UNIVERSITÉ DE FRIBOURG
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WORKSHOP OPEN SCIENCE



EDUFORM RESEARCH DAY
21 OCTOBRE 2026

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INTRODUCTION TO OPEN SCIENCE

Open Science

Open Access

Predatory Journals

Unique & Persistent Identifiers

Open Research Data

Open Educational Resources

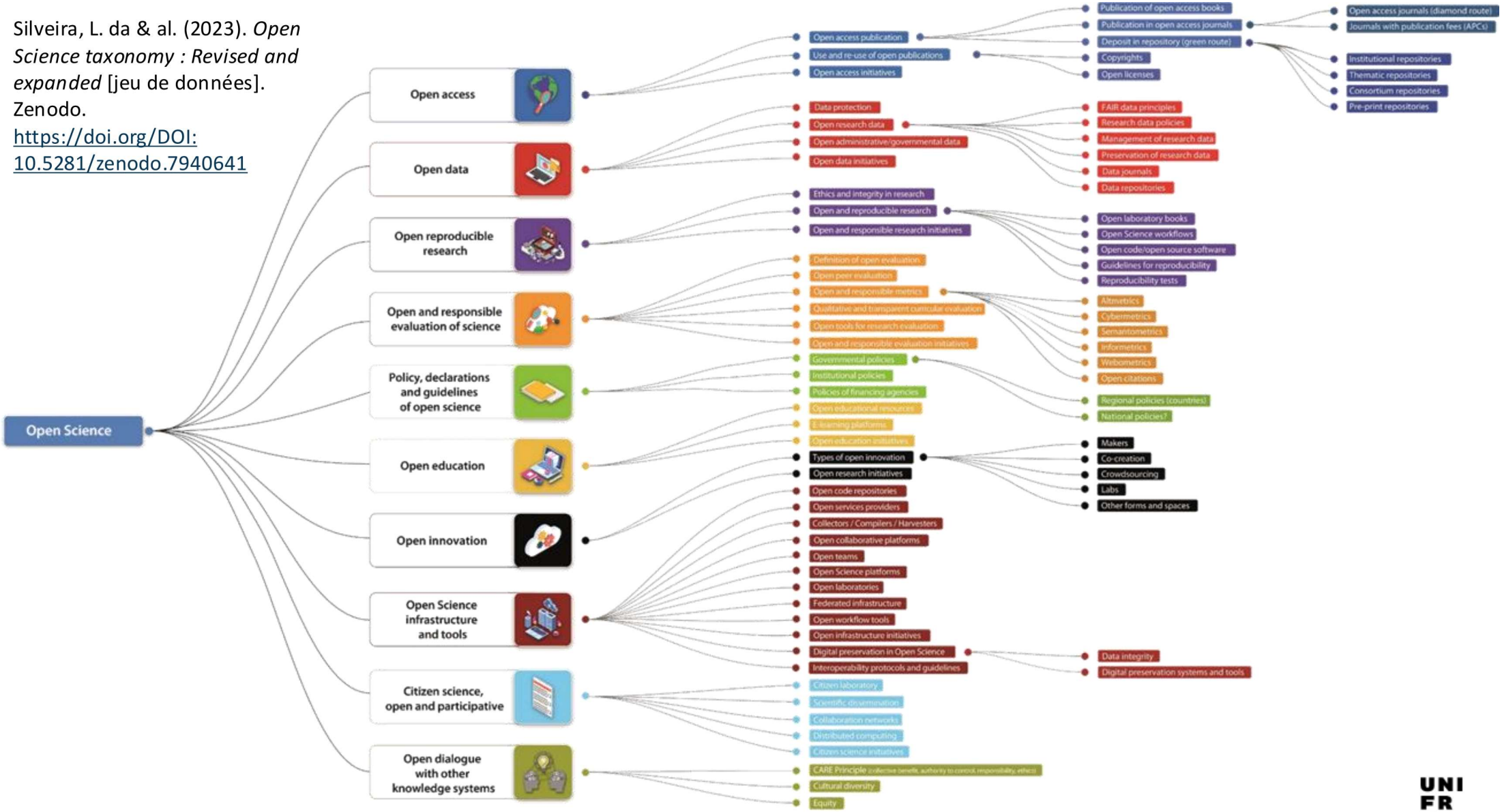
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OPEN SCIENCE

