COMPASS USEFUL RESOURCES SUPPORTING OPEN SCIENCE





Introduction

The COMPASS project represents a large-scale initiative aimed at promoting open science across Europe. As part of this project, we have compiled a comprehensive list of essential resources designed to support transparent and collaborative research practices. These resources, developed primarily by the European Commission as well as other European projects within the Ulysseus consortium, are intended to facilitate access to information, promote open access to scientific publications and research data, and encourage collaboration within the scientific community.

This article explores three main categories of resources: those developed by the European Commission, those stemming from Ulysseus consortium members' projects, and those originating from national and international initiatives supporting open science. By examining these resources, we aim to identify how they can help researchers maximize the impact of their work while meeting the requirements of European Unionfunded projects.

Useful Resources Developed by the European Commission

These resources provided by the European Commission are designed to help researchers adopt best practices in open science. They cover various aspects such as open access to publications, research data management, and collaborative creation tools. By utilizing these resources, researchers can not only comply with the requirements of EU-funded projects but also maximize the impact and visibility of their scientific work. The initiatives and tools presented below offer a solid foundation for integrating open science into daily research activities.

REA Open Science

A portal by the European Research Executive Agency providing comprehensive resources and guidelines on Open Science practices. It offers detailed information on policies, funding opportunities, and tools to promote Open Science in research.

Open Research Europe

The European Commission's open-access publishing platform for Horizon 2020 and Horizon Europe beneficiaries. It allows researchers to publish their findings in a transparent and accessible manner, promoting the dissemination of knowledge.

H2020 Funding Guide: Open Access & Data Management

Guidelines and requirements for data management and open access in Horizon 2020 projects. This resource helps researchers understand how to comply with Open Access policies and effectively manage their research data.

ORION Open Science: Menu of Creation Tools

A comprehensive toolkit for researchers to support the creation and implementation of Open Science initiatives. It includes practical tools and methods for engaging with Open Science and fostering collaboration.

Cos4Cloud

A project under the European Open Science Cloud (EOSC) offering services and resources to support citizen science. It provides technological solutions and best practices to integrate citizen science into the broader scientific community.

Publications Office of the European Union: Open Science

An official publication providing insights and guidelines on Open Science policies and practices within the EU. It serves as a key reference for researchers and policymakers on the latest developments in Open Science.

H2020 Funding Guide: Open Science Events

Information about events and training sessions focused on Open Science, organized by the European Commission. These events provide valuable opportunities for researchers to learn about Open Science and network with peers.

Useful resources developed by European Projects carried out by Ulysseus members

In addition to the resources from the European Commission, several European projects carried out by Ulysseus members have also developed valuable resources to support open science. These projects contribute to the advancement of open science by providing innovative tools, guidelines, and best practices tailored to specific research needs. The following resources highlight the collaborative efforts and achievements of Ulysseus members in promoting open science within the European research landscape.

OberRED Project

Call: Erasmus+ Key Action 2 - Cooperation Partnerships in Higher Education

Objectives: Its main objective is to establish an ecosystem of open badges for recognizing skills related to research data sharing. The project aims to promote transparency and accessibility of scientific data by facilitating the certification of essential skills for effective data sharing. Collaborating with European partners, OberRED seeks to strengthen open science practices and encourage international collaboration in research.

Partners:

Berlin School of Economics and Law (Germany), **Université Côte d'Azur** (France), WUSMED (World Union of the Sages of Medical Sciences), CNRS (Centre National de la

Recherche Scientifique – France, University of Napoli FEDERICO II, Instytut Badań Literackich Polskiej Akademii Nauk

Main outputs:

- Establishment of an open badges ecosystem: Development of an open badges framework to recognize skills related to research data sharing, promoting transparency and accessibility in scientific practices.
- Certification of essential skills: Facilitation of certification for key skills necessary for effective sharing of scientific data, thereby enhancing standards in open science.
- Enhancement of open science practices: Promotion of transparency and accessibility of scientific data practices across Europe, fostering more collaborative and inclusive research.
- Encouragement of international collaboration: Promotion of international collaboration among European partners, facilitating adoption and dissemination of best practices in open science.

