

## NI4OS-Europe project and EOSC activities of GRENA

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### National Initiatives for Open Science in Europe (NI4OS-Europe)

O About GRENA

 $\odot$  EOSC activities of GRENA



2 - 4 November 2022 Tripartite Event | Georgia



### **Project administrative summary**

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- Name: National Initiatives for Open Science in Europe (NI4OS-Europe)
- Horizon 2020 call: INFRAEOSC-05 (b) Coordination of EOSC-relevant national initiatives across Europe and support to prospective EOSC service providers - Research and Innovation Actions
- Duration: 01/09/2019-31/08/2022
  (36 Months) + 6 Months
- Amount of EC funding 5,599,475 Euro
- 22 Partners from 15 countries



NIXOS Mission



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#### Jupport

Europe

the development and inclusion of the national Open Science Cloud initiatives in 15 Member States and Associated Countries in the overall scheme of EOSC governance



**Spread** the EOSC and FAIR principles in the community and train it

**Provide** technical and policy support in onboarding of the existing and future service providers into EOSC



## EOSC national initiatives and policy support



Support the National Open Science Cloud Initiatives in 15 South East Europe countries

- Organization dissemination events and workshops
- >1000 stakeholders approached, 575 responses on survey received <u>https://ni4os.eu/os-stakeholders-map/</u>
- 10 NOSCIs established, 9 MoUs signed
- EOSC Association membership: 5 Mandated Organizations, 5 Members, 3 Observers
- Participation in EOSC Task forces: 25
- Presentation at EOSC events and conferences

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## Federation and on-boarding mechanism and tools

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 Pre-production environment: service catalogue management system, helpdesk, Software repository, authentication & authorization, monitoring, accounting, Wiki, training portal, event system
 Development of policies and

integration procedures

#### 🗎 wiki.ni4os.eu • Pre-production environment **Resource portfolio management tool** https://agora.ni4os.eu/ NI4OS RPMT implements EOSC Profiles v3.0 and it has an extensive API available at https://agora.ni4os.eu/api/v2&. It is tightly integrated with NI4OS-Europe AAI and in order to get access one needs to login and then send an request to be given the appropriate rights as a Provide Admin or a Resource admin. More info on how to add resources in agora can be found at Agora Guide for Resource Providers **Configuration Management Database** https://gocdb.ni4os.eu/portal/@ Authentication & Authorisation Infrastructure (AAI) service Integration Guide for Service Providers Monitoring service ARGO monitoring service: https://argo.ni4os.eu@ Integration Guide for Service Providers Training Training platform https://training.ni4os.eu/@ Training events https://events.ni4os.eu/category/2/d/ Training organization procedures Service on-boarding · Service on-boarding team Service on-boarding procedure Categorization Service categorization Technology Readiness Level



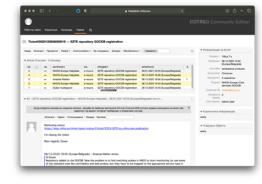
## ORDM standards, processes, tools and certification schemes

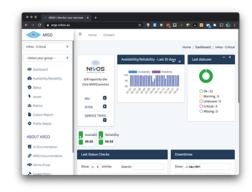


 Implementation and adoption of tools, standards and guidelines
 Harmonization and interoperability within and across communities and with core initiatives
 Development and application of certification schemes
 Analysis to improve the uptake of Open Research Data

Management and FAIR principles

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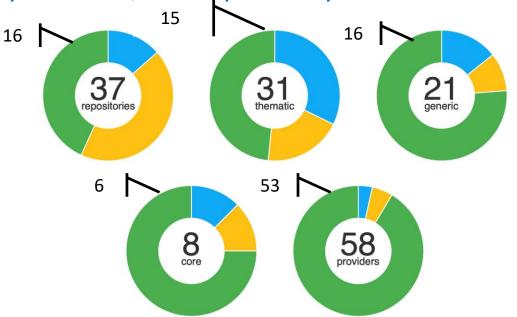


and EOSC

Service provider integration, onboarding and horizontal service maintenance



- Support non-commercial services (generic, thematic, repository) to be accessed through the EOSC portal
- Provision of technical support to service providers for interoperability and integration into EOSC
- Securing and implementing interoperability between national services