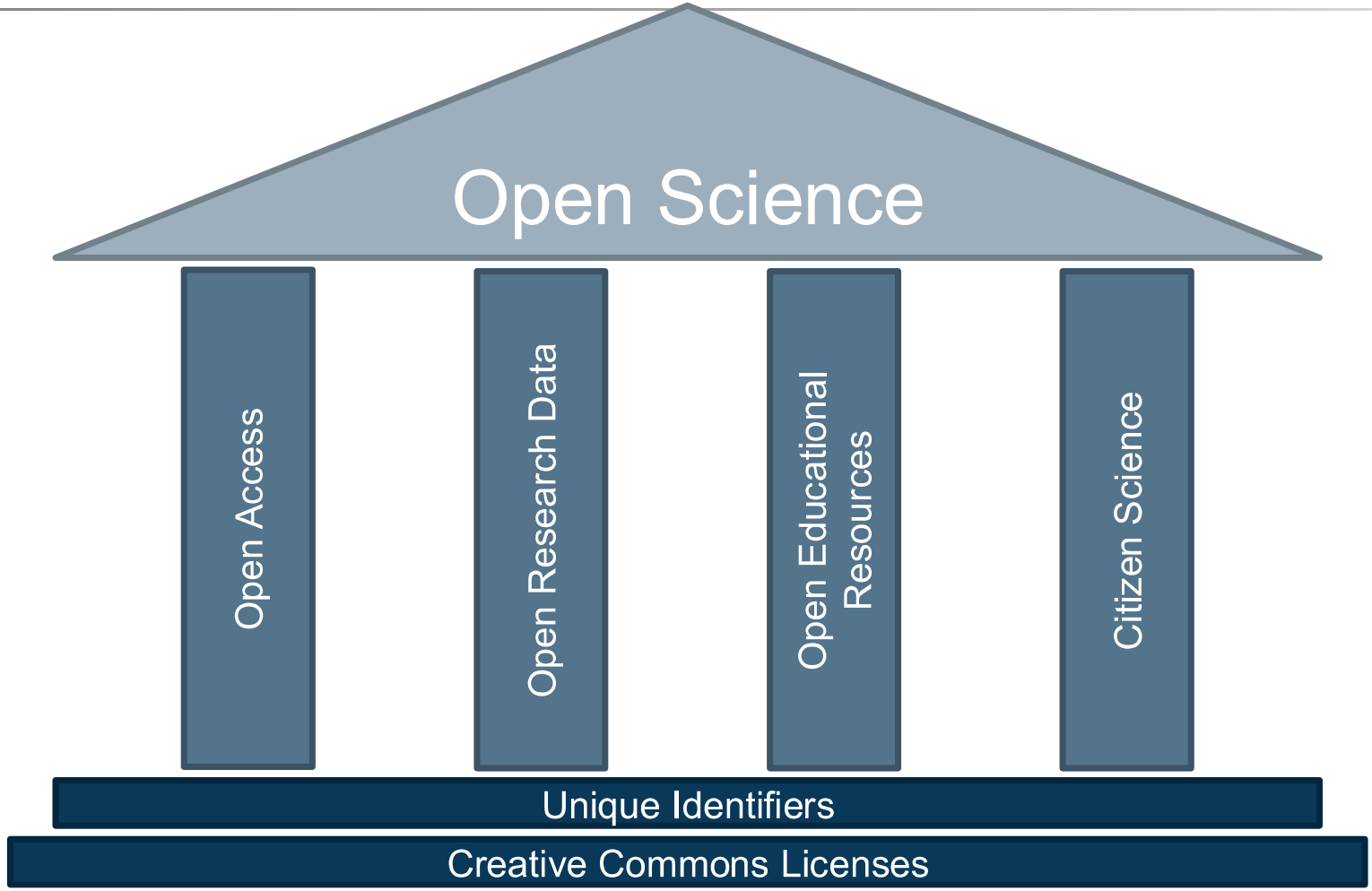
Open Science is defined as an inclusive construct that combines various **movements and practices** aiming to make **multilingual** scientific knowledge **openly available**, accessible and **reusable for everyone**, to increase scientific collaborations and sharing of information **for the benefits of science and society**, and to open the processes of scientific knowledge creation, evaluation and communication to societal actors beyond the traditional scientific community.

UNESCO. (2021). **UNESCO Recommendation on Open Science**. https://doi.org/10.54677/MNMH8546

Silveira, L. da & al. (2023). *Open Science taxonomy : Revised and expanded* [jeu de données]. Zenodo. https://doi.org/DOI: 10.5281/zenodo.7940641



OPEN SCIENCE



OPEN SCIENCE & OPEN ACCESS : NATIONAL ACTORS

- **Swissuniversities**
  - Open Access Strategy revised in 2024
  - Open Research Data Strategy in 2021 (with SNSF, ETH & Academies)

- **Swiss National Science Foundation (SNFS)**
  - Publication Strategy
  - Open Research Data Strategy (see above)

- **Universities & Universities of Applied Sciences**
  - UNIFR Open Access Policy 2020 www.unifr.ch/openaccess
  - UNIFR Research Data Management 2022 www.unifr.ch/openscience
  - UNIFR Open Science Policy (to be published in 2026)

- **Publishers**
  - Open Access agreements with libraries and consortia (f.e. Read&Publish)
  - Open Access policies, with or without APC (see https://doaj.org/ or https://openpolicyfinder.jisc.ac.uk/)

OPEN ACCESS

- Free, unlimited and immediate access to scientific publications online, with a clear license and permanent identifiers.