MINERVA Project

Call: Erasmus+ Key Action 2 - Capacity Building in Higher Education

Objectives:

- Advance national and institutional guidelines, policies, and incentives for open science in Moldova and Armenia by January 2022.
- Establish digital repositories at all partner Higher Education Institutions (HEIs) in Moldova and Armenia, fostering their infrastructural development and interoperability by January 2021.
- Build human research capacities to ensure sustainable implementation of open science principles and enhance the social inclusiveness and accountability of publicly-funded research by January 2022.

Partners:

LEAD PARTNER: Academy of Economic Studies of Moldova (ASEM)

<u>EU PARTNERS:</u> The University of Liege, Università degli Studi Guglielmo Marconi (USGM), The Universitat de València, **Université Côte d'Azur**, Université de Montpellier (UM), European Policy Development and Research Institute (EPDRI)

MOLDOVAN PARTNERS: Nicolae Testemitanu State University of Medicine and Pharmacy (USMF), Technical University of Moldova (TUM), The National Council of Rectors of Moldova (NRCM), The Ministry of Education of the Republic of Moldova (ME)

<u>ARMENIAN PARTNERS:</u> Yerevan State Medical University named after M. Heratsi (YSMU), The Armenian State University of Economics (ASUE), Yerevan State University (YSU), Yerevan Brusov State University of Languages and Social Sciences, Ministry of Education and Science of the Republic of Armenia (MoES RA)

<u>ASSOCIATED PARTNER:</u> EIFL (Electronic Information for Libraries)

Main outputs:

• Advancement of national and institutional guidelines, policies, and incentives concerning research and Open Science in the Republic of Moldova and Armenia.

- Establishment of digital repositories at all partner HEIs, integrated into Open Science platforms in each country, to promote their infrastructural development and interoperability.
- Enhancement of human research capacities to ensure the sustainable implementation of Open Science principles and to improve the social inclusiveness and accountability of publicly-funded research.

OPTIMA Project

Call: Erasmus+ Key Action 2 - Capacity Building in Higher Education

Objectives:

1. Introduce Open Peer Review (OPR) platform for transparent research evaluation:

- -Develop an online platform for unbiased peer review of academic materials at Ukrainian academic conferences.
- -Engage early-career researchers from diverse scientific fields to ensure fair and transparent selection processes.
- -Implement OPR practices aligned with European standards to enhance academic integrity and transparency.
- 2. Build an international online virtual community:
- -Establish a virtual community within the National web platform to foster EU-Ukrainian cooperation in academia.
- -Promote internationalization of Ukrainian Higher Education Institutions (HEIs) through knowledge exchange and best practice sharing.
- 3. Enhance awareness and skills in Open Science and academic integrity:
- -Update existing academic courses across Ukrainian HEIs with specialized subjects on OS and open practices.
- -Develop an open online course on the "Examenarium" platform to broaden access to OS education.
- -Provide training to academic staff on integrating OS principles into teaching and research practices.

Partners:

<u>UKRAINIAN INSTITUTIONS:</u> Vasyl Stus Donetsk National University, Sumy State University, Lutsk National Technical University, National Antarctic Scientific Center, National Agency for Higher Education Quality Assurance

<u>INTERNATIONAL PARTNERS:</u> Graz University of Technology (Austria), Wrocław University of Science and Technology (Poland), **Université Côte d'Azur** (France)

<u>ASSOCIATED PARTNERS:</u> European Council of Doctoral Candidates and Junior Researchers (Eurodoc, Belgium), Stichting eIFL.net (Netherlands), Council of Rectors of Displaced Universities (Ukraine), Antiplagiat Ltd. (Ukraine)

Main outputs:

Open Peer Review (OPR) Platform Implementation:

- -Develops an online platform for unbiased peer review at Ukrainian academic conferences.
- -Engages early-career researchers to ensure fair selection processes. Implements OPR practices aligned with European standards.

