

### EOSC National Tripartite Event POLAND

### EOSC Festival: Open Science for Better Science

**Event Report** 





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#### 1. INTRODUCTION

The National Tripartite Event Poland took place in Krakow, and online, from October 24<sup>th</sup> to October 26<sup>th</sup> 2022, under the context of the EOSC Festival and main theme "Open Science for Better Science". The event was organised by the National Science Centre (NCN), the Polishmandated organisation in the EOSC Association and a coordinator of the EOSC Poland network.

The event addressed the following objectives:

- Enhance the national coordination and dialogue between key EOSC stakeholders;
- Engage with researchers, service providers, policy-makers, Science Clusters and the projects included on the Polish Map of Research Infrastructures;
- Increase EOSC's visibility in Poland;
- Inform the national research community about the EOSC projects and their outcomes that serve the better science;
- Identify and communicate the EOSC-relevant best practice examples in the area of infrastructures, services and tools and skills and competencies.

#### **2. PROGRAMME CONTENT**

#### 2.1. EOSC and Open Science Policy (24<sup>th</sup> October)

#### Welcome and introduction to the NTE Poland

Zbigniew Błocki

Director of National Science Centre, Poland

#### Mateusz Gaczyński

Deputy Director Department for Innovation and Development at the Ministry of

Education and Science

Zbigniew Błocki, Director of NCN, and Mateusz Gaczyński, the Deputy Director at the Department for Innovation and Development in the Ministry of Education and Science,





introduced the goals of the event, highlighted the importance of Open Science and EOSC in Poland and the importance of the dialogue between key EOSC stakeholders.

#### Panel 1: The Tripartite EOSC collaboration from the perspective of each Party

#### Pantelis Tziveloglou

Policy Officer, European Commission, DG Research & Innovation, European Research Area & Innovation Unit A.4 – Open Science

Marialuisa Lavitrano

Director and Vice-president EOSC Association

Volker Beckmann

Co-chair EOSC Steering Board (online)

Chair of the Panel:

Jadwiga Spyrka, the national representative of Poland on the EOSC Steering Board

The tripartite representatives, Pantelis Tziveloglou (European Commission), Marialuisa Lavitrano (EOSC Association) and Volker Beckmann (EOSC Steering Board), chaired by Jadwiga Spyrka, the national representative on the EOSC Steering Board, discussed the journey for developing an EOSC ecosystem in Europe. The tripartite governance, as expressed by Pantelis Tziveloglou, ensures dialogue and strategic coordination of the policy implementation and its framework conditions to deepen the European Research ERA. Marialuisa Lavitrano reinforced that a change of culture is needed towards more collaboration and presented EOSC-A activities, including the bottom-up approach to engage the community. Volker Beckman shared the first results of the EOSC-SB survey about the Open Science policies across the Member States and Associated Countries. The national financial contributions to EOSC are estimated to be nearly 200 million in 2020.

Panel 2: EOSC and Open Science Policy Development in Poland: objectives and challenges





#### **Zbigniew Błocki**

Director of National Science Centre, Poland

#### Iwona Hajduk

Head of the Commercial Project Support Unit, Department of Innovation and Biotechnology Development, Medical Research Agency

#### Anna Wałek

Director of the Library and Rector's Plenipotentiary for Open Science Gdańsk University of Technology

#### Dawid Kostecki

Director of Polish National Agency for Academic Exchange (online)

#### Wiktoria Wojtyra

Coordinator of the International Research Agendas Programme Foundation for Polish Science

Chair of the panel:

Krzysztof Fic, Poznan University of Technology, Member of the NCN Council

Polish research funding entities discussed their Open Science policies and activities, creating their way towards EOSC. The Polish RFOs' landscape was presented by Polish National Agency for Academic Exchange, Medical Research Agency, Foundation for Polish Science and National Science Centre. National research programmes were presented, reflecting how Poland is coping with many different target beneficiaries, which also require different forms of support. The perspective of the Polish research performing organisation was presented by Anna Wałek from the Gdansk University of Technology.





Panel discussion: Implementation of Open Science in Poland in the context of EOSC development in Europe.

#### Mateusz Gaczyński,

Deputy Director of the Department for Innovation and Development at the Ministry of Education and Science

#### Pantelis Tziveloglou

Policy Officer European Commission, DG Research & Innovation, European Research

Area & Innovation Unit A.4 - Open Science

#### Marialuisa Lavitrano

Director and Vice-president EOSC Association

#### Lidia Borrell-Damian

Secretary General Science Europe

#### Elżbieta Żądzińska

Rector of the University of Łódź, Head of the Science Commission at the Conference of Rectors of Academic Schools in Poland

#### **Michał Tomza**

Polish Young Academy Polish Academy of Sciences

Chair of the panel:

Zbigniew Błocki, Director of the National Science Centre, Poland

Introduction to the Panel:

**Oskar Wolski,** representative of NCN on the Management Board of the EOSC Focus Project

The concluding panel discussion between Mateusz Gaczyński (Ministry of Education and Science), Pantelis Tziveloglou (European Commission), Marialuisa Lavitrano (EOSC Association), Lidia Borrell-Damian, (Science Europe), Elżbieta Żądzińska (University of Lodz) and Michał Tomza





(Polish Young Academy, Polish Academy of Sciences) was chaired by Zbigniew Błocki from National Science Centre, Poland. The panellist focused on implementing Open Science in Poland in the context of EOSC development in Europe. Marialuisa Lavitrano shared the need for an open science strategy and more specific policies to implement it. A lively discussion was held about the challenges and opportunities for Poland in EOSC and Open Science Agenda. The incoming Polish policy on open data was also mentioned by the representative of the Ministry of Education and Science.

