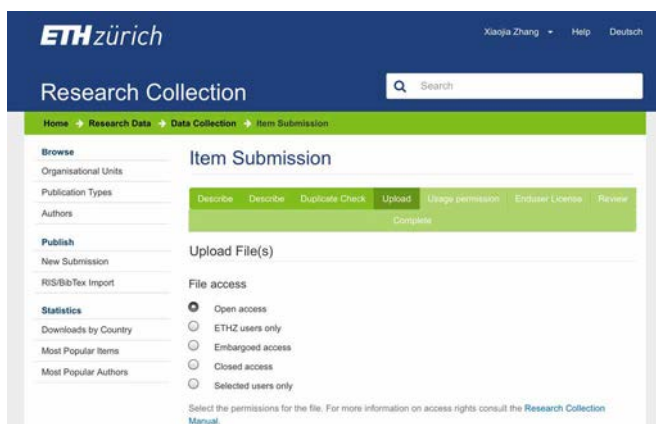

The access rights for research publications can be selected with a click when uploading data to the Research Collection.
Source: https://www.research-collection.ethz.ch/?locale-attribute=en

A complex task:
Organising own research data

From the point of view of an individual scientist, RDM means organising the data in one's own research work so that it is reproducible. All work stages must be retraceable at any time and findings must be shareable with colleagues. Dependency on computers, software and analysis algorithms has turned this seemingly trivial basic requirement for research work into a complex technical and organisational task. Hardware, operating systems, programming languages, file and data formats and software versions influence the reproduction of text documents, images, audio and video files. They play an important part in the publication of research data.

Our workshops cover the requirements for organisation and research documentation that arise from gathering and processing research data with computers and software.
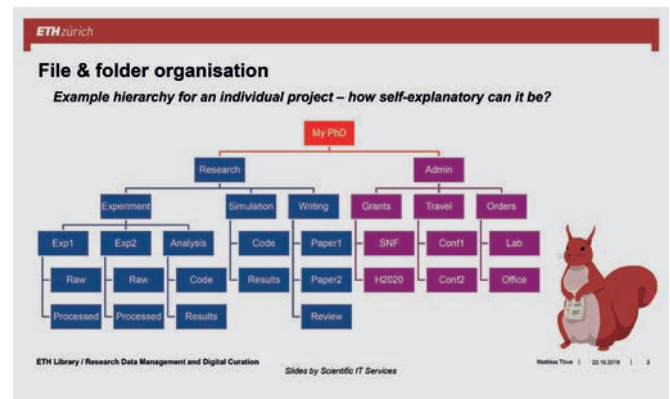
Suggestion of a possible data organisation structure for a doctoral thesis.
Source: ETH Zurich

FAIR data:
Improving digital visibility of research findings

Research data should be FAIR: findable, accessible, interoperable and re-usable. These FAIR data principles were adopted by a consortium of scientists and organisations in 2016 and, in the same year, endorsed by the G20 for their use in research. The international scientific community has reached a broad consensus on them. Data published according to FAIR principles is meant to improve the reproducibility and digital visibility of academic papers and simplify re-use to answer new research questions.

This is also covered in our courses on research data management and digital curation.

Three for the price of one:
New concept for the RDM workshop series

Based on the increasing interest in our trainings and the new and complex topics that are added regularly, the ETH Library Research Data Management and Digital Curation team decided to expand the RDM workshops, regularly on offer since 2015, to a series of workshops.

Speakers from the ETH Scientific IT Services and the E-Publishing team began holding presentations at the original RDM workshop. The new training concept features contents from all participating ETH units in a systematic structure and also devotes more time to the various topics. The contents of the new RDM workshops build on each other. The workshops are now held exclusively in English. Individual workshops can be attended, but most participants attended the entire series in 2019.

The workshops of our 2019 newly designed workshop series „Research Data Management - From Theory to Practice" are in demand. The contents build on each other. The courses can be taken individually or as a complete package. Source: ETH Library, photographer: Frank Blaser

RDM workshops:
Topics, contents, solutions "From Theory to Practice"

The new workshop series was launched in January and February of 2019 with the title "Research Data Management – From Theory to Practice". It was held for a second time in October of 2019. The workshops begin by giving an introduction to RDM basics, including the existing policies and requirements for DMPs. Best practices and tools for active data management to ensure reproducible research are then presented. The final workshop covers open access and data publication and gives insight into available licences and using the Research Collection and other repositories. http://www.library.ethz.ch/Workshops-EN

Four for the price of three:
New workshop "Secure handling of confidential research data"

The workshop contents are constantly evolving in accordance with information needs. In February of 2020, the increasingly important topic "Secure handling of confidential research data" was added to our RDM workshop series. This module, prepared by the ETH Scientific IT Services, contains the following four thematic areas: a) Research on confidential data (sensitive personal data), b) Data privacy and protection: legislation and cybersecurity awareness, c) Leonhard Med, ETH Zurich: Swiss secure, powerful and versatile Scientific IT Platform for research on and with confidential data, d) "Good practices" for secure handling of confidential research data along the entire data life-cycle.

◈ I learned a lot about sharing data after publication and about open science

Use the ETH resources:
Experts help with advanced questions

In individual advice sessions, scientists ask a wide range of questions regarding research data. In 2019, we recorded an increase in requests from young researchers that went beyond simple data handling and raised questions on image rights and the use of third-party archival holdings. To answer advanced questions such as these, we involve experts from the University Archives and the Image Archive of the ETH Library if possible. Sometimes, we also need to consult with the ETH Zurich Legal Service. The ETH Library staff used these resources as necessary or forwarded the advice seekers to the respective body.

New and compact:
The ETH Research Data Management Summer School

In 2019, we introduced a new way to gain expertise on RDM and to put it into practice with the ETH RDM Summer School. This compact course is intended particularly for postgraduates and postdocs of the ETH Zurich and the ETH domain institutions, but other interested parties may also attend. The course includes preliminary course preparation, lectures and practical exercises in workshops. Several professors contribute field reports.

The ETH Research Data Management Summer School was primarily designed for doctoral students and postdocs, but is also open to other interested parties. The first one-week ETH RDM Summer School was attended by 29 people. Source: ETH Zurich, photographer: Fabian Schneider

At the beginning of June of 2019, twenty-nine participants from the ETH Zurich and other ETH domain institutions took part in the first ETH RDM Summer School to tackle research data management in detail. Twenty-four of them are currently working on their doctoral theses.

The ETH RDM Summer School also provides practical training in data management. Source: ETH Zurich, photographer: Fabian Schneider

Elementary knowledge:
Gaining ECTS credits at ETH RDM Summer School

The subject matter of the ETH RDM Summer School is structured along the research data life cycle. The course begins with a comprehensive introduction into research data management and the concept of open science. This is followed by day-to-day data management as part of a research project, reproducibility of research data and data analysis. Tools for these purposes are also introduced, for example the electronic lab notebook. Later sessions cover open access publishing, sharing and publishing research data and scientific outreach to advertise own publications. The last section concerns long-term archiving and its impact on the reusability of data. Here too, theoretical explanations are followed by practical information and instructions on using the Research Collection and the ETH Data Archive. If participants complete the entire course programme, they can gain ECTS credits for their degree course.

Summer School:
What was most interesting for participants?
Above all, young researchers attended the ETH RDM Summer School to learn about the most efficient, cost-effective and structured methods and tools to organise research data. However, legal questions, questions about the SNSF and other research funding issues also cropped up repeatedly.

The most popular topics were:

• Best practices in research data management (organising, structuring and standardising data)

• Questions on the fundamentals of research data management (tools, tips and tricks, data generation)

• Questions regarding the publication process (access to and sharing of data, licensing, open-access publishing)

• Data storage (big data, cost-effective options and data organisation)

In addition, participants were interested in learning about:

• Working together with other researchers (data handling, collaborative work, publishing data)

• Scientific outreach

• Handling lab journals, both analogue and digital

In their feedback on the Summer School, participants said that they had learned a lot about RDM, although some added that they would have liked more concrete examples of best practices, for example on using the GitHub platform for open source software. They also would have liked to have a field report regarding a group using the data management platform openBIS on a day-to-day basis, including the manner and the concrete advantages of its use. We are working on it!

UN
LOCKING
IMAGERY

SERVICES

Photography has given humanity the means to capture images without needing to be able to draw or paint. Anything that can be photographed can be shown to others anytime and anywhere, regardless of whether the original is available.

Digital technology has added a new dimension to pictorial communication: Digital images can be shared infinitely and shown at the same time all over the world. Anyone can download them and discuss their subjects interactively.

With its E-Pics platform, the ETH Library provides a powerful tool for the structured organisation, management and presentation of digital images. Using the platform, the ETH Zurich departments and external partners can catalogue scientific collections, art and cultural treasures digitally and share them online with open access or with restricted access in group networks. At the ETH Library we have been using E-Pics for 13 years to successfully present digitised photos and art from the ETH Collections and Archives to the general public.