Why ?

- Availability
- Visibility & faster dissemination
- Transparency
- Reduced publication costs
- Reclaiming copyright by researchers
- Compliance to funders' OA policies

Checklist

- ✓ Permanent identifier (DOI)
- ✓ Creative Commons License
- ✓ Downloadable PDF
- ✓ Minimal Embargo
- ✓ Long-term preservation
  - Publisher with preservation policy
  - Institutional repositories

➢ Open Access @ UNIFR
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openaccess@unifr.ch

MAIN ROADS OF OPEN ACCESS

Green Road



A copy of the publication is deposited in an institutional repository

Embargo
0 – 3 Years

Golden Road

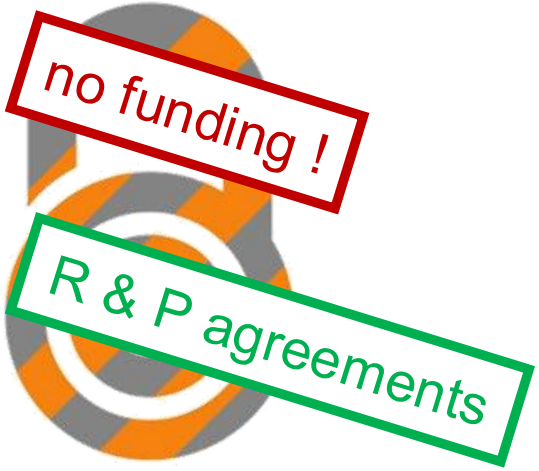


*The publication is **immediately** available in Open Access (journal: all articles)*

Article Processing Charges
USD 0 – 6000

0 APC = Diamond OA

Hybrid Road



Subscription journals (closed access) with some articles in Open Access

Subscription Costs
& APC

DIFFERENT ROADS OF OPEN ACCESS



- Green Road
  - Pre- / Postprints in repositories
  - Check Open Policy Finder : https://openpolicyfinder.jisc.ac.uk/
  - Right Retention Strategy (reduce embargo period to 0)
  - UNIFR : Institutional repository FOLIA : https://folia.unifr.ch



- Golden and Diamond Road
  - Publication in Open Access Journal
  - Article or Book Processing Charge (APC - BPC)
  - Directory of Open Access Journals: www.doaj.org
  - Directory of Open Access Books : www.doabooks.org
  - UNIFR : APC paid by SNSF (100%) or OA Reimbursement Funds (partially)
  - UNIFR : Diamond Open Access : www.soap2.ch