#### 2.2. EOSC AND OPEN SCIENCE POLICY (24<sup>TH</sup> OCTOBER)

#### Welcome and Introduction

#### Marcin Liana

Deputy Director of National Science Centre, Poland

#### Natalia Galica

Open Science Officer at National Science Centre, Poland

The second day of the NTE was opened by Marcin Liana, the Deputy Director of the National Science Centre, Poland, who welcomed the panellists and participants, presented the overview of the first day of the EOSC Festival and introduced the goals of the second day of the event. Natalia Galica gave a comprehensive description of the agenda, starting with the challenging issue of **funding and sustaining models for Open Science and EOSC** in Europe. In the second part of the day, the reach portfolio of Polish OS **infrastructures** and contributions to EOSC were presented.

#### Panel 1: Funding for Open Science

#### Patricia Clarke

National Delegate for Health, Programme Manager: EU Programmes and Policy





International Cooperation, Evaluation & Targeted Programmes Unit, Health Research

Board, Ireland

#### Sergio Andreozzi

Head of Strategy, Innovation and Communications at EGI Foundation: Advanced Computing for Research, the Netherlands

#### Alicja Dyląg

Senior Officer for International Collaboration, Polish Lead / Coordinator of CHIST-ERA National Science Centre, Poland

#### Mathieu Girerd

Coordinator of CHIST-ERA & FLAG-ERA European Projects French National Research Agency (ANR), ICT Department

#### **Christian Cuciniello**

Directorate General Research & Innovation, European Commission, European Research Area & Innovation Unit A.4 - Open Science, European Commission Chair of the panel:

Natalia Galica, Open Science Officer at National Science Centre, Poland

In the morning panel, the two types of funders presented their experience, including national agencies and non-profit organisations. Dr Patricia Clarke, Programme Manager for EU Programmes and Policy, introduced the approach of the Health Board Council, Ireland. While Sergio Andreozzi, the Head of strategy, innovation and communication at EGI Foundation, presented the Dutch opportunities provided by the EGI Federation across Europe. Finally, the ERA-NET and the Polish contribution to the CHIST-ERA Call were presented by Alicja Dyląg from the National Science Centre, Poland as an example of a multi-agency approach to funding and sustaining Open Science in Europe. Due to technical problems, Mathieu Girerd and Christian Cuciniello had to be cancelled, but the presentations were provided and are available online.





#### Panel 2: Infrastructures

Marcin Wolski, Poznan Supercomputing and Networking Center Piotr Zielenkiewicz Institute of Biochemistry and Biophysics, Polish Academy of Sciences Tomasz Parkoła Poznan Supercomputing and Networking Center Raul Palma Poznan Supercomputing and Networking Center Marek Jeżabek The Henryk Niewodniczański Institute of Nuclear Physics, Polish Academy of Sciences Andrzej Zemła Academic Computer Centre Cyfronet AGH Paweł Lubomski and Michał Nowacki Gdańsk University of Technology Maciej Piasecki, Wroclaw University of Science and Technology, CLARIN ERIC

Chairing persons of the panel: Sergio Andreozzi, EGI: Advanced Computing for Research, the Netherlands Roksana Wilk, Academic Computer Centre Cyfronet, AGH University of Science and Technology in Kraków

The panel on **Infrastructures** showed the richness of Polish contributors to Open Science and EOSC. There were eight excellent use cases, best practices and Pan-European collaborations



presented by Polish stakeholders. Marcin Wolski from Poznan Supercomputing and Networking Centre (PSNC) spoke about the user experience of the EOSC Portal enhanced by AI (EOSC Future project). Tomasz Parkoła (PSNC) provided insight into the Open Cluster for the Social Sciences and Humanities within the European Open Science Cloud, and Raul Palma addressed the goals of the Reliance Project at providing research-enabling services for EOSC in support of Open Science. Marek Jeżabek from the Institute of Nuclear Physics Polish Academy of Sciences delivered the use case on European Spallation Source ERIC from the European and nationalstakeholder perspectives. Andrzej Zemła from Cyfronet Academic Computer Centre at AGH University of Technology in Kraków presented the PLGrid Infrastructure for EOSC, and Paweł Lubomski, together with Michał Nowacki presented the challenges of open research data storage and computing at the Gdansk University of Technology based on the experience derived from Bridge of Knowledge Project. Last, Maciej Piasecki from the University of Science and Technology in Wroclaw gave a comprehensive overview of the research opportunities within CLARIN infrastructure, providing European - and Polish perspectives of a stakeholder and a user. The chairing persons on the panel were Sergio Andreozzi from EGI Foundation and Roksana Wilk from Cyfronet Academic Computer Centre.

#### 2.3. EOSC AND OPEN SCIENCE PRACTICE (26<sup>TH</sup> OCTOBER)

#### Welcome and Introduction

Natalia Galica, Open Science Officer at National Science Centre, Poland

The third day of the NTE was opened by Natalia Galica, the Open Science Officer at the National Science Centre, Poland, who welcomed the panellists and participants, presented the overview of the first and the second day of the EOSC Festival and introduced the goals of the third day of the event.