In 2019, three new catalogues with a multitude of images and the corresponding datasets were made publicly accessible on E-Pics. One of them was the catalogue "Rust fungi of Solanaceae", created in cooperation with the Fungarium of the United Herbaria of ETH Zurich and the University of Zurich. In the course of digitally cataloguing the rust fungi specimens, the researchers discovered two previously unknown species of fungus. From the very beginning, the digitisation project was also designed as a research project.

SERVICES

E-Pics:
A structured collection of images from many genres

Forty-one catalogues with almost 1.9 million digital images were available on E-Pics in 2019. Approximately 809,000 online visits called up almost 246 million pages. At the end of the year, the E-Pics platform used 53 terabytes of storage. It is updated daily with new images.

E-Pics is a tool for organising, managing and presenting digital images. We at the ETH Library are responsible for operating the platform and providing customer support. We have used E-Pics to publish digitised photos and art from the ETH Collections and Archives since 2007.

The catalogues available on E-Pics include photo archives and photographers' bequests, photographic documentation of famous figures and their work, collections of graphics, architecture and sculpture and digital images of scientific collections of minerals, plants, animals, wood, historical instruments, rare books, ex libris etc.
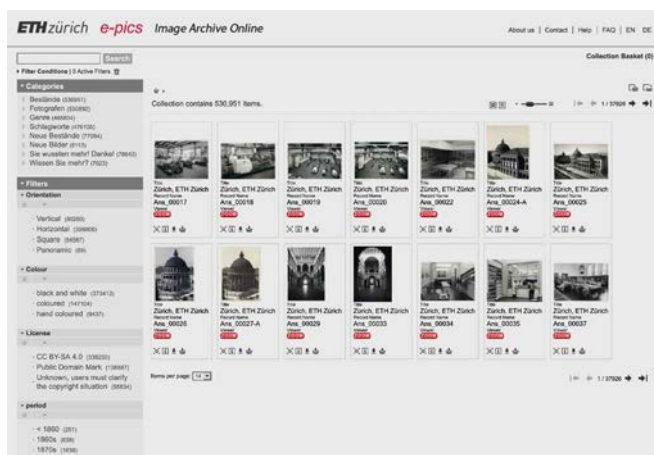https://www.e-pics.ethz.ch/en/home_en/

Image Online, is the so far biggest catalogue on E-Pics. New ones are added continuously. Around 3 million images are available in the ETH Library's Image Archive. Source: ETH Library

Access Management:
Images for all or only for a select few?

The catalogue owners decide who can access their images in the catalogues. E-Pics can be used with open access or in a network with restricted access. For example, access rights can be restricted to research groups, departments, institutes and the like. Of the 41 catalogues on E-Pics, 17 are currently accessible to the public.

Interested parties from all over the world can view the images in the public catalogues at any time. The individual images' terms of use is usually listed in the metadata.

The restricted access catalogues are used by their owners for internal exchange as part of research or teaching and for documentation purposes. E-Pics can serve as a basis for long-term archiving if certain points are considered when setting up the catalogue.

Pictures in an individual front end

The digital asset management system Cumulus is the technical basis for E-Pics. We use the standard catalogue platform with additional plug-ins that simplify image management, particularly for mass imports. If the standard version of Cumulus is lacking a function, we check what can be added upon request by our catalogue customers.

We adapt the front end to the needs of the specialist field – of course we do that in close collaboration with our customers. In 2019, the ETH Library implemented a front end for the Physics department so that department members could use the new internal physics catalogue. Another front end was created for a new internal catalogue for the ETH Zurich Services department. The Services department already manages a public catalogue on E-Pics. It features photos of the main locations of ETH Zurich and life and work at the university.

◇ Transferring visual knowledge has gained a new dimension. Digital images can be shared infinitely and shown at the same time all over the world

41 catalogues are already operated with E-pics as an instrument for the organisation, management and presentation of digital images, 17 of which are public to the general public via the internet. Source: ETH Library

Digital images under control:
Webinars, training courses and an extensive Wiki

Staff, students and partners can learn how to use the platform to manage and present their digital images online through our webinars, training courses, a wiki in German and English on the E-Pics website and individual advisory sessions. We give detailed explanations on setting up a structured catalogue, on formats and on creating metadata as well as answering subject-specific questions. Users also receive information about current challenges and approaches to long-term digital image archiving.

https://documentation.library.ethz.ch/display/EPICS/E-Pics+Wiki

Successful research:
New fungus species discovered during digitisation

The digitisation of objects in cooperative projects can be valuable for science. This is not only evident in the resulting digital collections or image catalogues, but also in the cataloguing process itself, which has the potential to yield new scientific findings. This was the case for the creation of the new E-Pics catalogue "Rust fungi of Solanaceae". The species of fungi on Solanaceae discovered during this digitisation project were published in the scientific journal Mycologia.
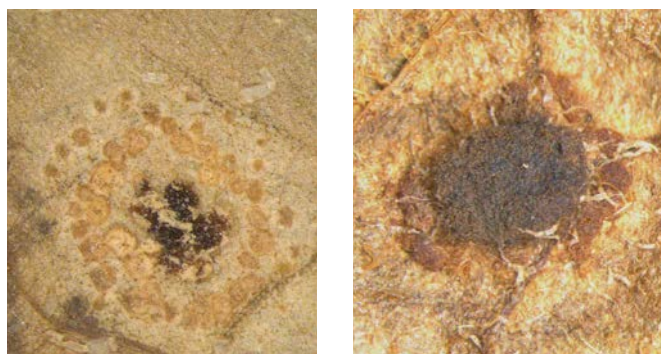
The newly discovered rust fungus species Puccinia telimutans (left) was long thought to be Puccinia pittieriana (right). This misinterpretation was recognised during the research-related digitisation project.

Source: https://herb-rust.e-pics.ethz.ch, Herbaria Z+ZT, ETH Zurich, PUR-47151-Pic1208 und MA-F11029-Pic1005, photographer: M. García Otálora

In 2015, the ETH Zurich Fungarium began digitising specimens of the rust fungi of Solanaceae with funding from the budget of the 2015–2020 transformation strategy for scientific collections. Rust fungi are the focus of current research because they are parasites that can cause serious failures of food crops such as wheat, soy and coffee.

The new catalogue "Rust fungi of Solanaceae" features micro and macroscopic photos of fungi specimens. The morphological characteristics needed to determine the species of rust fungi can only be seen through a microscope. As part of the digitisation project, which was incorporated into the ongoing research work from the beginning, 886 specimens of 54 rust fungi species were catalogued. Microscopic samples of all the specimens were prepared and analysed. The macro and microscopic characteristics of the fungi were photographed and catalogued in a database. In this manner, around 1,500 images of rust fungi of Solanaceae were made available to the international public in the new catalogue on E-Pics.

Art goes online:
15,000 works from the Collection of Prints and Drawings on E-Pics

Making digital images of works of art accessible to the international public via E-Pics is just as important as sharing scientific findings through pictures. The Collection of Prints and Drawings (Graphische Sammlung ETH Zurich) did this in 2019, making over 15,000 works of art from its large collection (currently 160,000 works of art) accessible. The new "Online Catalogue of the Graphische Sammlung ETH Zurich" features works in the public domain, meaning that the works are not copyrighted. Users can download images from the E-Pics catalogue and use them freely.

«Auf der Splügenpassstrasse» by Gabriel Lory (named Lory fils, 1784–1846) – one of the 15 000 works from the picture catalogue of the Online Catalogue of the Graphische Sammlung ETH Zurich. Source: ETH Library Zurich, Graphische Sammlung / Z 90 / Public Domain Mark 1.0

«Sprung über den Bach» by Hans Blösch (Hg.): Heinrich Wölfis Reise nach Jerusalem : 1520–1521. Bern : Schweizer Bibliophilen-Gesellschaft, 1929. From the E-Pics Catalogue „Old and Rare Prints". Source: ETH Zurich

Provided by the ETH Library:
Rare books for free use

Since the end of August of 2019, more than 25,000 images from works in the Rare Books Collection of the ETH Library have been made available in the catalogue "Old and Rare Prints" on E-Pics. This collection features works from the second half of the fifteenth to the beginning of the twentieth century with an emphasis on astronomy, mathematics, engineering, architecture and natural sciences.

The digitised resources on E-Pics are selected images with public domain licences, meaning that they can be used for scientific, private, non-commercial and commercial purposes without restriction. In addition, the files can be downloaded in multiple formats free of charge.

New content:
Orchids, insects, industrial heritage and E. A. Heiniger

The catalogues on E-Pics are regularly updated with new images. In 2019, the first 60,000 of approximately 260,000 images from the Industrial Heritage Foundation (Stiftung Industriekultur) were uploaded to the catalogue "Image Archive Online". This collection was taken over by the ETH Library in 2014. Hans Peter Bärtschi, who earned his degree in architecture at ETH Zurich, is the photographer of most of the images in these historically significant holdings regarding industrial heritage, particularly Swiss architecture and transport infrastructure. The holdings span more than 50 years, and the collection starts in 1965.

In 2019, two collections of slides were added to the catalogue "Animals, Plants and Biotopes". One consisted of approximately 15,700 images of orchids from all over Europe photographed by Peter Gölz, who authored the definitive book on Swiss orchids together with Hans R. Reinhard. Reinhard's photographs have been in the catalogue for some time. The second addition to the catalogue was provided by the entomologist Siegfried Keller.

