

**National Infrastructures for Research and Technology**  
**GRNET S.A.**

**CORPORATE PRESENTATION**



# **MISSION**

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**National Infrastructures for Research and Technology - GRNET's mission is to offer an integrated environment of cutting-edge technologies, model digital solutions, infrastructures and specialized expertise which contributes to the modernization and digital advancement of the overall citizen experience in the fields of Public Administration, Education, Research, Health and Culture.**





# ROLE

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- Design and development of advanced information systems and e-Infrastructures to achieve Greece's Digital Transformation goals
- Design, development and maintenance of advanced information systems, computing- network infrastructures and cloud services
- National Infrastructure Development: 6 data centers
- Operation of the national high performance computing system (HPC-ARIS)
- Operation of GR-IX: The Greek Internet Exchange
- Operation of the national fiber optic network
- Provision of international cross-connectivity through the GEANT pan-European network
- Implementation and management of European, International and National Projects
- Artificial intelligence: formulating a national strategy
- Development of citizens' digital skills

# GRNET at a glance

**Develops advanced information systems and e-Infrastructures to achieve Greece's Digital Transformation goals**



**Develops and operates the single digital gateway Gov.gr**



**Manages a portfolio of 40 advanced Services  
45 National and European Projects**



**Serves hundreds of thousand of users**

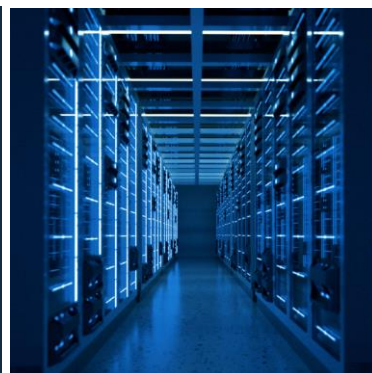


**Operates the optical fiber network 10.000 km**



**Develops and maintains National Infrastructure**

- 6 Data Centers
- National Supercomputing Infrastructure
- National HPC Competence Center
- GR-IX Greek Internet Exchange



**Develops lessons and initiatives for the digital skills of citizens**



**Connects International Research and Academic Communities for the dissemination of research and science**



## GRNET in numbers

- > **150** universities, research centers, hospitals, cultural centers
- > **15.000** schools
- Nx**10 Gbps** dark fiber backbone
- Access **1 || 10 Gbps** per institution
- International connectivity through GÉANT network multiple **10 Gbps**
- **535 TFlops** HPC Tier–1 centre, member of PRACE
- **6** DataCenters (EKT, Ypeph-Marousi, Louros Arta, Heraklio Crete), hosting:
  - **134** racks,
  - **2000+** servers,
  - **11.500** Virtual Machines,
  - **3 PB** disk storage,
  - **5 PB** tape



# GRNET's Contribution

01

improvement of **citizen's experience in receiving public services** through the implementation of the National Digital Strategy 2020-2025

02

constitution of a more **extroverted Greek Research and Education community**,

03

technology enhancement of the **Health sector**

04

enhancement of the **educational processes**

05

creation of **new models of cooperation** amongst public agencies, research and education communities, citizens and businesses.

# Users

Serving daily users in the sectors of:  
**Public Administration, Education, Research, Health, Culture**