Panel 1: Skills and competencies (best practices)





#### Maria Pawłowska

Director for International Relations at Visnea, Programme Director of Data Steward School

#### Anna Wałek

Gdańsk University of Technology, EOSC Task Force: Data stewardship and curricula

#### Natalia Gruenpeter

Open Science Platform at ICM, University of Warsaw, OpenAIRE National Open Access Desk in Poland, EOSC TF Upskilling countries to engage in EOSC

#### **Roksana Wilk**

Coordinator of Academic Computer Centre Cyfronet, AGH University of Science and Technology in Kraków, Chair of EOSC Task Force on Rules of Participation Compliance Monitoring

Chair of the panel:

Natalia Galica, Open Science Officer at National Science Centre, Poland

The third day was initiated with the panel on **Skills and Competences**, presenting the Polish approach to Open Science education, training and upskilling of researchers and research supporting staff, such as data stewards, data librarians and IT specialists. The panellist tried to identify which OS skills were required and for whom. Finally, they took a challenge to answer the question of recognising and sustaining new professions in the academic environment. Four representatives of Polish institutions with long-standing national- and international experience participated in the panel, namely: Anna Wałek, the Director of the Library at the Gdansk University of Technology and a member of Data stewardship and curricula EOSC Task Force; Maria Pawłowska, Director of International Relations at Visnea and Programme Director of Data Steward School, Natalia Gruenpeter, Open Science Platform at ICM, University of Warsaw and OpenAIRE National Open Access Desk in Poland and Roksana Wilk, the coordinator of Cyfronet,





Academic Computer Centre at AGH University of Science and Technology in Kraków. The panel was chaired by Natalia Galica, Open Science Officer at National Science Centre Poland.

#### Panel 2: Tools and services

#### Rafał Leśkiewicz and Łukasz Turek

Chancellery of the Prime Minister of Poland

#### Natalia Gruenpeter

Open Science Platform at ICM/University of Warsaw, OpenAIRE National Open Access

Desk in Poland, EOSC TF Upskilling countries to engage in EOSC

#### **Norbert Meyer**

Institute of Bioorganic Chemistry, Polish Academy of Sciences

#### Michał Kotnarowski

Institute of Philosophy and Sociology, Polish Academy of Sciences and European Social

Survey European Research Infrastructure/ESS ERIC

#### Andrzej Królak

Institute of Mathematics, Polish Academy of Sciences

#### **Marek Stankiewicz**

Jagiellonian University, Polish delegate to European Strategy Forum on Research Infrastructures/ESFRI

#### **Roksana Wilk**

Academic Computer Centre Cyfronet AGH University of Science and Technology in Kraków

#### Magdalena Szuflita-Żurawska

Gdańsk University of Technology, EOSC Data stewardship and curricula Task Force

#### Raimundas Tuminauskas

Poznan Supercomputing and Networking Centre

Chair of the panel:





#### Maciej Piasecki

Wroclaw University of Science and Technology, CLARIN ERIC

The closing panel was devoted to **tools and services**. The rich landscape of research-enabling and research-supporting tools and services was presented by the representatives of Polish governmental and academic stakeholders. Rafał Leśkiewicz and Łukasz Turek from the Chancellery of the Prime Minister presented the resources and services provided by the KRONIK@ (CHRONICLE) National Repository of Science and Culture Objects. Natalia Gruenpeter from Open Science Platform at ICM University of Warsaw introduced the role of ICM in providing OS services in Poland but, as the Polish NOAD, emphasised the role OpenAIRE services and their *contribution to EOSC*. Michał Kotnarowski from the Institute of Philosophy and Sociology Polish Academy of Sciences spoke about his experience with the European Social Survey European Research Infrastructure, presenting the ESS ERIC approach to methodological excellence leading to data quality assurance. Andrzej Królak

representing the Institute of Mathematics Polish Academy of Sciences provided insight into the Gravitational Wave Open Science Center (GWOSC), with Open Science collaboration going far beyond European borders. Roksana Wilk from Cyfronet presented EOSC services for providers, while Magdalena Szuflita-Żurawska shared her experience in tools and services offered by the Open Science Competence Center at Gdańsk Tech Library. The last panellist to speak was Raimundas Tuminauskas from Poznan Supercomputing and Networking Centre, who presented data-related services supporting the implementation of research projects funded by public resources. The panel was chaired by Maciej Piasecki from Wroclaw University of Science and Technology.

#### **3. CONCLUSIONS**

During the first EOSC National Tripartite Event in Poland, Open Science and EOSC stakeholders were represented by 20 research-performing organisations and 8 research funding





organisations, with almost 40 panellists presenting both policy and practice of Open Science in Europe and Polish contributions to the EOSC landscape. The festival appreciated almost 290 online and in-person attendees.

#### 4. FURTHER INVOLVEMENT AND ADVANCEMENTS TO EOSC POLAND

**1.** Presentation on *Open research data for European innovations. Participation of Polish stakeholders in the European Open Science Cloud,* the 2<sup>nd</sup> International Digitalisation Conference, the 10<sup>th</sup> November 2022.

2. Organisation of the EOSC Workshop at the 6<sup>th</sup> Pomeranian Open Science Conference on the 1<sup>st</sup> of December 2022.

**3.** Organisation of the EOSC Network Poland introductory event for new members on the 1<sup>st</sup> of December 2022.

4. Launching the EOSC Network Poland Website by the end of 2022.

5. Organisation of EOSC Network Poland meetings once a month.

6. Organisation the 2<sup>nd</sup> EOSC Tripartite National Event Poland in June 2022.

7. Participation of EOSC Network Poland in Open Access Week 2023.

8. Including information on EOSC as part of the agenda of the training schemes (online and

in-person) on research data management for both Data Stewards and Researchers.

