



Open Science

Open

WHAT ARE WE TALKING ABOUT?

SPARC.ORG

"dissemination of results of research is an essential, inseparable component of the research process"

Wikipedia

Open science is the movement to make scientific research, data and dissemination accessible to all levels of an inquiring society, amateur or professional.

No secret science



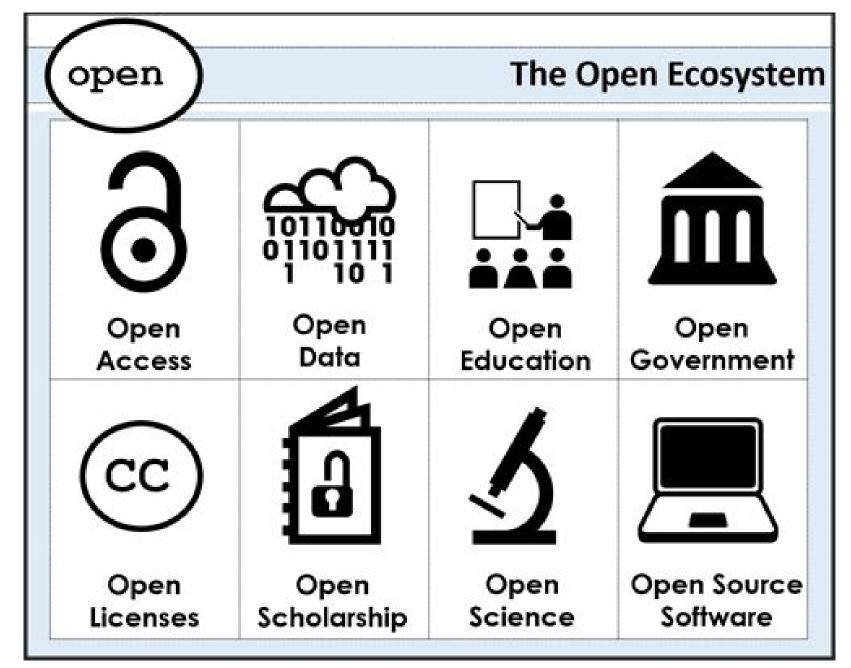
http://www.flickr.com/photos/wakingtiger/3157622608/

Opendefinition.org

"Open means anyone can freely access, use, modify, and share for any purpose (subject, at most, to requirements that preserve provenance and openness)."

CONTEXT





Source: clobridge consulting clobridgeconsulting.com

RRI

Responsible Research & Innovation (science with and for society)



ETHICS Research integrity



GENDER EQUALITY
Human resources
and research
dimension



GOVERNANCE Structural change to include in the R&I system all these issues



OPEN
ACCESS
To results from
publicly funded
research, privacy
issues...



PUBLIC ENGAGEMENT Towards a more open and inclusive R&I



SCIENCE EDUCATION Providing competences for the responsible citizens society needs

Source: presentation RRI-tools @ Open Belgium Antwerp, Feb. 29th, 2016 (http://www.slideshare.net/OpenKnowledgeBE/openaire-sessions-open-science-as-part-of-responsible-research)

Science for everyone to use

"I do not belong to the academic world, but I would like to do research all the same." Julian, passionate about sciences and new technologies #DIYBio #hackerspace #Openlab

Source: Hack your PHD http://hackyourphd.org/en/flyers/

Sounds familiar?

OPEN ACCESS TO PUBLICATIONS

What?

- Worldwide electronic dissemination
- Of (peer-reviewed) research results
- Free to use, free of restrictions (still referring to source)

How?

- "self archiving": The scientist archives a
 publication in an openly available repository.
 This is also known as "green road to open
 access".
- Publish in an Open Access Journal, a freely available electronic journal. This is also known as "gold road to open access".
- "Hybrid": pay APC to open an article in a subscription journal

Green OA

- = Self archiving
- In an open repository / open archive
 - Institutional / disciplinary: always scholarly
 - Interoperable, open standards and protocols
- Deposit a version of your publication and open
- Add links, eg project info, data sets

Check policy publisher: Sherpa Romeo (http://www.sherpa.ac.uk/romeo/index.php)

ResearchGate, Mendeley, Academia.eu ...

are <u>not</u> repositories

Repository UGent: Biblio



Projects

Add publications | Statistics | Marked list 0 | Saved searches 0 Recently added distance stratification model to assist shared

A sitemap listing all records is available at https://biblio.ugent.be/siteindex.xml. The sitemap can be used as a lightweight method to harvest all records.

