



UNIL'S OPEN SCIENCE STRATEGY & ACTION PLAN

Swiss Research Data Day - Geneva

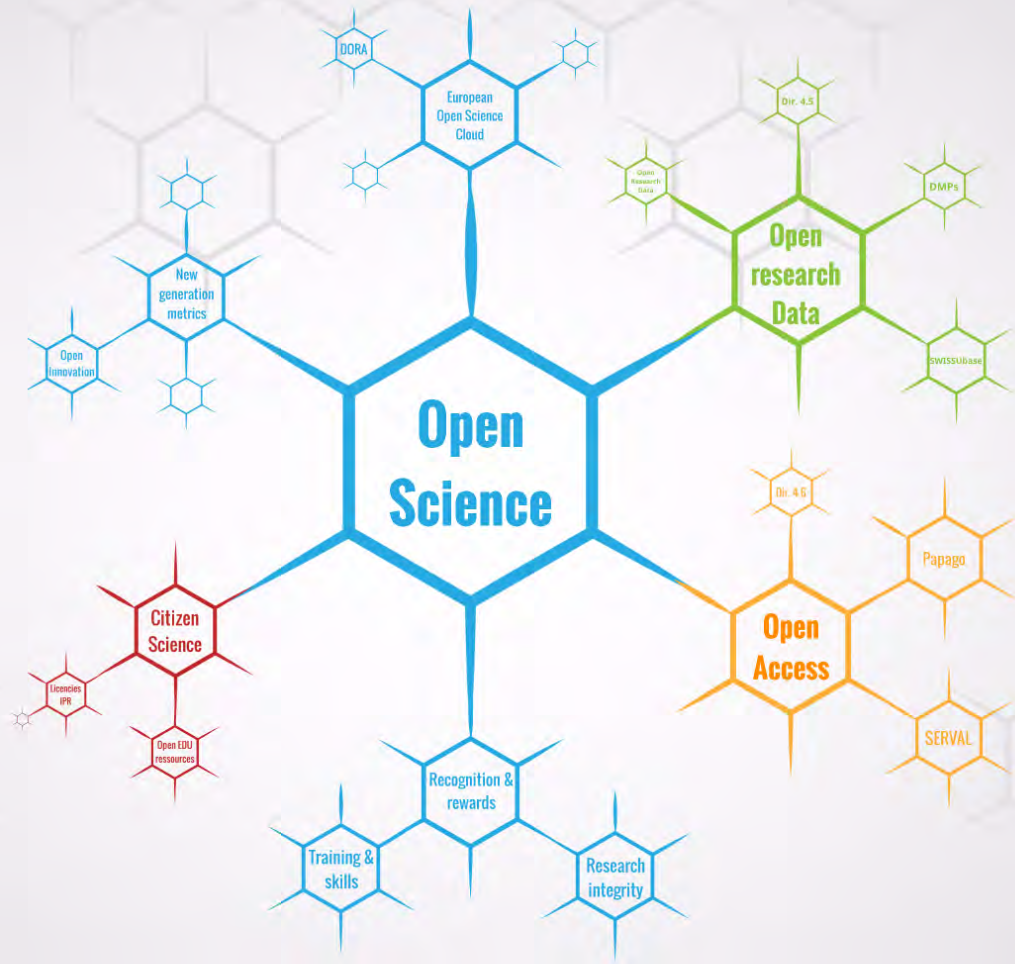
Gérard Bagnoud (Director - Information & Archives Unit - UNIRIS)
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22.10.2020



The University Rectorate intends to adopt a very clear promotion policy in favor of accessibility of both publications (Open Access) and research data (Open Data).

" Plan d'intentions " of the University of Lausanne,
2017-2021



Open ?

...a movement, made possible by **digitalization** (web), which makes scientific research, data and research results **accessible to all levels of society** and to everyone.

...represents a **new approach to scientific processes** based on **collaborative work** and new ways of **disseminating knowledge** using digital techniques and new collaborative tools.



Amsterdam Call for Action on Open Science 2016

Vote of the 28 EU member countries : all publications in immediate Open Access by 2020 (Gold or Green) and associated Research Data accessible.



European Commission : **Open Innovation, Open Science (Science 2.0), Open to the World : a vision for Europe - 2016**

2003



2012



FNSNF

FONDS NATIONAL SUISSE
DE LA RECHERCHE SCIENTIFIQUE

- OA 2020 (100%)
- OrD - DMP (oct.2017)

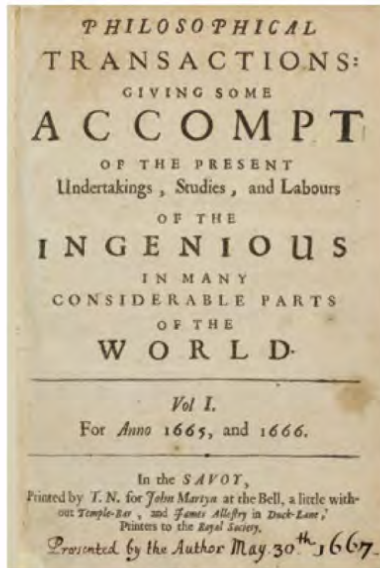
swissuniversities

2018 : **Open Access Strategy**
2021 : **Open research Data S.**

From 1665 to 2020 : A scientific revolution

1665

PRINT-centric



Philosophical transactions : first scientific journal

Source : Philosophical Transactions : 350 years of publishing at the Royal Society (1665 – 2015)

