AGENDA

Let's discuss data and the eu-citizen.science platform with and for the citizen science community!

Platform Launch, April 24th, 2024

Time (CEST)	Content
10.00 - 10.05	**Welcome** *Jorge Barba, Ibercivis*
10.05 - 10.10	**Overview of the ECS project** *Carolina Doran, ECSA and Jorge Barba, Ibercivis*
10.10 - 10.45	**Overview of the ECS Co-Design Process and presentation of the new services for the eu-citizen.science platform** *Jorge Barba, Ibercivis*
10.45 - 11.00	**Q&A**
11.00 - 11.10	**Coffee break**
11.10 - 12.00	**Interactive training session:** *How to exploit metadata from citizen science platforms?* *Francisco Sanz, Ibercivis*

Cluster Event, April 25th, 2024

Time (CEST)	Content
9.00 - 9.05	**Welcome** *Florence Gignac, Stickydot*
9.05 - 9.45	**Introductory talks (including Q&A)** **EC policies and initiatives for research data practices and infrastructures** *Michael Arentoft, Head of Unit, Open Science and Research Infrastructures, DG Research & Innovation, European Commission* **The Web of FAIR Research Data** *Karel Luyben, President of the EOSC Association* **Datalog as the first EU Recognized Data Altruism Organization** *Giovanni Maccani, Research Director, Ideas for Change*

9.45 - 9.50	**Short energizer** *Florence Gignac, Stickydot*
9.50 - 10.10	**Overview of the ECS project and its objective in enhancing digital skills for FAIR and open science communities (including Q&A)** *Carolina Doran, ECSA and Amalia Cardenas, CSIC/ECS*
10.10 - 10.20	**Coffee break**
10.20 - 11.00	**Talks from the citizen science community (including Q&A)** **Advantages and difficulties of developing and maintaining participatory science platforms for large-scale biodiversity monitoring** *Dr. Pierre Bonnet, Botanist, CIRAD, BIOS Dept., UMR AMAP and Scientific coord. of the Pl@ntNet citizen science platform* **Challenges for ethical data practices in citizen science** *Dr. Gefion Thuermer, Head of Research - Open Data Institute* **Data infrastructures and services for citizen science from a social sciences and humanities standpoint** *Alessia Smaniotto. Citizen Science officer, OPERAS*
11.00 - 11.05	**Short energizer** *Florence Gignac, Stickydot*
11.05 - 11.15	**Coffee break**
11.15 - 12.00	**Shaping data services and infrastructures to the needs of the citizen science community in Europe: A participatory activity** Allocated time for attendees to discuss their needs and challenges in relation to: **Data analysis and visualisation** (Breakout room 1) **Services and infrastructures for qualitative data** (Breakout room 2) **Data ownership, policies and ethics** (Breakout room 3).
12.00 - 12:05	**Short break**
12.05 - 12:25	**Interactive outcome sharing**
12:25 - 12:30	**Closing remarks**

Cluster Event, April 25th

Biographies of Speakers and Summaries of Their Presentations

EC policies and initiatives for research data practices and infrastructures

A key driver of new R&I practices is open science. Key foci include access to research data 'as open as possible as closed as necessary', research data that is FAIR, and the responsible management of research data, as well as open collaboration including citizen and societal engagement. EC support to enablers of open science practices notably include the European Open Science Cloud as a federation of infrastructures for the sharing and reuse of FAIR data and services, as well as ensuring that open science practices and skills are rewarded and taught.

*Speaker: **Michael Arentoft*** was previously Deputy Head of International R&I Cooperation Strategy, Innovation Union policy officer, Acting Head of Strategy for ICT R&I, Sector Head of ICT R&I Work Programme and Planning, coordinator of ICT Essential Technologies and Infrastructures, and project officer in High Performance Computing and Networking. Before joining the EC, he was with Computer Resources International and with Rovsing International. His educational background is from the University of Pennsylvania's Computer and Information Science PhD program and from the Technical University of Denmark's Electrical Engineering Master's program.

The Web of FAIR Research Data

Only if data become globally Findable, Accessible, and Interoperable, we make them effectively Reusable for science and innovation, even if not all information can be publicly disclosed, such as personal data and data in industry. This asks from researchers a conscious effort towards curating, storing, and sharing research data so that they are accessible to all, of course, as far as legally permissible, and ethically justifiable. This transparency also makes research results better verifiable. The benefits of researchers opening their data and research results are welcomed by decision- and policymakers, funding bodies and society at large. How does this vision of Open and FAIR research data, and the services and infrastructure needed for this, become a reality in Europe and globally? The "European Open Science Cloud" (EOSC) initiative, aiming to combine data and research infrastructures in Europe, will be explained.

*Speaker: **Karel Luyben*** is Rector Magnificus Emeritus of the Delft University of Technology as of 2018. He was Rector Magnificus of the Delft University of Technology from 2010 till 2018. Before that he served as Dean of the Faculty of Applied Sciences for almost 12 years. In 1983 he was appointed full professor in Biochemical Engineering at the Delft University of Technology, and from there has gained experience in research, starting a SME, research leadership and leading European organisations like the European Federation of Biotechnology, CESAER and now the European Open Science Cloud Association. Presently he is primarily active in the domain of Open Science. Until 2023 he was National Coordinator for Open Science in the Netherlands. He was the Chairman of the Board of the Dutch Techcentre for Life Sciences for ten years and is involved with the Open Science Task Forces of CESAER and EUA and since 2020. Since 2021 he is the President of the European Open Science Cloud Association (EOSC-A).

