Institute of Informatics & Telecommunications

DARE, DEEP & XDC Co-organized Workshop
Creating Platform-driven e-infrastructure innovation in EOSC

Welcome & Introduction

Georgios Nounesis  
Director & Chairman of the Board

Vangelis Karkaletsis  
IIT Director

National Centre for Scientific Research “Demokritos”
Institute of Informatics & Telecommunications
NCSR “Demokritos”
National Research Infrastructures at NCSR

**INNOVATION-EL**
Nanotechnology, Advanced Materials and Micro/Nanoelectronics

**OPEN SCREEN**
Chemical Biology and Target-Based Screening for Health, Agriculture and the Environment

**CALIBRA**
Cluster of Accelerator Laboratories for Ion-beam Research & Applications

**APOLLONIS**
Digital Arts, Humanities and Language Research

**PROMETHEUS**
Integrated Energy Chain

**BIOIMAGING**
Visualizing and Monitoring Fundamental Biological Processes

**EN.I.R.I.S.T:** Intelligent Research Infrastructure for Shipping, Supply chain, Transport & Logistics

**PANACEA:**
Panhellenic Infrastructure for Atmospheric Composition and Climate Change

**deTANet:**
Detector Development and Technologies for High Energy Physics

**INSPIRED:**
Integrated Structural Biology, Drug Screening Efforts and Drug Target Functional Characterization

Institute of Informatics & Telecommunications
NCSR “Demokritos”
Institute of Informatics & Telecommunications (IIT)

1958: Electronics Department
1968: Computers Department
1975: Telecoms Division
1987: IIT foundation

Pioneer at a national level:
- Computer and network infrastructures
- Informatics services
- Artificial Intelligence
- Communication networks

Aims at advancing knowledge in the areas of telecommunications, networking, World Wide Web technologies and Intelligent Information Systems, for the benefit of the society and the knowledge economy.
IIT Identity and Distinctive Character

- Focuses on Intelligent Computing and Networking
- Invests heavily on research around Artificial Intelligence, Data Science, Augmented and Virtual Reality, 5G networks
- Is very active in the higher education landscape, participating in cross-institutional MSc programs, establishing joint PhD programs, organising seminars and summer schools
- Establishes close ties with industrial stakeholders and particularly innovative start-ups and spinoffs of Lefkippos Technology Park
- Invests significant resources to communicate the produced scientific knowledge

IIT acts as the epicenter of NCSR-D plan for fully embracing AI and data-driven science for its scientific activities.
NCSR and e-infrastructures

- Leadership/participation in multiple national and international projects and initiatives

- Intra-centre promotion and support of Open Science through e-infrastructure research and services
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Institute of Informatics & Telecommunications
NCSR “Demokritos”
The EINFRA-21-2017 Family

- 6 projects handling different yet interconnected aspects of an e-infrastructure solution
- harmonize and exchange solutions
- build and promote a holistic vision for European e-infrastructures
- collectively align with the goals and evolution of the EOSC vision
The EOSC Vision

- Layered implementation of the global vision for Open and Reproducible Science
- Long-term funding of multiple relevant projects and actions
- E-infra projects span the entire spectrum of its implementation roadmap
- They are especially critical for its technical sufficiency and sustainability
- They should adhere to the requirements and expectations of the underlying infrastructures
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<tr>
<td>09:00-09:30</td>
<td>Registration</td>
<td>G. Nounesis, V. Karkaletsis</td>
<td>NCSR &quot;Demokritos&quot;</td>
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<tr>
<td>09:30-09:50</td>
<td>Welcome &amp; Introduction</td>
<td>G. Nounesis, V. Karkaletsis</td>
<td>NCSR &quot;Demokritos&quot;</td>
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<td>09:50-10:10</td>
<td>National Perspective</td>
<td>Agnes Spilioti</td>
<td>General Secretariat for Research and Technology</td>
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<td>10:10-10:30</td>
<td>EOSC Status &amp; Perspectives</td>
<td>Georgia Tzenou</td>
<td>European Commission</td>
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<td>10:30-11:00</td>
<td>DARE: Delivering agile excellence on European e-infrastructures</td>
<td>Malcolm Atkinson</td>
<td>The University of Edinburgh</td>
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<td>11:00-11:30</td>
<td>DEEP-Hybrid-DataCloud: intensive computing techniques for applications needing specialised hardware</td>
<td>Mario David</td>
<td>Laboratory of Instrumentation and Experimental Particle Physics (LIP)</td>
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<td>11:30-12:00</td>
<td>Coffee Break</td>
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<td>12:00-12:30</td>
<td>XDC - eXtreme Data Cloud: Scalable data management services for the next generation distributed e-infrastructures</td>
<td>Daniele Cesini</td>
<td>Istituto Nazionale di Fisica Nucleare</td>
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<td>12:30-13:00</td>
<td>EUXDAT: The e-Infrastructure for large data analytics in agriculture</td>
<td>Francisco Javier Nieto</td>
<td>Atos</td>
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<td>13:00-13:30</td>
<td>PROCESS: Towards Exascale-ready Data Service Solutions</td>
<td>Maximilian Höb</td>
<td>Ludwig-Maximilians-Universität München</td>
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<td>13:30-14:30</td>
<td>Lunch Break</td>
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<td>14:30-15:00</td>
<td>FREYA: Connected Open Identifiers for Discovery, Access and Use of Research Resources</td>
<td>Vasily Bunakov</td>
<td>Science and Technology Facilities Council</td>
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<td>15:00-15:30</td>
<td>ExtremeEarth: AI and Big Data Techniques for Copernicus Data</td>
<td>Manolis Koubarakis</td>
<td>University of Athens</td>
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<td>15:30-16:00</td>
<td>FAIR for Fusion Data-driven Research</td>
<td>Pär Strand</td>
<td>Chalmers University of Technology</td>
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<td>16:30-16:30</td>
<td>Coffee Break</td>
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<td>16:30-17:00</td>
<td>Implementing Open Science in EOSC: putting the puzzle together</td>
<td>Natalia Manola</td>
<td>University of Athens</td>
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<td>17:00-17:30</td>
<td>EOSC-hub: Services for the European Open Science Cloud</td>
<td>Kostas Koumantaros</td>
<td>GRNET</td>
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<td>17:30-18:00</td>
<td>Open discussion &amp; Workshop Conclusion</td>
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