

Open science and information literacy as an incentive for the democratic development of society

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University Library at a New Stage of Social Communications Development: The Era of Library Transformations and the New Ecology of Life

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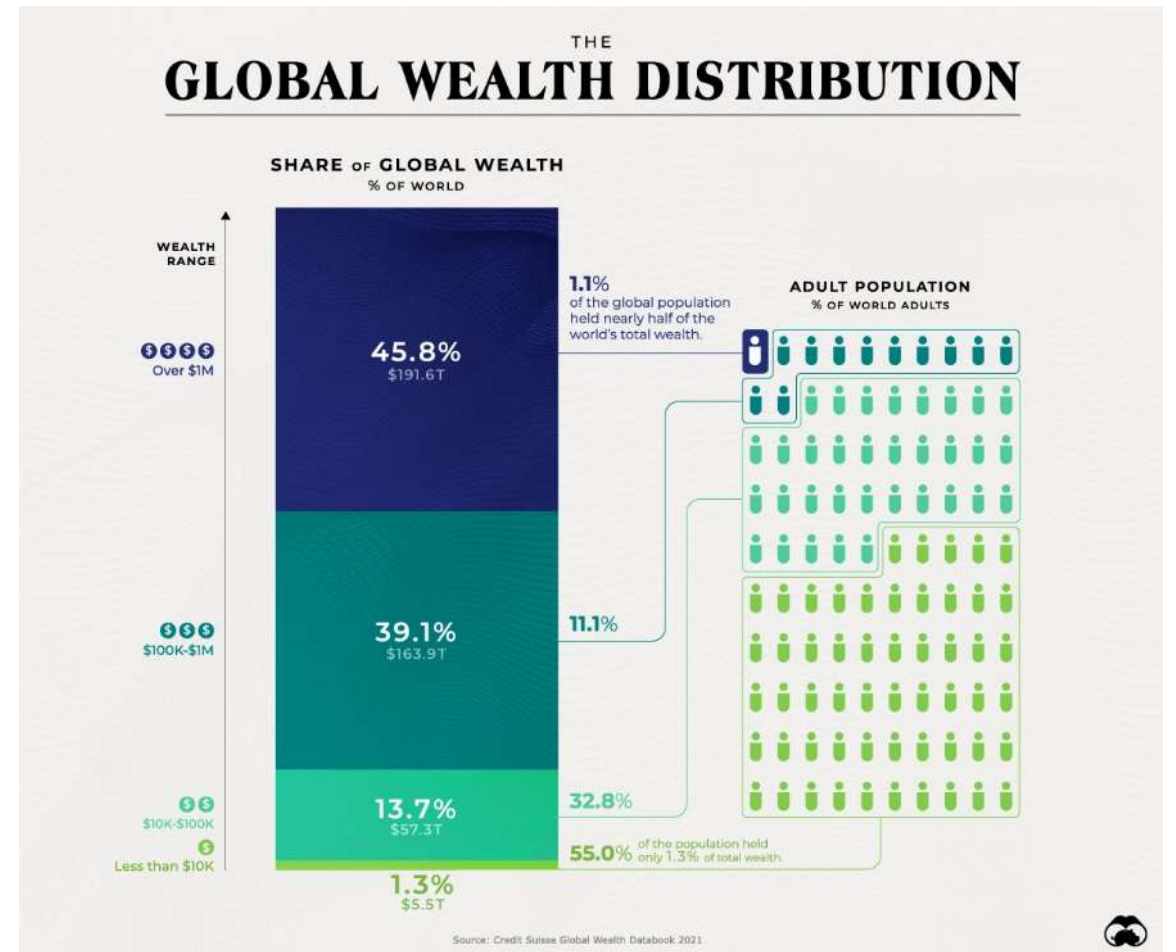
The World We Live In

We live in a world of significant differences between different social environments.

The economic crisis at the beginning of the millennium and the COVID epidemic showed how vulnerable the global community really is.

The war in Ukraine shows the complete rigidity and impotence of decision-makers in solving political and economic dilemmas for the benefit of the community.

After all the disasters of the 21st century, society will need a comprehensive consideration and strengthening of democratic decision-making processes.