grnet@government



grnet@education



grnet@research



grnet@health



grnet@culture



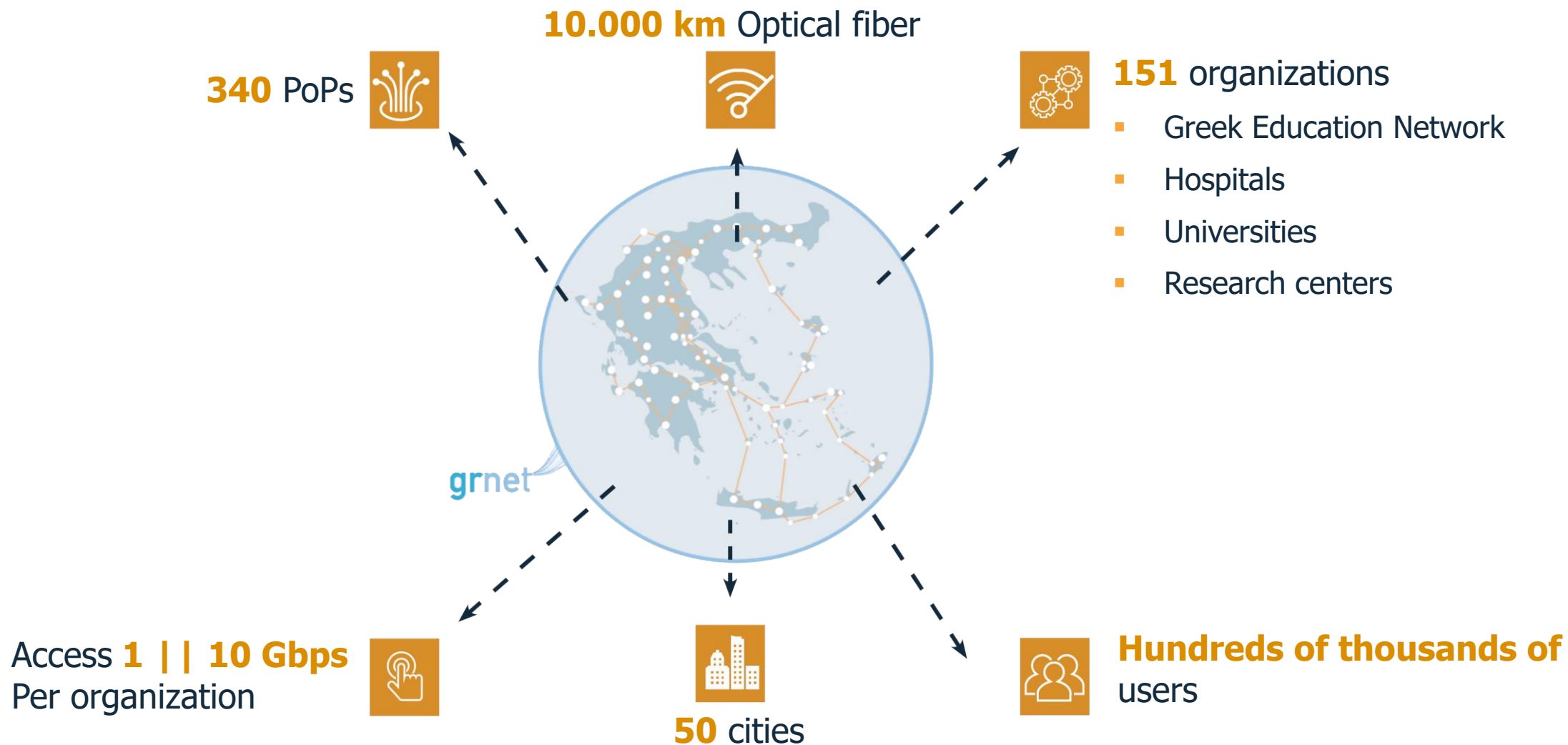
## Organizations and Institutions

- Universities
- Research Centers
- Large Research Infrastructures
- Hellenic School Network
- Public Libraries
- Culture Centers
- Content Providers
- Public Administration sector
- Public Health Sector (Hospitals, Blood Donation/Transfusion Services)

## Users

- **Academic and Research Community users**  
(Students, Professors, Researchers, Academic and Administration Management, Network Operations Centers (NOC), Technical Staff)
- **Health Sector users**
- **Hospital: Doctors, Administration, Management, NOC, Technical**
- **Blood Donor Volunteers**
- **Public Administration Officers**
- **Citizens**