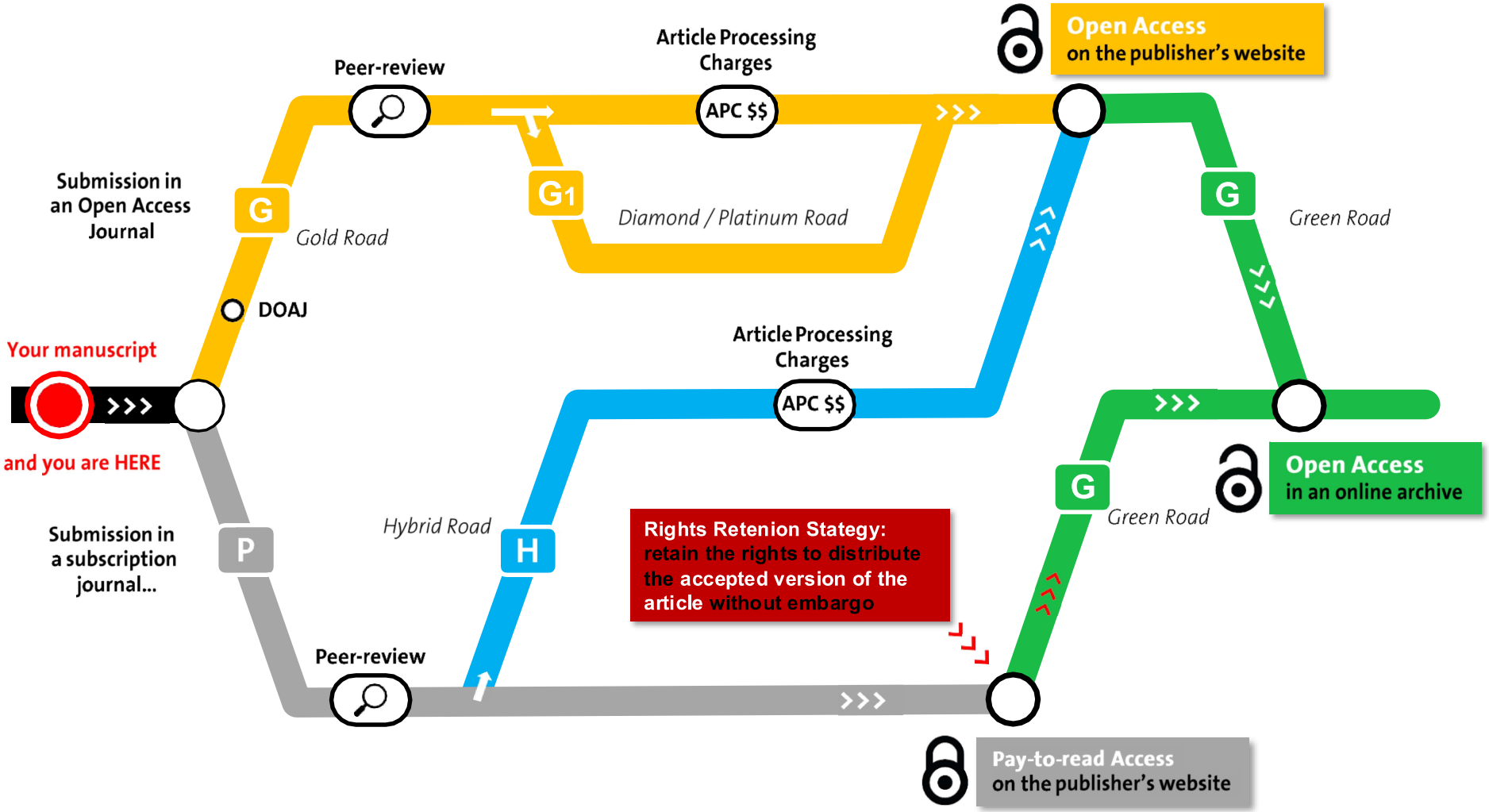


- Hybrid Road
  - Open Access at article level
  - “double dipping” (APC & subscription)
  - But: “Read & Publish Agreements” (“Big Deals”)
  - UNIFR: APC Discounts (often 100%) for certain publishers : details here

RRS – SNSF Standard Formulation
Include the following Text on the submitted manuscript:

This research was funded in whole or in part by the Swiss National Science Foundation (SNSF) [Grant number].
For the purpose of Open Access, a CC BY public copyright license is applied to any Author Accepted Manuscript (AAM) version arising from this submission.

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OPEN ACCESS : DUTIES AND OBLIGATIONS FOR RESEARCHERS

Plan S & cOAlition S

All scholarly publications on the results from research funded by public or private grants provided by national, regional and international research councils and funding bodies, must be published in Open Access.

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- Gold OA (non excessive APC financed) or Green OA via the institutional repository FOLIA
- Metadata openly available, with embargo applied to the full text where applicable

Swiss National Science Foundation

- Green OA (Pre- & Post-prints)
- Gold OA (non excessive APC financed)
- Hybrid publications not funded
- Books : freely available within 12 months
- CC BY License mandatory

European Commission

- Green OA within 6 months (12 months for social sciences & humanities)
- Gold & Hybrid OA with deposit in a repository
- CC Licenses and unique identifiers recommended

SNSF GOLD OA FUNDING

- Articles (APC) and Book Chapters (BCPC)
  - Publication related to an SNSF project
  - Amount covered: 100% [2027: APC max. CHF 3'500]
  - Deposit invoice on https://snsf.chronoshub.io
  - Journals: listed on www.doaj.org, no special issues, no embargo, license CC BY https://www.snf.ch/en/ozKDc97zu0ZBwCfJ/funding/open-access-article-publications
  - Book chapters : the whole book must be published in Open Access https://www.snf.ch/en/Gc965aD10MCUHTn3/funding/open-access-book-chapters

Swiss National Science Foundation

- Books (BPC)
  - Amount covered: CHF 15'000 - 35'000 [2027 : CHF 12'000]
  - No relation to an SNSF project needed but Peer Review [2027: only related to an SNSF project]
    - PhD thesis of any Swiss university
    - Authors of other works: at least 50% position at a Swiss university
  - No submission deadline, but Open Access within 6 months after grant release, with PDF available for download from the publisher's website
  - https://www.snf.ch/en/uFmFFmMJGrnt1t49/funding/open-access-book-publications

➢ Consult regulations before signing the publication contract!