Reference: <https://www.visualcapitalist.com/distribution-of-global-wealth-chart/>

Democracy and Information Literacy

Democracy is supposed to represent one of the highest values in the modern community.

Democracy is based on respect for the law, mutual respect, respect for differences, respect for human rights and - **on credible and true information.**

An interesting phenomenon: the development of IT technology and digital literacy is relatively inversely correlated with information literacy.

In the jungle of data and information in the digital environment and in the name of freedom of speech, we can often come across false or half-true information. How to respond?



Reference: <https://medium.com/illumination/visiting-the-problem-of-stupidity-in-democracy-14d87ae7e828>

Science in the Digital Environment

COVID has shown a huge gap in trust between academia and the wider community.

Many cultural changes are needed in scientific research work.

Competitive science vs. collaborative science.

Necessary changes in the method of funding research work.

Necessary changes in the assessment system of scientific work.

Necessary integration of the local community with research institutions.



Reference: <https://www.tcs.com/perspectives/articles/the-digital-revolution-of-life-sciences-companies>

What Can Academic Libraries Do?

Promotion of qualitative systems of assessment of scientific work.

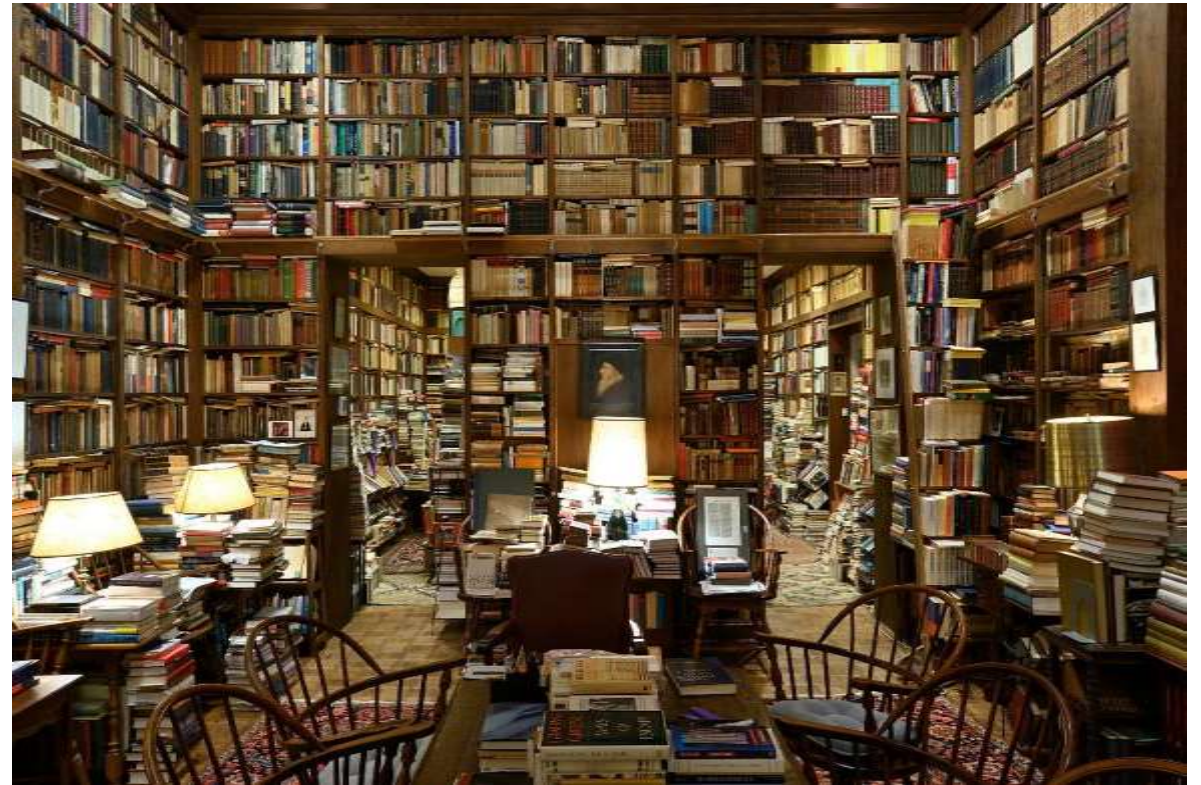
Providing the infrastructure to implement open science practices.