2020

WEB-centric



Impacts of OS

- **public access** to publicly funded research (+ developing countries)
- increased **visibility** of research (citation) and speed of **dissemination**
- driving force of **innovation** and engine of **communication**
- increases control of "bad" scientific conduct (**transparency**)
- increase the **quality** and **integrity** of science
- a response to the **reproducibility crisis**
 - *Open science is a research accelerator* (DOI:10.1038/nchem1149)
 - *How open science helps researchers succeed* (DOI:10.7554/eLife.16800)

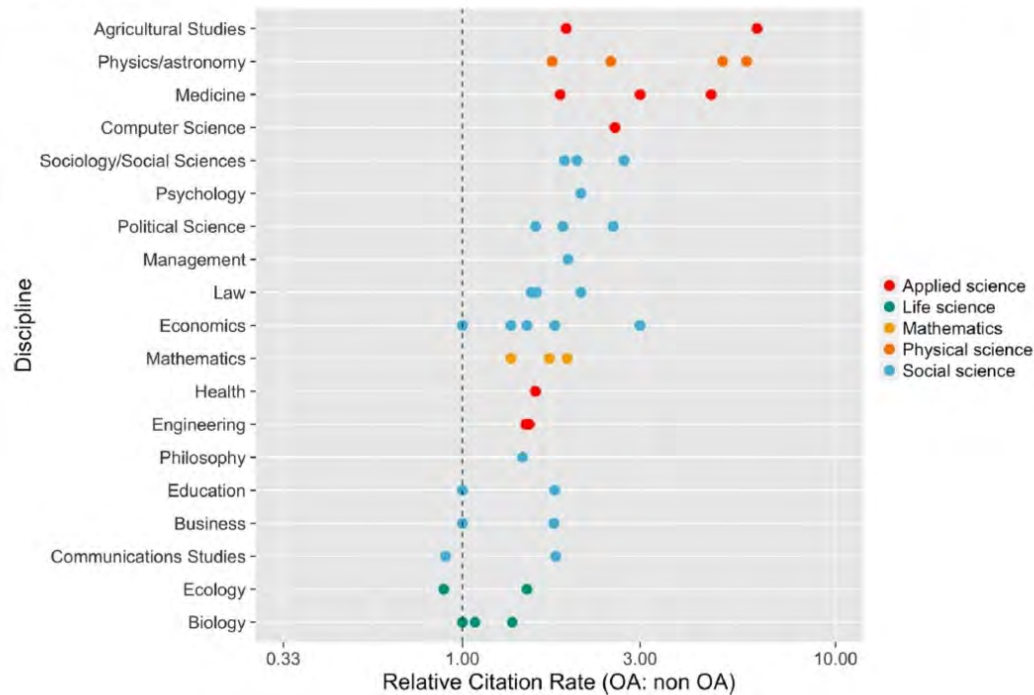


Figure 1. Open access articles get more citations. The relative citation rate (OA: non-OA) in 19 fields of research. This rate is defined as the mean citation rate of OA articles divided by the mean citation rate of non-OA articles. Multiple points for the same discipline indicate different estimates from the same study, or estimates from several studies. References by discipline: Agricultural studies (*Kousha and Abdoli, 2010*); Physics/astronomy (*Gentil-Beccot et al., 2010; Harnad and Brody, 2004; Metcalfe, 2006*); Medicine (*Sahu et al., 2005; Xu et al., 2011*); Computer science (*Lawrence, 2001*); Sociology/social sciences (*Hajjem et al., 2006; Norris et al., 2008; Xu et al., 2011*); Psychology (*Hajjem et al., 2006*); Political science (*Hajjem et al., 2006; Antelman, 2004; Atchison and Bull, 2015*); Management (*Hajjem et al., 2006*); Law (*Donovan et al., 2015; Hajjem et al., 2006*); Economics (*Hajjem et al., 2006; McCabe and Snyder, 2015; Norris et al., 2008; Wohlrabe, 2014*); Mathematics (*Antelman, 2004; Davis and Fromerth, 2007; Norris et al., 2008*); Health (*Hajjem et al., 2006*); Engineering (*Antelman, 2004; Koler-Povh et al., 2014*); Philosophy (*Antelman, 2004*); Education (*Hajjem et al., 2006; Zawacki-Richter et al., 2010*); Business (*Hajjem et al., 2006; McCabe and Snyder, 2015*); Communication studies (*Zhang, 2006*); Ecology (*McCabe and Snyder, 2014; Norris et al., 2008*); Biology (*Frandsen, 2009b; Hajjem et al., 2006; McCabe and Snyder, 2014*).

