The

EOSC Regional Event

by **NI4OS** Europe

Embedding **EOSC** *in Southeast Europe*

SEPTEMBER 28-29, 2022
BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS

DAY 1

Room 1

9:00	Registration

10:00   *Open Science Cloud in the Southeast European region and beyond*

Chair:
Prof Anastas Mishev

20 years in the making: Open Science challenges and success in Hungary
– *Dr István Szabó, Vice President, National Research, Development and Innovation Office (HU)*

2 decades of Southeast European regional cooperation
– *Dr Ognjen Prnjat, NI4OS-Europe Coordinator, Director, European Infrastructures and Projects, National Infrastructures for Research and Technology (GRNET)*

EOSC Association: technical vision
– *Rene Buch, Chief Technical Officer, EOSC Association*

EOSC as part of the EC strategy for Open Science
– *Dr Michel Schouppe, Senior expert, team leader, EOSC, Open Science Unit, DG R&I*

11:30	Coffee Break

11:50   *Pan-European Cloud: global coverage*

Chair:
Dr Michel Schouppe

EOSC-Synergy
– *Dr Ladislav Hluchý, Deputy director, Institute of Informatics, Slovak Academy of Sciences*

EOSC-Pillar
– *Federica Tanlongo, Head of External Relations & Communications, GARR*

EOSC-Nordic
– *Dr Lene Krøl Andersen, Project Coordinator, Computerome / Danish National Life Science Supercomputing Center*

Panel, including NI4OS-Europe
– *Eleni Toli, Project Director, NI4OS-Europe; Researcher, ATHENA*

13:20	Lunch

14:20   *Capacity provisioning for EOSC*

Chair:
Eleni Toli

Data Services and DICE project
– *Dr Debora Testi, DICE project coordinator, EUDAT user engagement leader, CINECA*

Computing services and EGI-ACE project
– *Dr Gergely Sipos, Head of Services, Solutions and Support, EGI Foundation*

Open publishing services and OpenAIRE-Nexus project
– *Natalia Manola, CEO, OpenAIRE*

Copernicus services
– *Dr Christian Briese, Managing Director, EODC*

15:50	Coffee Break

16:10   *EOSC-Future and the ecosystem*

Chair:
Prof Aneta Karaivanova

EOSC-Future platform: focus on Western Balkans
– *Dr Anastas Mishev, Professor, Ss. Cyril and Methodius University in Skopje*

EOSC Working Groups
– *Dr Ilias Papastamatiou, Senior Project Manager, GRNET*

Integrated training platforms and skills
– *Dr Sonja Filiposka, Professor, Ss. Cyril and Methodius University in Skopje*

EOSC Promoters in NI4OS-Europe
– *Vasiliki Koukounidou, University Officer, University of Cyprus Library*

DAY 1

Room 2

9:00	**Registration**	

11:30	**Coffee Break**	

11:50	**Life Sciences in NI4OS-Europe and the region** — *Dr Zoe Cournia, Senior Researcher, Biomedical Research Foundation, Academy of Athens*	**Session 1: Life Sciences** **Chair: Dr Zoe Cournia**
12:05	**HPC for germline variant calling pipeline for human whole genome data** — *Dr Mirjana Novkovic, Assistant Research Professor, Institute of Molecular Genetics and Genetic Engineering, University of Belgrade*	
12:20	**Epizootic rabbit enteropathy tolerance using large scale whole genome sequencing** — *Dr Kontra Levente, Research Fellow, Hungarian University of Agriculture and Life Sciences, University of Debrecen*	
12:35	**Protein-membrane interfaces using ensemble machine learning** — *Dr Alexios Chatzigoulas, Postdoctoral Researcher, Biomedical Research Foundation of the Academy of Athens*	
12:50	**Cloud platform for discovery of targeted drug delivery systems** — *Elena Kusevska, FCSE, Ss. Cyril and Methodious University in Skopje*	
13:05	**EEGHUB.GE: Brain electrical activity** — *Dr Irma Khachidze, Scientist, I. Beritashvili Center of Experimental Biomedicine*	

13:20	**Lunch**	

14:20	**Climate Science in NI4OS-Europe and the region** — *Dr Theo Christoudias, Associate Professor, The Cyprus Institute*	**Session 2: Climate & Meteorology Chair: Dr Theo Christoudias**
14:35	**Reduced precision chemical kinetics in atmospheric models** — *Kyriakos Sofokleous, PhD Student, The Cyprus Institute*	
14:50	**Airquality prediction service** — *Dr Boro Jakimovski, Professor, Dean of FCSE, Ss. Cyril and Methodious University in Skopje*	
15:05	**Computational climate science and systems in Armenia** — *Dr Hrachya Astsatryan, Head of Scientific Computing Center, National Academy of Sciences of Armenia, Yerevan*	
15:20	**Remote sensing scene classification** — *Dr Vladimir Risojevic, Associate Professor, Faculty of Electrical Engineering, University of Banja Luka*	