Promotion of open publications.

Encouragement and support in Responsible Research Data Management.

Encouraging and supporting "early and open" sharing of research.

Citizen Science.



Reference: <https://www.nytimes.com/2022/01/15/style/richard-macksey-library.html>

Assessment of Scientific Work

The evaluation should be based on the actual quality of the work itself and not on the platform of publication (e.g. on the IF of the journal).

DORA Declaration

<https://sfdora.org/read/read-the-declaration-українська>

The Leiden Manifesto

<http://www.leidenmanifesto.org/>

The Agreement on Reforming Research Assessment

<https://www.scienceeurope.org/news/rra-agreement-final/>



Reference: <https://www.nature.com/articles/d41586-018-02404-4>

Lutsk National Technical University (LNTU)	Ukraine
NGO Growth Pole	Ukraine
NGO Innovative University	Ukraine
Young Scientists Council at the Ministry of Education and Science in Ukraine	Ukraine

Сан-Франциська декларація про оцінку наукових досліджень

Методи, які фонди, академічні установи та інші інституції використовують для оцінки результатів наукових досліджень, потребують вдосконалення. Редактори та видавці наукових журналів, які зібралися 16 грудня 2012 року під час щорічної зустрічі Американського товариства біології клітин (The American Society for Cell Biology – ASCB) у Сан-Франциско, створили набір рекомендацій, які отримали назву Сан-Франциська декларація про оцінку наукових досліджень. Закликаємо усі зацікавлені сторони з усіх наукових дисциплін заявити про свою підтримку цієї Декларації, шляхом її підписання.

Результати наукових досліджень численні і різноманітні: наукові статті, які інформують про нові знання, дані, реагенти та програмне забезпечення; інтелектуальна власність; молоді висококваліфіковані вчені. Установи, що фінансують дослідження, установи, в яких працюють вчені, та самі вчені мають спільні інтереси та потреби в оцінюванні якості та значущості результатів наукових досліджень. Тому потрібно, щоб наукові результати вимірювались та оцінювались об'єктивно і справедливо.

Імпакт-фактор журналу часто використовується в якості основного критерію, за допомогою якого порівнюють наукові результати окремих вчених та установ. Імпакт-фактор журналу, який розраховується Thomson Reuters*, спершу був запропонований, як інструмент, що повинен допомогти бібліотекарям відібрати журнали для передплати, а не як мірило якості наукових досліджень, що описані в статті. У зв'язку з цим, важливо розуміти, що імпакт-фактор журналу, як інструмент оцінки досліджень, має ряд задокументованих недоліків, зокрема: А) розподіл цитувань у журналах вкрай спотворений [1-3], Б) властивості імпакт-фактора журналу залежать від наукової дисципліни: він поєднує кілька доволі

العربية

Bahasa Indonesia

中文

Català

Čeština

Српски

Deutsch

Eesti keel

English

Español

Ελληνικά

Français

हिन्दी

Italiano

Providing the Infrastructure to Implement Open Science Practices

Management of trusted repositories for open access to scientific works according to FAIR principles.

Information support for open science (information support for open publications, network of data stewards, data librarians, etc.)

Copyright Clearance Centers.

Transformative agreements with publishers, agreements with publishers of fully open journals.

Establishment, management and integration of university publishing houses.

Citizen Science Contact points.



Reference: <https://stangarfield.medium.com/repositories-and-knowledge-bases-13b78f8defa4>

Open Access to Open Publications

Key objective: Authors should retain the copyright!

The Green Way: A Rights Retention Strategy developed by cOAlition S.

Publications in fully open journals.

Sustainable and transparent APC pricing.

Publications on publishing platforms.



CC BY Denny Stiglmay & Sarah Brown

Reference: https://commons.wikimedia.org/wiki/File:Benefitsofopenaccess_cc-by_logo.pd_eng.jpg



Plan S

Making full & immediate
Open Access a reality

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Plan S

Making full and
immediate
Open Access a
reality

<https://www.coalition-s.org/>

About Plan S

Plan S is an initiative for Open Access publishing that was launched in September 2018. The plan is supported by cOAlition S, an international consortium of research funding and performing organisations. Plan S requires that, from 2021, scientific publications that result from research funded by public grants must be published in compliant Open Access journals or platforms.