6,600 images from his collection of pests, beneficial organisms, predatory and parasitic insects were uploaded.

In 2019, 1,185 digitised copies from the bequest of Swiss photographer and successful filmmaker Ernst A. Heiniger were added to the catalogue "Fotostiftung Schweiz – Sammlung online" (Swiss Photography Foundation – Online Collection).

Basel, SBB Centralbahnhof, Orientexpress mit Ae 4/7 10966: Historic mail coach former Deutsche Reichsbahn, optional part of the nostalgic Orientexpress Source: ETH Library Zurich, Image Archive / Photographer: Bärtschi, Hans-Peter / SIK_01-009224 / CC BY-SA 4.0

Crowdsourcing image subjects:
Incorporating everyone's knowledge

E-Pics allows us to use the knowledge of the general public to catalogue and discuss image subjects.

The ETH Library catalogue "Image Archive Online" has used this method very successfully for the past few years. Volunteers interested in shaping the cataloguing process can do this by selecting the "Do you know more?" menu item in the catalogue. If the image subject accessed already has comments by other volunteers, these are displayed in a field in the metadata.

The Image Archive team supports the function to use shared knowledge with active community management. The blog "ETH Library | Crowdsourcing" and annual volunteer meetings further promote this form of community building.

The Image Archive Online category "You knew more! Thank you!" displays images that users added new information to. From the beginning of 2016 until the end of 2019, over 70,000 comments were posted by volunteers. https://blogs.ethz.ch/crowdsourcing/en/

EXPERIEN CING THE LIBRARY

OUTREACH AND NETWORKING

At the ETH Library we continuously aim to shape the transfer of knowledge and the discussion surrounding problems in the digitally-based research cycle through our various activities and events. In events with an academic focus, we cover the contemporary and possible future issues facing academic publishing and highlight the creative, cutting-edge communication of knowledge. For the general public, we present the research and development of ETH Zurich in a tangible and playful manner and introduce the collections, works of art, activities and events of ETH Zurich. In addition to raising awareness for and providing concise information on important topics, our events also serve to establish networks and mobilise resources.

This chapter presents selected examples of how we do this. For Scientifica 2019, we offered activities where guests could colour in butterflies at a drawing table and then let them fly using an app. We also held an information event on persistent identification in a digital environment on the occasion of the tenth anniversary of the DOI Desk as well as a panel discussion on open access that dealt with largely ignored aspects, for example the favourable position of industry in systemic change. For the European Heritage Days 2019, we invited visitors to take a virtual reality tour of a historical chemistry lab of ETH Zurich as it was in the year 1900. In an expansive exhibition project, the Collection of Prints and Drawings explored what happens when robots build on ideas and carry forward projects created by humans.

Linking research and development at ETH Zurich more closely with the subject matter, know-how and skills of the various teams, groups and sections of the ETH Library is a fascinating field of work in digital transformation which we actively pursue.

Ten years of the DOI Desk:
Information event on persistent identification
in a digital environment

The persistent and unique identification of people and data objects in a digital environment is a crucial factor for citations in the network-based communication of knowledge, but it also has other uses. To permanently access digitally published scientific papers, research data and software and clearly identify authors, each record needs a persistent identifier that is registered somewhere for the long term. Persistent identifiers (PID) are intended to permanently ensure that digital objects can be found on the Internet.

For over ten years, the ETH Zurich DOI Desk, located at the ETH Library, has acted as a central port of call for the permanent identification of digital academic publications from Switzerland by assigning DOIs (digital object identifiers) as persistent identifiers and ensuring their long-term registration. On the occasion of its tenth anniversary, the DOI Desk held the information event "Persistent Identifiers in Research" in 2019. Nine speakers from various different institutions and countries gave talks on services, current developments and open questions in persistent identification. They also provided insights into difficult and partially unresolved fields. The subject of software citation is especially complex in this regard. The event was attended by approximately 60 people.
http://www.library.ethz.ch/DOI-Desk-EN

Open access full-fledged:
Panel discussion covers largely ignored aspects

Society as a whole profits if research findings are made freely available, but open access also has unintended consequences. For example, open access scientific publications can be accessed free of charge all over the world, but institutions with insufficient capital and researchers lacking the funds to pay the publication fees in advance are disadvantaged in this model. In addition, the industry profits from the systemic change. Before open access, it made a major contribution to financing the academic publication system through subscription fees.

Now, the financial burden is on authors, research institutions and research funding bodies.

The panel discussion "Open access full-fledged: future roles of the stakeholders" dealt with these largely ignored aspects. The ETH Library invited a scientist, two publishers' representatives and a representative each of the industry and the Swiss National Science Foundation (SNSF) to discuss this topic. The event was organised together with the PLOS (Public Library of Science) Open Access Project and the Royal Society of Chemistry (RSC), who gave keynote addresses to introduce the complex subject. The discussion and audience Q&A session opened up many as-yet unresolved questions and a great deal of new food for thought regarding a comprehensive approach to open access. For example, the discussion raised the question of how a "mixed economy" might look where both the government and private companies fund academic publications without independent research becoming dependent on them.

The entire discussion was streamed live and recorded. The resulting 2-hour video "Open access full fledged: future roles of the stakeholders" can be viewed on the ETH Library YouTube channel. To read a summary report of the event in German or in English, please visit the ETH Library webpage.
http://www.library.ethz.ch/OA-full-fledged

The previously unresolved questions on open access led to a lively discussion.
Source: ETH Library, photographer: Thomas Zenger

⬡ Closely linking university research and development with the resources and skills of the Library in digital transformation unlocks new potential

The ETH Library and the Chair of Building Archaeology and Construction History of ETH Zurich made the historical chemistry lab accessible via virtual reality goggles using photos and drawings from the Collections and Archives. Source: ETH Library, https://www.library.ethz.ch/apps/chemielabor-360/

European heritage days:
Touring the ETH Zurich chemistry lab in the year 1900

For the European Heritage Days 2019, the ETH Library experimented with virtual reality (VR). A tour of a historical chemistry lab was developed together with the ETH Zurich Chair of Building Archaeology and Construction History and two companies from the fields of virtual visualisation and digital game development. Visitors explored the former chemistry lab (CAB F31) at ETH Zurich, used as a study room for students today, with VR goggles, which gave them a 360-degree view of the lab as it was in 1900. Photos, blueprints and texts from the holdings of the ETH Library and ETH Zurich Collections and Archives were the basis for the recreated 360-degree panorama. Those panora-

mas can still be accessed in a web application on the Library webpage. Thanks to 360-degree presentation technology, you can explore the historical lab without VR goggles.

Together with the Chair of Building Archaeology and Construction History, we at the Library were responsible for coordinating the programme "The CAB shows its true colours. The former chemistry building and colour research at ETH Zurich" held on the Heritage Days. Visitors could choose from a range of tours, the "Chemistry Detectives" workshop for children, demonstrations, exhibitions on the past and present and various talks. In addition to chronicling the lab's significant history, we gave visitors insight into the current materials research of the Chair of Soft and Living Materials, which aims to emulate natural

What did it look like 100 years ago? VR goggles gave visitors a 360-degree view of the CAB F31 chemistry lab of ETH Zurich as it was in 1900. Source: ETH Library

colours. Many visitors took the opportunity to get to know the listed chemistry building and to experience the buildings and colour research at ETH Zurich in a hands-on manner. https://www.library.ethz.ch/apps/chemielabor-360/