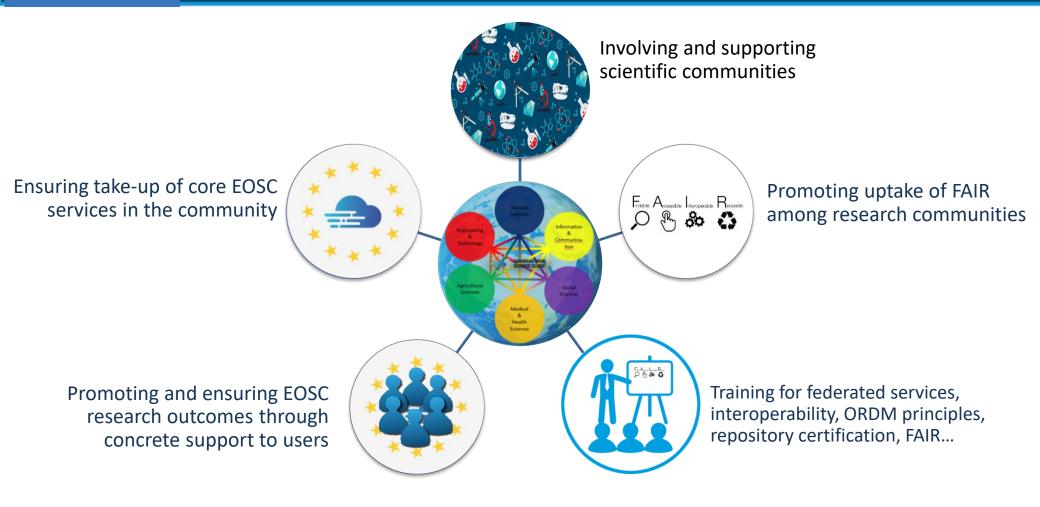




## User engagement, training and demonstrators



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# Communication, marketing, sustainability, innovation

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#### **Communication platform**

<u>https://ni4os.eu/</u>
https://ni4os.eu/calendar
http://events.ni4os.eu/
🕐 <u>NI4OS_eu</u> 🕧 NI4OS 🔞 ni4os.eu





#### **Promotional material**

Brochure, posters, presentation, roll up banners, web banners



#### **Dissemination events**



#### Sustainability and innovation

**COVID-19 webpage:** fast track access to services, tools and software for the scientific communities that perform extensive research to tackle COVID-19 <u>https://ni4os.eu/ni4os-europe-vs-covid19</u>

Find solutions for sustainable and long-term impact of project results

Manage knowledge and results so as to create added value for different stakeholders

## **GRENA** main fields of activities



- Providing Information Technology services to users and implementation of new, innovative services
- Preparation and implementation of international and national research and technology projects (GN4-3, EaPConnect, NI4OS-Europe, MENVIPRO, CyberEDU)
- IT education (Cisco Networking Academy, Linux Professional Institute, Oracle and SQL courses, e-Learning center, Pearson VUE certification)
- $\odot$  Promoting and supporting IT development in Georgia