[Read more](#)

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RESEARCH ARTICLE

AWAITING PEER REVIEW

Mobilefuge: A low-cost, portable, open source, 3D-printed centrifuge that can be powered by a mobile phone [version 1; peer review: awaiting peer review]

AUTHORS Mohini Bhupathi, Ganga Chinna Rao Devarapu

FUNDER Horizon 2020 Framework Programme

<https://open-research-europe.ec.europa.eu/browse>

PEER REVIEWERS Invited

PUBLISHED 22 Sep 2022

Responsible Research Data Management

RDM according to FAIR principles.

Open as much as possible, closed as necessary.

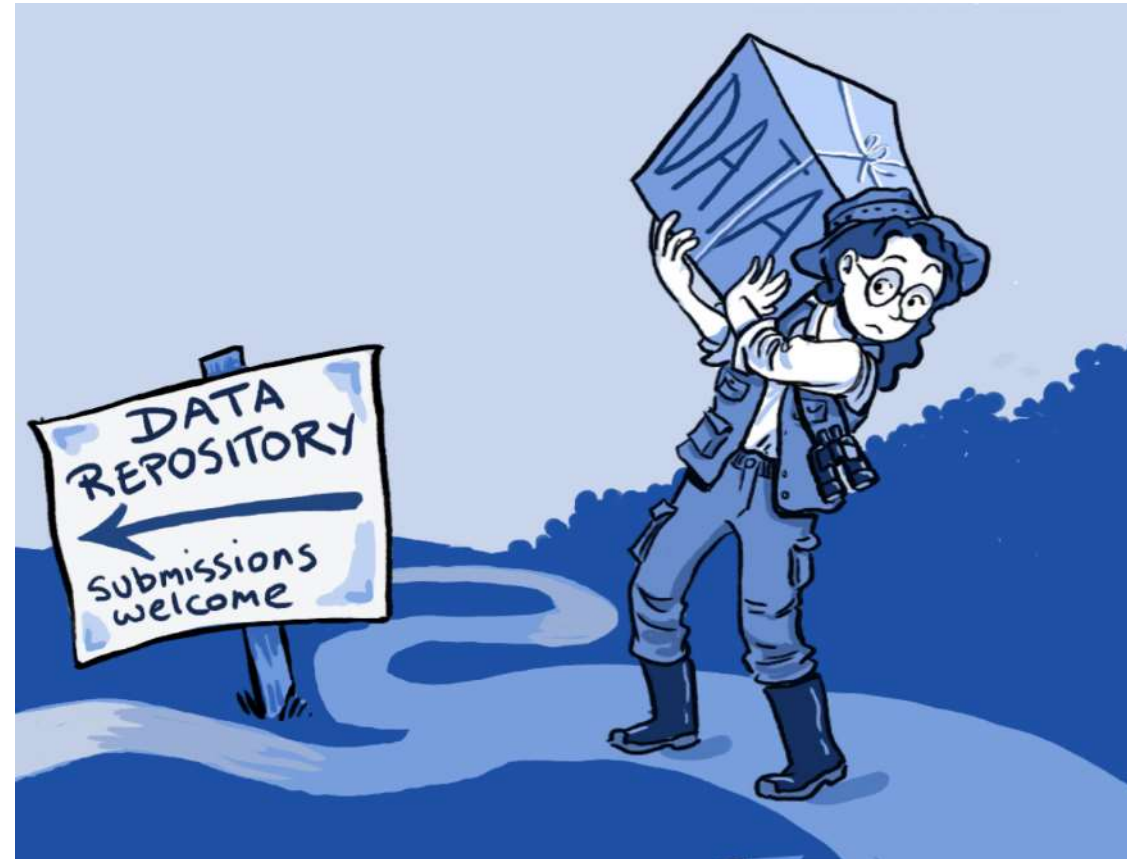
Importance of RDM policies at the institution level.

The importance of training for researchers and support staff.

New required competencies for RDM.

Management of trusted data repositories and use of existing ones
(<https://www.re3data.org/>).

Establishment of support centers at the institution level.