OAI harvesting service

A OAI-PMH based service is available to completely or partially harvest publications.

protocol OAI-PMH version 2.0

documentation http://www.openarchives.org/OAI/openarchivesprotocol.html →

base url https://biblio.ugent.be/oai

this repository:

be/oai?verb=Identify

pported by this repository:

be/oai?verb=ListMetadataFormats

be/oai?verb=ListRecords&metadataPrefix=oai_dc

:h of records based on a resumption Token (found in the output of the previous

be/oai?verb=ListRecords&resumptionToken=!!!oai dc!100

ML-focused search protocol for Internet search queries, utilizing CQL (Contextual standard syntax for representing queries.

tocol SRU

ation http://www.loc.gov/standards/sru/sru1-1archive

se url https://biblio.ugent.be/sru



EASY WAY TO MAKE YOURSELF UNIQUE IN YOUR FIELD

Embedding into external pages

RSS news feeds

Twitter

Data dumps

Exports

Search API

unAPI discovery service

Sitemap

OAI harvesting service

SRU search service

CQL

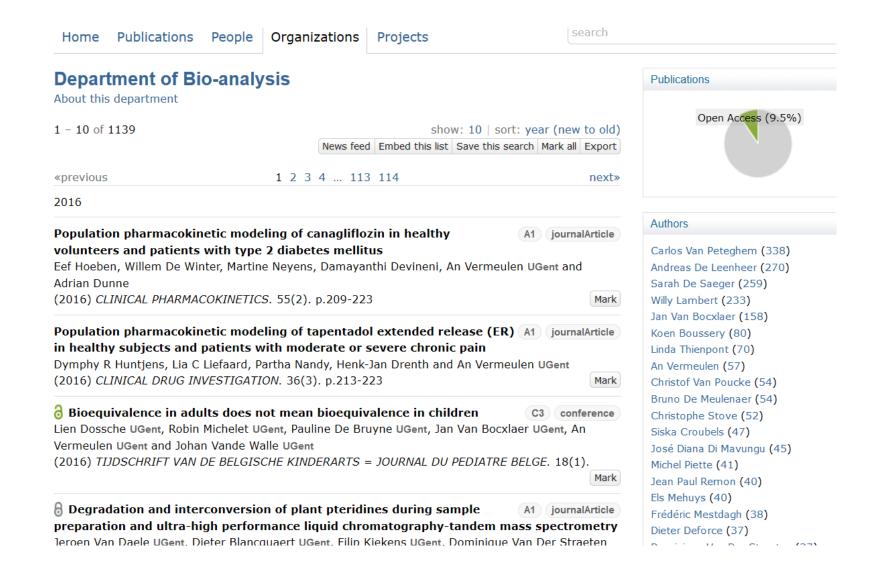
Welcome to the (publications by UG

SE

Publications added ev

15000

https://biblio.ugent.be/organization/FW03



Gold OA

Immediate open access at the source: the journal

Criteria:

- Open to the user
- Open licences
- Machine readable

Open Access Journals

How to assess the quality? Are article processing charges in place? Some tips

- Positive list of Open Access journals: http://DOAJ.org
- Is the journal member of Open Access Scholarly Publishers Association (http://oaspa.org/)
- Negative list of predatory journals (Beall's): http://scholarlyoa.com/
- More tips: http://thinkchecksubmit.org/check/

GOLD <> APC

Alternative publishing models

Crowd funding:

Open Library of Humanities

Membership journal:

PeerJ

Freemium: Basic free, services paid

Open Edition

Overlay journals

Eg

https://gowers.wordpress.com/2015/09/10/discrete-analysis-an-arxiv-overlay-journal/

Manage OA journal

Open Journal System http://OJS.UGent.be

Platform for open access journals with a strong Ghent University connection Technical support library staff
Administrative workflow available

Eg:

- Authorship
- Documenta

UGent Open Access journals

HOME ABOUT LOGIN REGISTER SEARCH

Home > UGent Open Access journals

UGent Open Access journals

Silva Gandavensis

Silva Gandavensis (Sylva Gandavensis until 1979) was published irregularly between 1967 and 2001. The journal published articles on forestry, forest policy, forest research and other forest-related subjects. It was sent to scientific institutions and libraries in exchange for their own publications. Silva Gandavensis was published by the Laboratory of Forestry of Ghent University, which was formerly called the Research centre for silviculture, management and forest policy (1970-1990) or the department of silviculture (1967-1969).

All volumes (1 to 66), published between 1967 and 2001, were digitized. They are listed under 'Archives'. Articles can be searched for based on author, keywords etc. via 'Search'.