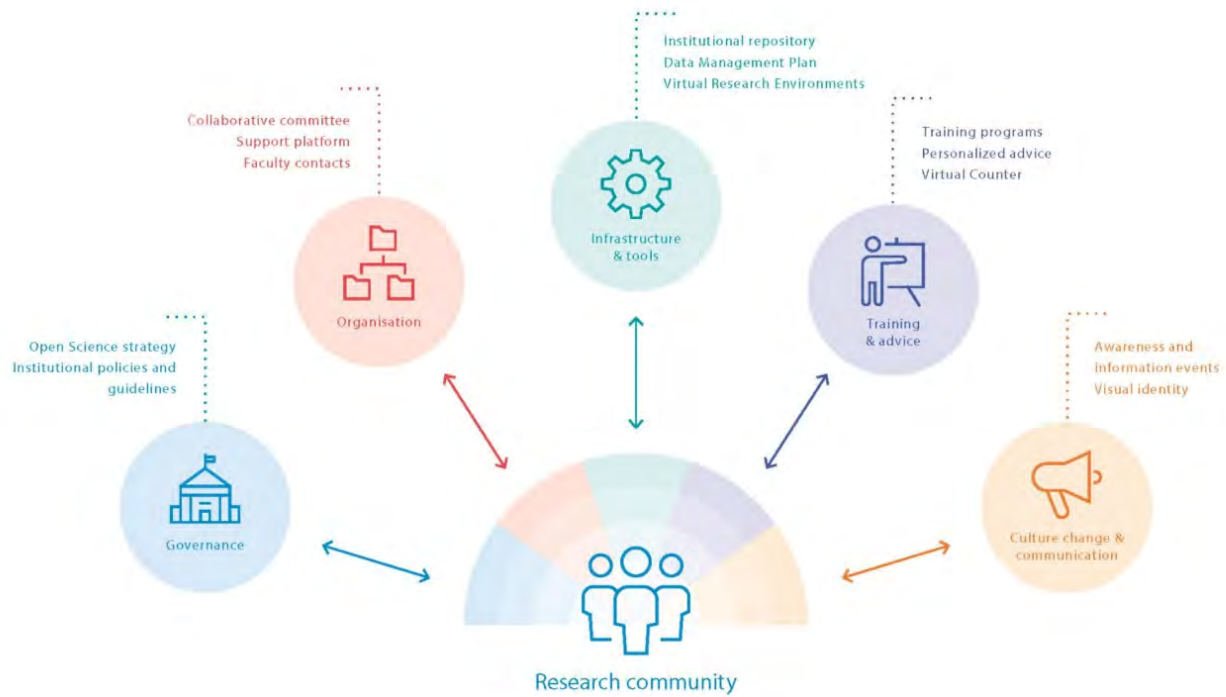
DOI: [10.7554/eLife.16800.002](https://doi.org/10.7554/eLife.16800.002)

UNIL's OS Strategy and Action plan

Developed in 2019, UNIL's OS strategy focuses on :

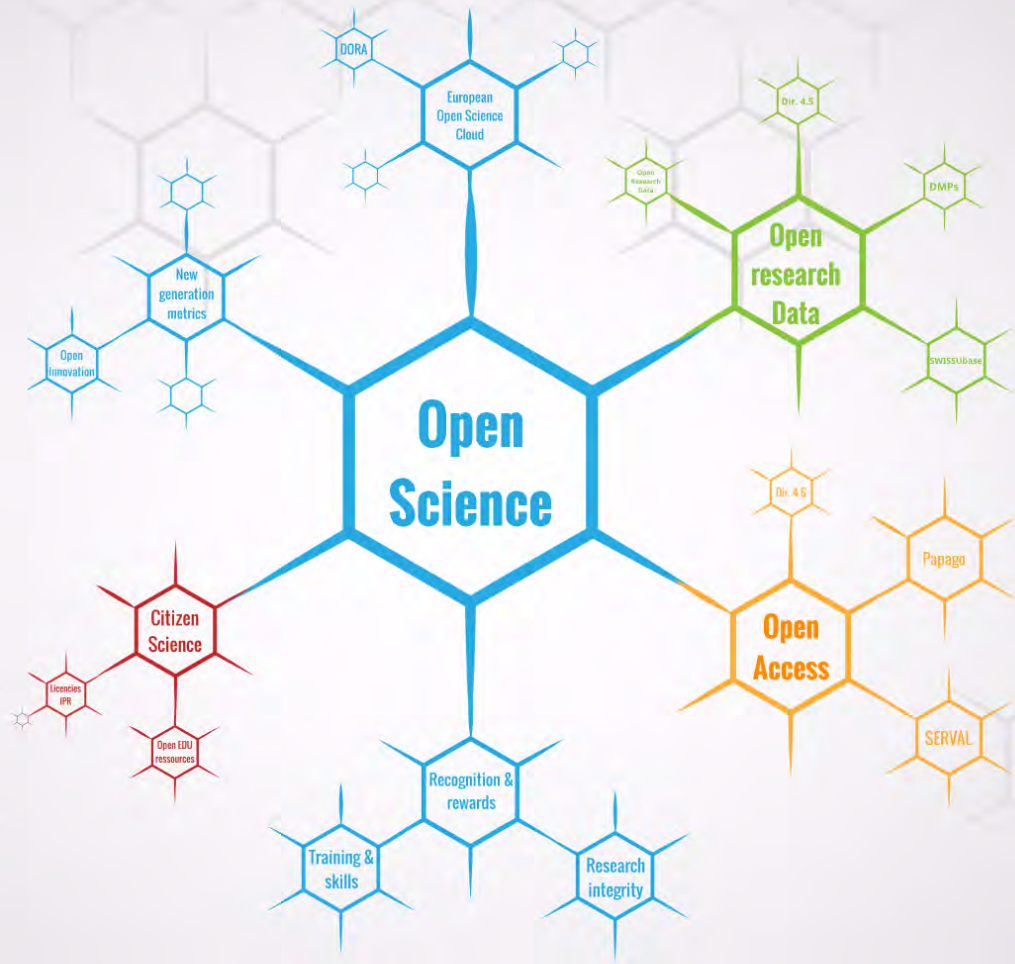
- the free access to scientific publications ([Open Access](#)) ;
- the opening of research data ([Open research Data](#)).