Establishment of an International Online Virtual Community:

- -Creates a virtual community on a national web platform.
- -Promotes EU-Ukrainian cooperation in academia and shares best practices.
- -Supports internationalization efforts in Ukrainian Higher Education Institutions (HEIs).

Enhancement of Open Science Awareness and Skills:

- -Updates academic courses across Ukrainian HEIs with Open Science subjects.
- -Develops an open online course on the "Examenarium" platform.
- -Provides training to academic staff on integrating Open Science principles.

Other initiatives carried out by Ulysseus members supporting Open Science

University of Seville (USE)

REUNI+D

REUNI+D (University Network for Educational Research and Innovation) is a collaborative initiative involving several Spanish universities, including the University of Seville, aimed at promoting social responsibility in educational research, citizen science, and open science. This network organizes various events and workshops, including an annual "Summer School" that brings together researchers, students, and professionals to discuss open science policies and practices. The primary goal of REUNI+D is to transform educational research into a driver of social change by integrating participatory methodologies and inclusive approaches. The project emphasizes collaboration among different stakeholders to maximize the social and educational impact of the research conducted (Reuni+D).

A key aspect of REUNI+D is its commitment to citizen science, involving local communities and citizens in the research process. For example, the REUNI+D "Summer School" includes coworking sessions for doctoral students, where they can present their thesis work and receive constructive feedback from peers and mentors. This collaborative model aims to break down traditional barriers between researchers and society, making science more accessible and encouraging active public participation in the co-creation of knowledge. Thus, REUNI+D not only promotes open science but also aspires to make educational research more responsible and responsive to societal needs (Reuni+D)

IDUS

IDUS (Institucional Digital de la Universidad de Sevilla) plays a crucial role in promoting open science at the University of Seville. As a digital repository, IDUS provides open and free access to the university's academic and research output. This includes articles, theses, conference papers, and research datasets, thereby encouraging transparency

and collaboration in the scientific community. By facilitating the dissemination and access to knowledge, IDUS supports the university's mission to foster academic excellence and contribute to research advancement globally, in line with the principles of open science.

Université Côte d'Azur

The HAL platform

The HAL platform (*Hyper Articles en Ligne*) is a central tool in the ecosystem of open science used by Université Côte d'Azur (UniCA) and numerous other academic institutions in France. HAL allows researchers to deposit and disseminate their scientific publications freely and openly, thereby enhancing the visibility and accessibility of research output. This platform adheres to the principles of open science by enabling scientific articles to be accessed by a wide audience without financial barriers, thus promoting knowledge sharing and international collaboration.

By utilizing HAL, researchers at UniCA can securely archive their articles in an open repository. This not only preserves scientific publications over time but also ensures their integrity and citability. HAL offers advanced functionalities such as copyright management and metadata handling, facilitating compliance with institutional policies and funding agencies' requirements for open access.

Moreover, HAL plays a crucial role in measuring the impact of research. By providing detailed statistics on the number of downloads and citations of deposited articles, the platform allows researchers and institutions to better assess the impact of their scientific work. This transparency enhances the credibility and visibility of research conducted at UniCA, while fostering collaboration with other researchers and institutions worldwide. In summary, HAL represents a vital resource for advancing open science at UniCA, supporting a culture of knowledge sharing and scientific innovation.

The COUPERIN project

The COUPERIN project is a national initiative in France aimed at facilitating open access to scientific publications through collective negotiations with publishers. Université Côte d'Azur (UniCA) plays an active role in this project by collaborating with other universities and research institutions to secure favorable agreements with scientific publishers. These agreements aim to reduce access costs to scientific journals while increasing availability of articles for researchers and the general public.

By participating in COUPERIN, UniCA is committed to promoting open science by supporting more equitable and accessible publishing models. COUPERIN's negotiation efforts enable UniCA to ensure that its researchers have privileged access to the resources needed to conduct their research, while adhering to open access guidelines imposed by funding agencies and institutional policies.

