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Plan of the Open Science Ambassador Programme Deliverable D5.4

Development of Training Initiatives within each University Deliverable D5.5



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What is Open Science?

unhindered access to research scientific outputs (publications, data and ancillary products), made freely available to as many users as possible, creating a multiplier effect and triggering benefits that are spread as widely as possible.



Open Science enables universities to fully harness their potential

universities are the cradle of research, provide the splinters for innovation



*Analysis of data
= Information
= Knowledge
= Applications*

Data provides the essential ingredients for our informed and calculated decisions, choices and actions

Beneficiaries of Open Science?



Beneficiaries need to be informed, mentored, trained and supported in order to understand, practise and exploit OS

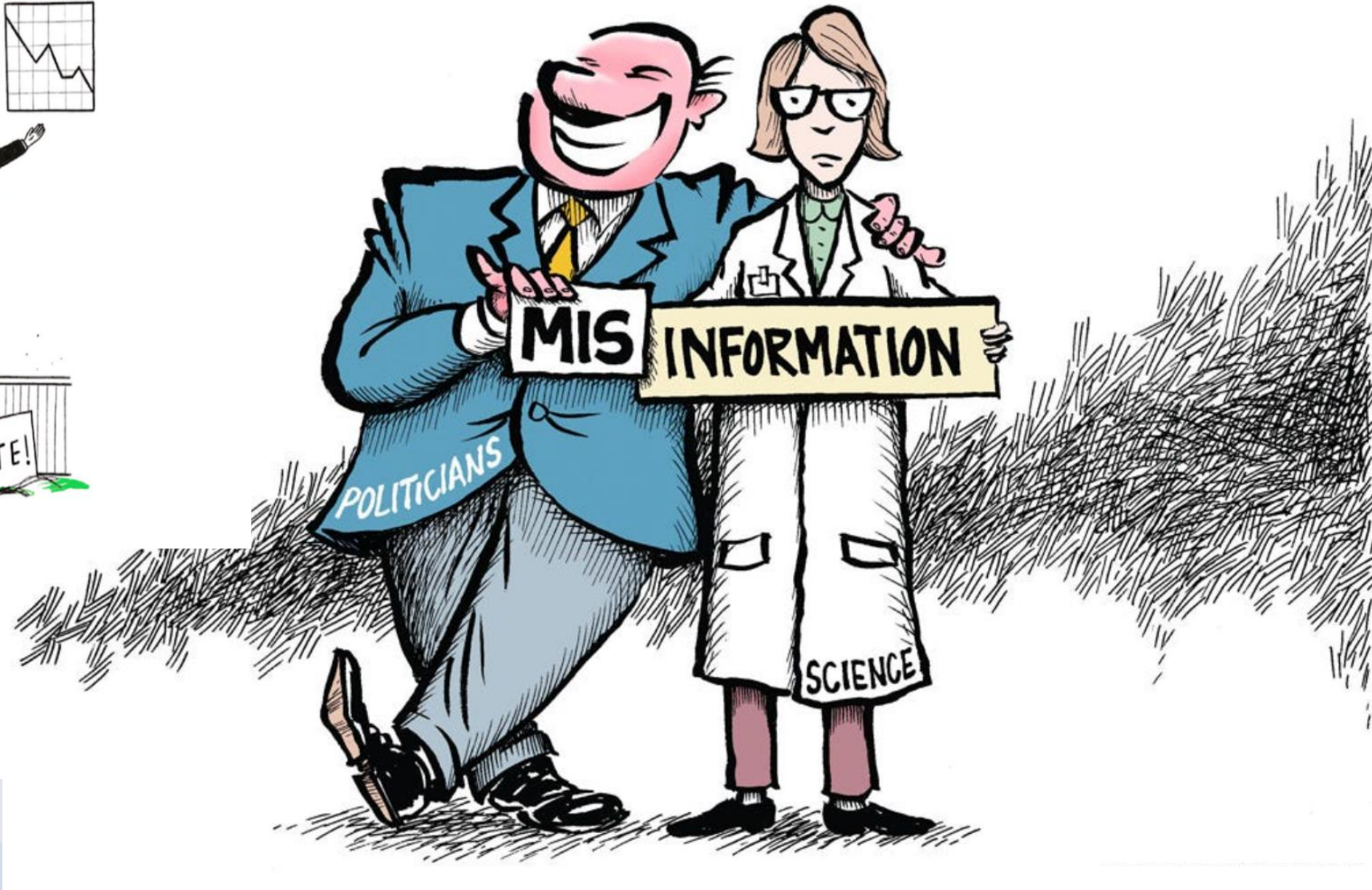
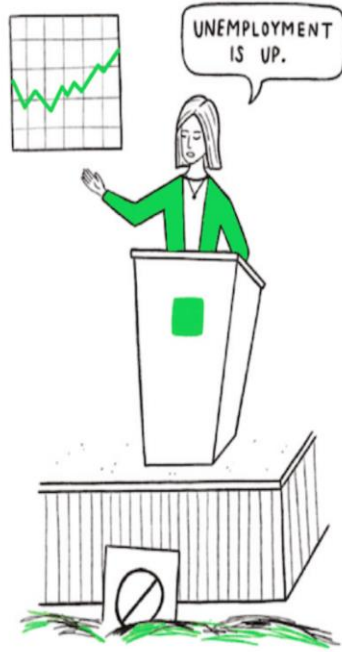
Researchers verification of scientific results...speeding up scientific enquiry and researchers, librarians, and IT support personnel need to refine skills to adapt to the concept of open access publishing.