Datalog as the first EU Recognized Data Altruism Organization

This presentation will cover the foundations of DATALOG, the first EU-recognized data altruism organisation. It will focus on sharing the experiences of establishing this emerging legal entity and its positioning in the emerging data altruism ecosystem enabled by the EU's Data Governance Act. DATALOG is a legal entity established in Barcelona, Spain, that promotes data sharing from citizens on utility consumption. It addresses both individual and collective purposes. The ultimate goal of the initiative is to empower people and organisations in sharing their water, gas, and electricity consumption data to collectively tackle energy poverty and fight climate change as a common good.

Speaker: **Giovanni Maccani** is currently Research Director at Ideas for Change. Giovanni has been Assistant Professor/Lecturer in Management Information Systems at the School of Business, National University of Ireland Maynooth (NUIM). Giovanni has achieved a bachelor's and a master's degree in Engineering, both at the Polytechnic University of Milan. He earned a PhD in Information Systems at NUIM under the "Enterprise Partnership Scheme" of the Irish Research Council (IRC) in 2016, co-funded by Intel Corporation. His research domains cover the concepts of Smart Cities, Data Governance, Citizen Science, IT Governance, Design Science, Autonomous Vehicles, and Open Data. Since then, Giovanni has worked on digital transformation strategies and IT Governance across several city councils in Ireland and internationally and led several EU projects. So far, he has published more than thirty peer reviewed academic papers.

Advantages and difficulties of developing and maintaining participatory science platforms for large-scale biodiversity monitoring

Nearly 15 years ago, a French research consortium took on the challenge of making plant species identification easier for as many people as possible. The goal was to improve society's ability to identify biodiversity at large spatial and taxonomical scales. The developments of social networks, smartphones and machine learning techniques have largely contributed to the evolution of the Pl@ntNet platform, which is now widely used by civil society (with more than 20 million users per year) and the scientific community, notably through several national and European projects such as the Guarden and Mambo initiatives. This presentation will highlight the strengths and constraints encountered throughout the development of this platform, and share some of the points to watch for future comparable initiatives.

Speaker: **Dr. Pierre Bonnet** is a permanent scientist at CIRAD in France, based in AMAP lab (a Joint Research Unit for plant architecture, specialised in tropical botany and bioinformatics). His topics of interest are Botany, plant ecology, and applied computer science. He got his Ph.D. in 2008 from the University of Montpellier, after two and half years of activities in South East Asia, in close collaboration with the National Herbarium of the Netherlands and the National University of Laos. Since 2009, he works as a scientific coordinator of Pl@ntNet initiative, in close collaboration with scientists and engineers of INRIA, INRAE, and IRD, in order to promote citizen science for gathering new data on plants at world scale.

Challenges for ethical data practices in citizen science

Citizen science projects have grand ambitions and huge potential for impact; their data can contribute to a plethora of challenges society faces, through direct action, but also by informing policy-makers and institutes, and by being joined up in larger studies by researchers. However, this potential is limited by practices in data management and publication, as well as ethical challenges, which projects may not have the necessary skills and insights to fully address on their own. This talk will summarise recent research in this space, highlighting key challenges citizen science projects and those attempting to use their data face, as well as considerations for citizen science data managers, and practices that, if adopted, could significantly increase usability and impact of citizen science data.

Speaker: **Dr Gefion Thuermer** is the Head of Research at the Open Data Institute, and a Research Fellow at King's College London. She is the technical and scientific coordinator of IMPETUS, a Horizon Europe coordination and support action that provides resources, support and recognition for citizen science initiatives across Europe. She holds a BA in cultural sciences, and an MSc and PhD in Web Science. Her research is interdisciplinary by default, focuses on the intersection of people, data and technology, and aspires to enable inclusive engagement wherever people use technology to achieve goals together. Gefion has previously worked in citizen science with the ACTION project, where she developed a toolkit for citizen science, and on data innovation in MediaFutures and Data Pitch, where she developed toolkits for data innovation and data sharing, respectively.

Data infrastructures and services for citizen science from a social sciences and humanities standpoint

Citizen science and participatory research can look different in social sciences and humanities (SSH) than in other disciplines, and so it is for the "data" that need to be managed in these research activities. Participatory research activities within the SSH mostly deal with human creations and phenomena, thus often handling personal information and sensitive data. As in the health domain, data reusability and FAIRification calls for special attention, as data sharing practices often happen within confidentiality restraints – both for legal reasons as well as for the purpose of sustaining trust-based interpersonal relationships. Furthermore, the relevance of multilingualism in SSH research, and the importance to embed and contextualise the "data" into a comprehensive output, also highlight the relevance of considering and preserving the specificities of the diverse research domains within the SSH. The availability of infrastructures and services addressing SSH citizen science needs not only can affect how participatory practices are carried out, but also can affect if and how they are "visible" in the citizen science landscape.

Speaker: **Alessia Smaniotto** develops and coordinates R&D projects for the French infrastructure OpenEdition in the field of participatory research. She is a member of the coordination team of the European OPERAS infrastructure, as Citizen science officer. She coordinated the three-year European project COESO (coeso.hypotheses.org), that developed a dedicated platform to support participatory research involving the social sciences and humanities disciplines: VERA (vera.operas-eu.org). Graduated in philosophy, journalism and sociology between Italy and France, she holds a PhD in philosophy of social sciences from the École des Hautes Études en Sciences Sociales (EHESS).