

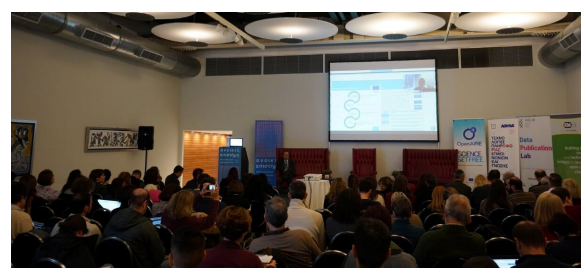


The OpenAIRE logo was customised to reflect the key points of actions as identified during the open discussions with stakeholders at the Greek Open Science Symposium.



The setting: Athena Research Center (ARC), as one of the coordinators of OpenAIRE and the [Greek OpenAIRE NOAD](#) organized a two day national symposium on “Open Science in the Greek Research Ecosystem: Research Data, Procedures and Collaborations” on 29- 30 November in Athens. The symposium was co-organised with the [Greek RDA node](#) and the project for the [Hellenic Data Services - HELIX](#), and was the first attempt to bring together all stakeholders who act under the umbrella of Open Science in the national academic and research ecosystem.

Some demographics: Professionals and experts with diverse backgrounds representing a wide range of organisations and initiatives (libraries, national research infrastructure nodes, open software initiatives and policy makers) from different parts of Greece, came to Athens to participate in this open dialogue and training sessions.



First day keynote session

With 180 participants in total, the symposium was a success not only due to the high attendance, but also because it set the scene giving the opportunity for all open science and data experts and enthusiasts to be part of a wider community of practice which was felt that Greece was missing in this area.



Value added in the national research area: Overall, of all values and principles of Open Science, what characterised the Greek Open Science Symposium was **collaboration**. Currently in Greece, there is a good policy and legal framework as derivative of EU communications and directives for open government and open data. In addition, there is both the e-infrastructure and research infrastructures to accommodate researchers' and research communities' domain specific and generic demands, also through cloud and High Performance Computing for big data.

Hence, the need for all national stakeholders to communicate with each other and work collectively in order to achieve a national Open Science ecosystem and effective representation in the EOSC while at the same time strengthening Research & Innovation in Greece, became apparent even from the first day. Key areas for collaborative actions as they were identified are:

- **Open Access to publications:** starting with Green Open Access since it's the most mature at the moment.
- **Research Data Management / Data Management Plans:** for data to be not only open but re-usable and reproducible; H.F.R.I. to consider introduction of Data Management Plans for all disciplines (even SSH that it currently lacks of)
- **Institutional Policies and Repositories:** for all institutions to adopt and enforce an Open Access/Open Science Policy in a unified approach reflecting issues found in the proposed EOSC Policy Framework which includes, among others, Ethics in research and researchers' behaviour and the need for an Open Science Code of Conduct. Repositories to be interoperable and increase their research results' visibility through OpenAIRE.
- **Rewarding System:** to move away from the Impact Factor, embrace successful paradigms, such as the DORA Declaration, and influence efforts in the development of alternative rewarding systems.
- **Training:** to equip librarians with the necessary data management skills for the long tail of science and offer researchers training in Open Science as well as in use of the national data management services.
- **Sustainability:** for establishing a continuum (by-default) and open mechanism of publicly funded research which makes participation to Research and Science inclusive to all.



Dr. Vangelis Karkaletsis, National Centre for Scientific Research “Demokritos” and Prof. Yannis Ioannidis in an open discussion for prioritisation and decisions on joint actions

What are the next steps: To move concretely to an accepted by all open science national policy, the (re-)creation of the National Open Science High Level Task Force, under the auspices of the General Secretariat for Research and Technology (GSRT) was proposed, and bottom-up working groups for institutional policies and repositories were formulated. In particular, for **Open Access to publications** it was

expected and “agreed” that OpenAIRE NOAD organizations (Athena RC and HEAL-Link) could and should take a leading role and propose pragmatic solutions to be implemented. For research data, the HELIX National Data Service was perceived as a key umbrella initiative to host and promote data management and EOSC related initiatives.



*“This is a journey that we must take together,
not only because it’s pleasant, moreover because it’s necessary.”*

Natalia Manola, Managing Director of OpenAIRE

Are you a Storylover? Don't miss the in-between sessions of the two-day Symposium presented below!