Support, develop, and manage research information systems and repositories to knowledge and intelligenceexchange of research efforts with industry favouring joint Researchers must learn to navigate the rapidly evolving publishing landscape and make correct decisions on where and how to submit and archive their work.



Data science management skills also play a central role in Open Science. The focus to here is increasingly on big data, data analytics, AI and data engineering.



NO DATA = MISINFORMATION
DUBIOUS DATA = INCONSISTENCIES
RESTRICTED DATA = DELAYED RESEARCH



A change in culture

It represents a

paradigm shift in the modus operandi of research and science

spanning the entire scientific research cycle, from the inception of research to its publication and future use.

So what are the 'carrots'?



More than Carrots.....

Besides highlighting the benefits, also recognise the changes that are needed

- ✚ Recognition of sharing practices in providing effective credit to authors
- ✚ Creation of more meaningful incentives for researchers to engage with OS
- ✚ Recognition of the role of alternative metrics ('altmetrics') and changing publication cultures
- ✚ Adjusting evaluation systems in careers and research grants





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Meet the SEA-EU Open Science Ambassadors

The Open Science Ambassadors are in charge of disseminating and mainstreaming open science practices across their respective universities' research communities. Their work is therefore essential for the European University of the Seas to become an international example of the adoption of open science practices.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101017454

Our Open Science Ambassadors

25 OSAs from 6 universities

cross-university effort

mix of expertise

Coordinating and conducting activities





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'Building an Open Future: Fostering Open Science across the SEA-EU Alliance and Beyond' in Malta



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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101017454



intensive programme focused on the concepts of openness, science, and ambassadorship

Tools such as communication, citizen science, discovery learning, social media, and the available technologies that help to promote open research and data dissemination

special session to demonstrate the skills involved in providing a friendly and communicative face to science



of the Open Science participants in Malta.