#### **5. ACKNOWLEDGEMENTS**

Dear Guest Speakers, Chairing Persons and Attendees,

The National Science Centre Poland wishes to thank you for contributing to and participating in the EOSC Festival - the National Tripartite Event Poland.

We express gratitude for sharing your knowledge and experience regarding EOSC and Open Science policy and practice. We thank our international speakers for presenting the European perspective and the best national practices. We are also entirely grateful to our Polish panellists





for giving excellent comprehensive examples of Polish initiatives that already contribute to the global movement of Open Science and EOSC.

Lastly, we thank all in-person and online attendees for accepting our invitation to the EOSC Festival and expressing your interest in EOSC and Open Science.

With almost 40 panellists and 290 participants, the event has achieved its goals of raising awareness and understanding of Open Science and EOSC, which shall impact the efficiency of the further advancement of the process and stakeholders' engagement in Open Science and EOSC in Poland.

Although the first National Tripartite Event in Poland is over, we believe it is just the beginning of our further advanced collaboration towards making Open Science the new "normality" in Poland and beyond.

#### 6. THE AGENDA OF THE EOSC NATIONAL TRIPARTITE EVENT POLAND 2022

Monday,	EOSC and Open Science Policy
24th October	hybrid day

- 10:00-10:15 Welcome and introduction Zbigniew Błocki, National Science Centre Poland Mateusz Gaczyński, Ministry of Education and Science
- 10:15-11:30 The Tripartite EOSC collaboration from the perspective of each Party Pantelis Tziveloglou, European Commission Marialuisa Lavitrano, EOSC Association Volker Beckmann, EOSC Steering Board (online)





Chair: Jadwiga Spyrka, National representative on the EOSC Steering Board

11:30-11:45 Break

 11:45-14:15 EOSC and Open Science Policy Development in Poland: objectives and challenges
 Zbigniew Błocki, National Science Centre Poland
 Dawid Kostecki, Polish National Agency for Academic Exchange (online)
 Iwona Hajduk, Medical Research Agency
 Wiktoria Wojtyra, Foundation for Polish Science (online)

> Jakub Szprot, Head of Open Science Platform at ICM University of Warsaw and Open Data Advisory Group of the Ministry of Education and Science (online)

Anna Wałek, Gdańsk University of Technology

Chair: Krzysztof Fic, Poznan University of Technology

#### Q&A Session

14:15-15:00 Lunch break

15:00-16:15 Implementation of Open Science in Poland in the context of EOSC development in Europe (panel discussion)
 Mateusz Gaczyński, Ministry of Education and Science
 Pantelis Tziveloglou, European Commission
 Marialuisa Lavitrano, EOSC Association
 Lidia Borrell-Damian, Science Europe (online)
 Elżbieta Żądzińska, University of Lodz, the head of the Science Commission





at the Conference of Rectors of Academic Schools in Poland (online) Michał Tomza, Polish Young Academy, Polish Academy of Sciences Chair: Zbigniew Błocki, National Science Centre Poland

Introduction to the Panel:

**Oskar Wolski,** representative of NCN on the Management Board of the EOSC Focus Project

Q&A Session

16:15-16:25 Final remarks

- Tuesday, EOSC and Open Science in Practice
- 25th October online day
- 10:00 10:10 Welcome and introduction
- 10:10- 12:00 Funding for Open Science

   Christian Cuciniello, European Commission
   Mathieu Girerd, French National Research Agency
   Alicja Dyląg, National Science Centre, Poland
   Patricia Clarke, Health Research Board and National Open Research
   Forum, Ireland
   Sergio Andreozzi, EGI: Advanced Computing for Research
   Chair: Natalia Galica, National Science Centre Poland

Q&A Session





#### 12:00 - 12:15 Break

#### 12:15 - 15:00 Infrastructures

Marcin Wolski, Poznan Supercomputing and Networking Center Piotr Zielenkiewicz, Institute of Biochemistry and Biophysics, Polish Academy of Sciences

Tomasz Parkoła, Poznan Supercomputing and Networking Center

Raul Palma, Poznan Supercomputing and Networking Center

Marek Jeżabek, The Henryk Niewodniczański Institute of Nuclear Physics,

Polish Academy of Sciences

Andrzej Zemła, Academic Computer Centre Cyfronet AGH

Paweł Lubomski and Michał Nowacki, Gdańsk University of Technology

Maciej Piasecki, Wroclaw University of Science and Technology, CLARIN ERIC

Chair: Sergio Andreozzi, EGI: Advanced Computing for Research& Roksana Wilk, Academic Computer Centre Cyfronet AGH

Q&A Session

Wednesday, EOSC and Open Science in Practice

26th October online day

- 10:00-10:10 Welcome and introduction
- 10:10-12:30 Skills and competencies (best practices)

Maria Pawłowska, Visnea





Anna Wałek, Gdańsk University of Technology, Natalia Gruenpeter, Open Science Platform at ICM, University of Warsaw Roksana Wilk, Academic Computer Centre Cyfronet, AGH University of Science and Technology in Kraków Chair: Natalia Galica, Open Science Officer at National Science Centre Poland