VIEW JOURNAL | CURRENT ISSUE | REGISTER

Authorship

VIEW JOURNAL | CURRENT ISSUE | REGISTER

International Journal Sustainable Construction & Design

Sustainable Construction & Design

VIEW JOURNAL | CURRENT ISSUE | REGISTER

Rullatiin dar Maatschannii van geschied- en

Financing APC

- H2020 and FP7: eligible cost, during project
- FP7 post grant open access fund: APC can be paid by OpenAIRE within 2 years after end of FP7 project

more info:

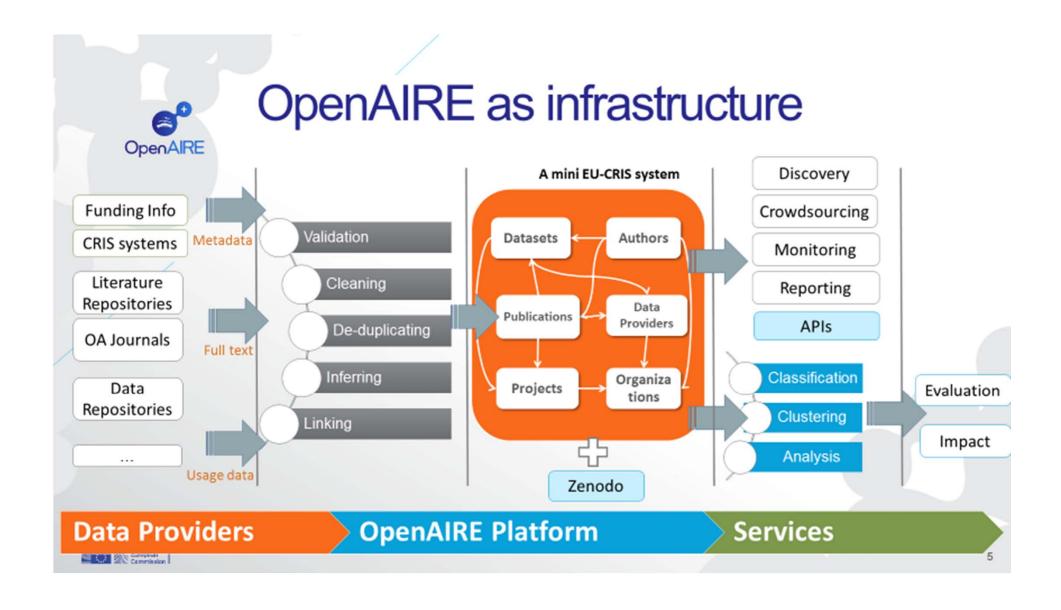
https://www.openaire.eu/postgrantoapilot

- Most other funders allow APC as eligible cost

INFRASTRUCTURE

Infrastructure

- Repositories: http://re3data.org
- Open access journals: http://DOAJ.org
- Services: eg http://OpenAIRE.eu



CHALLENGE: COPYRIGHT

Belgian law

Boek XI Wetboek Economisch recht, Titel 5 'Auteursrecht'

Work of literature or art

E.g. novel, piece of music, photo, painting, book, article (a bare fact is not protected, a database is protected by database law)

Criteria:

- Certain perceptible form (an IDEA is not protected, only the specific form)
- ORIGINAL: personal stamp of the author after an intellectual endeavor (artistic value is of no importance)
- Created by a human being, not purely by a machine

Rights holder vs. author

- Author = natural person (not a legal person)
- But transfer of rights is possible
- Co-authors should have a creative / personal contribution

Exploitation rights can be transferred or licenced

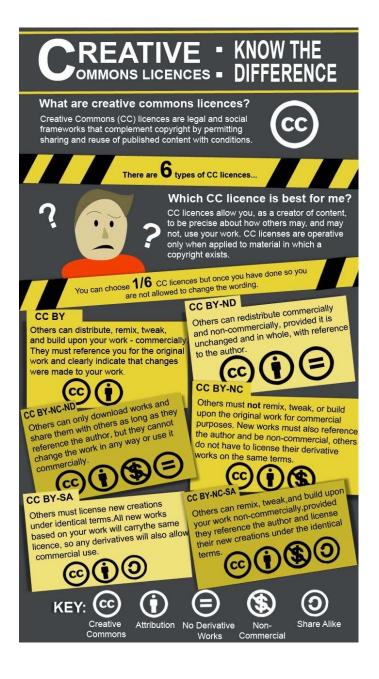
Moral rights cannot be transferred, but can be waived

Retain your CR

How to share without every user knocking your door? Up front licences

Machine readable
Creative commons (CR protected)
GPL (software)
Apache (software)
ODC (database) / BSD (software)