SEA-EU RDM Policy Framework

Guiding Principles

Quality

Open Data

FAIR Data Principles

Compliance

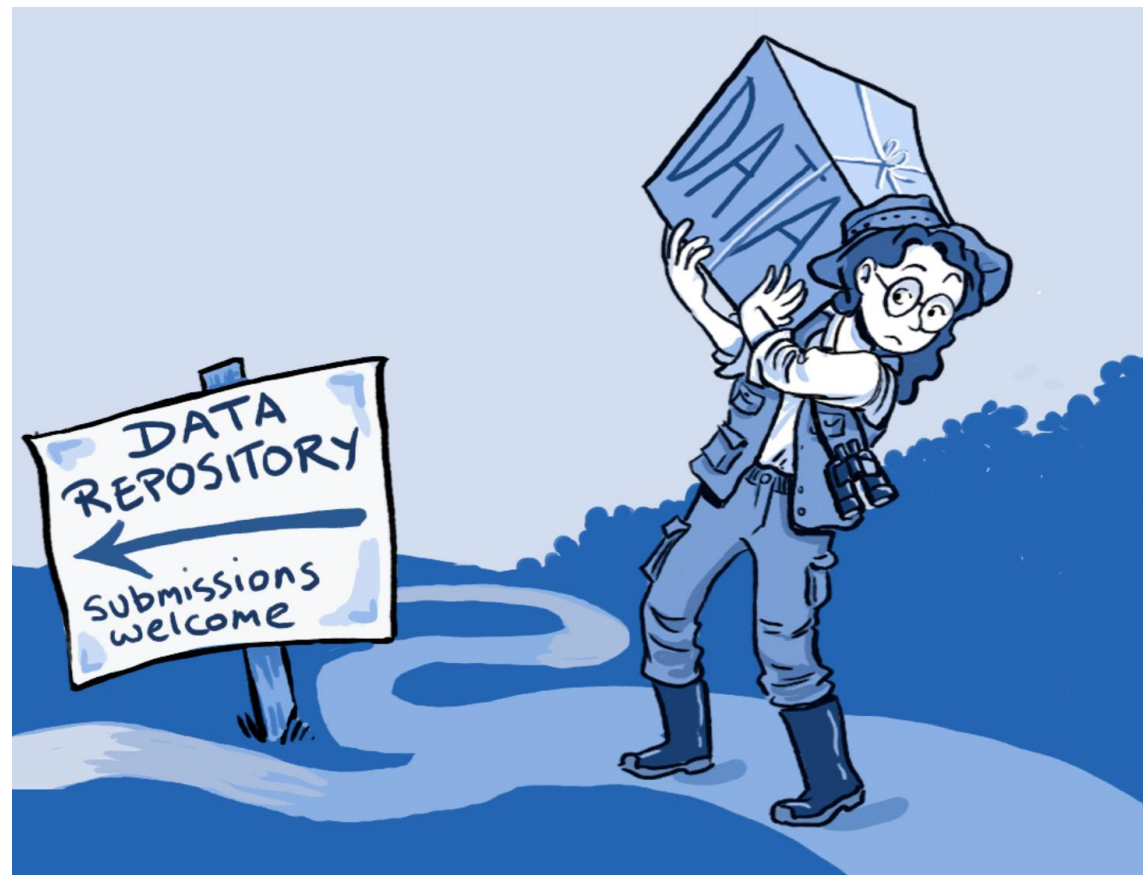
Planning approach

Responsibility

Availability

SEA-EU RDM Toolkit

guideline with relevant information on how to effectively manage, preserve and disseminate research data in order to maximise the potential of research; Equips researchers with the necessary resources to develop Data Management Plans (DMPs) in line with the FAIR data principles.



*Introduction Policies and Support Services
Research Data Lifecycle Research Data Management Plans*

Open Research Data Framework at SEA-EU

Área de Biblioteca, Archivo y Publicaciones
Research Data Guide

Buscar guías, bases de datos...



INICIO BIBLIOTECA ATENCIÓN AL USUARIO

Research data and open data

Legal framework

Research data management

Planning

Organisation and storage

Dissemination and sharing

SEA-EU research data management

Open access



Research Data Guide

The purpose of this guide is to aid researchers at the University of Cádiz (UCA) with the correct management of research data as part of best practices in scientific research and with the drafting of a Data Management Plan (DMP). The manner in which data will be used during any research project should be defined from the outset.

The guide is made up of different sections outlining aspects to be taken into account when managing research data. It includes a series of general and UCA-level guidelines and recommendations. Links to resources for further information, tools, etc. are also included.

Open Science



Open Science Staff Week – Cádiz Meeting



promotion, education and discussion with users on the benefits of Open Science, Open Research Data and the value of sharing research outputs and data generally

Train the Trainers Session in Cadiz

Programme of the Train the Trainers Session conducted on 22nd March 2023

<p>11:30am – 1:00pm</p>	<p>Introduction to the Train the Trainers Session Moderators/Guides: Katarzyna Swierk, Aldo Drago, Godfrey Baldacchino, Practical Session</p> <ul style="list-style-type: none"> <i>The participants are divided into three groups and are tasked to create an OS project composed of complimenting activities to be elaborated and used in the project OSA programme of activities. (90')</i>
<p>2:30pm – 4:00pm</p>	<p>Train the Trainers Session (cont.) Moderators/Guides: Katarzyna Swierk, Aldo Drago, Godfrey Baldacchino,</p> <ul style="list-style-type: none"> <i>The participants present their projects, and proposed activities are discussed. (90')</i> <i>Closing of the 'Train the Trainers' session (15') – Project presentation by each group – 15 minutes/group</i>



Participants at the meeting on Open Science and Open Research Data in Cadiz, Spain (March 2023).