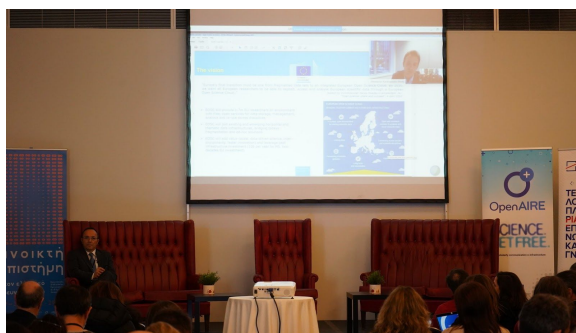
Day 1: Towards setting the national agenda for Open Science



Prof. Yannis Ioannidis, President of Athena Research & Innovation Center

The objective of the first day was to set the agenda, i.e., formulation, implementation and uptake of open science policies in the country. To identify the specificities and the local requirements, how they relate to EU initiatives, and prioritize the actions. Emphasis was on understanding the areas in need of a boost, with the intention to prioritise them in a coherent and collective way to form a Roadmap with actions towards the establishment of a National Open Science Strategy, in alignment with European directives and best practices, in light of the European Open Science Cloud (EOSC).

The Symposium opened with Prof. Yannis Ioannidis, President of Athena Research & Innovation Center welcoming participants and informing about the notion of Open Science, its characteristics and values in the national and European research area.



Thanasis Karalopoulos, policy officer for the European Open Science Cloud



Natalia Manola, Managing Director of OpenAIRE



Fotis Karayannis, Greek RDA Node



Giannis Tsakonas, Acting Director, University of Patras Library, LIBER Executive Board

Keynote presentations on the EU research ecosystem and Open Science developments followed with representatives from:

- the **European Commission** with policy officer for the **European Open Science Cloud**, Thanasis Karalopoulos, presenting the EOSCpilot project accomplishments and contributions in defining the EOSC governance structure,
- **OpenAIRE Legal Entity** with Managing Director, Natalia Manola, analysing the benefits when choosing Open Science, how OpenAIRE helps stakeholders in this direction, also being one of the pillars of the EOSC,
- **RDA-Europe** with Greek RDA Node, Fotis Karayannis, explaining the work of RDA at the national level and stressing the need for coordination between (infra)structures and highlighting adoption of RDA outputs as a form of testing best research data and management practices.
- **LIBER** with Acting Director at the University of Patras Library and member of the Executive Board at LIBER, Giannis Tsakonas, listing different ways and scenarios in which academic libraries could accommodate researchers' and other Open Science needs.



Panel discussion on policies and priorities for a National Open Science Strategy - (left to right) Prodrimos Tsiavos, Consultant Attorney at ARC; Prof. Nektarios Tavernarakis, president of FORTH for the Council of Presidents of Research Centers; Lia Ollandezou, Hellenic Academic Libraries Link (HEAL-Link) AUTH; Prof. Yannis Emiris, University of Athens for the Hellenic Foundation for Research & Innovation - H.F.R.I.; Prof. Diomidis Spinellis, Athens Economics and Business University for the Greek Open Technologies Alliance (GFOSS); Prof. Markos Koutras, Vice-Rector of Finance, Planning and Development of the University of Piraeus, for the Rectors Council.

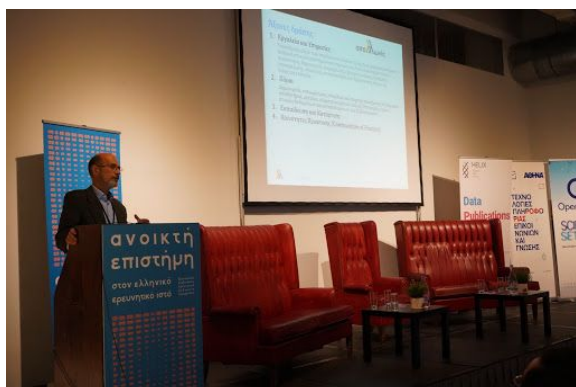


Aphrodite Sevasti, Chief Technology Officer, GRNET



Spiros Athanasiou, Senior Project Manager, ARC

The afternoon session explored **data management services, tools and FAIR compliance** of domain specific research infrastructure national nodes. The keynotes for the [Digital Infrastructure for Research](#), and especially for the [Hellenic Data Services - HELIX](#) drew a lot of attention as a core horizontal service able to be used as the foundation for many research communities, off the box compatible with OpenAIRE Guidelines and EOSC rules of participation (as they come along).