UNIFR GOLD OA FUNDING

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- Subsidiary Fund
- Reimbursement Fund
  - Request submission after the invoice has been paid
  - Submission deadlines: 31 March, 30 June, 30 September, 31 December
- Articles (APC), Book Chapters (BCPC), Books (BPC)
  - Researchers: 50% up to CHF 1000
  - PhD Students: 100% up to CHF 2000
  - Same criteria as SNSF
  - https://www.unifr.ch/researcher/en/openscience/open-access/oa-fund

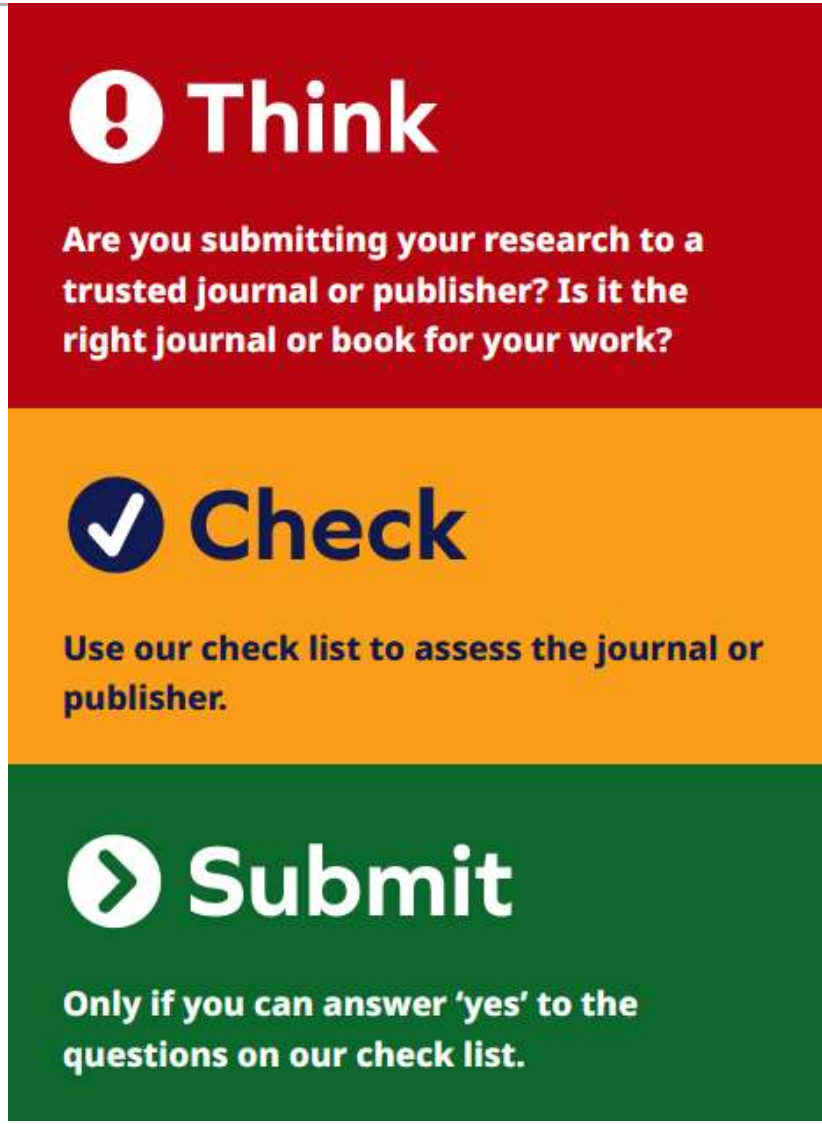
IS OA TOO CONFUSING FOR YOU? – USE PAPAGO!

- Personal Open Access Assistant
- Contextual information concerning
  - Your situation
  - Your obligations
  - Your funding opportunities
  - Your rights
- Integration of Open Policy Finder (former Sherpa/Romeo)
- Integration of institutional agreements with publishers
- www.unifr.ch/openaccess → Papago

HOW TO IDENTIFY PREDATORY JOURNALS?

- Misleading name
- Acceptance without control
- Misleading information about the editorial board and impact factor
- Aggressive solicitation campaigns
- No services
- APC notification after acceptation
- Fake ISSN, missing or inactive DOI …
- Possible White list: www.doaj.org
- help : https://thinkchecksubmit.org





UNIQUE IDENTIFIERS FOR RESEARCHERS

- Disambiguation of author names
- Machine readable
- Identification of “minor” contributions



- ORCID = Open Researcher and Contributor ID
  www.orcid.org
  - Non for profit organization
  - URI (p.ex. http://orcid.org/0000-0001-5882-6823)
  - Interface to link researchers, publishers, search tools, IDs, Institutions
  - Integration at UNIFR: https://www.unifr.ch/researcher/fr/open-science/orcid