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TRAINING ACTIVITIES

Task 5.5 provides a coordinated training effort on Open Science in the respective SEA-EU universities. The training activities are executed through the support of designated Open Science Ambassadors, following a common training plan. The activities are intended to favour the practice of Open Science and Open Research Data, especially by academics, researchers and students, and supported by administrative and technical staff, to enhance the visibility, impact and dissemination of the research developed in the Alliance, following principles, protocols and practices in favour of findable, accessible, interoperable and reusable (FAIR) data.

Open Science Day: from Open Access and Open Data to involvement of the public



<https://youtu.be/dy4NEAAAdWsM>

National Strategy for Open Science

Open Science Ambassadors

Services of Research Support and Open Science in the Library of the University of Cadiz

Open Data en la Universidad de Cádiz

Citizen Science Projects at the University of Cádiz



Open Science Training at UM

Activities such as at the fresher's week during intros to new students on library services



Open Science Formal Training at UM

The screenshot shows the top navigation bar of the University of Malta website. On the left is the 'L-Università ta' Malta' logo. In the center is a search bar with the text 'Search on University of Malta...' and a magnifying glass icon. On the right are links for 'Browse', 'Upload', 'My data', a notification bell, and a circular profile icon labeled 'RC'. Below the navigation bar is a large banner for 'drUM Data Repository'. The banner features a dark background with various data visualization elements like bar charts, line graphs, and pie charts. The text 'drUM Data Repository' is prominently displayed in white. At the bottom of the banner, it says 'Discover research from University of Malta' and includes a '+ Follow' button.

Promotion entails training aspects explaining the relevance of OS and with special reference to drUM

nt
al

Multiple training activities tackling specific targeted audiences

Online workshop Management of research data organized by SRCE

OS info session
The SEA-EU open science ambassadors presented the principles of fair data, why open science and open data are important, and how you can increase open science in practice




Online training on the art of communicating a scientific message in the Blue-Connect project, work package 1 of the Awareness Campaign



Otvorena znanost
Dr.sc. Ivan Buljan, mag.psych
Sveučilište u Splitu
SEA-EU Open Science Ambassador (OSA)



The workshop aims to provide participants with a comprehensive understanding of various scientific topics, tools, and practices, fostering collaboration and knowledge sharing within the research community.



Workshop Programme	
11:00-11:30	Registration and Welcome
11:30-12:00	Introduction to Open Science and FAIR Principles
12:00-12:30	Lunch
12:30-13:00	Open Access and Publishing
13:00-13:30	Open Science Tools and Platforms
13:30-14:00	Open Science in Research and Education
14:00-14:30	Open Science and the Future of Research
14:30-15:00	Open Science and the Role of the Researcher
15:00-15:30	Open Science and the Role of the Institution
15:30-16:00	Open Science and the Role of the Society
16:00-16:30	Open Science and the Role of the Future
16:30-17:00	Open Science and the Role of the Past
17:00-17:30	Open Science and the Role of the Present
17:30-18:00	Open Science and the Role of the Future
18:00-18:30	Open Science and the Role of the Past
18:30-19:00	Open Science and the Role of the Present
19:00-19:30	Open Science and the Role of the Future
19:30-20:00	Open Science and the Role of the Past
20:00-20:30	Open Science and the Role of the Present
20:30-21:00	Open Science and the Role of the Future
21:00-21:30	Open Science and the Role of the Past
21:30-22:00	Open Science and the Role of the Present
22:00-22:30	Open Science and the Role of the Future
22:30-23:00	Open Science and the Role of the Past
23:00-23:30	Open Science and the Role of the Present
23:30-24:00	Open Science and the Role of the Future

Open Science Training at SPLIT

Open Science Training for PhD & post-doctoral students at UBO



Open Science – an introduction
ReSEArch EU and open science at UBO

6th October 2023

Participants: 9

Discussion

Partager l'écran

Main focus on PhD and post-doc students to especially train on data management plans