12:30-12:45 Break

#### 12:45-15:00 Tools and services (best practices)

Rafał Leśkiewicz and Łukasz Turek, Chancellery of the Prime Minister, Digitalisation Natalia Gruenpeter, Open Science Platform at ICM University of Warsaw Norbert Meyer, Institute of Bioorganic Chemistry Polish Academy of Sciences Michał Kotnarowski, Institute of Philosophy and Sociology, Polish Academy

of Sciences and European Social Survey European Research

Infrastructure/ESS ERIC

Andrzej Królak, Institute of Mathematics Polish Academy of Sciences Marek Stankiewicz, Jagiellonian University, Polish delegate to European

Strategy Forum on Research Infrastructures/ESFRI

Roksana Wilk, Academic Computer Centre Cyfronet AGH

Magdalena Szuflita-Żurawska, Gdańsk University of Technology

Raimundas Tuminauskas, Poznan Supercomputing and Networking Centre

Chair: Maciej Piasecki, Wroclaw University of Science and Technology, CLARIN ERIC

**Q&A** Session





#### 7. BIOGRAPHIES OF THE PANELLISTS AND CHAIRING PERSONS

**Marialuisa Lavitrano** is a Director and a vice president and works at the University Milano – Bicocca. Marialuisa Lavitrano is a full professor of Pathology, Director of the Molecular Medicine Unit and of the Executive Master in Management of Research Infrastructures at Milano-Bicocca University, where she was Pro-Rector for International Affairs [2006-2013]. Over the years, she contributed to the international strategies of the Ministries of Research and of Health and coordinated Italian participation in the BioMedical Sciences ESFRI roadmap. In 2013 she was appointed BBMRI.it Node-Director. Prof. Lavitrano has a long-term experience in research, management and bioethical aspects of science, being co-Director of BBMRI-ERIC Common Service ELSI and participating at Bioethical Commissions of the Council of Europe, of the Vatican, and of the Italian government.

**Volker Beckmann** is a Co-chair of the EOSC Steering Board; Coordinator of the European Open Science Cloud (EOSC) in France, and Service for Research and Innovation Strategy Department for Digital Services and Infrastructures. Since 2020 Volker has been the program manager for the European Open Science Cloud (EOSC) at the French ministry for higher education, research and innovation (MESRI). In this position, he's representing France, e.g. on the EOSC Steering Board, at the e-IRG and serves on the HORIZON-INFRA programme committee. Since 2022 he is the co-chair of the EOSC Steering Board. He is an astrophysicist and worked in space science in Germany, Italy, Switzerland, and at NASA's Goddard space flight centre and taught at the University of Maryland Baltimore County. From 2016 to 2020, he was the scientific director for Computing and Data Science of CNRS-IN2P3 in France. He was a work-package leader in the EOSC pilot project and in EOSC-Pillar, and he served as an EGI council member and was a special advisor on EOSC matters at CNRS.



**Pantelis Tziveloglou** is a Policy Officer at the DG Research & Innovation European Research Area & Innovation, Unit A.4 – Open Science, European Commission.

**Mateusz Gaczyński** is a Deputy Director in the Department for Innovation and Development at the Ministry of Education and Science. In his current position, he deals with research and innovation policy in national and European settings, including cohesion policy programmes and Horizon 2020 participation. He participates as a Polish delegate in ERA Forum and ERAC activities.

**Lidia Borrell-Damian** is a Secretary General of Science Europe, the association representing major public organisations that fund or perform excellent, ground-breaking European research.

**Elżbieta Żądzińska** is the Rector of the University of Łódz and the head of the Science Commission at the Conference of Rectors of Academic Schools in Poland (Polish: KRASP).

**Michał Tomza** has been a University professor at the Faculty of Physics of the University of Warsaw since February 2022 and Head of the Centre for Atomic Molecular and Optical Physics, at the University of Warsaw since June 2020. An Assistant professor, Faculty of Physics, University of Warsaw, Between December 2017-February 2022 Research assistant professor at Centre of New Technologies of the University of Warsaw. Postdoctoral research fellow at the Institute of Photonic Sciences, Barcelona, Spain (October 2016-November 2017) and University of British Columbia, Vancouver, Canada (November 2014-October 2016); a member of the Polish Young Academy (by-election) Polish Academy of Sciences;

**Zbigniew Błocki** is a Director of the National Science Centre Poland; a former member of the Governing Board of Science Europe; a member of the Scientific Council of the Institute of



Mathematics of the Polish Academy of Sciences, the Committee of Mathematics of the Polish Academy of Sciences, and the Ethics Committee of the European Mathematical Society.

**Dawid Kostecki** is a Director of the Polish National Agency for Academic Exchange. Dawid Kostecki holds a PhD degree in law and a master's degree in history from the Catholic University of Lublin. He is a graduate of the Executive Master of Business Administration (EMBA), as well as Doctor of Business Administration (DBA) at Warsaw Management University. He is a member of the Young Scientists Council, an advisory body to the Minister of Education and Science.

**Iwona Hajduk** is a Head of the Commercial Project Support Unit, Department of Innovation and Biotechnology Development at the Medical Research Agency.

**Wiktoria Wojtyra** is a Coordinator of the International Research Agendas at the Foundation for Polish Science, which aims at establishing in Poland new research units led by outstanding scientists from around the world; a representative of FNP in the Open Science Working Group of Science Europe.