Furthermore, UniCA's participation in COUPERIN strengthens its position as a key player in the research landscape in France and Europe, contributing to the creation of a more collaborative and transparent academic environment. By collaborating with other institutions within COUPERIN, UniCA demonstrates its commitment to democratizing access to scientific knowledge and enhances its influence in discussions on the evolution of publishing models and open science policies at both national and international levels.

The EPI-ReVeL platform

The platform EPI-ReVeL (Édition, Publication, Impression - Revues Électroniques en Ligne) hosted by Université Côte d'Azur (UniCA) represents a significant stride towards promoting open science principles within the institution. EPI-ReVeL serves as a dedicated platform for hosting electronic journals, facilitating the dissemination of

research outputs in an open access format. This initiative aligns with UniCA's commitment to fostering transparency, accessibility, and collaboration in scientific research.

UniCA's involvement in EPI-ReVeL underscores its proactive approach to supporting scholarly communication through digital channels. By providing a platform specifically designed for electronic journals, UniCA enhances the visibility and impact of its researchers' work while ensuring that knowledge is freely accessible to a global audience. This not only democratizes access to scientific knowledge but also encourages greater interaction and collaboration among researchers across different disciplines.

Moreover, EPI-ReVeL reflects UniCA's broader strategy to integrate open science practices into its research culture. By hosting electronic journals on a platform dedicated to open access publishing, UniCA reinforces its role as a leader in advancing open science initiatives within the academic community. This initiative not only enhances the university's research profile but also contributes to the ongoing evolution of scholarly communication towards more transparent and inclusive practices.

In summary, EPI-ReVeL exemplifies UniCA's commitment to advancing open science by providing a robust platform for hosting electronic journals. This initiative enhances the visibility and accessibility of research outputs, promotes collaboration among researchers, and reinforces UniCA's position as a key player in driving the adoption of open science principles in academic research.

The Barcelona Declaration on Open Science

Université Côte d'Azur (UniCA), as a member of the Udice alliance, has underscored its commitment to advancing open science principles through its endorsement of the <u>Barcelona Declaration on Open Science</u>. This declaration, signed on April 16, signifies UniCA's dedication to making openness and transparency the standard in research practices. Alongside 40 other organizations, UniCA aims to foster a scientific environment where research information is openly accessible and collaboratively shared.

By signing the Barcelona Declaration, UniCA pledges to promote the transparency and accessibility of research information. This commitment is pivotal in encouraging the transition towards open science, which prioritizes the unrestricted dissemination of research outputs such as publications and data. Jeanick Brisswalter, President of Université Côte d'Azur, emphasizes the university's role in shaping a more inclusive and collaborative scientific ecosystem.

UniCA supports its commitment to open science through a variety of initiatives and services designed to facilitate the open sharing of publications and research data generated by its scholars. These efforts not only enhance the visibility and impact of UniCA's research but also contribute to the global advancement of knowledge by promoting data transparency and facilitating broader access to scientific findings. In essence, UniCA's participation in the Barcelona Declaration underscores its leadership in promoting open science principles and fostering a culture of openness and collaboration within the academic community and beyond.

University of Genova (UniGe)

The Piano Nazionale per la Scienza Aperta 2021-2027

The Piano Nazionale per la Scienza Aperta 2021-2027 (Italian national plan for open science) in Italy is an ambitious initiative aimed at promoting transparency and accessibility of scientific knowledge nationwide. The University of Genoa (UniGe) plays a key role in implementing this national plan. Firstly, UniGe actively promotes open access to scientific publications. By encouraging its researchers to publish in open access

journals, the university contributes to making research findings easily accessible to the scientific community and the general public, thereby enhancing the impact and visibility of its research.