The goal is to [rise up to the challenge](#) of disseminating scientific knowledge.



UNIL's Open Science strategy – Action plan 2019-2021

5 priority axes to support UNIL researchers



Open Research Data UNIL's approach

Open and responsible

- *"As open as possible, as closed as necessary"*;
- Considers national and international frameworks;
- Based on the needs and expectations of its community as identified in a survey conducted in 2015.

Priorities to :

- Awareness and communication of this "new" scientific culture;
- The support and training of its researchers in the face of this evolution;
- The development of technical infrastructure;
- The establishment of a participatory organization and governance capable of effectively meeting the needs of its community.

Directive 4.5

Goal and Purpose

- Regulates the processing, storage, archiving and preservation of research data;
- Defines rules, roles, responsibilities, costs;

Annexe 1 : Terminologie

Les données de recherche sont des enregistrements utilisés comme sources principales pour la recherche scientifique.

Les données de recherche comprennent en particulier, mais pas exclusivement :	<ul style="list-style-type: none">• les données primaires : données originales (mesure, texte, image, son, vidéo, questionnaires, etc.) collectées ou générées dans le but de mener à bien un projet de recherche ;• les données existantes rassemblées ou copiées à des fins d'utilisation immédiate ou future pour des Projets (en particulier données administratives ou statistiques, contenus numérisés de collections, données disponibles dans les bases de données expressément mises à disposition d'une communauté de chercheurs) - les données ou contenus originaux ne sont pas visés par la présente directive ;• toute nouvelle donnée résultant du traitement (analyse, agrégation, transformation, etc.) des données primaires.
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Regulates the following aspects

- Research Data Ownership
- Data Management Plan (DMP)
- RDM Best Practices
- Data storage, backups & security
- Long term archiving & destruction
- FAIR Data Principles
- Deposit on non-commercial Repository

RDM Support and Training



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Open Science at UNIL

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Research data in general ^

- Data life cycle & types
- Research data management

Compliance & Requirements ^

- Data ownership
- Licence of use
- Personal or sensitive data
- Ethics & deontology
- FAIR & Open Data

How to manage your Data ? ^

- Data Management Plan - DMP
- Organization & description
- Storage & security
- Preservation & sharing

FAQ

How to manage your Data ?

On these pages you will find practical support to help you meet the 4 challenges of planning (DMP), collection and organization, storage and security, and archiving and sharing your data.

An introduction provides you with a better understanding of what research data management is, why it is important to be concerned about it in your research, who is responsible for it and what costs, if any, you should consider.



Data Management Plan - DMP



Organize your data



Storage & security



Preservation & sharing

Follow us:

Did you know ?

In 2015, 88% of UNIL researchers had never completed a Data Management Plan.

[UNIL Research Data Survey, 2015](#)

Flyer Open Science at UNIL

[Open Science UNIL - Open Access & Open research Data \(FR\)](#)

[Open Science UNIL - Open Access & Open research Data \(EN\)](#)

Share:

www.unil.ch/openscience

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Edition



Open Science Course Platform



Cours Open Science pour les doctorant·e·s et chercheur·e·s de l'UNIL

🏠 Accueil

🔒 Connexion

Bienvenue

Bienvenue sur l'application de gestion des inscriptions aux cours Open Science de l'Université de Lausanne (Ci).

Cours planifiés

Titre | Description

Sélectionnez une catégorie



Titre	Description	Lieu	Horaires	Places disponibles	Inscription
Plan de gestion des données ou Data Management Plan (DMP) du FNS	Atelier d'aide à la rédaction du Plan de gestion des données ou Data Management Plan du Fonds national suisse de la recherche scientifique (FNS). Nous recommandons aux participant·e·s de disposer d'un accès/compte mySNF . Plus d'informations	Cours en ligne via Zoom	02 nov. 2020 09:30 12:00	20 / 20	S'inscrire

