



The RDA/EOSC Future Cross-Disciplinary Outputs in the EOSC environment

In next few months keep an eye out for these bulletins, which aim to give a flavour of the impact of the RDA/EOSC Future Open Calls programme. In this July issue, we will look in particular at the outputs of the cross-disciplinary projects and how RDA's outputs are being tested in the EOSC environment.

The RDA EOSC Future Open Calls programme is diverse and varied, and we are now seeing in the final stages many rich outputs engaging different communities in the EOSC environment, leveraging RDA's Recommendations and Outputs. Our Ambassadors have also worked tirelessly as a network to promote Open Science and awareness of the RDA and EOSC among their disciplines.

The Open Calls programme has enabled the active building of a community around EOSC in the RDA context, and we are now seeing an innovative range of outputs: Podcasts, presentations, Zenodo outputs, disciplinary pages. In them you will see a flavour of the data challenges that need to be solved before the pathway to engagement in Open Science and EOSC can fully happen.

Four Highlights from the Cross-Disciplinary projects

1. FAIR data sharing in the Wind Energy Sector

What was the challenge?

Lack of data sharing is one of the largest barriers to reducing costs of wind energy and contributing to the world's ambitious net zero goal.



What did the project achieve?

The project has made an important first step in engaging the wind energy sector actively with data sharing. The grant was successfully used to investigate how data standards – and in particular the supportive knowledge available from the RDA outputs, including the 'FAIR Data Maturity Model' – can be applied to the WeDoWind Ecosystem, ultimately improving cross-disciplinary FAIR data sharing in wind energy. The WeDoWind Ecosystem currently brings together 300+ people in the wind energy industry from all over the world. It uses a collaboration framework centred around specific "challenges", which are defined by "challenge providers" within a topical "space" and made available via a digital platform. The data required to solve a particular "challenge" are provided by the "challenge providers" under the confidentiality conditions they specify. The main uniqueness of the method is the "win-win" situation it creates for all participants, motivating them to actually share data and work together.

What was the impact?

Leveraging RDA's FAIR Data Maturity Model to prepare specific disciplinary data for discovery in EOSC. We look forward to more publications in August!



More information:

[Spotlight article](#)

2. Ensuring Machine Actionable Software Management Plans

What was the Challenge?

A push to make software management plans available in a FAIR manner, so they can be discovered and reused in the EOSC environment.



What did the project create?

The project created an ontology for creating Machine actionable Software Management Plans. For those using software could impact several groups: best practices for research groups and funders who could use SMPs to assess whether the software fits the funding requirements. It was based on the RDA WG for DMP Common Standards, particularly the application profile provided by this group.

What was the impact?

This project has provided a great start to supporting for a FAIR landscape in all research outputs by providing a framework for automatizing Software Management plans.



More information:

[project website](#)

[ontology](#)

3. FAIRness in the natural sciences

What was the challenge?

There is a lack of data sharing standards in the computational biology field, for example there is a lack of standards, trust, transparency and reproducibility as factors hindering the uptake of biosimulation models in clinical research.



What did the project create?

The project created a semi-automated, domain-specific tool for FAIR evaluation in the biomedical and systems biology fields. It was based on the RDA's FAIR Data Maturity Model. This tool helps scientists to understand the FAIRness level of their own work (e.g., when intending to publish it), but also to judge the reusability and trustworthiness of a virtual study which will be used.

What was the impact?

FAIR metrics, to be truly informative, must be carefully interpreted in the context of a specific domain, and sometimes even of a project. The promotion of EOSC and RDA standards in the COMputational MOdeling in Blology NEtwork (COMBINE) community; publications on Zenodo (the team is working to make this available on EOSC portal, too). Adherence to the FAIR principles leads to a more systematic approach for machine-actionable work with scientific data. For funders, the tool might offer support in evaluating project outcomes in systems biology projects. This project can also be replicated in other domains, and Irina and her colleagues will be giving a paper at the German NFDI conference in September on the topic.