**Anna Wałek** is a Director of the Gdańsk University of Technology Library, President of IATUL – International Association of University Libraries. Plenipotentiary of the Rector of the Gdańsk University of Technology for Open Science. An experienced library manager, an expert in the field of Open Science, digital libraries, as well as organisation and management of a scientific library. She conducts scientific research in the field of research data management in various scientific disciplines, metadata for research data, and data management support services - incl. defining the role and tasks of data stewards and data librarians. She obtained a PhD in Library and Information Science in 2013. A member of several organisations, working groups and bodies



actively working for Open Science, incl.: SPARC Europe Board of Directors, IATUL Board of Directors, CESAER (Conference of European Schools for Advanced Engineering Education and Research), Research Data Alliance, GO FAIR Data Stewardship Competence Centers Implementation Network (national chapter coordinator), EOSC Association delegate and task force member (TF Data Stewardship Curricula and Career Paths). Manager and coordinator of projects implemented from EU funds. Author and co-author of scientific articles, conference publications, presentations and posters related to Open Science, research support and library management. The organiser and member of program committees of national and international conferences and popularising issues related to openness and FAIR-ness in science

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Krzysztof Fic graduated in Chemical Process Engineering at the Faculty of Chemical Technology, Poznan University of Technology, in June 2008; at the same time, he was accepted for the research assistant position in the Department of Applied Electrochemistry, and he works there until now. His research activities focus mainly on the electrochemical systems for energy conversion and storage; in particular, he is interested in phenomena occurring at the porous electrode/electrolyte interface in so-called operando approach. Besides, he investigates the electrochemical activity of selected redox couples and their application as a novel source of pseudocapacitance of carbon-based electrochemical capacitors. In April 2011, he visited the Centre National de la Recherche Scientifique, Centre de Recherche sur la Matière Divisée, Orléans (France). In October 2011, he took a research internship at Heyrovsky Institute in Prague. In 2013 – 2015 he spent six months in Solvay company (Brussels, Belgium) within IAPP Marie Curie Action. Recently, he is a principal investigator in the Starting Grant (GA 759603) funded by European Research Council. Since December 2016, he has served as a Member of the Polish Young Academy at the Polish Academy of Sciences. On 1<sup>st</sup> August 2019, he was appointed as a 'Specially Appointed Professor' at Kansai University in Japan. He is a co-author of more than 50 peer-review papers, cited more than 2 000 times. He co-invented more than 20 patents already granted and 30 patent applications pending.





#### FUNDING FOR OPEN SCIENCE

**Christian Cuciniello**, works at the Directorate General Research & Innovation, European Commission, European Research Area & Innovation Unit A.4 - Open Science of European Commission, EC Contact Point for EOSC Association.

**Mathieu Girerd** works at the French National Research Agency (ANR). He is the coordinator of the international activities of the Digital Technology and Mathematics Department and the coordinator of the European project CHIST ERA . He acts also as the French National Contact Point for the Horizon 2020 Future and Emerging Technologies (FET) programme . Before joining ANR, he worked at the French Embassy in Austria, in charge of promoting scientific and academic cooperation between France and Austria, and at the European Space Policy Institute as a Research Assistant. Mathieu Girerd has a background in theoretical physics and in research management..

**Alicja Dyląg** is a Senior Officer for International Collaboration and Polish Lead / Coordinator of CHIST-ERA at the National Science Centre, Poland.

**Patricia Clarke is** a programme Manager for Health Research Board with responsibilities for work on the EU Framework Programmes, leading on open research agenda. Her current work includes managing HRB Open Research Platform, co-chairing National Open Research Forum Ireland and National Delegate for Health.

#### INFRASTRUCTERS

**Marcin Wolski** started working at Poznan Supercomputing and Networking Center in 2001 as a database and network programmer. In January 2002, he joined the Data Management System (DMS) team, where he worked as a system analyst and developer. In 2003, he began to lead the





DMS and modified its development direction towards grid environments and large-scale solutions. Consequently, he analysed the Data Management System software utilisation in virtual laboratories. Other research interests of Marcin's include GIS systems, system-oriented architectures, autonomic computing and enterprise application frameworks. He is the author or co-author of several papers in professional journals and conference proceedings.

**Piotr Zielenkiewicz** is a professor at the Institute of Biochemistry and Biophysics, Polish Academy of Sciences. (more: ibb.edu.pl)

**Tomasz Parkoła** manages DL&KP Department at Poznan Supercomputing and Networking (a team of 30+ members), working with products and services for data management, archiving and processing (https://dingo.psnc.pl/), digital humanities (http://ehum.psnc.pl/en/main-page/) as well as data aggregation and consolidation (https://fbc.pionier.net.pl/). Involved in multiple national and international projects (B2B as well as R&D). Software engineer and developer by education (Computer Science at Poznan University of Technology) with further training and practice on (agile) project management (PMI-ACP®, PMP®), user experience (UX-PM L2) as well as operations (ITIL). National coordinator for the EIFL-FOSS programme (2010-2013). PC member for iPRES 2014, iPRES 2016, iPRES 2017 and DATeCH 2017 and DARIAH AE 2019. Since 2011 a board member in the IMPACT Centre of Competence and since 2016, a Scientific and Technology Director. Since 2019 co-head of DARIAH-EU VCC3.

**Raul Palma** is the coordinator of Semantic Technologies in the Network Services division at Poznan Supercomputing and Networking Center (www.man.poznan.pl). He received his PhD in artificial intelligence (Cum Laude), with Ontologies and Semantic Web as the main subject, from Universidad Politecnica de Madrid UPM (Spain) in 2009. He also holds an MSc in Information Systems (Cum Laude), with Database and Decision Support Systems as the main subject, from Universidad Francisco Marroquin (Guatemala). His research expertise and experience include



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provenance and evolution, preservation of data and methods, ontology engineering and semantic technologies, open and linked data, complex software architectures and cloud computing. He has more than 10 years of experience in research and development projects at regional and international levels. Since joining PSNC in 2009, he has led R&D activities and the participation of the centre in different projects with a focus on the application of his research expertise in multiple fields, including telemedicine, bioinformatics, astronomy, earth science and agriculture. His work on these projects include also the leading role in PSNC during project conceptualisation and proposal preparation, the specification of software architectures, design and definition of APIs, software integration, testing and deployment, and the management of a team of software engineers and developers. Before PSNC, he worked at the Ontology Engineering Group (OEG) from UPM (Spain) as a researcher, where he contributed in different projects.