DMPonline for UNIL's researchers

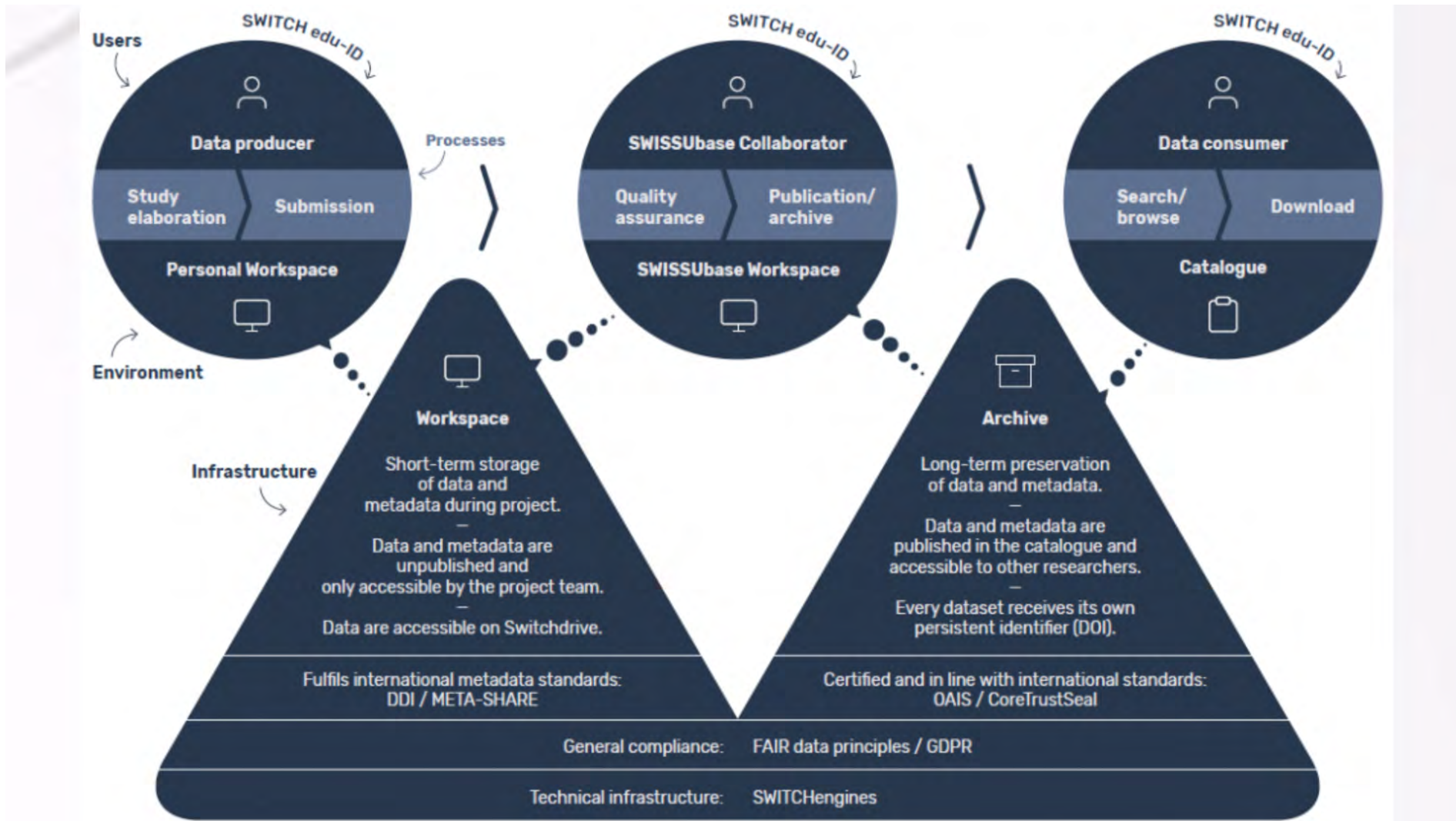
The screenshot displays the DMPonline web application interface. At the top, there is a navigation bar with the DMPonline logo and links for 'My Dashboard', 'Create plans', 'Reference', and 'Help'. Below this, the UNIL logo and 'UNIL | Université de Lausanne' are visible, along with contact information for 'UNIL - Site officiel' and 'UNIL - Open research Data'. The main content area is titled 'Carmen's Plan' and features a tabbed interface with 'Project Details', 'Plan overview', 'Write Plan', 'Share', 'Request feedback', and 'Download'. The 'Write Plan' tab is active, showing a progress indicator '1/2 answered' and a list of data management tasks, each with a progress bar. The tasks listed are: 'Description des données (1 / 2)', 'Méthodologie adoptée et traitement des données (0 / 0)', 'Organisation et règles de nommage (0 / 0)', 'Documentation et métadonnées (0 / 0)', 'Stockage (0 / 0)', 'Sauvegarde (0 / 0)', 'Questions éthiques (0 / 0)', 'Sécurité des données (0 / 0)', 'Propriété intellectuelle et questions légales (0 / 0)', 'Conservation à long terme (0 / 0)', and 'Partage (0 / 0)'.

Available from
January 2021.

- A project supported by Swiss universities; FORS, UNIL, UNIZH, DaSCH & SWITCH partners.
- *"A research data service that provides a technical solution and services for the management of research projects and the archiving, dissemination, and promotion of research data and metadata across scientific disciplines."*
- Available from January 2021.