See http://opensource.org/licenses
http://www.dcc.ac.uk/resources/how-guides/license-research-data



Licence to publish:

http://copyrighttoolbox.surf.nl/copyrighttoolbox/authors/licence/

Reference to publisher version:

https://biblio.ugent.be/downloads/word-template.doc

UGent

POLICIES

ID/OA mandate UGent since 2010

- Mandate immediate deposit of full text
- Optional open access (if allowed)
- Final peer reviewed manuscript
- Upon publication
- Access to all publications in the UGent network, partially outside

=> http://biblio.ugent.be (green way)

Gold OA

- Memberships
 - BiomedCentral: 15% discount
 - SCOAP3
 - arXiv
- OJS: technical support UGent OA journals http://ojs.ugent.be

Belgium

POLICIES

General

- Most Belgian universities have a ID/OA mandate
- Most have a repository

 Flemish, Walloon and Belgian government have signed Brussels declaration (esp support green)

VLIR

- Open Science working group
- Up to now: emphasis on green road

- ⇒FRIS portaal
- ⇒ OpenAIRE

FWO

Art. 2, § 2 Following the Berlin Declaration of 2003 for the promotion of free access to scientific knowledge and cultural heritage, beneficiaries of FWO mandates, credits and projects must deposit the publications that result from the FWO subsidies in a **public "Open** Access" database, within one year from the date of publication, in order to effect greater impact and valorisation of their work. Researchers are also advised to publish their other publications in such an "Open Access" database, the so-called "Open Archives", together with the research data that resulted in these publications.

Mandated:

Open repository

Embrago permitted: one year after publication

Advised:

other publications
Related research data

http://www.fwo.be/en/general-regulations/

H2020

POLICIES

OA policy in H2020

Mandate for publications

- Each beneficiary will be asked to ensure OA to all peer-reviewed scientific publications relating to its results:
 - Deposit a machine-readable copy of the published version or final peer-reviewed manuscript
 accepted for publication in a repository
 - "Aim to deposit" at the same time the research data needed to validate the results
 - Ensure OA on publication or at the latest within 6/12 months
 - Ensure OA to the bibliographic metadata that identify the deposited publication, via the repository
- Both routes will be valid and complementary
- Encouragement to authors to retain their copyright and grant adequate licences to publishers

OA policy in H2020

Pilot for Data

- A limited pilot will ensure OA to some data, on a voluntary basis and with opt-out safeguards
- Beneficiaries will accept to:
 - deposit in an open access repository:
 - the data, including associated metadata, needed to validate the results presented in scientific publications as soon as possible;
 - other data, including associated metadata, as specified and within the deadlines laid down in the data management plan;
 - provide information, via the repository, about tools and instruments at the disposal
 of the beneficiaries and necessary for validating the results (where possible, provide
 the tools and instruments).

• (i) required to deposit the research data, preferably in a research data repository and (ii), as far as possible, take measures to enable third parties to access, mine, exploit, reproduce and disseminate this research data.

 At the same time, projects should provide information about tools and instruments at the disposal of the beneficiaries and necessary for validating the results, for instance specialised software or software code.

Opt out

Eg. conflict with obligation to protect results, with confidentiality obligations, with security obligations or with rules on protection of personal data or action's main objective be jeopardised by making specific parts of the research data openly accessible

 Costs relating to the implementation of the pilot will be reimbursed.



LOSS OF DATA

Biblio



ISSN 0277-3791

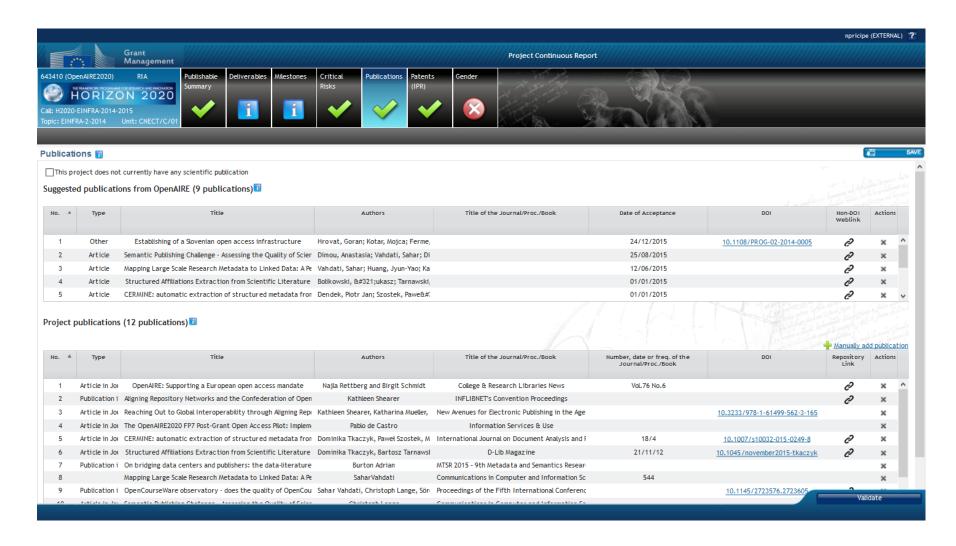
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Cordis