### Main services



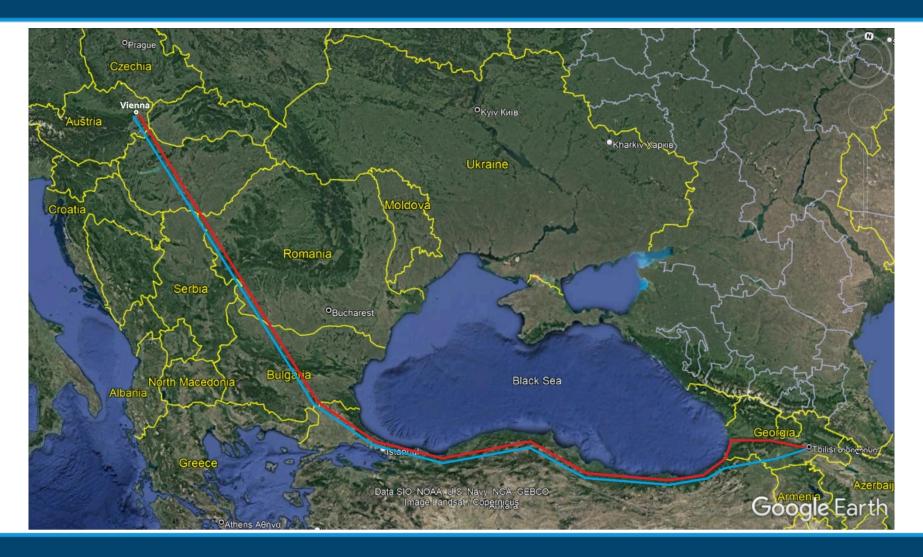
- GÉANT and internet connectivity
- VPN Virtual Private Network
- Network traffic monitoring and analyses
- o eduroam education roaming
- o eduGAIN authentication and authorization
- O Cloud, Virtualization
- Cybersecurity
- Country top-level domain registration .ge and .გე
- Software licences and subscriptions



### **GRENA** international connectivity

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## **Cloud and virtualization services**



Number of facilities	CPU core	RAM TB	Storage/Backup TB
2	750	13.0	85/760

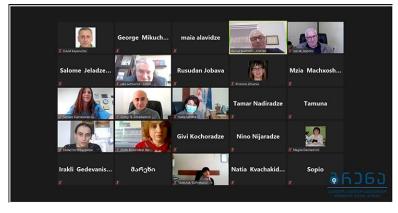
- Users: research applications, universities, libraries, hospitals, media, government, NGO, etc.
- Research applications in weather forecast, climate change study, biomedicine, particle physics, mathematics, etc.
- $\circ$  Number of users 80
- Cloud (OpenStack) and Virtualization (ProxMox)
- Remote backup datacenter at NewTelco 40 Gbps connection capacity to main datacenter

Open Science Forum - Georgia, 02.11.22, Tbilisi

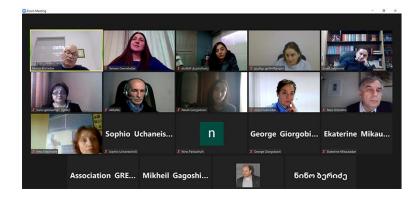
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## COCOSC Involvement of GRENA in EOSC

- $\odot$  Dissemination events
- $\circ$  Trainings
- Support of different type of stakeholders to provide response on survey
- Working with universities and research teams concerning EOSC development
- In November 2021 MoU on European Open Science Cloud EOSC Initiative in Georgia was signed, currently 16 organizations
   Participation
  - EOSC Task Force on Financial Sustainability
  - EOSC development working group in Georgia
  - Horizon Europe National Program Committee



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## **OCC** Involvement of GRENA in EOSC

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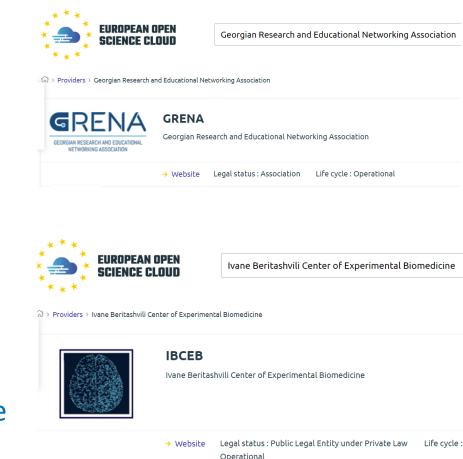
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Integrated in EOSC Marketplace resources

- GRENA GCould IaaS platform with wide range of applications <u>https://www.gcloud.ge/</u>
- Center of Experimental Biomedicine Electroencephalography pattern study <u>https://eeghub.ge/</u>
- National Science Library repository of publications <u>https://openscience.ge/</u> registered in OpenAIRE

GRENA is providing GCould resources to the

EU research community according to the NI4OS-Europe open call





Thank you for attention ramaz@grena.ge

**Questions?** 