Research meets art:
Robots transform from tools to (co)creating machines

In 2019, the Collection of Prints and Drawings (Graphische Sammlung ETH Zurich) presented an extraordinary feat of creative and productive cooperation in its exhibition project at the intersection of science and art. Together with the ETH Zurich Chair of Architecture and Digital Fabrication, Gramazio Kohler Research, the Swiss artist Yves Netzhammer explored what happens when industrial robots are used for artistic production. The result were expansive installations using equipment that is typically used in the Chair's research for digital fabrication in architecture. Using a single rope approximately a kilometre in length, one of the robots laid out a monumental design based on motifs by Netzhammer in the entry hall of the ETH main building. A second robot constructed a mesh structure of suspended threads based on equilibrium. In a recurring process of structures being built, collapsing and being rebuilt, machine-calculated shapes were combined with creations based on human inspiration. The exhibition, titled "Gravitational Assertions. Yves Netzhammer/Gramazio Kohler Research", was opened on 3 December 2019 in the presence of Yves Netzhammer, Fabio Gramazio and Matthias Kohler.
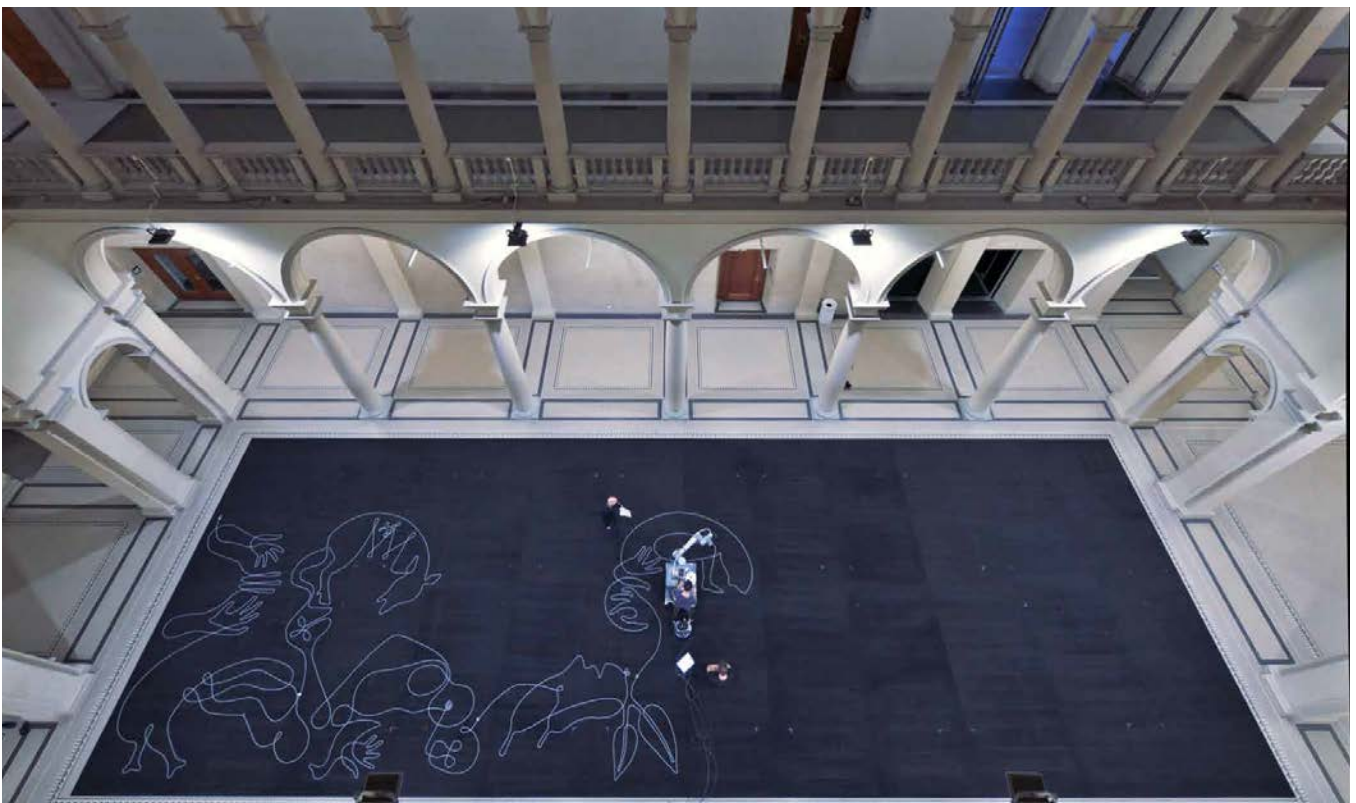
In this art installation, a production robot laid out rope in a monumental design based on motifs by Yves Netzhammer in the main hall of ETH Zurich. A time-lapse video of this can be viewed on the webpage of the Collection of Prints and Drawings. © Yves Netzhammer/Gramazio Kohler Research, ETH Zurich
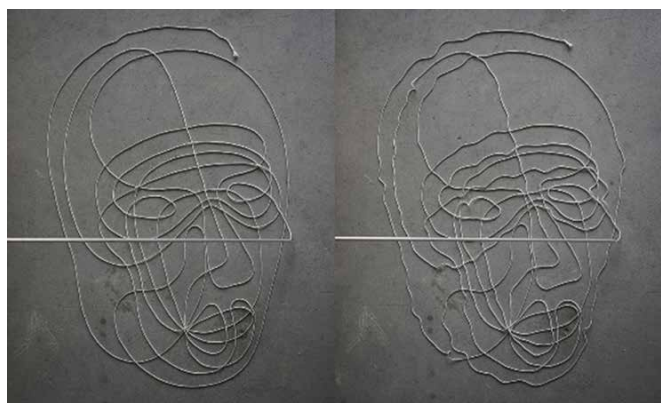
ETH zürich

Two versions of a „drawing" based on a motif by Yves Netzhammer, executed by the drawing robot at Arch-Tec-Lab (Institute for Technology in Architecture ITA, ETH Zurich) © Yves Netzhammer/Gramazio Kohler Research, ETH Zurich, photographer: Michael Lyrenmann

In the reporting year, the Collection of Prints and Drawings held three other exhibitions. The second research-related presentation, titled "Through Walls and Layers. Cross-Section in Art and Science", highlighted how the cross-section of an object serves as a graphic representation of insight. The third was devoted to the artist Lara Almarcegui's examination of the complex relationships between raw materials, construction and the decay of the constructed world. The exhibition "Lara Almarcegui. Deep Inside – Out" was accompanied by a symposium attended by 50 participants. The fourth exhibition, titled "Ding/Unding. The Artist's Book Unbound" concerned the artistic manifestations of books.

A total of 1,007 visitors participated in the four exhibitions' opening events. The exhibitions are documented digitally in the archives on the webpage of the Collection of Prints and Drawings, some with illustrated lists of the works exhibited. https://gs.ethz.ch/en/archive/

Science fiction and science facts:
Scientifica combines knowledge and entertainment

What is considered proven fact and what is considered fiction changes over time. Every day, new research findings change the state of knowledge. At the Zurich Science Days "Scientifica 2019", visitors to the joint booth of the ETH Library, the Zentralbibliothek Zürich and the Entomological Collection discovered how the world was seen, explored and understood in the past, as well as which previous assumptions proved correct, which misconceptions were perpetuated and why we know better today. Using examples, the team staffing the booth also explained what additional benefits the digitisation of historical and scientific objects has in terms of accessibility and new information.

Visitors discovered geographical facts, constellations and interesting curiosities via a virtual 3D model of the historical Globe of St Gallen, and, with a bit of imagination, could travel back in time. Both children and adults brought to life beetles and butterflies they had coloured in at a drawing table on smartphones and tablets. This was made possible by the ETH Zurich Game Technology Centre (GTC), whose Augmented Reality (AR) colouring book and GTC Showcase App were adapted just for this purpose. Display cases next to the drawing table featured real mounted and preserved insects. In addition to the booth's presentations, it also offered a science quiz where visitors could test and expand their knowledge.


The "Digital Curating" application gave visitors the opportunity to become curators by designing their own exhibitions. Source: Graphische Sammlung ETH Zurich, screenshot of the app "Digitales Kuratieren" (digital curating), photographer: Livio Baumgartner

The Collection of Prints and Drawings also participated in Scientifica with its workshop "Print Your Own Artwork", several tours, a lecture explaining Albrecht Dürer's painting "Rhinocerus" and the "Digital Curating" app for visitors. The tours also offered a look at the exhibition "Lara Almarcegui. Deep Inside – Out" which was running at the time. The "Digital Curating" application, developed in collaboration with computer science students from the Zurich University of Applied Sciences, gave visitors the opportunity to design their own exhibitions. More than 1,200 visitors took advantage of this opportunity to choose from over 1,000 works of art which they could arrange and position individually in a digitally recreated gallery. Several of the short lectures and presentations at Scientifica 2019 were recorded. They are available on the Scientifica webpage until the next event. https://www.scientifica.ch/