<https://info.swissubase.ch/>





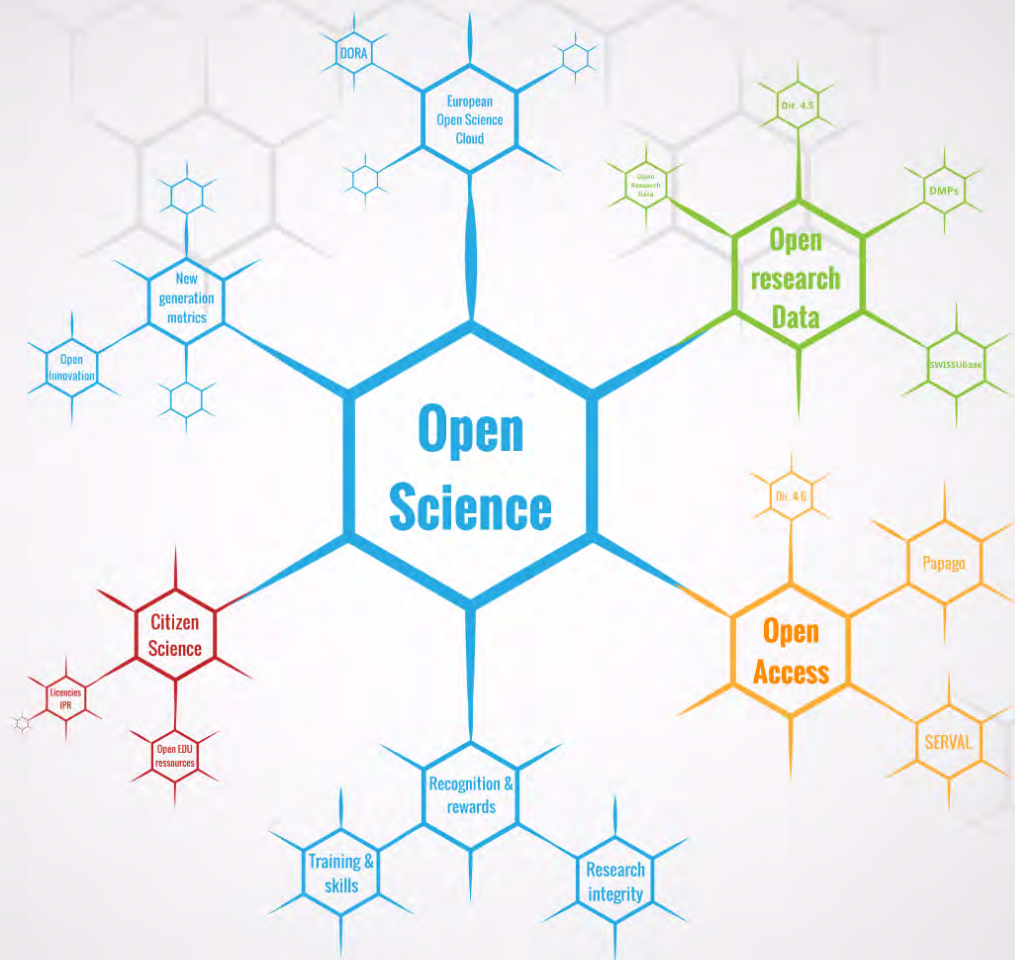
RDM & ORD Future Challenges

- Disciplines specific DMPs templates
- Active Data Management (ADM) & Virtual Research Environments (VRE)
- FAIR Data Principles throughout the entire Research Data lifecycle
- Open Research Data (OrD) valorization
- Data reuse by civil society (Citizen Science, Hackathons, etc.)

18 – 20 January 2021 | Virtual Conference

SWISS OPEN RESEARCH DATA HACKATHON

SWITCH and FORS organise an Open Research Data (ORD) Hackathon to strengthen collaboration and build a community around ORD. Students, academics, developers and service providers from Switzerland and beyond are invited to share their ideas and pave the way for innovative projects and applications.