Furthermore, UniGe supports the establishment of necessary infrastructures for open science. The university develops institutional repositories where researchers can archive their publications and research data in line with the guidelines of the national plan. This not only facilitates data sharing and reuse but also strengthens the credibility and transparency of scientific results produced at UniGe.

Lastly, UniGe conducts awareness and training programs for its researchers and administrative staff to promote good practices of open science. These educational initiatives are crucial for embedding open science principles into the university's research culture, thereby fostering a more collaborative, transparent, and inclusive research environment. By actively participating in the *Piano Nazionale per la Scienza Aperta 2021-2027*, UniGe demonstrates its commitment to scientific innovation and continuous improvement of academic research in Italy.

UniGe Open science portal

The UniGe Open science portal (https://openscience.unige.it/en) serves as a central hub for promoting and implementing open science practices within the institution. The University of Genoa (UniGe) recognizes the importance of open access to scientific research and aims to foster a culture of transparency, collaboration, and accessibility in academia. The website provides valuable resources and information for researchers, students, and the public interested in understanding and engaging with open science principles.

One of the key focuses of the Open Science at UniGe initiative is to support researchers in making their publications openly accessible. The website offers guidelines and tools for publishing research outputs in open access formats, thereby maximizing the impact and visibility of UniGe's scholarly work. By promoting open access publishing, UniGe aims to democratize access to knowledge and facilitate global collaboration among researchers across various disciplines.

Moreover, the portal highlights UniGe's commitment to open research data. It provides guidance on data management, sharing, and archiving practices, ensuring that research data generated at the university are made available for reuse and verification. This approach not only enhances the reproducibility and reliability of research findings but also contributes to advancing scientific knowledge and addressing societal challenges more effectively.

In addition to resources on open access and research data, the UniGe Open science portal features initiatives and projects that UniGe is involved in to promote open science locally and internationally. Through collaborative efforts and partnerships, UniGe strives to create an inclusive research environment where openness and integrity are fundamental principles driving scientific progress and innovation.

EduOpen

Since 2015, the University of Genoa has participated in EduOpen, a project funded by the Ministry of Education, Universities and Research aimed at establishing a platform for delivering Massive Open Online Courses (MOOCs). This initiative is part of the Open and Digital Education movement, which is rapidly growing and currently engaging over 60 million users worldwide. EduOpen represents a collaborative effort among Italian universities and selected partners, utilizing an open-source platform and operating on a nonprofit basis. Its economic sustainability is envisioned through the conversion of course certificates into university credits (CFUs), aligning with long-term goals to enhance lifelong learning and elevate the level of informal certifications in Italy.

The University of Genoa's involvement in EduOpen reflects its commitment to advancing educational accessibility and quality through innovative digital platforms. Initially

cataloging six MOOCs, the university covers diverse topics such as Internet and network fundamentals, health anthropology, digital literacy, programming with Python, digital writing, and medical English. These courses not only cater to traditional academic needs but also contribute to societal development by fostering digital literacy and professional skills enhancement among learners.

Reflections on OER - EDUOPEN highlight the project's strategic alignment with the university's third mission, which extends beyond research and teaching to actively engaging with society. By offering MOOCs on EduOpen, the University of Genoa facilitates broader access to high-quality educational resources, thereby democratizing knowledge and supporting continuous learning initiatives across diverse demographics. This initiative underscores UniGe's role in driving educational innovation and societal impact through open and accessible digital education platforms.

Technical University of Košice (TUKE)

Slovakian National Strategy for Open Science for years 2021-2028

The Technical University of Košice (TUKE) plays a significant role in Slovakia's commitment to Open Science as outlined in the National Strategy for Open Science 2021-2028. As a leading academic institution in Slovakia, TUKE is actively engaged in collaborative efforts facilitated by national initiatives and EU structural funds. It contributes expertise through participation in Slovakia's National EOSC working group, alongside key stakeholders like the Slovak Centre of Scientific and Technical Information (CVTI SR) and other national bodies. This group serves as a strategic advisory body, guiding Slovakia's integration into the European Open Science Cloud (EOSC) and ensuring alignment with national and EU research agendas. TUKE's involvement underscores its commitment to advancing scientific transparency, accessibility, and collaboration both locally and within the broader European research community. Furthermore, TUKE benefits from CVTI SR's role as the national information center and coordinator for scientific and technical information. This affiliation enhances TUKE's capacity to leverage national infrastructures and interdisciplinary research centers supported by CVTI SR, facilitating robust R&D activities aligned with Open Science principles. Through CVTI SR, TUKE gains access to essential resources such as the National Open Access point and participates in initiatives aimed at enhancing research