Prof. Panos Konstantopoulos, Institute for the Management of Informations Systems, ARC



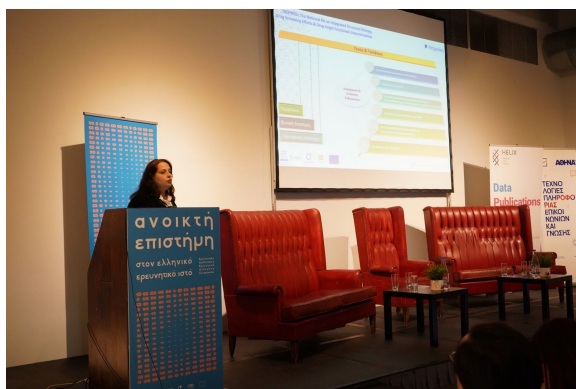
Vassilis Kilikoglou, Institute of Materials Science, National Center for Scientific Research "Demokritos"



Maria Gavrilidou, Natural Language Processing and Knowledge Extraction Department – ILSP, ARC



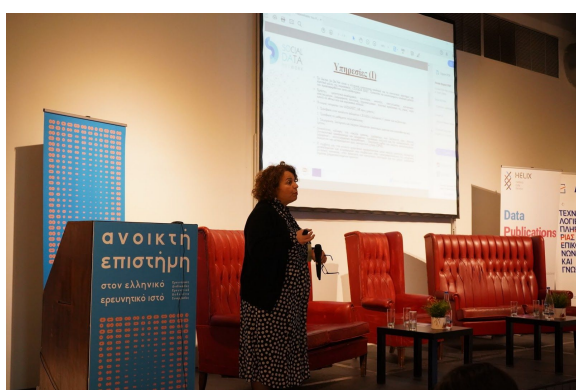
Konstantinos Eleftheriadis, Institute of Nuclear and Radiological Science & Technology, Energy & Safety NCSR "Demokritos"



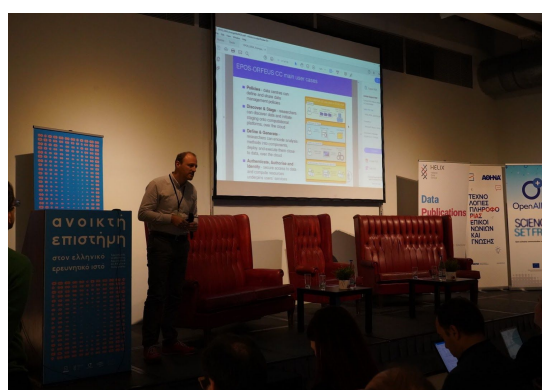
Evangelia Crysina, Institute of Biology, Medical Chemistry and Biotechnology, National Hellenic Research Foundation - NHRF



Martin Reczko, Biomedical Sciences Research Center Alexander Fleming



Dimitra Kondyli, Institute of social research, National Centre for Social Research



Christos Evangelidis, Institute of Geodynamics, National Observatory of Athens

A flash talk session with eight (8) presentations of core Research Infrastructures that are included in the National Roadmap for Research Infrastructures took place after the HELIX keynotes. Moreover, these infrastructures are: DARIAH-GR for Humanities, INNOVATION-el for Materials and Analytical Facilities, CLARIN-EL for Language Resources, PANACEA for Atmospheric Data, INSPIRED for Structural Biology, ELIXIR-GR for life sciences, SODANET for social sciences, HELPOS for seismological science. The session went through very well and showed that the data management issues and approaches are common, and that the communities are in need of core national data services to fulfill their open science/data requirements, as well as of continued support from the government as part of their sustainability.



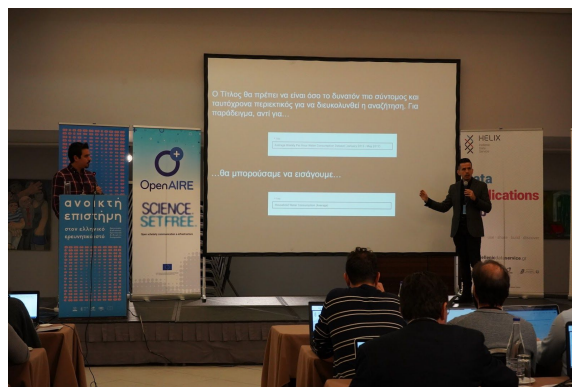
Day 2: Training sessions on open science and research data services

The purpose of the second day of the Symposium was complementary and aimed to inform about and train librarians, repository managers, researchers and research communities in services, implementation tools and practices for Open Access, Open Science and (Research) Data Management. Two parallel streams of hands-on sessions were running all day.

First two parallel sessions were about Open Science policy characteristics and educational proposals for Research Data Management with the Hellenic Data Service "HELIX".