Modern presentation technology allows the public to experience research knowledge first-hand
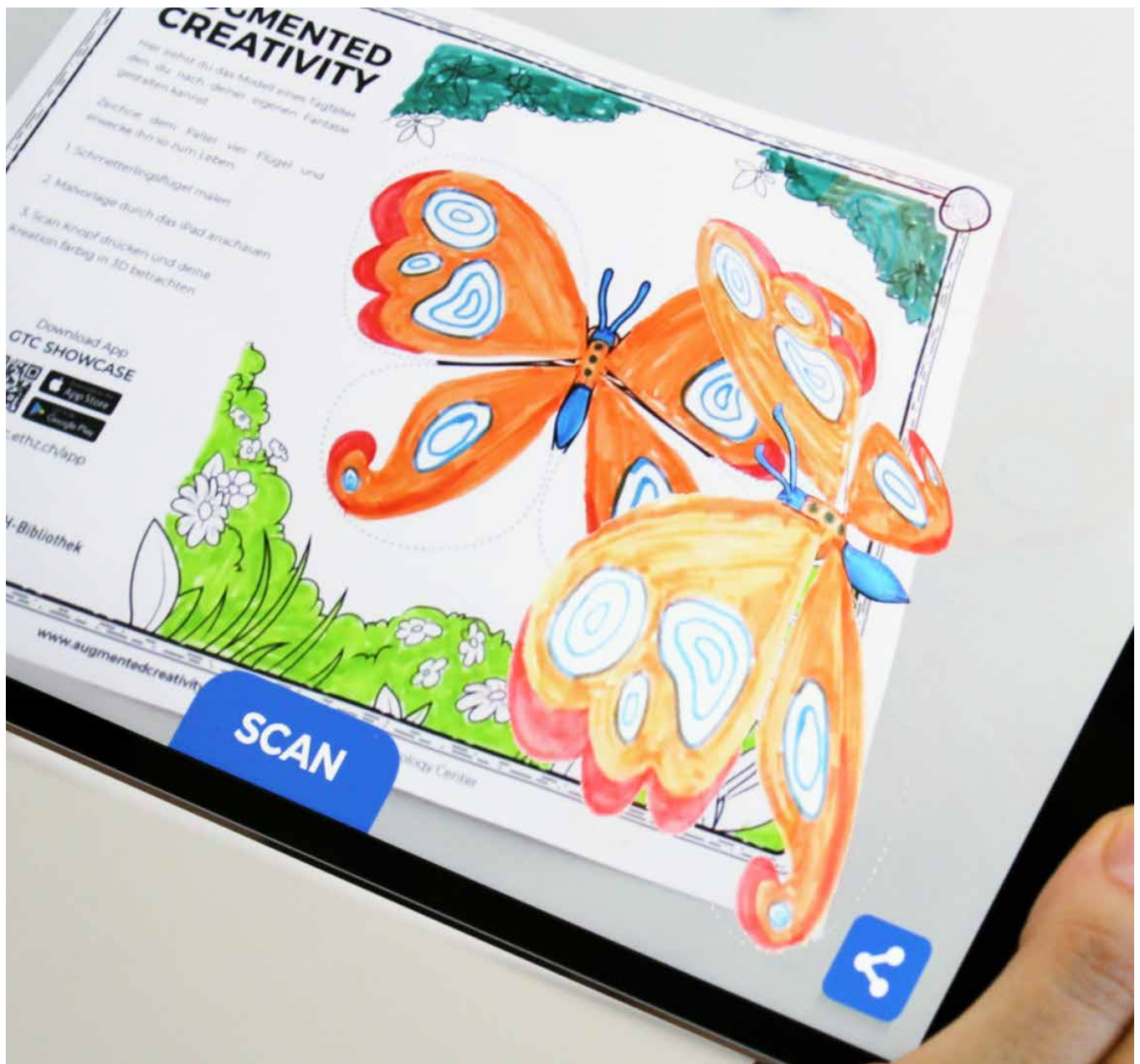
At Scientifica 2019, both children and adults were fascinated by the opportunity to colour in butterflies and make them fly on a smartphone or tablet.
Source: ETH Library, photographer: Thomas Zenger

Thursdays at 17.15:
Library&Co in research and practice

¨30-minute presentation + 30-minute discussion + subsequent reception = inspiration for our daily working lives.¨ That's the formula for the 17:15 Colloquium of the ETH Library. For this slightly unusual event, intended for further education and networking outside the bounds of the Library, speakers from Switzerland and abroad give presentations on subjects regarding information science, library practice, archiving and curation and related fields. This ensures a wide range of topics. The events in 2019 addressed challenges in the management of metadata and introduced a platform for the automatic transcription of historical documents, as well as explaining how to search for and identify historical documents on the platform. Other topics were experimental museology and the possible applications of the blockchain for digital libraries and long-term archiving, with a focus on artificial intelligence (AI). The final Colloquium topic for 2019 was big data and the Google cloud platform. The participants were very interested in taking the opportunity to obtain and exchange information.

The 17:15 Colloquium is intended for ETH Zurich members from the departments and the Library as well as colleagues from the library, archive, collection and museum fields. Interested members of the public are also invited to attend. Our 17:15 Colloquia are especially aimed at regional institutions from the GLAM sector. GLAM stands for Galleries, Libraries, Archives & Museums that are actively involved in the dynamic changes facing their fields of activity, particularly in the context of increasing digitalisation.

The 17:15 Colloquia of the ETH Library regularly take place three times per semester, on the last Thursday of the month. The programme is posted on the Library webpage. We also invite interested parties via relevant mailing lists and social media. We look forward to welcoming you to one of our upcoming colloquia.

http://www.library.ethz.ch/17-15-colloquium
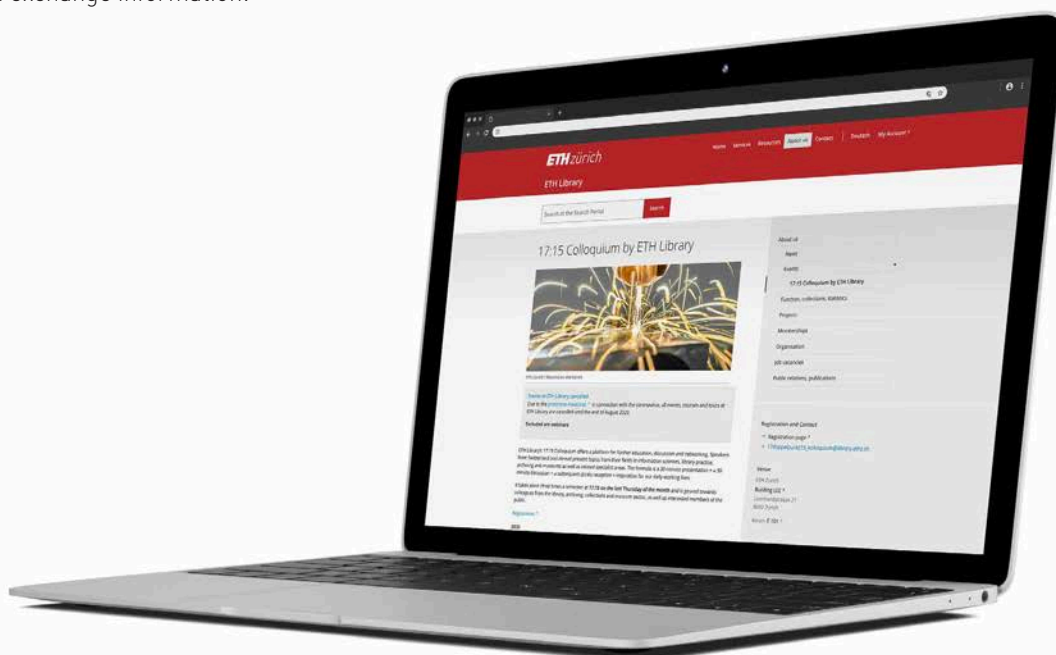
ETH zürich

ETH Library

2019
IN BRIEF

ACTIVITIES

Alongside their daily library business, the ETH Library staff organise special offers throughout the year in connection with the subjects and collections they supervise and continuously improve services and work processes. They add to and update the contents of the analogue and digital collections. They curate new exhibitions, organise readings and book release events and take charge of the technical development of the services and platforms. They consider new features, tools and services and use the latest digital technologies whenever it makes sense to do so. In research and development projects with university and industry business partners, our experts try out emerging technologies that have not yet been sufficiently tested.

The topics presented in the previous chapters represent only a fraction of the services we offer our library patrons and the events we organise to make the cultural assets and literature at ETH Zurich available to the public.

In 2019, we promoted development, transformation and change management undertakings with multiple projects. Among other topics, these highlighted the use of blockchain for libraries and, of course, the migration to the Swiss Library Service Platform (SLSP), the future joint service platform of Swiss university libraries.

SLSP will start general operation on 1 December 2020. The national library network will replace existing networks such as the Network of Libraries and Information Centres in Switzerland (NEBIS) and integrate the work of the Consortium of Swiss University Libraries (CSL).

2019 IN BRIEF

On the ETH Library YouTube channel, we post
tutorials and informational videos on our Library
services and the topics and issues we offer tools for.
For example, these videos explain digital publishing in
the ETH Research Collection and research data management
and provide information on the advisory formats we offer and how to use our services.
Our other videos present special libraries at ETH Zurich, highlight our Library's infrastructure
offerings and act as trailers for publications on our Explora storytelling platform and for public
events and scientific presentations organised by us. Many presentations and discussions are
available in their entirety on YouTube. In 2019, we produced 37 videos.

www.youtube.com/user/ETHBibliothek

COMMUNICATION OF KNOWLEDGE

01/19

As of 2019, the Swiss archive portal
"Archives Online" displays the wealth of
information on Thomas Mann and Max
Frisch that the ETH Library Literary Ar-
chives contain, as well as the historical
knowledge of ETH Zurich documented
in the University Archives. Switzer-
land-wide cross-archival searches in
"Archives Online" will now yield rele-
vant hits from these holdings.

https://www.archives-online.org/Search
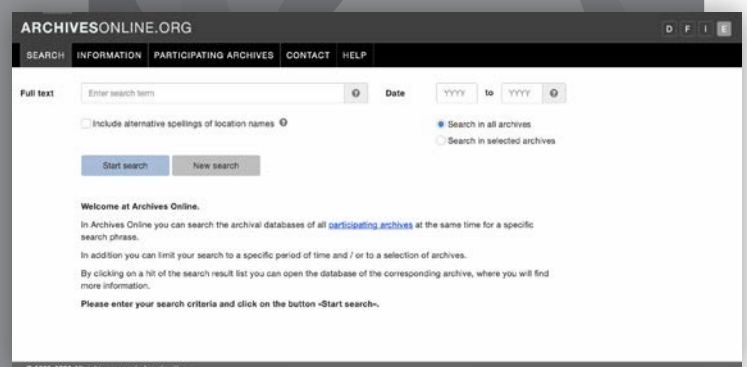
OUTREACH AND NETWORKING

SLSP
L
Swiss Library
Service Platform

The Swiss Library Service Platform (SLSP), currently in development, is a uniform, cloud-based library system for Switzerland. As a national network of academic libraries, SLSP will replace the previous library networks such as NEBIS. SLSP's general start of operation is planned on 1 December 2020. As part of our project "ETH goes SLSP", we are paving the way for a smooth and optimised transition. We incorporate the competences of the ETH Library in the design and set-up of SLSP and, as one of nine vanguard libraries, we work to demonstrate the feasibility of introducing SLSP in future member libraries.