Open Science Training at Gdansk

8 activities consisting of workshops, training courses and webinars

Various disciplines and a more practical approach in delivery

Sharing data in a repository - Workshop for scientists

Sharing data in a repository - part 2, Webinar for scientists

Research data in the humanities - a presentation at the History Faculty Council

Research data in the social sciences - online presentation at the Council of the Faculty of Social Sciences

How to Write a Data Management Plan for an NCN Grant Proposal

Research Data Management in the Humanities and Social Sciences by Gamification - workshops for PhD students

How to write a DMP according to NCN requirements? -Video

Open Access Week - Openness in the Library - workshop and lectures

Opening the research data at Fahrenheit Universities - webinar





Kiel University
Christian-Albrechts-Universität zu Kiel

Forschungsdatenmanagement

Open Science Wintersemester 2023/24

Open Science baut Barrieren ab und fördert Transparenz, Kollaboration und Nachvollziehbarkeit. Diese Arbeitsweise stellt wissenschaftliche Texte, Daten, Codes und Forschungsergebnisse zügig zur Verfügung. Die Rechte der Forschenden werden dabei durch Lizenzen gesichert. Die Verfügbarkeit ermöglicht anderen Forschenden, die Ergebnisse zu überprüfen, weiterzuentwickeln und zu nutzen. Dies fördert eine effizientere und verlässlichere Wissenschaft und einen breiteren Zugang zu Informationen.

Alle CAU-Mitglieder, die sich über die Vorteile von Open Science für ihre eigene Forschung und darüber hinaus informieren und diskutieren möchten, sind herzlich eingeladen, an den Coffee Lectures im Wintersemester 2023/24 teilzunehmen!

- 10.10.2023 **Open Science für Einsteiger**
Linda Zollitsch, M. A. (Zentrales FDM),
Prof. Dr. Julia Prieß-Buchheit (Open Science Ambassador for Kiel University and SEA-EU)
- 14.11.2023 **Open Data SH & opendata@uni-kiel**
Dr. Jesper Zedlitz (Staatskanzlei Schleswig-Holstein),
Thorge Petersen M. Sc. (Zentrales FDM), Öve Sörensen (Zentrales FDM)
- 12.12.2023 **FAIR & Open Research Data**
Thilo Paul-Stöve, Dipl. Inf. (Zentrales FDM)
- 9.01.2024 **Open Access an der CAU**
Dr. Kai Lohsträter, M. A., M. A. (Universitätsbibliothek)
- 13.02.2024 **Reproduzierbare Forschung und Open Science**
Dr. Guido Scherp (ZBW)
- 12.03.2024 **Looking abroad: Open Science in France**
Dr. Lizzie Schollus (Institut für Ur- und Frühgeschichte)
- 9. 04. 2024 **Mitmachen, Forschen, Gestalten -
Neue Wege in der Forschung mit Citizen**
Dr. Angila Vetter (Universitätsbibliothek)

Zeit: dienstags, 12:00 bis 12:45 Uhr

Ort: Die Veranstaltungsreihe findet hybrid statt.
Leibnizstr. 9, 24118 Kiel (Digitalen Lernlabor der UB (DLL)) und ZOOM
<https://uni-kiel.zoom-jv.de/j/63808258715?pwd=a1JMdWx1S1dGSXk6NmErS0hZD031tdz09>

Veranstalter: Das zentrale Forschungsdatenmanagement und
Prof. Dr. Julia Prieß-Buchheit (PD), Open Science Ambassador

Website: <https://www.datamanagement.uni-kiel.de/de/aktivitaeten/open-science>



Open Science for Newcomer



SERIES
OF
OPEN
SCIENCE
CAFÉS



OUTREACH ACTIVITIES

Task 5.4 provided a structured execution of activities intended to make Open Science better known by academics, researchers and students, promoting its practice and highlighting the benefits. The Task is mainly based on common activities that are managed and executed by designated Open Science Ambassadors in the respective SEA-EU universities, selected to promote Open Science principles and practices with a common vision and a joint collaborative approach. The activities also targeted diverse stakeholder groups outside academia, including the citizen level, especially through interventions at popular local events including Science Nights.