EC's participant portal (SygMa)



See

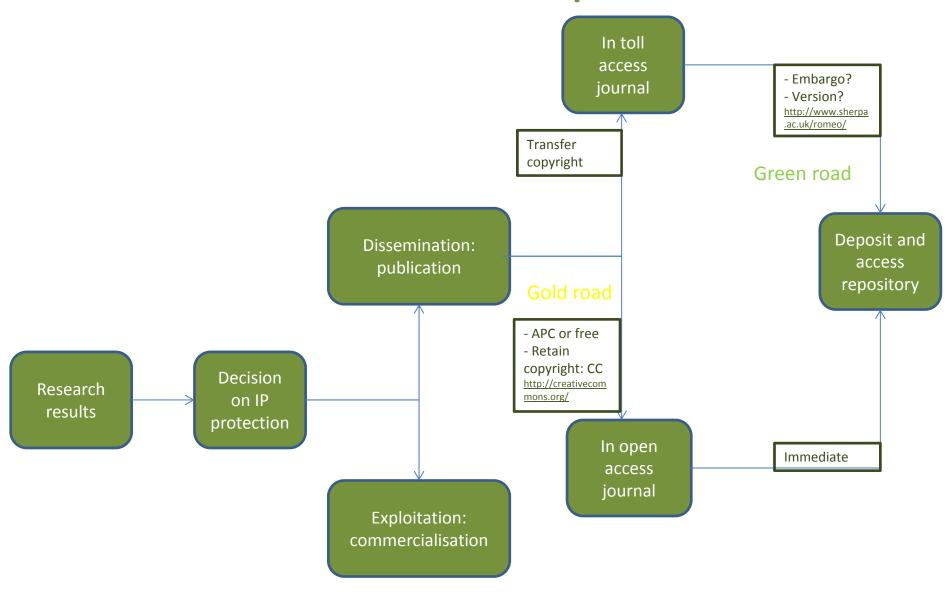
https://www.iprhelpdesk.eu/sites/default/files/newsdocuments/Open Access in H2020.pdf
for FAQ on Open Access to publications and data in H2020

Support: http://openaire.eu, contact National Open Access Desk Belgium @ Ghent University

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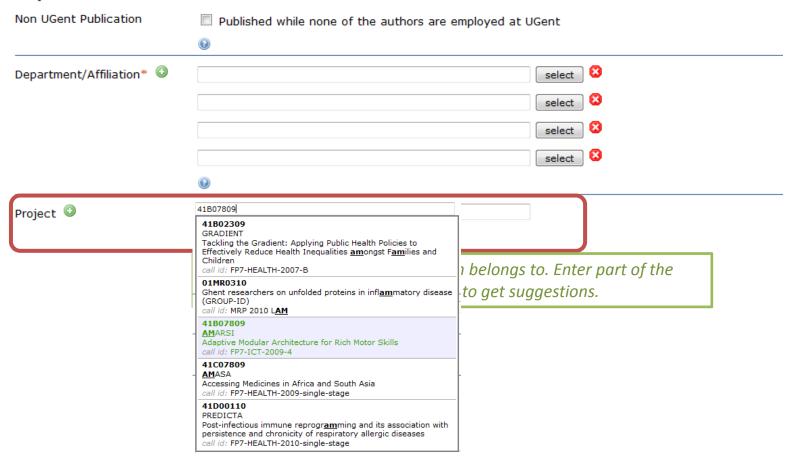
WHAT SHOULD YOU DO?

Publish & deposit



Upload in Biblio

Department



Upload in Biblio

Upload document

– File* –	
Upload file (max. 200MB):	
Bladeren Geen bestand geselecteerd.	
O Upload from internet location (max. 200MB):	
Filename for new file:	
– Kind of file*	
full text ▼	
SHERPA check publisher self-archiving policy with Romeo	
Open access (the file is freely available, effective immediately)	
Only in UGent Network	
Only Author/Reviewer/Administrator	
☐ Switch automatically to open access → on this day (YYYY-MM-DD):	
Submit Cancel	





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