Reference: <https://www.openaire.eu/blogs/research-data-management-rdm-support-at-the-university-of-vienna>

DiRROS Data

DiRROS Data is an online service of the DiRROS Repository that provides researchers with information regarding research data management (RDM), both when publishing in the DiRROS Repository and when publishing and archiving scientific works in other repositories or on data sharing platforms. All questions can be answered by our information specialists, who can also offer help and support in the various steps of research data management.

Search the DiRROS Repository

Early and Open Sharing

Recommended OS practice in Horizon Europe.

Pre-registrations, registration reports.

Many benefits of „early and open sharing“:

- Increased visibility,
- International recognition,
- Early announcement of research,
- Peer-review research design.



Reference: <https://medium.com/@hanft/early-data-sharing-can-contain-pandemics-a-call-for-collaboration-7c8c97d01a70>

Citizen Science

Citizen Science as a bridge between academia and the wider community.

Academic libraries as Contact Centers for Citizen Science.

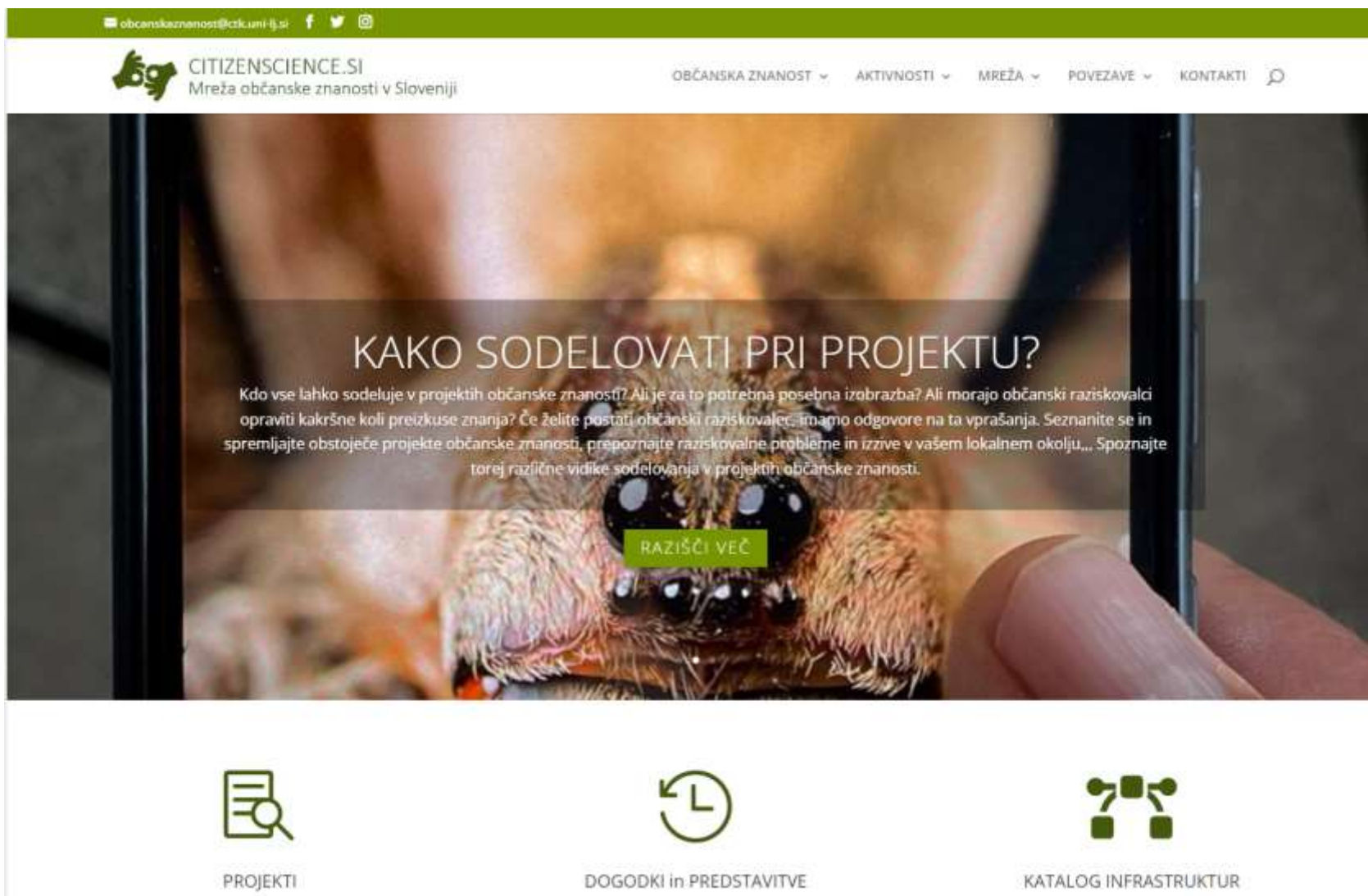
Connection with different stakeholders.