OSA Outreach at UM

Main delivery at the Researcher's
2023
managing
ities

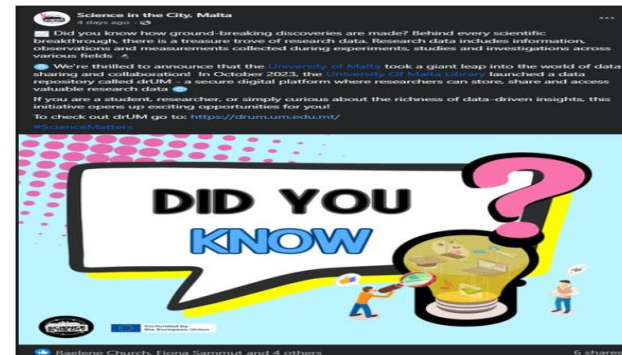
Open Science at Science in the City, Malta 2023

A science festival where a stand with material promoting Citizen Science and Open data were displayed



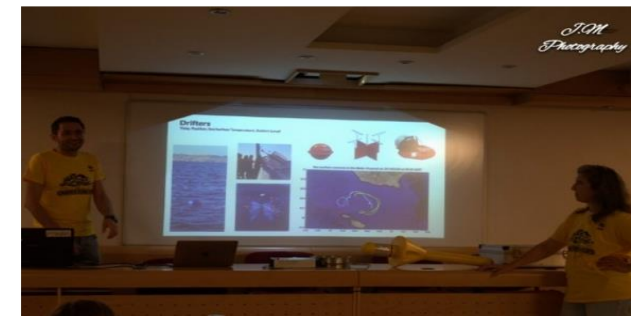
Did you know? Campaign on Open Science at Science in the City, Malta 2023

OSAs provided some content to the SitC Facebook page



European Researchers' Night, Malta 2023

A presentation about Open Science was presented during Changemakers Spotlight



OSA Outreach at Cadiz

Three activities at the European Night of Investigators on 29th September 2023



Science shop for citizens



Dissemination of project objectives and results



Community word cloud of science



*Science shop concept
with a community-
engaged approach to
research and
problem-solving*

OSA Outreach at Cadiz

Three activities at the European Night of Investigators on 29th September 2023



Science shop for citizens



Dissemination of project objectives and results



Community word cloud of science

activity programmed with software MentimeterParticipants were asked to respond to the question: What association do you have with the word science/research? Then, their answers appeared on the large screen in the anonymous form.



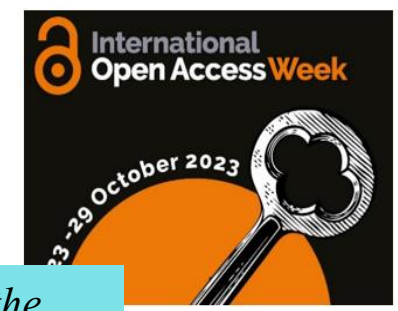
Reach out audiences covering broader discipliners

OSA Outreach at Gdansk

Escape room "Open Access"

The game in frame of International Open Science Week – the puzzles adapted to the open publishing principles.

Students from Faculty Languages – two groups administrative staff, OSAs



Escape Room concept..... puzzles adapted to OS topicsparticipants did not have to get out of the room – instead their search led to finding the password that allowed them to publish a scientific article.

Schütz - Selected poems from Historia rerum Prussicarum – transcription, translation and photographs

The general idea of this practical activity was to create a connection between the knowledge of philological procedures to selected aspects of scientific communication and preparation of material for data repositories.

students from the University of Gdańsk; historians and scholars researching in the field of Neo-Latin studies



OSA Exchange at the Education and Teaching Formats Reports from the Reproducibility Networks



Open Science Campaign raising awareness and encouraging researchers to engage in open science practices.

Overall, Kiel University is committed to advancing Open Science initiatives through research, collaboration, learning abroad programs, technological advances, and more. The campaign used posters, leaflets, and other information material.

#OpenScience? Was | What

- Eine wissenschaftliche Arbeitsweise, die Transparenz, Zusammenarbeit und Nachvollziehbarkeit fördert.
- Wissenschaftliche Artikel, Daten, Codes und Forschungsergebnisse stehen zügig und nachhaltig verfügbar.
- Wesentlicher Bestandteil ist die Einbindung von Citizen Science. Menschen aus der Gesellschaft werden damit aktiv Akteure des Forschungsprozesses.
- A research approach that promotes transparency, collaboration and traceability.
- Scientific articles, data, codes and research results are available quickly and sustainably.
- An integral part is the involvement of Citizen Science. Here, people from society become active players in the research process.