There was regular communication between the ETH Library, the SLSP office and the other vanguard libraries in the reporting year. Expert groups were set up and activated, work packages were described and subproject responsibilities were assigned. The expert groups dealt with several issues, including indexing, linking to external sources, terms of circulation and requirements of the future circulation courier.

In 2019, we at the ETH Library concentrated our work on the cloud solution chosen for SLSP, Alma from Ex Libris, and the Discovery Service Primo VE. In the course of two test migrations, data and systems were analysed, specialised groups were formed for the third migration and a timetable was drafted. The third test migration will include the data of all libraries participating in SLSP for the first time.

https://slsp.ch/en

LIBRARY MANAGEMENT

02/19

02/19

Lifelong learning requires structure and content. Together with the Self-Access Centre of the Language Centre, the University of Zurich and ETH Zurich offer a popular range of resources for lifelong autonomous language learning. In 2019, the Self-Access Centre moved into new premises with more workstations and longer opening hours at the Hönggerberg location of the Architecture and Civil Engineering Library.

www.library.ethz.ch/SAC

82 LANGUAGE COURSES
5 LANGUAGES
2205 VOICE MEDIA
15 WORKPLACES
OPENED LONGER

SERVICES

2019 IN BRIEF

On the initiative of the Max Planck Digital Library (MDPL), leading institutions from ten countries, including the ETH Library, founded the global "Blockchain Consortium for Science" and set up bloxberg infrastructure as a test environment. We are an active part of this research experiment in order to ascertain whether and how we can support researchers using blockchain technology. In addition, we want to find out whether and how this technology changes the handling of research data and results and influences academic cooperation.

https://bloxberg.org/

OUTREACH AND NETWORKING

03/19

Easy access: If you have any questions, you can contact and chat with ETH Library staff directly via the Search Portal or the Library website and send WhatsApp messages.

https://search.library.ethz.ch/primo-explore/search?vid=-DADS&lang=en_US

SERVICES
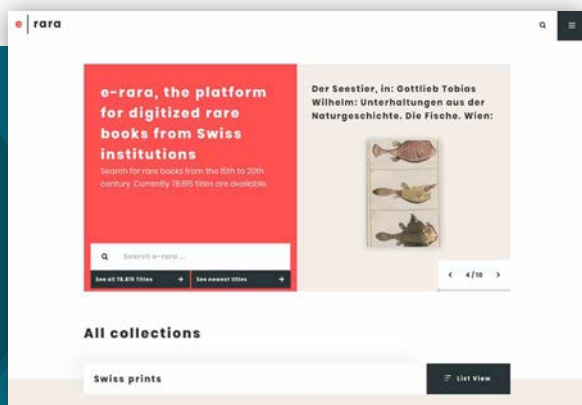
The "Seestier" (Ostracion cornutus or horn-fish) is one of approximately 78,000 prints from the fifteenth to the twentieth century that Swiss libraries have digitised on the shared platform e-rara.ch for users around the globe to view, read, explore and download. This wondrous fish is described in the book "Unterhaltungen aus der Naturg-eschichte. Die Fische" (Discourse on Natural History. Fish) by Gottlieb Tobias Wilhelm published in 1812.

e-rara.ch is just one example of the further development activities we offer to give users access to new ways of working with the contents of our digital platforms. In 2019, e-rara.ch was expanded by a whole range of functions for academic usage. The platform now uses the IIIF standard throughout, which allows for the texts, graphic prints and maps on e-rara.ch to be viewed in greater detail and compared with digital copies from other sources using the appropriate open source IIIF viewers. Sharing links for sharing images on social media are also a new feature. Single pages can be downloaded in the standard JPEG format. For users creating a personal e-rara.ch collection, every title on the platform also features a download link for bibliographical data in the RIS format. RIS files can be imported by most types of current reference management software. The DOI (Digital Object Identifier) and link to the digital copy are also provided. For prints after 1800, the full text can also be downloaded as a text file.

http://www.library.ethz.ch/Digital-library
https://www.e-rara.ch/?lang=en

SERVICES

04/19

04/19

PROJECTS 2019 ETH LIBRARY

THOMAS MANN ARCHIVE **TMPERSONALLIBRARY**

MaRek MASS INDEXING AND RETROSPECTIVE CONVERSION

OPEN INNOVATION CAMPAIGN

e-manuscripta.ch FULL-TEXTS OF HISTORICAL MANUSCRIPTS

IIIF-STANDARD for e-rara.ch

IDEfiX DIGITAL WOOD SAMPLES **AND MICROSCOPIC SPECIMENS**

MICROFUNGI SPECIMEN MACRO- AND MICROSCOPICALLY ONLINE

SPA II **STANDARDIZED** HYBRID PROJECT **PROCEDURE**

COMMUNICATION PLATFORM FOR INTERNAL COMMUNICATION **KiK**

www.library.ethz.ch/projects

SERVICES

2019 IN BRIEF

Libraries have a long tradition of book publishing and book release events. We regularly publish monographs on topics from our holdings and collections, as well as on research papers and development in the library sector. At book release events, we introduce new publications to the public. In April of 2019, we presented the publication "Himmel und Zahlen in alten Drucken. Erlesenes aus der ETH-Bibliothek" (The Heavens and Numbers in Old Prints: A Selection from the ETH Library). The book comprises a selection of 75 works of an astronomical and mathematical nature from the ETH Library old books collection and background information on the works and their provenance as well as two scientific essays. The newspaper "Neue Züricher Zeitung" published a review of this book on 24 April 2019.

We published the seventh instalment in our book series "Bilderwelten. Fotografien aus dem Bildarchiv der ETH-Bibliothek" (World of Images: Photography from the ETH Library Image Archive), titled "Dokumentierte Landschaft" (The Documented Landscape). Its author Ruedi Weidmann introduces readers to the pioneering days of ecosystem research. The images, including some of the oldest colour photographs of Swiss landscapes, are still highly topical today. The book release event took place on 3 December 2019 at the "Never Stop Reading" bookshop in Zurich. The book "Die Schweiz bewältigen – Eine literarische Debatte nach Max Frisch" (Coming to Terms with Switzerland – A Literary Debate According to Max Frisch), which the ETH Library presented at a release event at the end of August, is a collection of historical records on the debate regarding Max Frisch and the political role of literature.

Cover illustration: Transitus Iovis [The positions of Jupiter], Cat. 58], © ETH Library and Michael Imhof Verlag GmbH & Co. KG, Petersberg and the authors

COMMUNICATION OF KNOWLEDGE

05/19

04/19

"Who is the public?" Max Frisch often saw himself confronted with this question, not only as a theoretical issue, but also on a wholly practical level whenever he checked his letter box. The famous author sought to communicate with his readers and could not leave his correspondence unanswered with a clear conscience. However, he could not address every concern. The opening of the exhibition "Angry letters, fan mail and tweets – Responses to Max Frisch" featured the following quote by the author: "A writer is almost relieved when the next letter he opens contains a bill which he can settle, e.g. from the electric company." The exhibition highlighted the obvious parallels between letters to Max Frisch and today's "shitstorms" and hate speech on the Internet. In the over 1,000 letters from readers to the author preserved in the Max Frisch Archive, we find not only admiration and enthusiasm, but also vicious rants and insults. "Angry letters, fan mail and tweets – Responses to Max Frisch" was one of three exhibitions and six further public events organised by the Max Frisch Archive in 2019 which introduced the thoughts and legacy of the famous ETH alumni into current societal debates. A total of 751 visitors attended these events, proving that, time and again, the Max Frisch Archive succeeds in presenting new perspectives on its treasure trove of information to the public.
https://mfa.ethz.ch/en/

INFORMATION TREASURES, DATA RETENTION, CULTURAL ARTEFACTS PROTECTION

248 colleagues from members of the Network of Libraries and Information Centres in Switzerland (NEBIS) met at the 2019 NEBIS conference at the end of June. The conference focused mainly on preparations for SLSP and the simultaneous dismantling of NEBIS.

To date, the NEBIS Network Office is located at the ETH Library. The ETH Library will continue to be responsible for the operation of NEBIS during the dismantling and until its complete dissolution on 31 December 2020. This means that the work required to operate NEBIS proceeds in parallel to the tasks preparing the transition to SLSP.