More information:

[project website](#)

4. EU FAR Project

What was the challenge?

Making Open Government data FAIR and ultimately available via EOSC and making them increasingly discoverable in EOSC.



What did the project create?

A database of FAIR public data on EU funds in Romanian government data for the period 2014-2020 and as a result encouraging open data and further evidence-based decision-making. Additionally, the database provides increased accountability for local elected officials in terms of their concrete outcomes for EU funded programs. It can also be used as a showcase example for highlighting "champions" that can inspire similar success stories for comparable localities.

What was the impact?

By showcasing different research results from our projects or other relevant projects, EOSC services and tools promote open access to research products and reduce the risk of duplication of efforts, which is critical to advancing the research agenda.

[spotlight article](#)

[project website](#)



More information:

[EOSC in Practice Story](#)

Building Bridges: The Domain Ambassador Network

Anne Cambon-Thomsen

[Anne Cambon-Thomsen](#) (Ambassador for Human immunogenetics) has consolidated her previous RDA Ambassador work by many varied outreach efforts and dissemination activities at conferences among her Immunogenetics community. This community is just getting interested in data sharing. For example, see Anne's recent [blog](#) where she reflects on young researchers' interest in data sharing standards and Open Science. See also [Anne's poster](#) she presented at the European Immunogenetics and Histocompatibility conference. Anne has also drawn interest in EOSC from beyond Europe, by researchers who are interested in learning if the benefits can apply to them. EOSC and RDA can happen at national level too and she is active in [French EOSC activities](#). In the final stages of her supported ambassadorship Anne is working on a set of conference and journal proposals to further increase the impact of her ambassadorship, for example you can find her presenting at the [UNESCO summer school on Ethics](#).



Lina Sitz

[Lina Sitz](#) (Ambassador for Earth Science) has a focus in her ambassadorship on encouraging FAIR practices in the [Intergovernmental Panel on Climate Change \(IPCC\)](#) and aims to not reinvent the wheel, rather leverage the RDA community to 'simplify FAIR practices' in her community. She has contributed towards a useful guide on [open science in IPCC](#). As part of her ambassadorship, she has also worked to become part of EOSC portal: Onboarding IPCC as a resource provider in the EOSC with the aim of making IPCC assessment datasets available through EOSC portal which is a big asset to adding to the pool of knowledge. Lina has worked on a [FAIR data podcast](#), and you can see her contribution to her earth sciences disciplinary page [here](#).



More information:

spotlight article



Find out more about the value of RDA for Disciplines!

Building Bridges: The Domain Ambassador Network

Jonas Koefoed Roemer

Jonas Koefoed Roemer (Ambassador for Arctic Data Community) focuses his ambassador activities around an Arctic data repository and this work has encouraged ties with the RDA community. Jonas created a [poster](#) which points out how to tackle FAIR requirements. Jonas has authored a section on [Arctic data challenges](#) on the RDA website, giving pointers to the main activities and resources in this field. He also had some useful insights via his blog on the P20 and [getting involved in the RDA community](#).



More information:

spotlight article

Sara El-Gebali

[Sara el-Gebali](#) believes in helping others implement FAIR practices. As a metadata expert, she does this by reaching out to all those relevant across the research cycle and make relevant connections between players implementing FAIR at all stages and from all backgrounds. She has facilitated a range of 'Ask Me Anything' events around EOSC and RDA good practices around FAIR bringing together a range of speakers from the Open Science landscape, EOSC-Future and RDA for intensive discussions on key building blocks of FAIR implementation. Sara has found the ambassador network hugely useful to apply her skills and knowledge to support others around her.

For more reflections from Sara, see this wonderful joint blog post with fellow ambassador Allyson Lister on [navigating RDA for newcomers](#), give it a read!



More information:

spotlight article



Find out more about the RDA/EOSC Future Domain Ambassadors



Find out more about the EOSC Future Open Call Projects!