UNIL's Open Access Approach

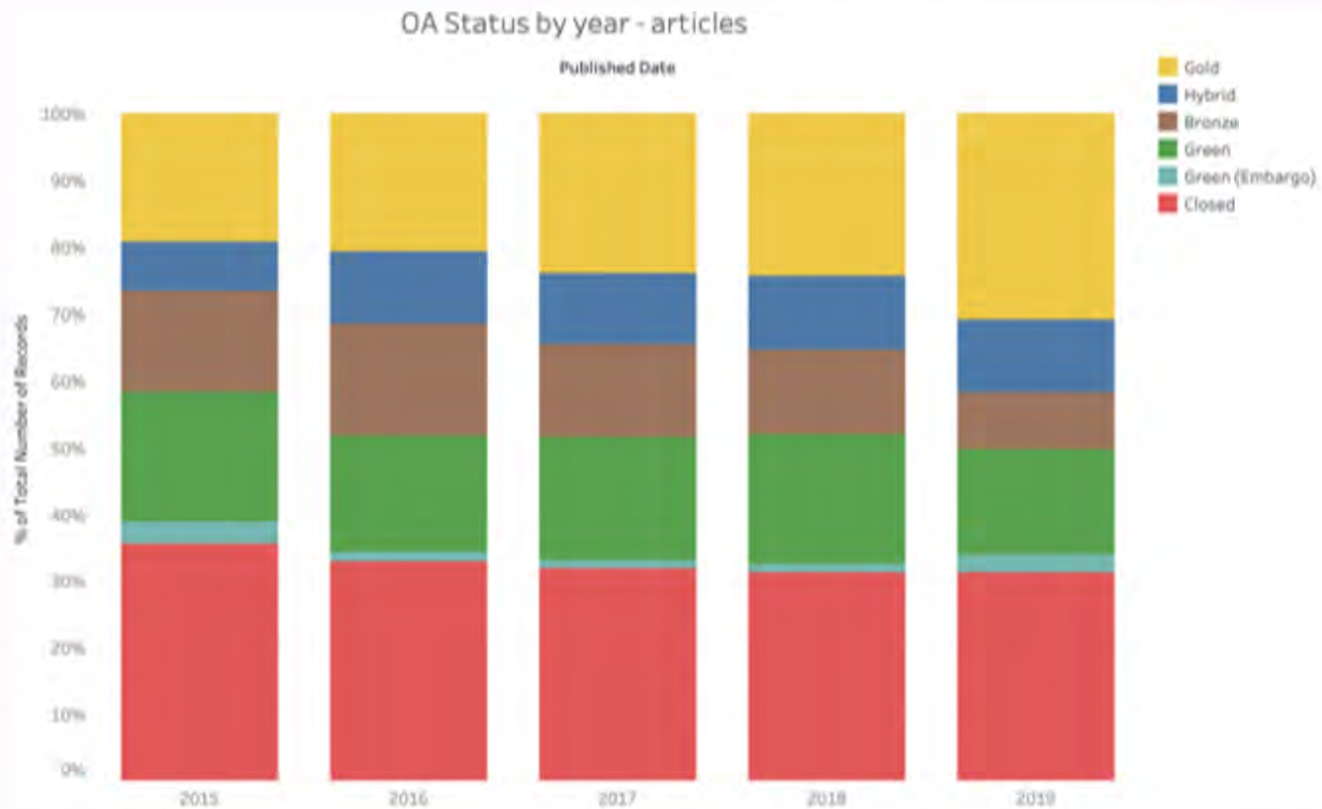
Challenges

- Given the richness and variety of UNIL's disciplinary fields, a single approach to Open Access that favours one path over another cannot be advocated.
- To guarantee our researchers' academic freedom, we developed a mixed and pragmatic approach where the golden and green paths coexist and complement each other.

Priorities

- ***Making our researchers' life easier!***
- Support, advice, training and advocacy.
- Development of technical infrastructures.
- Exploring alternative forms of publication.
- Shifting research evaluation to include access to results.

OA status at UNIL



Directive 4.6



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What is Open Access?

How to publish in Open Access

Papago - your Open Access personal assistant

Open Access at UNIL

UNIL's Open Access Directive (SERVAL)

Publishing support

Institutional Open Access Survey 2017

External Open Access policies

SERVAL

EdiPub UNIL

FAQ

UNIL's Open Access Directive (SERVAL)

The Directive | Context | What and who does it apply to? | Complying with the Directive in three steps

The Directive



Full text

The full text of Directive 4.6 (FR) can be found [here](#).

Context

UNIL's mission is, among others, to transmit knowledge and develop science through teaching and

Follow us:

Resources

[PAPAGO - Your Open Access personal assistant](#)

[SERVAL tutorials](#)

[Copyright and Open Access guide](#)

[Template letters to negotiate embargo periods](#)

Courses

[Open Access and SERVAL training \(FR\)](#)

Need help?

[FAQ](#)

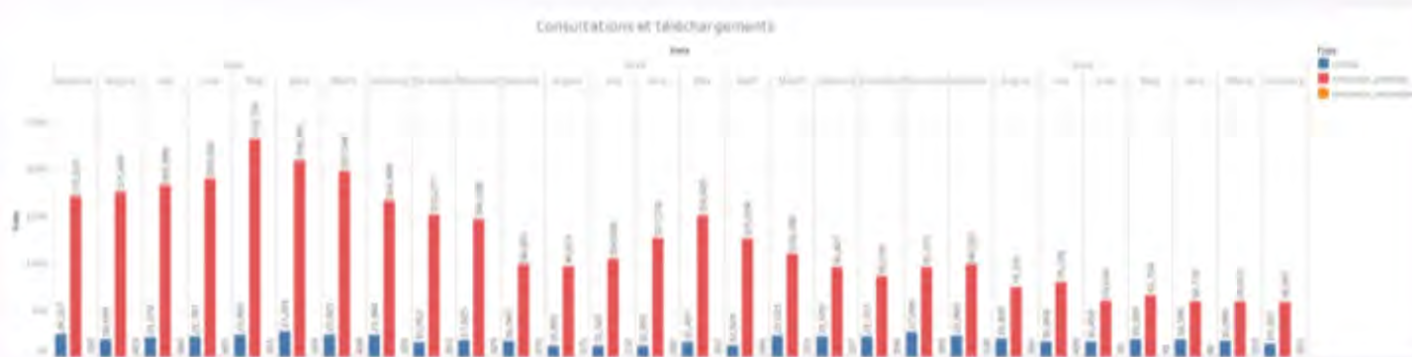
[Contact us!](#)





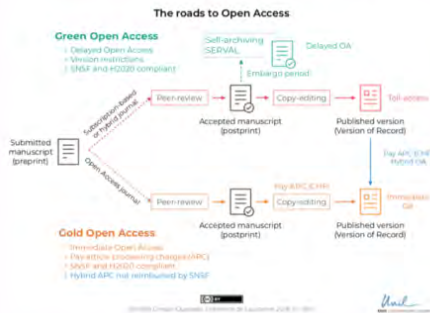
SERVAL

- Our institutional repository underwent a fundamental change in 2019 where researchers could freely work on (and were thus responsible for) their publications.
- We also worked on the ease of use and on the discoverability of the archived documents.