"Citizen Science does not make citizens better researchers but researchers better citizens.,, (Tiberius Ignat).



Reference: https://www.esa.int/ESA_Multimedia/Images/2022/05/Citizen_science

CTK as National Contact Point for Citizen Science



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CITIZENSCIENCE.SI
Mreža občanske znanosti v Sloveniji


OBČANSKA ZNANOST ▾ AKTIVNOSTI ▾ MREŽA ▾ POVEZAVE ▾ KONTAKTI 🔍


KAKO SODELOVATI PRI PROJEKTU?

Kdo vse lahko sodeluje v projektih občanske znanosti? Ali je za to potrebna posebna izobrazba? Ali morajo občanski raziskovalci opraviti kakršne koli preizkuse znanja? Če želite postati občanski raziskovalec, imamo odgovore na ta vprašanja. Seznanite se in spremljajte obstoječe projekte občanske znanosti, prepoznajte raziskovalne probleme in izzive v vašem lokalnem okolju... Spoznajte torej različne vidike sodelovanja v projektih občanske znanosti.

[RAZIŠČI VEČ](#)

 PROJEKTI

 DOGODKI in PREDSTAVITVE

 KATALOG INFRASTRUKTUR

National Contact Point for Citizen Science – basic principles

BESPOC (Broad Engagement in Science, Point of Contact) offers these services and activities:

- A platform to build and continuously update Citizen Science policies, to review projects and infrastructures and to connect all potential stakeholders.
- Sharing information and advocacy about Citizen Science activities.
- A collection of templates for Citizen Science activities (data sheets, protocols, training methods, checklists, reports, evaluation forms, etc.).
- Entry points and dissemination points for scholarly and layperson communications.
- A point of reference for scientists to show how to apply the Citizen Science concept in research work and to incorporate it into grant proposals.
- A gateway for the public to propose research projects.

Opinion Pieces

Built to last! Embedding open science principles and practice into European universities.

Authors: Tiberius Ignat , Paul Ayris

Abstract

The purpose of this article is to examine the cultural change needed by universities, as identified by LERU in its report *Open Science and its role in universities: a roadmap for cultural change*.¹ It begins by illustrating the nature of that cultural change. Linked to that transformation is a necessary management change to the way in which organizations perform research. Competition is not the only, or necessarily the best, way to conduct this transformation. Open science brings to the fore the values of collaboration and sharing. Building on a number of Focus on Open Science Workshops held over five years across Europe, the article identifies best practice in changing current research practices, which will then contribute to the culture change necessary to deliver open science. Four case studies, delivered at Focus on Open Science Workshops or other conferences in Europe, illustrate the advances that are being made: the findings of a Workshop on Collaboration and Competition at the OAI 11 meeting in Geneva in June 2019; alternative publishing platforms, exemplified by UCL Press; open data, FAIR data and reproducibility; and a Citizen Science Workshop held at the LIBER Conference in Dublin in June 2019.

Reference: Ignat, T. and Ayris, P., 2020. Built to last! Embedding open science principles and practice into European universities. *Insights*, 33(1), p.9. DOI: <http://doi.org/10.1629/uksg.501>

Implementing Scientific Excellence to Local Communities

Open Science raises the scientific excellence and visibility of academic institutions.

Connecting universities and other research organizations with the local community is also a promoter of scientific excellence, and it means sharing and implementing of knowledge in the local community.



Reference: University of Ljubljana <http://www.uni-lj.si>

Thank You!



Reference: STEP CHANGE: Wildlife conservation in Slovenia <https://eu-citizen.science/project/283>