**Marek Jeżabek** is a professor at the Henryk Niewodniczański Institute of Nuclear Physics, Polish Academy of Sciences. Since 1978 he has been an employee of the Institute of Nuclear Physics of the Polish Academy of Sciences in Kraków, in 1993, he was awarded the title of professor, and since 2004 he has been the director of the Institute. From 1995–2003, he also worked at the Institute of Physics of the University of Silesia in Katowice. In his works, he deals with the theory of heavy quark production and decay, as well as the mass and oscillation of neutrinos. In 2007, he received the Marian Mięsowicz for the work QCD Corrections to Semileptonic Decays of Heavy Quarks, published in 1989. In 2013, he was awarded the Knight's Cross of the Order of Polonia Restituta.

**Andrzej Zemła** is the PLGrid Infrastructure Operation Center Manager at Academic Computer Center Cyfronet, at AGH University od Science and Technology in Krakow.



**Paweł Lubomski** is a Director for IT system development at the Gdańsk University of Technology. After gathering experience as a system and business analyst in large IT corporations, he returned to the university, where he is currently working as the Director of the IT Services Center. Scientifically, he specialises in the security issues of large distributed service systems and the construction of safe and efficient IT architectures. Manager of the "MOST Wiedzy" and "MOST DANYCH" projects, and previously the technical coordinator of the "eUczelnia" project.

**Michał Nowacki** is a Deputy Director for IT system development at IT Service Centre of Gdańsk University of Technology.

**Maciej Piasecki** works in the field of Computational Linguistics, Natural Language Processing (especially those issues which are called also Natural Language Engineering or Language Technology), Formal Semantics (of the natural language) and Human Computer Interaction. He is a professor of Wroclaw University of Science and Technology, the Chair of The National Coordinators Forum of CLARIN ERIC and the coordinator of CLARIN-PL.

#### SKILLS AND COMPETENCES

**Anna Wałek**, Director of the Gdańsk University of Technology Library, President of IATUL – International Association of University Libraries. Plenipotentiary of the Rector of the Gdańsk University of Technology for Open Science. An experienced library manager, an expert in the field of Open Science, digital libraries, as well organisationtion and management of a scientific library. She conducts scientific research in the field of research data management in various scientific disciplines, metadata for research data, and data management support services - incl. defining the role and tasks of data stewards and data librarians. She obtained a PhD of Library and Information Science in 2013. A member of severorganisationsons, working groups and bodies actively working for Open Science, incl.:



SPARC Europe Board of Directors, IATUL Board of Directors, CESAER (Conference of European Schools for Advanced Engineering Education and Research), Research Data Alliance, GO FAIR Data Stewardship Competence Centers Implementation Network (national chapter coordinator), EOSC Association delegate and task force member (TF Data Stewardship Curricula and Career Paths). Manager and coordinator of projects implemented from EU funds. Author and co-author of scientific articles, conference publications, presentations and posters related to Open Science, research support and library management. Organizer and member of program committees of national and international conferences and meetings popularising issues related to openness and FAIR-ness in science

Maria Pawłowska is an expert in scientific data management and research management and is currently the Director of International Cooperation at Visnea. Maria has many years of experience in managing international and interdisciplinary research projects and creating mechanisms for international scientific cooperation. She participated in the development of European data management guidelines, as well as expert work groups on Open Science. Over the past decade she has collaborated with, among others, the Polish and British governments, the Bill and Melinda Gates Foundation, Foundation for Polish Science and Science Europe, as well as consulted Fortune200 companies on starting up their own R&D centres and assisted with successful ERC applications. Maria defended her PhD in Earth Sciences at the University of Cambridge.

**Natalia Gruenpeter** works at the Interdisciplinary Centre for Mathematical and Computational Modelling, University of Warsaw (ICM). Her responsibilities include communication, dissemination and training activities at the Open Science Platform, an initiative run by ICM. She has been acting as an OpenAIRE NOAD in Poland since January 2019, and since 2021 a member of the EOSC TF Upskilling countries to engage in EOSC



**Natalia Galica** is an Open Science Officer at the National Science Centre, Poland. She was an Open Science Coordinator and Data Champion at the University of Silesia in Katowice (2019-2022). She graduated from University College Dublin in Ireland and the University of Silesia in Katowice. She is also a graduate of Data Steward School and Open AIRE Bootcamp Open Science Train the Trainers 2022. She was a triple scholarship grantee of the Ministry of Science and Higher Education for exceptional scientific achievements and a studentship holder at Anglia Ruskin University in Cambridge, the UK. Currently, she is a PhD candidate at the Institute of Political Sciences of the University of Silesia.

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**Rafał Leśkiewicz** is an expert at the Team for the National Repository of Science and Culture Objects, Data Management Department at the Chancellery of the Prime Minister.