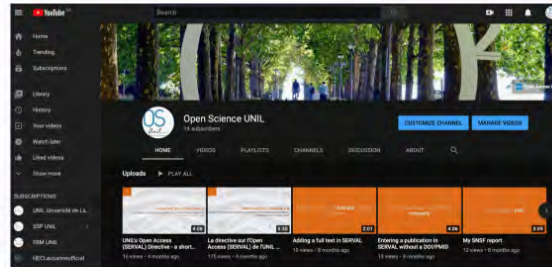


Training and Information

- Cheatsheets



- Video tutorials



- Guides



- Online Course on Moodle



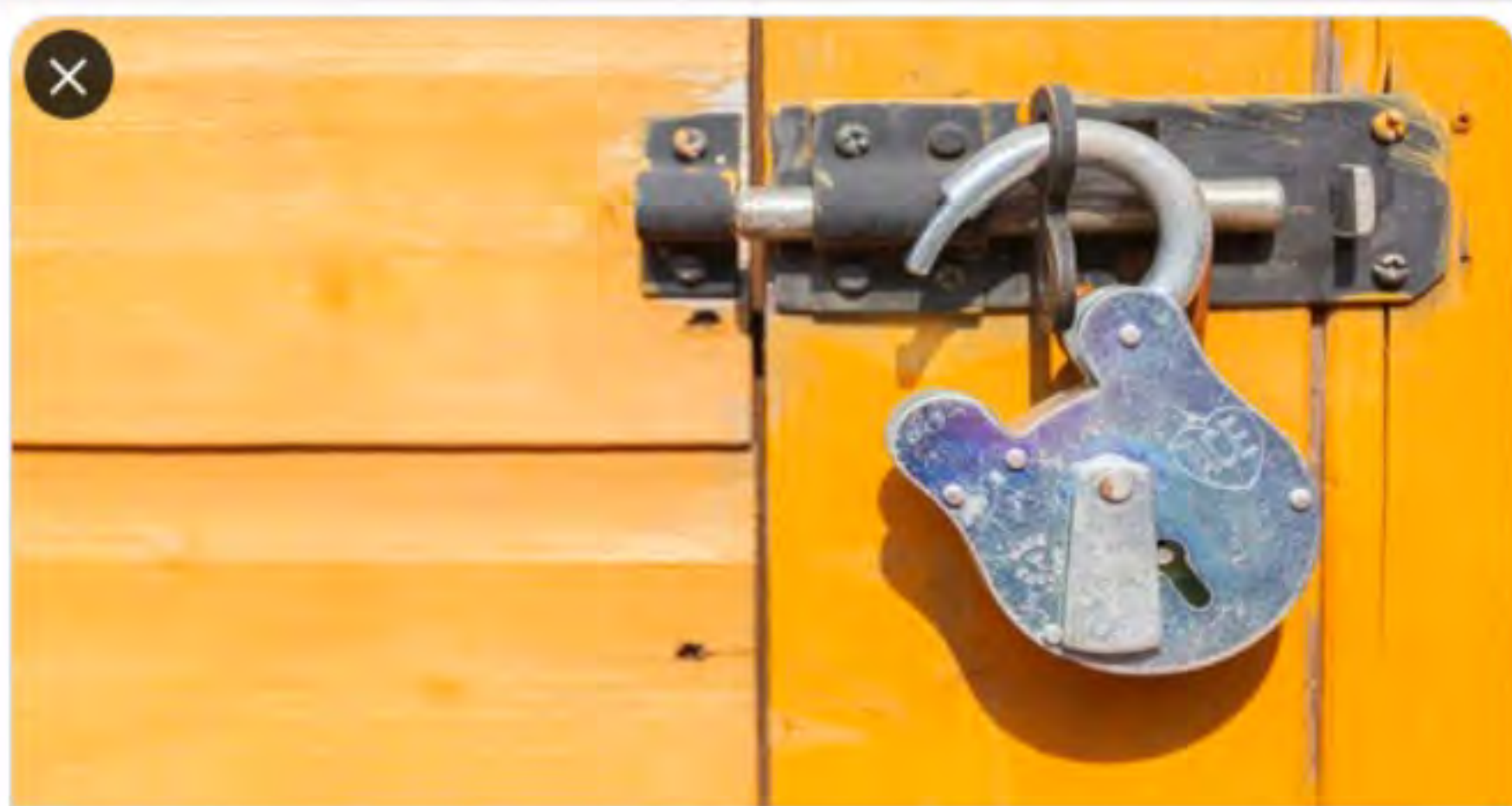
[La recherche à l'ère de l'Open Access](#)

Open Access Publishing Portal - EdiPub UNIL



Final words

“Let’s turn this abnormal situation, in which COVID-19-relevant papers and data are shared widely, into a normal situation”. (Smits, 2020)



COVID-19 has profoundly changed the way we conduct and share re...
COVID-19 has led to rapid and open sharing of research outputs. But
will this new, radically open research communications paradigm resu...
blogs.lse.ac.uk

<https://blogs.lse.ac.uk/impactofsocialsciences/2020/09/24/covid-19-has-profoundly-changed-the-way-we-conduct-and-share-research-lets-not-return-to-business-as-usual-when-the-pandemic-is-over/>



Open science: after the COVID-19 pandemic there can be no return t...
Why is openly accessible science so important?
[science.org.au](https://www.science.org.au)

<https://www.science.org.au/curious/policy-features/open-science-after-covid-19-pandemic-there-can-be-no-return-closed-working>