Photographer: Eke Miedaner

Since October of 2017, we have been preparing the transition for NEBIS customers and facilitating change planning for the NEBIS team with the "Change NEBIS" project. In mid-February of 2019, NEBIS Network Office staff began working part-time for SLSP AG. In their remaining working hours, they continued to perform their tasks for the Network of Libraries and Information Centres in Switzerland. At the end of 2019, part of the staff switched to SLSP AG full-time. The "Change NEBIS" project focused on the following topics for NEBIS customers: data cleansing, data migration, the deactivation of Aleph, the termination of contracts and the handling of central and local services.

LIBRARY MANAGEMENT

07/19

06/19

Online services that provide science with high-quality data and information for research and development work are important tools in today's academic activities. We have modernised the geodata service GeoVITe together with the ETH Zurich Institute of Cartography and Geoinformation (IKG) and have been offering it as an independent browser-based service since 2019.

GeoVITe includes geodata from the Confederation and the cantons of Switzerland, for example topographical raster charts, topographical vector charts, digital elevation models and ortho-images. In addition, its wide range of data also comprises Siegfried and Dufour Maps and data versions from various different dates. This kind of data is used in science, for example to develop geo-information systems (GIS) for specialised applications or analyses in the fields of environmental science, area planning and architecture.

https://geovite.ethz.ch/

SERVICES

2019 IN BRIEF

In 2019, we geared the communication strategy of the ETH Library towards defining our profile more clearly and communicating the Library's contribution to the university value chain in a more focused manner. The communication strategy centres on three topics: "#KnowHow – ETH Library's infrastructure and tools lead you to your goal" provides up-to-date information on services, tools and source-specific instruments as well as training courses. "#KnowMore – The prepared content issued by ETH Library is at your free disposal and gives you a head start" provides information about our digital information sources. "#FocusHuman – Be inspired by people and learn something new" focuses on people: We introduce people referred to in the holdings, people at ETH Zurich and people at the ETH Library in portraits, interviews, lectures, events, exhibitions or in other forms.

http://www.library.ethz.ch/News

LIBRARY MANAGEMENT

09/19

04/19

During the Wikidata hackdays cycle, the Swiss National Library, the Zentralbibliothek Zürich and the ETH Library worked together with the Bern University of Applied Sciences to identify the potential of Wikidata for libraries.
The ETH Library considered the hackdays cycle to be very successful. On the one hand, links to existing bequests at the three participating libraries were added to Wikidata using a newly developed semi-automatic workflow, ensuring better visibility of library holdings on the Internet. On the other hand, additional functions were implemented on the Primo Discovery software test system that use Wikidata as a data source. These additional functions dynamically expand the search and detail views in Primo in a graph-based manner and facilitate linking for external platforms to location-specific resources or resources related to specific individuals at the ETH Library.

https://tinyurl.com/hackday-GLAM

OUTREACH AND NETWORKING

266 COURSES AND GUIDED TOURS

REFERENCE MANAGEMENT

EFFICIENT SEARCH

LIBRARY INTRODUCTION

395 **5207** PARTICIPANTS

HOURS

http://www.library.ethz.ch/Courses-Tours

COMMUNICATION OF KNOWLEDGE

In November of 2019, ETH Library staff spent an entire day adding aerial photos by Walter Mittelholzer (1894-1937) to Wikipedia entries. Currently, these historical aerial photos can be found in almost 1,000 of the 2,212 Wikipedia articles on Swiss municipalities after having been quality-checked, uploaded to Wikimedia Commons and reliably assigned to the Wikipedia entries by the ETH Library. The "Aktionstag 2212 – Luftbilder-Edit-a-Thon" (Day of Action 2212 – Aerial Photo Edit-a-Thon) was supervised on-site by the Wikipedian Diego Haettenschwiler and was welcomed by the Wikipedia Community Switzerland.

OUTREACH AND NETWORKING

10/19

09/19   11/19

In 2019, we created a new space for the library-wide exchange of knowledge and information at the ETH Library. The central information platform KiK (kurz informativ klar: short, informative, clear – ETH Library Intranews) is a replacement for the various former digital information channels. To promote chance meetings of library staff, so-called "RaumLabore" (room labs) and a "LunchLottery" offer the opportunity for more interaction and facilitate it. To create "RaumLabore", we converted premises previously used as passageways by equipping them with interactive touchscreens, whiteboards and other materials to promote and efficiently support ad hoc meetings. The "LunchLottery" brings together colleagues who work in different teams and who normally do not come into contact in their everyday work. Three colleagues are randomly chosen by lot and spend a coffee or lunch break together. Participation in the "LunchLottery" is voluntary.

Photographer: Lea Bollhalder

LIBRARY MANAGEMENT

2019 IN BRIEF

Thomas Mann was an early adopter of photography and film, which he consciously used to cultivate his public image as an author. How did one of the internationally famous authors of the twentieth century orchestrate his media appearances, and how did he react to the contemporary trend of "occult media"? What parallels can be drawn with today's world of "allegedly social media" with its "selfie takers"? Professor Rüdiger Görner of the Queen Mary University of London tackled these questions in the third Thomas Mann Lecture at ETH Zurich in November of 2019. To begin with, he covered the first sound film by a German author, shot with Thomas Mann in 1929. Subsequently, he placed Thomas Mann's essay "An Experience in the Occult" in a new context.

The video recording of the third Thomas Mann Lecture can be accessed via the online video portal of ETH Zurich.The other events organised by the Thomas Mann Archive team in the reporting year also demonstrated that the appeal of Thomas Mann's work has not diminished over time. The exhibition "Thomas Mann in America" shown in Germany and Switzerland was the highlight of these events. Over 30,000 visitors attended the events.

https://tma.ethz.ch/en/

Source: Strauhof, Photographer: Zeljko Gataric

INFORMATION TREASURES, DATA RETENTION, CULTURAL ARTEFACTS PROTECTION

11/19

11/19

The ETH Library meets the increasing demand for electronic availability of information with eight different platforms featuring digital text documents, digital photos and illustrations. We at the ETH Library operate and maintain these platforms either alone or in cooperation with various partners.

Sorted by subject area or in theme catalogues, we provide current and historical research and university publications, faithful reproductions of old manuscripts, old and new prints, journals, photo collections, graphic prints and drawings. All content on the platforms is provided with structured metadata. They can be searched and filtered electronically in various ways and viewed online using a browser. The documents can be downloaded if the copyright requirements are met. The contents of all platforms are expanded regularly, further development of the technical basis is underway and new functions are being implemented.

To give just one example, we expanded the platform E-Periodica – Schweizer Zeitschriften Online (Swiss Journals Online) by 21 journals with almost 270,000 pages in 2019. Our partner the Swiss National Library added a further 17 journals with approximately 204,000 pages. At the end of 2019, digital copies of 336 different Swiss journals with approximately 7,800,000 single pages in total were available via E-Periodica.

http://www.library.ethz.ch/Digital-library
https://www.e-periodica.ch/digbib/home?lang=en

SERVICES

The

Konsortium der Schweizer Hochschulbibliotheken
Consortium des bibliothèques universitaires suisses
Consorzio delle biblioteche universitarie svizzere
Consortium of Swiss Academic Libraries

collected **50 GB** OF **DATA**

45'000 DOCUMENTS distributed over

has spent over CHF **300 MILLION** on licenses since 2000

hosted around **800** ROUNDS OF NEGOTIATIONS

increased the number of licenses per year from 65 to **1'000** between 2000-2019

Info graphic: Robin Meyer, Thomas Zenger

In November, a delegation from the Swiss Science Council SSC paid us a visit to attend a training course on the future of libraries. The SSC, which is committed to the continuous improvement of education, research and innovation in Switzerland, wanted to learn how the future of libraries can be shaped and what active role we play in shaping it. We at the ETH Library regularly invite interested parties from the field of higher education development and the professional audience to discussion and further training events regarding library development.