**Natalia Gruenpeter** works at the Interdisciplinary Centre for Mathematical and Computational Modelling, University of Warsaw (ICM). Her responsibilities include communication, dissemination and training activities at the Open Science Platform, an initiative run by ICM. She has been acting as an OpenAIRE NOAD in Poland since January 2019 and, since 2021 a member of the EOSC TF Upskilling countries to engage in EOSC.

**Norbert Meyer** is the Director of HPC and Data Division at Poznan Supercomputing and Networking Center (PSNC), responsible for HPC, grid, cloud and data infrastructure management, security provisioning and R&D in the mentioned areas. His research interests concern resource management in distributed environments, accounting, data management, the technology of development graphical user interfaces and network security, mainly connecting independent, geographically distant domains and European e-Infrastructures' concepts. He is the author and co-author of 80+ conference papers and articles in international journals, a



member of programme committees of international ICT conferences. Norbert Meyer is the Polish delegate of e-IRG, chair of the data management task force, member of ESFRI evaluation working groups, member of EOSC Governing Board and EuroHPC INFRAG (Infrastructure Advisory Group). He coordinated EU projects: DORII and RINGRID, and several national projects, as well as Microsoft Innovation Centre and Innovation Centre of PSNC and Huawei. NM is coordinating a national project from the Polish Roadmap of Research Infrastructure focusing on HPC and Data infrastructure.

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**Michał Kotnarowski** is an assistant professor in sociology and political science at the Institute of Philosophy and Sociology of the Polish Academy of Sciences, Poland. Core methods expertise: multiple regression analysis, logistic regression, generalized linear models, R for social science scholars.

Andrzej Królak a professor at the Institute of Mathematics Polish Academy of Sciences.

**Marek Stankiewicz** is a professor at the Jagiellonian University and the Polish delegate to European Strategy Forum on Research Infrastructures/ESFRI.

**Magdalena Szuflita-Żurawska** is a Head of the Scientific Information Section at the Gdansk University of Technology Library. Her main areas of research and interests include Open Access, Open Research Data, information literacy, scholarly communication, and bibliometrics. Previously, she served as Library Assistant in Health Sciences Library at University College Dublin, Ireland. In this role, she for example provided information skills training for students. She holds her BA in Librarianship from Warsaw University, Poland and earned her Master of Science in Digital Library Management from Boras University, Sweden. Participated in numerous conferences and workshops, both national and international. She is a member of IATUL Special Interest Group for Library Services related to Research Data Management, SIG-DATA, engaged



in CESAER's activities, substantive coordinator of training programme POWER 3.4, leader of Competency Center at Bridge of Knowledge Project. She was served as an expert for the Polish National Science Centre (a member of Science Europe and CoalitionS) to conduct training for Polish universities in the field of Open Research Data and Data Management Plan.

**Raimundas Tuminauskas** is the Head of the Department of Network and Service Infrastructure at the Institute of Bioorganic Chemistry - Poznan Supercomputing and Networking Center (PSNC). Since 2018 is a chairman of GÉANT Programme Planning Committee. A member of the Board of Directors GÉANT Association in the years 2015-2021 and a chairman of LITNET expert group (2016-2019).

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**Rafał Leśkiewicz** is an expert at the Team for the National Repository of Science and Culture Objects, Data Management Department at the Chancellery of the Prime Minister.

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Infrastructures' concepts. He is the author and co-author of 80+ conference papers and articles in international journals, member of programme committees of international ICT conferences. Norbert Meyer is the Polish delegate of e-IRG, chair of the data management task force, member of ESFRI evaluation working groups, member of EOSC Governing Board and EuroHPC INFRAG (Infrastructure Advisory Group). He coordinated EU projects: DORII and RINGRID, and several national projects, as well as Microsoft Innovation Centre and Innovation Centre of PSNC and Huawei. NM is coordinating a national project from the Polish Roadmap of Research Infrastructure focusing on HPC and Data infrastructure.

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#### 9. ABOUT THE NATIONAL SCIENCE CENTRE, POLAND

NCN is a government agency supervised by the Ministry of Science and Higher Education, set up in 2011 to support basic research in Poland. Basic research is defined as empirical or theoretical endeavours undertaken to gain new knowledge of the foundations of phenomena and observable facts without any direct commercial use.

NCN funds projects in Arts, Humanities and Social Sciences, Life Sciences and Physical Sciences and Engineering. The NCN has funding schemes dedicated to researchers at different stages of their careers.

The goals of the NCN:

- supporting excellent research projects in all fields of science and humanities,
- funding doctoral scholarships and post-doctoral internships,
- financing research projects carried out by experienced researchers aimed at implementing pioneering research important for the development of science,





- inspiring international cooperation in basic research,
- supervising the implementation of the awarded research projects,
- one of the priorities of the Centre is to support and develop the scientific careers of pre-doctoral and doctoral researchers about to embark on a research career.

NCN is a mandated organisation in the EOSC Association, and a founding member of the cOAlition S.

Open Science applies to many aspects of research processes and artefacts, including access to publications, data, protocols, software or source codes. The NCN has implemented Open Access solutions concerning research data and publications. At the same time, its proposal and report assessment procedures are informed by the principles of DORA – *the San Francisco Declaration on Research Assessment*. In 2019, the NCN included a Data Management Plan (DMP) in its application forms, which is based on the guidelines of Science Europe. On 31 May 2020, the NCN adopted its Open Access Policy. The policy applies to all research agreements signed from the 1<sup>st</sup> of January 2021 onward for projects selected in calls launched on or after 15 June 2020. The policy is consistent with Plan S, signed by the NCN in 2018.