DOI (DIGITAL OBJECT IDENTIFIER)

- Unique identifier for electronic publications
- Format : URL https://doi.org/10.51363/unifr.lth.2023.013
- Metadata (citation, license, funding, bibliography)
- A registered DOI cannot be deleted
- It always points to a public web page
- Procedure
  - Request a DOI from openaccess@unifr.ch
  - Include the DOI in the PDF
  - Submit the PDF via FOLIA
  - Notification from openaccess@unifr.ch regarding the submission
- DOIs from UNIFR are registered with CrossRef www.crossref.org

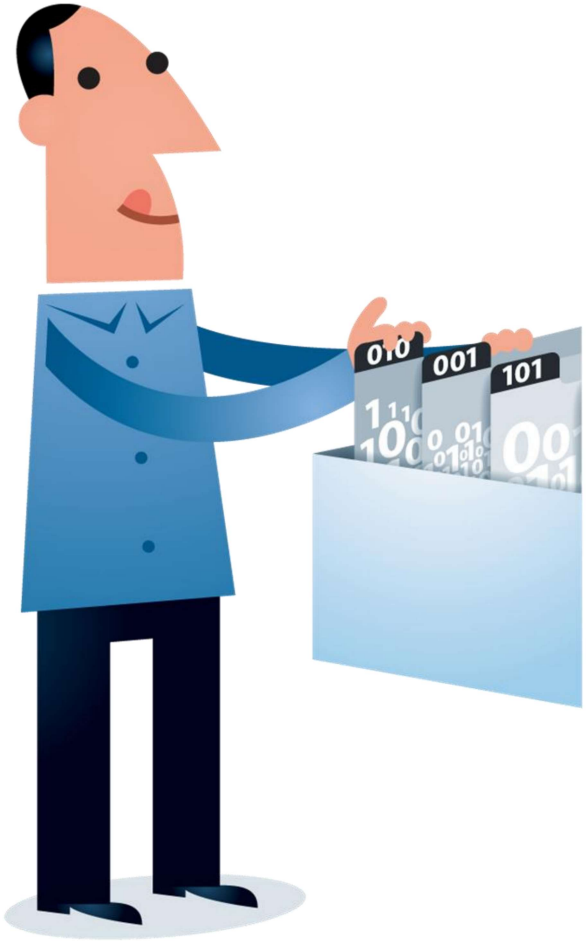


Crossref

OPEN RESEARCH DATA (ORD)

Research data consists of all information that is collected with a scientific purpose

- Examples : audio or video records, laboratory or field notes, survey questionnaires and interview transcripts, code, pictures, list of references, etc.
- Open Access for research data
- Transparency and reproducibility
- Increased visibility for researchers
- Data reuse
- Drafting a Data Management Plan (DMP) from the beginning of data collection
  - Attribution of copyright
  - FAIR Principles



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➢ UNIFR: (Open) Research Data

➢ Data Stewards @ EDUFORM and Psychology (EDUPSY) : data-edupsy@unifr.ch

OPEN RESEARCH DATA

FAIR Principes

- Findable
- Accessible
- Interoperable
- Reusable

https://www.go-fair.org

https://dmlawtool.ccdigitallaw.ch

Three conditions for application of Swiss Copyright Law for data

- Created by a human being
- Perceptible by the senses
- Original

- If the data does not meet these 3 conditions, it belongs to public domain !



WHICH DATA REPOSITORIES CAN BE USED ?

- Funder compliance
  - SNSF Recommended repositories
  - Horizon Europe requirements

- Registry of Research Data Repositories

Comprehensive global registry of research data repositories

https://www.re3data.org/

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

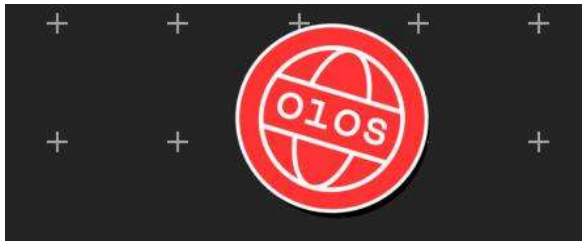
- Different types of Data Repositories

zenodo

Generalist data repository
For publications and datasets
http://www.zenodo.org

SWISSUbase

Discipline-specific repository
For Social sciences and Linguistics
https://www.swissubase.ch



Generalist data repository
Swiss-based data management portal
https://olos.swiss

ARCHIVING ON OLOS

- www.olos.swiss
- FAIR certified OAIS data repository
- UNIFR: funding member of OLOS
- Support during the data submission by UNIFR

Data Stewards

- File type check during submission process
- Multilevel access control for sensitive data
- Deposit in a folder inside an existing or newly created thematic space
- Costs & Funding
  - CHF 1200/50GB (unlimited preservation duration)
  - Funding: SNSF or Coordination Office of documentation centers or DIT
- https://www.unifr.ch/research/en/openscience/open-research-data/olos.html

OPEN EDUCATIONAL RESOURCES (OER)



Teaching and learning materials in any medium available under an open license allowing the 5R activities.