Marina Angelaki, National Documentation Center (EKT), Prodromos Tsiavos, Athena RC



Spiros Athanasiou and Georgios Chatzigeorgakidis, Athena RC



Elli Papadopoulou, Athena RC



Giorgos Kostoulas, Athena RC

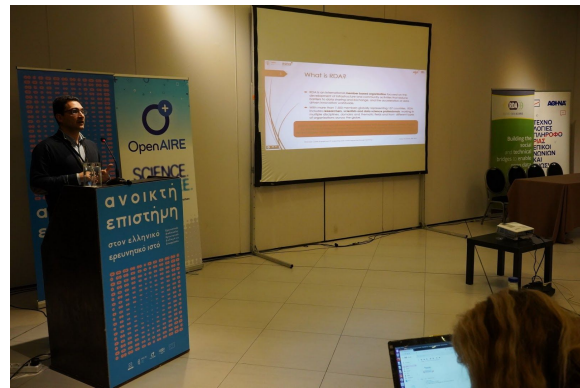
In this context, the capabilities of [HELIX services for publications, data and labs](#) were demonstrated through live tutorials, which gave the opportunity for participants to practise on specific features with the help of the HELIX team. Additionally, those interested in policies benefited from open discussions that were happening at the Open Science Clinic session, a great outcome of which was the creation of a working group for institutional policies and

legal advice. The educational paradigm of the [Greek translation of the FOSTER Open Science Training Handbook](#) was also explained with the help of volunteers who made this initiative a reality.

During the next parallel sessions, the programme focused on practices and implementation tools for Open Access and Open Science as well as interoperability and other technical matters of infrastructures and services for Research Data Management.



George Kakaletis, National and Kapodistrian University of Athens/ CITE



Fotis Psomopoulos, Institute of Applied Biosciences (INEB), National Center for Research and Technological Development (CERTH) / RDA-Europe



Manolis Terrovitis, Athena RC



Antonis Lempesis, Athena RC/ RDA-Europe



George Papastefanatos, Athena RC



Elli Papadopoulou, Athena RC/ RDA-Europe

During this set of parallel sessions, [amnesia](#) - the OpenAIRE anonymisation tool, and openDMP - the machine actionable Data Management Planning tool, were demonstrated along with procedures for registration of services to the einfraCentral / EOSC catalogue. In

an RDA-tailored session, participants also got the chance to explore the RDA outputs of [Scholarly Link Exchange \(Scholix\)](#) for interoperability, CoreTrustSeal certification as derivative of the [DSA-WDS Partnership Working Group](#)) and supporting services for early career researchers via the dedicated [RDA Interest Group for Early Career and Engagement](#) talk.

Before closing of the second day, some OpenAIRE services for interoperability were explained together with the [ELIXIR BiP! Finder](#) service for assessing the impact of scientific publications and the [e-publishing paradigm](#) by EKT.



Argiro Kokogiannaki, Athena RC/ OpenAIRE



Thanasis Vergoulis, Athena RC/ ELIXIR-GR



Antonis Lempesis, Athena RC/ OpenAIRE



Irakleitos Sougioultzoglou, National Documentation Center (EKT)



Elli Papadopoulou, Athena RC/ OpenAIRE and Giannis Tsakonas, Univ. Patras Library/ LIBER

Moreover, participants learnt about the [OpenAIRE Research Community Dashboard](#) and [OpenAIRE Content Provider Dashboard](#). The prior being a service developed to facilitate

researchers' communication and collaboration in data sharing and evaluation during their projects, and the latter being the service which provides interoperability and metadata enrichment resolutions for repositories in support also to the [FAIR principles](#). In addition, participants familiarised themselves with the BiP! Finder tool, currently expanding its initial scope to accommodate wider communities' needs (apart from biomedical fields) for popularity and influence of article level metrics based on citations. Last on that stream of parallel sessions were the presentation and walk through the e-publishing platform which has been developed by EKT, and an impromptu live survey on institutional repository matters aimed to become the initiator of a series of discussions with interested people. In fact, its success in achieving that is reflected in the outcome of this session as it triggered the creation of a working group for repositories' interoperability issues.

Overall, the second day was an intensive one, full of hands-on sessions of all sorts and forms. The sessions which gained more attention from participants were practical exercises in HELIX data services, the DMPtool and Amnesia, making the need for further training on research data issues much prominent. Sessions regarding repositories' interoperability were also among the popular ones, whilst librarians, who were actually the most well-represented stakeholder group at the Symposium, showed their interest on policy, networking and supporting presentations.

Feeling that you missed out of the discussions and want to get a taste of the impressions arose during the actual days of the Greek Open Science Symposium activities?

Search for [#OpenScienceGreece](#) on Twitter!

Your Greek are fading out and you feel like polishing them? Check out the [presentations](#) of the Greek Open Science Symposium (hint: some of them are in English - choose wisely!)

Useful information:

- [The Greek NOAD page](#)
- [The 'RDA in Greece' page](#)

*Photo credits: Panagiotis Karioris, ARC