management, evaluation, and educational development. Together with CVTI SR and other stakeholders, TUKE contributes to shaping Slovakia's scientific landscape, promoting innovation, and fostering international cooperation essential for advancing

MCI | The Entrepreneurial School®

Open-Access Block Grant

Open Science objectives.

MCI | The Entrepreneurial School® actively engages in promoting open access to research, aligning with national and European initiatives in this field. As a Ulysseus partner and a higher education institution based in Innsbruck, MCI recognizes the growing importance of making research findings accessible to all without financial barriers. Through its own research programs and academic initiatives, MCI encourages researchers to publish their findings openly, thereby enhancing global visibility and impact of their work.

In collaboration with funding bodies such as the Open Access Block Grant from the Austrian Science Fund (FWF), MCI plays an active role in supporting its researchers in the open access publishing process. This grant covers publication fees in journals offering open access options, facilitating the dissemination and reuse of research conducted at

MCI. By embedding these practices into its institutional framework, MCI not only contributes to advancing more transparent and inclusive research practices but also reinforces its commitment to innovation and academic excellence on an international scale.

Haaga-Helia University of Applied Sciences (Haaga-Helia)

Finnish Declaration on Open Science and Research 2020-2025

Haaga-Helia University of Applied Sciences is actively integrating the principles outlined in the Finnish Declaration on Open Science and Research 2020-2025 into its institutional framework. This declaration emphasizes the importance of openness, transparency, and accessibility in scientific endeavors, aligning closely with Haaga-Helia's commitment to promoting Open Science. The university incorporates these principles by encouraging researchers to adhere to Open Access practices, ensuring that research outputs funded by public resources are openly accessible to all.

Additionally, Haaga-Helia supports the objectives of the declaration through educational initiatives and policy development. The institution educates its academic community on the significance of Open Science, providing training workshops, seminars, and support services to facilitate compliance with Open Access requirements. By aligning its policies with national guidelines, Haaga-Helia reinforces its role in advancing Open Science practices across Finland and beyond, contributing to a more transparent and collaborative research environment.

Conclusion

In conclusion, the resources compiled under the COMPASS project mark a significant milestone in advancing open science practices across Europe. By categorizing these resources from the European Commission, Ulysseus consortium members, and national/international initiatives, we underscore the extensive support available to researchers. These resources not only facilitate compliance with EU funding requirements but also promote transparency, collaboration, and the dissemination of research outputs.

The tools and guidelines provided by the European Commission, such as the REA Open Science portal and Open Research Europe platform, offer essential frameworks for adopting best practices in open science. Similarly, projects like OberRED, MINERVA, and EduOpen exemplify the collaborative efforts of Ulysseus members in enhancing research management and promoting open access to scientific knowledge.

Furthermore, initiatives like the Italian National Plan for Open Science and the Finnish Declaration on Open Science highlight how national strategies complement European endeavors, establishing a cohesive framework to advance open science principles. These initiatives underscore the significance of accessibility, transparency, and inclusivity in research practices.

As open science continues to evolve, capitalizing on these resources becomes increasingly vital for researchers and institutions to maintain leadership in innovation. Embracing openness and collaboration ensures that research outputs remain accessible and beneficial to society at large.

The COMPASS project remains steadfast in its commitment to supporting researchers in integrating open science into their daily routines, thereby fostering a resilient and interconnected scientific community across Europe and beyond.

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