The 5R Permissions of OER

RETAIN
Make and own copies

REUSE
Use in a wide range of ways

REVISE
Adapt, modify, and improve

REMIX
Combine two or more

REDISTRIBUTE
Share with others

Why promoting and using OER ?

- Independent and lifelong learning materials
- Save teachers time by allowing them to adapt and recompile existing high-quality materials
- Increase the visibility of innovative approaches
- Strengthening the University's reputation

Where to find ?

- https://oer-repository.switch.ch/edu-sharing
- https://oercommons.org
- https://oer-schweiz.ch/

SWISS COPYRIGHT LAW - PUBLICATIONS

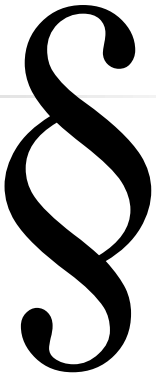


- Any publication is automatically protected by copyright law
- Two different aspects
  - Paternity: right to be named as author → non-transferable
  - Economic rights: authorization to distribute copies of the publication → transferable

Swiss Copyright Law

- The author has the exclusive right to decide whether, how and when their work is used (Art. 10 CopA)
- However, there are some **exceptions** for (Art. 19 CopA):
  - private use in the personal sphere or in a private circle
  - **educational purposes**
  - copying of a work in enterprises/institutions
- More information: https://ccdigitallaw.ch

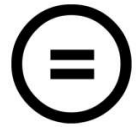
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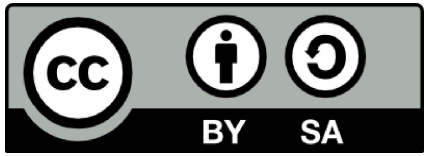
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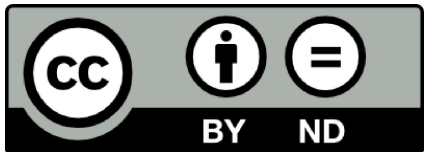
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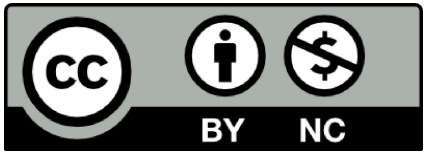
CREATIVE COMMONS – PRINCIPLES

- Comprehensive assignment of rights
- 4 Elements
  - Minimum  BY (Attribution)
  - Restrictions  SA (Share Alike)  NC (No Commercial)  ND (No Derivatives)
- 6 Licenses











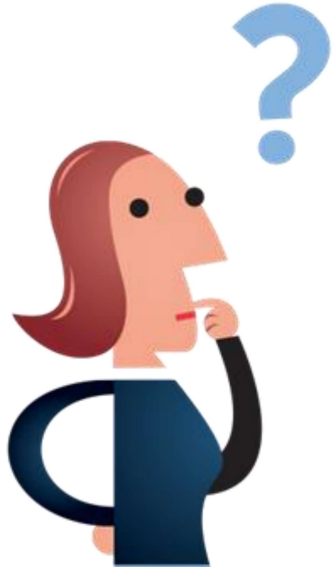


OPEN SCIENCE RESOURCES & SUPPORT SERVICES

OPEN ACCESS

- Advices on CC Licenses, DOI attribution, OA publications and fundings
- Contact : openaccess@unifr.ch

OPEN RESEARCH DATA



Data Stewards (Education & Psychology)

- DMP review, advices on long term archiving, OLOS
- Contact : data-edupsy@unifr.ch

Scientific IT (DIT-ER)

- Storage & back up, research management tools, personal and/or sensitive data handling
- Infos : https://www.unifr.ch/it/fr/recherche-and-it-scientifique

Data Protection Officers (DPOs)

- Best practices, legal compliance, legal support for research involving human subjects, contracts
- Infos et contact : https://unifr.ch/go/dpo / dpo@unifr.ch

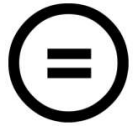
DISCUSSION



CHEAT SHEET : SWISS COPYRIGHT LAW & CREATIVE COMMONS

- Any work is protected by copyright law, which permits reading only
- The author has the exclusive right to decide whether, how and when their work is used.
  - There are some exceptions for private use in the personal sphere or in a private circle, educational purposes, copying of a work in enterprises/institutions
- CC licences give creators more control by specifying how others may share and reuse their work. 6 license options are available, combining CC BY attribution with different restrictions.