OSA Outreach at Kiel

Again here a long run of activities over Sept – Dec 2023..... promote OS principles and practices with the academic community collaborative research; data sharing; open access

Workshop on Open Science: Sharing Research Data and Best Practices

A dynamic event designed to educate and empower researchers, and scientists in the principles and practices of Open Science. This workshop highlights the significance of Open Science in advancing research and knowledge. Participants were equipped with the knowledge and tools to embrace Open Science principles, fostering a more open, collaborative, and impactful scientific community.



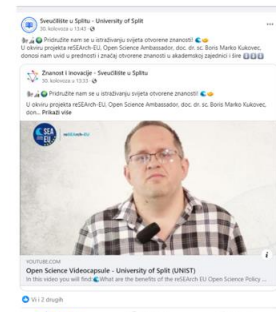
Presentation at the German Reproducibility Network symposium on education and reproducibility explores the teaching of reproducible research, focusing on both formal (structured) and informal (unstructured) teaching methods and their application in a Croatian context.



Newspaper articles
– science data, open science



Open Science on social media



OSA Outreach at SPLIT

OSA Outreach at UBO

<p><u>Open Science Presentations in Laboratories</u></p>	<p><u>Members of the laboratory</u></p>	
<p>DECODE – <u>Science is Open</u> –</p>	<p><u>All public</u></p>	

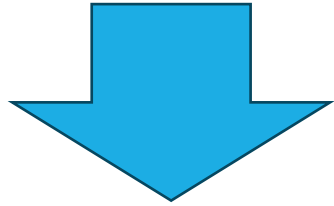
Based on the escape game concept ...developed by UBO.....introducing OS to the general public, students and researchers. Participants learn to identify reliable funders, why it is important for sources to be indicated and accessible, and discover what to look for in an article to know if it is in accord with Open Science principles.

Second Information Session On Open Science

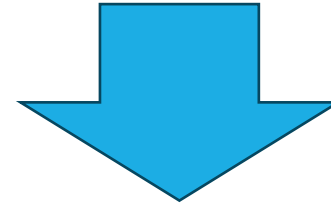
Open Data Survey

<p>Participation in the European Researchers' Night</p>	<p><u>All public</u></p>	
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WHERE DO WE GO FROM HERE?



OS is still evolving and our OS popularisation must be sustained after the project. **WE HAVE CREATED SOMETHING TO REMAIN.** After the project, SEA-EU should inherit this experience and continue to maintain and possibly widen the role of the Open Science Ambassadors in the longer term. We have started a process to remain, and the OSAs should continue to amplify their mission and actions under a consolidated SEA-EU framework.

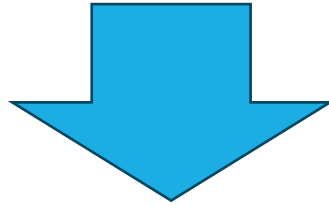


Formal setting up of a **SEA-EU OPEN SCIENCE OFFICE** run as a combined effort and with defined Terms of Reference and commitments at the SEA-EU level.

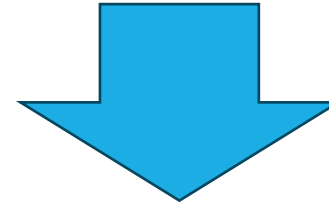
Strengthen role of the libraries through dedicated Open Science teams that are synergised across the universities.

Such an Office would take care to provide ongoing insights into researchers' attitudes towards and experiences of open data..

WHERE DO WE GO FROM HERE?



We need also to **EXTEND THE OSA NETWORK** to the other three new universities that now form part of the SEA-EU Alliance. Variations from different disciplines, sectors of expertise and individual universities demand a broadened approach to research data management support across the Alliance. There are moreover many targets that need to be tackled holistically.



NOT MISSION ACCOMPLISHED. The SEA-EU community needs to be tackled in view of the many evolving facets of Open Science such as in the case of artificial intelligence (AI) tools for data collection, data processing and metadata collection. There are a multitude of future potentials of AI in its role for making science more open and accessible. The SEA-EU is expected to take these opportunities to propose initiatives for AI-enabled Open Science systems.

SEA-EU Marine Data Literacy course





reSEARCH-EU

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Thank you
GRAZZI