15:50	**Coffee Break**	

16:10	**DCH in NI4OS-Europe and the region** — *Dr George Artopoulos, Associate Professor, The Cyprus Institute*	**Session 3: Digital Cultural Heritage Chair: Dr George Artopoulos**
16:55	**Platform for document revitalization** — *Dr Tudor Bumbu, Vladimir Andrunachievici Institute of Mathematics and Computer Science*	
16:25	**2D color matching of fresco fragments with HPC** — *Dr Sofia Ivanovska, Associate Professor, Institute of Information and Communication Technologies, Bulgarian Academy of Sciences*	
17:10	**CHERE - Cultural Heritage Repository** — *Dr Mihajlo Savic, Professor, Faculty of Electrical Engineering, University of Banja Luka*	
16:40	**Marketplace for technology transfer of R&I data, software and results** — *Victor Suciu, Director, Beia Cercetare SRL*	

DAY 2		
Room 1		

8:30 **Registration**

9:00 *Policy aspects of EOSC*

Status of National Open Science Cloud Initiatives in SEE
– *Eleni Toli, Project Director, NI4OS-Europe; Researcher, ATHENA*
EOSC MAR and SRIA
– *René Buch, Chief Technical Officer, EOSC Association*
Mandated organisation case study: KIFÜ, Hungary
– *János Mohácsi, International R&D Officer, Governmental Information-Technology Development Agency (KIFÜ)*
NOSCI case study: Bulgaria
– *Dr Aneta Karaivanova, Scientific Secretary, IICT-BAS*
Joint Q&A

10:30 **Coffee Break**

10:50 *Session 2: Generic services in Southeast European region*

Chair:
Prof Boro Jakimovski

NI4OS-Europe catalogue and generic services
– *Dr Dusan Vudragovic, Assistant Research Professor, Institute of Physics Belgrade*
Hungarian HPC offering and future plans
– *Dr Tamás Máray, Head of HPC Competence Center, Governmental Information-Technology Development Agency (KIFÜ)*
DAEDALUS: upcoming HPC regional collaboration
– *Dr Evangelia Athanasaki, Deputy Director, European Infrastructures and Projects, National Infrastructures for Research and Technology (GRNET)*

12:20 **Lunch**

13:20 *Session 3: NI4OS-Europe tools for service providers*

Chair:
Dr Dusan Vudragovic

Pre-production environment and service onboarding
– *Dr Anastas Mishev, Professor, Ss. Cyril and Methodius University in Skopje*
NI4OS-Europe core services
– *Themis Zamani, Head of Implementation Unit, European Infrastructures and Projects Directorate, GRNET*
Repository onboarding
– *Milica Ševkušić, Librarian, Serbian Academy of Sciences and Arts*

14:50 **Coffee Break**

15:10 *Closing session*

Chair:
Dr Ognjen Prnjat

Open Science Cloud: Users' vision
– *Dr Ljupco Pejov, Professor, Ss. Cyril and Methodius University in Skopje*
– *Dr Zoe Cournia, Senior Researcher, Biomedical Research Foundation, Academy of Athens*

DAY 2

Room 2

8:30	Registration

9:00	**Computational physics in NI4OS-Europe and the region** *– Dr Bojana Koteska, Assistant Professor, Ss. Cyril and Methodius University in Skopje*	**Session 4: Computational Physics** **Chair: Dr Bojana Koteska**

| 9:15 | **A more exact interpretation of IRMPD spectroscopic data analysis**
 – Blagoj Achevski, Research Assistant, Faculty of Pharmacy, Ss. Cyril and Methodius University in Skopje |

| 9:45 | **Engineering pharmaceutical crystals**
 – Dejan Kuneski, Researcher, Department of Research and Technological Development, ALKALOID AD SKOPJE |

| 10:00 | **Study of magnetic properties of nanoclusters**
 – Dr Yurii Chumakov, Leading Scientific Researcher, Institute of Applied Physics |

| 10:15 | **Transport in strongly interacting electron-phonon systems**
 – Dr Veljko Jankovic, Assistant Research Professor, Institute of Physics Belgrade |

| 10:30 | **Properties of the square-lattice Hubbard model**
 – Dr Sonja Predin, Assistant Research Professor, Institute of Physics Belgrade |

10:45	Coffee Break

11:05	*Session 1: Open Research Data Management tools*	**Chair:** **Milica Ševkušić**

Tools for researchers and support to policies
– Dr Branko Marović, Deputy director, RCUB, University of Belgrade
License clearance tool
– Panagiota Koltsida, Research Associate, ATHENA
EOSC RoP Legal and ethics compliance with RoLECT
– Eleni Toli, Project Director, NI4OS-Europe; Researcher, ATHENA

12:35	Lunch

13:35	**Audio-video-based transport control** *– Dr Slobodan Djukanovic, Faculty of Electrical Engineering, University of Montenegro*	**Session 5: Other/Inter-disciplinary Services** **Chair: Dr Andreas Athenodorou**

| 13:50 | **Sandpaper: exporting edge computing to EOSC**
 – Dr Katja Gilly, Associate Professor, Miguel Hernández University |

| 14:05 | **Open access web application for metric skeletal sex estimation**
 – Dr Chrysovalantis Constantinou, Computational Scientist, The Cyprus Institute |

| 14:20 | **Cloud service for automatic image mosaicking and georeferencing**
 – Dr Milutin Radonjić, Associate Professor, Faculty of Electrical Engineering, University of Montenegro |

| 14:35 | **Phase transition recognition using deep learning autoencoders**
 – Dr Srijit Paul, Postdoctoral Researcher, University of Edinburgh |

14:50	Coffee Break