OUTREACH AND NETWORKING

At the end of 2019, the Consortium of Swiss Academic Libraries (CSL) moved from the ETH Library to SLSP AG. Before the move, however, it documented its proud record of 19 years of work as a project at the ETH Library by designing a poster with facts and figures. The "Consortium Services" team carries out the same tasks at SLSP AG as before.

https://consortium.ch/?lang=en
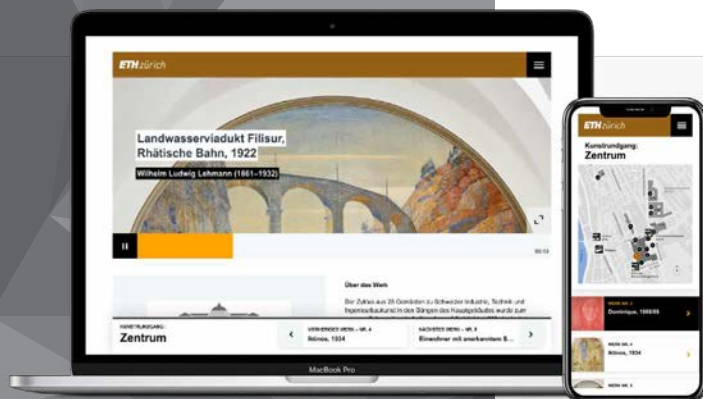
OUTREACH AND NETWORKING

11/19 **11/19** **12/19**

The spacious campus of ETH Zurich features 200 works of art by renowned artists. Twenty of these paintings, sculptures and installations can be viewed in guided tours, the ETH-Kunstrundgänge (ETH Zurich Art Tours). We now also offer tours where your personal mobile device provides navigation and the website of the art tour serves as a guide. In 2019, we at the ETH Library expanded the website to act as a mobile personal art guide for ETH Zurich. There are currently two different art tours, split by location at the ETH Zurich Main Building and ETH Zurich Hönggerberg.

https://www.art.ethz.ch/en/homepage/

OUTREACH AND NETWORKING

FIGURES, FACTS, PUBLICATIONS

Services

Usage	
Active ETH Library users	**26,054**
Loans (print media overall)	**245,116**
Website visits	**598,640**
Access to electronic resources	
incl. databases (total Item investigations)	**2,003,198**
incl. eBooks (section requests)	**4,847,624**
incl. electronic licensed journals (sessions)	**6,031,423**
Courses and introductory events	
Number of events	**266**
Participants	**5,207**
Exhibitions, workshops and congresses	
Number of events	**593**
Participants	**42,385**

Resources

Analogue resources	**9,509,778**
Digital resources	
Databases	**166**
eBooks	**679,171**
Electronic image documents	**612,108**
Electronic journals (titles)	**20,740**

Key figures on the Research Collection

Total full text downloads[1]	**7,656,000**
Total entries	**199,692**
including with deposited digital document	**53,029**
including open access	**41,261**
entries with ORCID iD	**20,032**

[1] compared to 2018: 7,103,879

Loans per customer group in 2019

ETH staff **33%**

Other **3%**

Private individuals **33%**

Students[2] **31%**
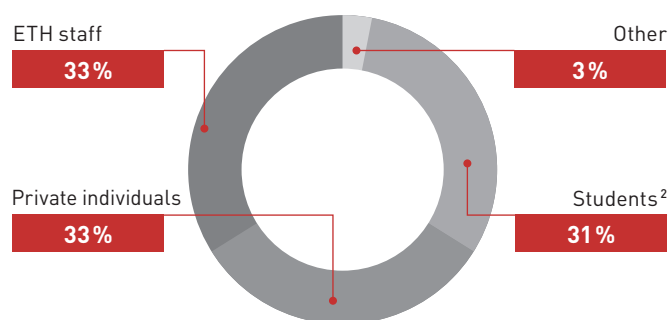
[2] ETH Zurich and other universities

Publications (selection)

Bedenig, Katrin.
"Formen kultureller Repräsentation Thomas Manns in der Schweiz." Mann_lichkeiten: Kulturelle Repräsentationen und Wissensformen in Texten Thomas Manns, edited by J. Reidy and A. Totzke, Würzburg, Königshausen & Neumann, 2019, pp. 177-193.

Boutsiouci, Pascalia, and Fabian Felder.
"Open-Access-Verträge in der Schweiz – ein Werkstattbericht aus dem Konsortium der Schweizer Hochschulbibliotheken."
ABI Technik vol. 39, no. 3, 2019, pp. 190-193, https://doi.org/10.1515/abitech-2019-3002.

Brandtner, Andreas, and Wiederkehr Stefan.
"Forschungsbibliotheken – Arbeiten für die Gesellschaft und mit der Gesellschaft. 48th LIBER Conference, 26.–28. Juni 2019 in Dublin."
ABI Technik vol. 39, no. 3, 2019, pp. 240-244, https://doi.org/10.3929/ethz-b-000362899.

Edinger, Eva-Christina.
"Dörfi, söli, muesi? Widersprüchliche Environment-Behaviour-Settings in Hochschulbibliotheken."
ABI Technik vol. 39, no. 1, 2019, pp. 9-22, https://doi.org/10.1515/abitech-2019-1003.

Amslinger, T., and Strässle, T. editors.
Max Frisch Fragebogen - Erweiterte Ausgabe. Berlin, Suhrkamp, 2019.

Gautschy, Alfred.
"Ein Bummel durch Astronomie-Rarissima." Himmel und Zahlen in alten Drucken, edited by M. D. Hotea, Petersberg, Michael Imhof Verlag, 2019, pp. 10-75. Hardcover, 368 pages with 168 colour and 29 black and white illustrations. ISBN: 978-3-7319-0348-2.

Hotea, Meda D., editor.
Himmel und Zahlen in alten Drucken. Petersberg, Michael Imhof Verlag, 2019. Hardcover, 368 pages with 168 colour and 29 black and white illustrations. ISBN: 978-3-7319-0348-2.

Kyburz, Deborah.
"Corporate Storytelling als Marketinginstrument." Praxishandbuch Informationsmarketing, edited by F. Schade and U. Georgy, Berlin, Boston, De Gruyter, 2019, pp. 526-536.

Lanini, Flavia.
"Alles ist Zahl! Fragen und Antworten im historischen Kontext." Himmel und Zahlen in alten Drucken, edited by M. D. Hotea, Petersberg, Michael Imhof Verlag, 2019, pp. 76-193. Hardcover, 368 pages with 168 colour and 29 black and white illustrations.
ISBN: 978-3-7319-0348-2.

Sesartic Petrus, Ana, and Matthias Töwe.
"Forschungsdatenmanagement an der ETH Zürich: Ansätze und Wirkung." Bibliothek Forschung und Praxis, vol. 43, no. 1, 2019, pp. 49-60, https://doi.org/10.1515/bfp-2019-2002.

Presentations (selection)

Amslinger, Tobias.
"Digitalisierung im Max Frisch-Archiv." KOOP-LITERA 2019: 22. Arbeitstagung der österreichischen Literaturarchive und verwandter Institutionen, 11 April 2019, Bregenz, Austria, https://www.research-collection.ethz.ch/handle/20.500.11850/337777.

Ball, Rafael.
"Wissenschaftskommunikation im Wandel: Bedeuten neue Formate und Optionen das Ende des linearen Textes?" Digital-Konferenz für Verlage und Bibliotheken, 16 September 2019, Munich, Germany, https://doi.org/10.3929/ethz-b-000376842.

Ball, Rafael, and Maximiliane Okonnek.
"Scholarly Communication in transition: Towards Open Science." Open Science and Open Innovation, International Council for Scientific and Technical Information, 24 September 2019, Shanghai, China.

Ball, Rafael, and Eva-Maria Szabo.
"Marketing und Management." 7. Bibliothekskongress Leipzig 2019, 18 March 2019, Leipzig, Germany.

Gasser, Michael.
"Vom Digitalisat zum digitalen Service. Angebote und Potential der Archive der ETH-Bibliothek." 5. Schweizerische Geschichtstage, 6 June 2019, Zurich, Switzerland, https://doi.org/10.3929/ethz-b-000346461.

Gasser, Michael, and Uwe Jung.
"Wikidata und Archive – Archive und Wikidata." Offene Archive – 5. Konferenz mit Archiv-Camp, 4 November 2019, Berlin, Germany.

Geisser, Franziska.
"Rosetta @ ETH Data Archive." Memoriav Fachtagung 2019, 19 March 2019. Biel, Switzerland, https://doi.org/10.3929/ethz-b-000353264.

Hirschmann, Barbara.
"10 Years DOI Desk at ETH Zurich." Persistent Identifiers in Research – Celebrating 10 Years of DOI Desk at ETH Zurich, 13 September 2019, Zurich, Switzerland, https://doi.org/10.3929/ethz-b-000365054.

Koesling, Sven.
"Blockchain and the ETH Library." Persistent Identifiers in Research – Celebrating 10 Years of DOI Desk at ETH Zurich, 13 September 2019, Zurich, Switzerland, https://doi.org/10.3929/ethz-b-000365529.

Kolbmann, Wibke.
"Eine digitale Infrastruktur für die naturwissenschaftlichen Sammlungen der ETH Zürich. Ein Praxisbericht aus dem Projekt „EIDOS"." Final conference Objekte im Netz. Wissenschaftliche Sammlungen im digitalen Zeitalter, 5 November 2019, Nuremberg, Germany.

Kyburz, Deborah.
"Storytelling und neue digitale Kommunikationsmittel an der ETH-Bibliothek." Theme day Kommunizieren und sichtbar werden in einer digitalen Welt: Eine Herausforderung für ABD-Institutionen (Archiv / Bibliothek / Informationszentren), 20 September 2019, Berne, Switzerland, https://doi.org/10.3929/ethz-b-000373593.

Schädler, Linda.
"Eine gewinnbringende Liaison. Die wissenschaftliche Zusammenarbeit der Graphischen Sammlung und des Departements Architektur an der ETH Zürich einst und heute." International conference: Kunstgeschichte an polytechnischen Instituten, Technischen Hochschulen, Technischen Universitäten. Geschichte / Positionen / Perspektiven, 11 January 2019, Vienna, Austria.