Minimum  BY (Attribution)

Restrictions  SA (Share Alike)  NC (No Commercial)  ND (No Derivatives)

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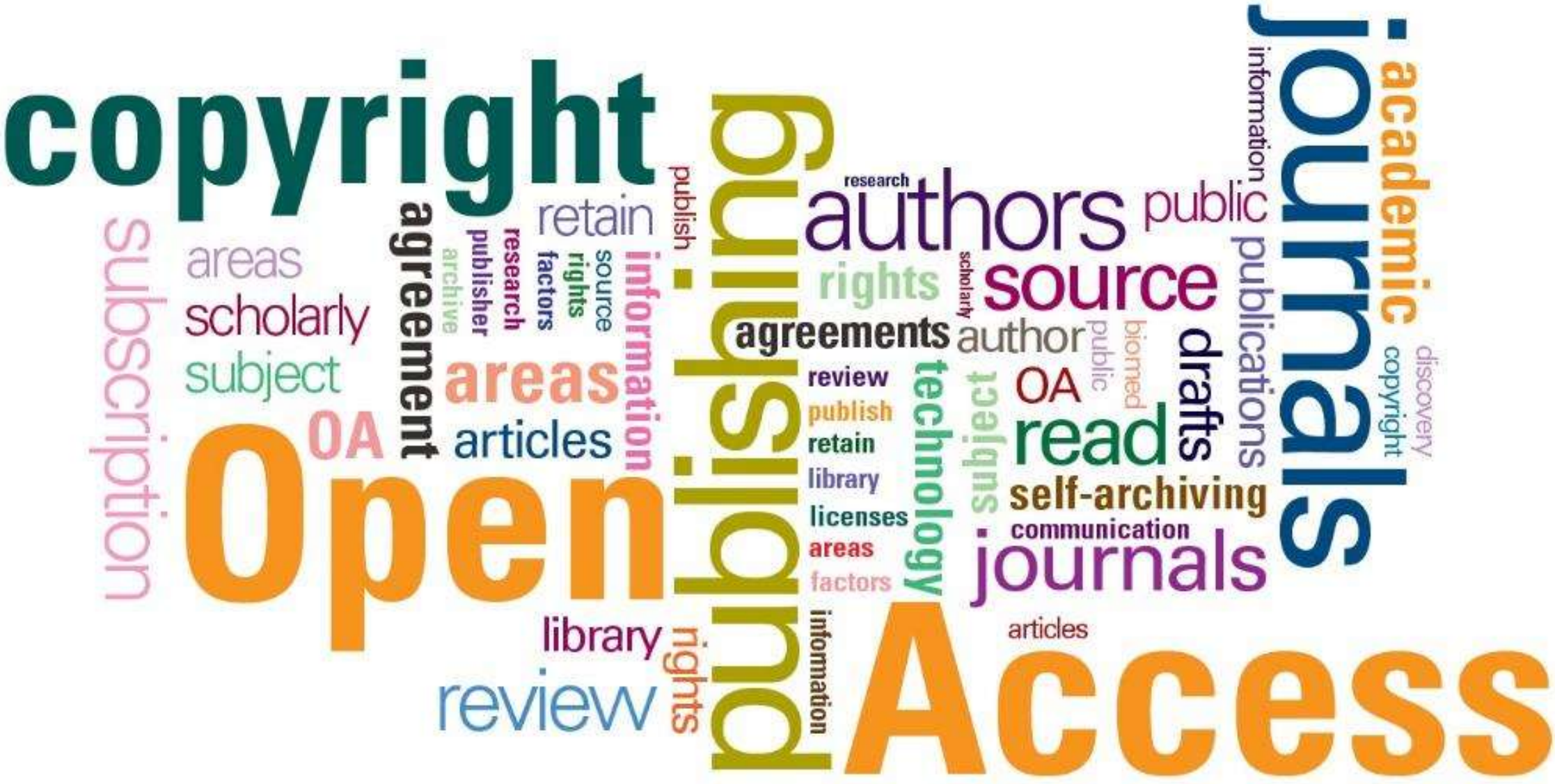
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	A graph/ image under the license "CC BY" that allows me to distribute & to remix even commercially, as long as I credit the author	Under CC license AND Educational purpose	Under CC license AND Educational purpose	Under CC license	Under CC license
	A graph/ image published online by an author on his website or personal profile on social networks	Educational purpose	Educational purpose	Ask the author OR Redo the graph/ image	Ask the author OR Redo the graph/ image
	A graph/ image published by an author in a journal	Educational purpose	Educational purpose	Ask the publisher + the author OR Redo the graph/ image	Ask the publisher + the author OR Redo the graph/ image
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