# Network Connectivity

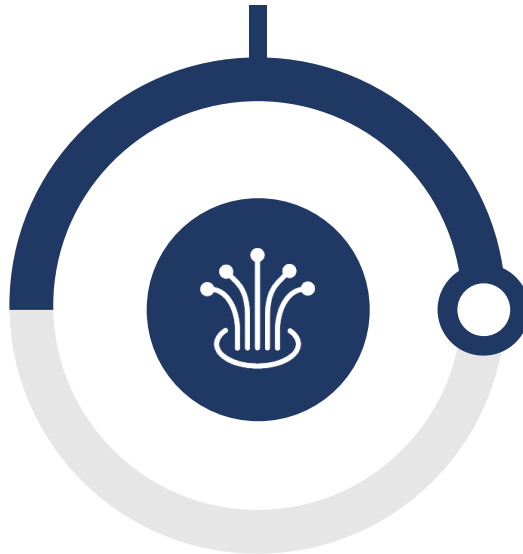




# e-Infrastructures & Services

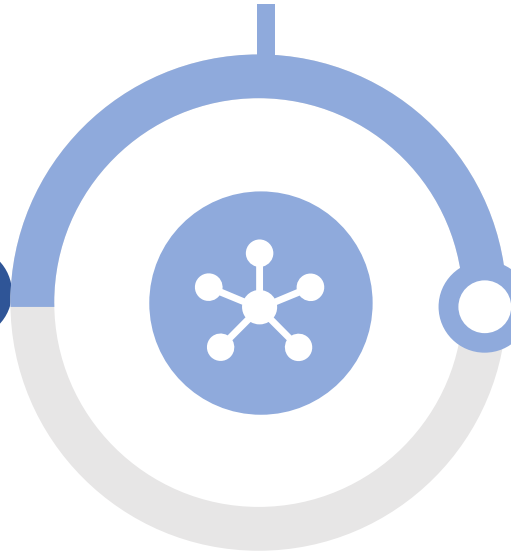
## National optical fiber network

GRNET backbone infrastructure  
Connection to GRNET Network



## GR-IX: National infrastructure

Interconnecting internet companies in Greece:  
Providers of Internet services, content, cloud services



## HPC (High-Performance Computing)

HPC services to the Greek R&E community

- National Supercomputer Infrastructure HPC - ARIS
- National Competence Center EuroCC@Greece HPC Hub
- Prace Training Center

## e-Infrastructures GRNET

Electronic Infrastructures of high reliability  
for the Research & Academic community  
with advanced and environmentally friendly data  
centers

# Computing Infrastructures

- **33.101** ~okeanos cloud users
- **6** data centers in 3 geographic locations
- **2.000** servers
- **11.500** active VMs
- **5.200** datacenter network ports in total
- **10.000** active cloud users
- An optical network of a maximum capacity of **1 Tbps** for the datacenters

Louros River, Arta



Heraklion, Crete



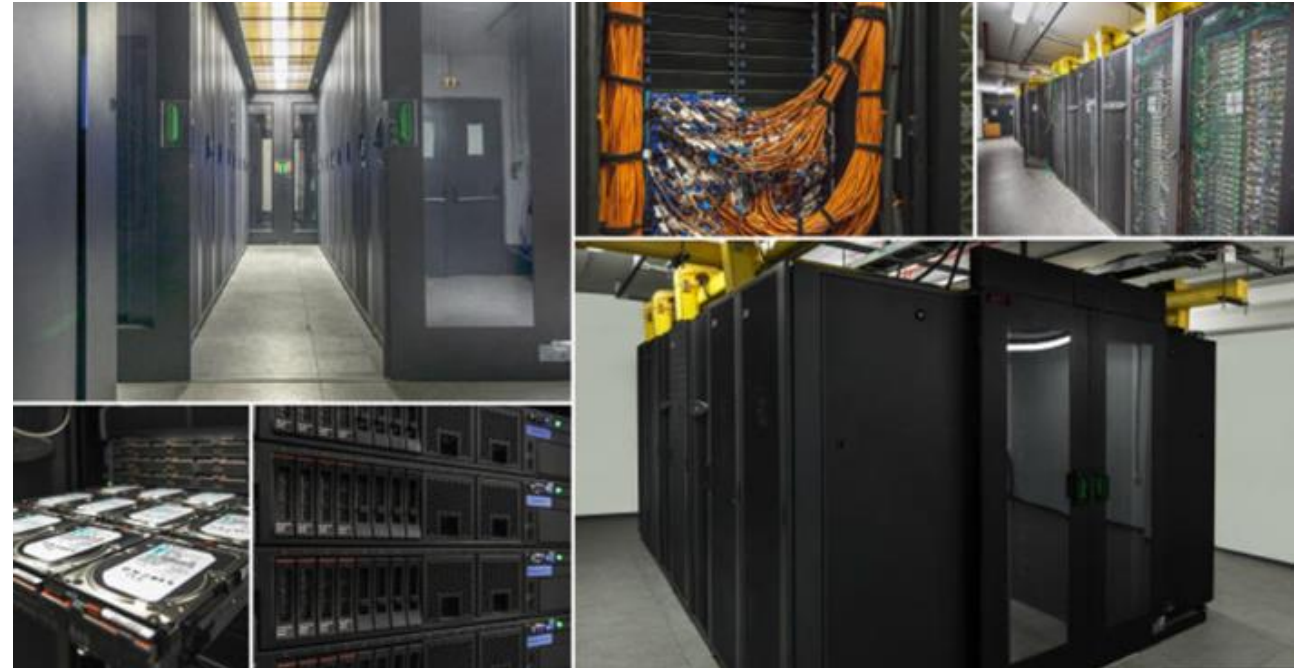
Ministry of Education, Marousi



# National HPC Infrastructure

## ARIS - HPC

- **5** computational islands, **535** compute nodes
- **2 PB** of storage space
- **535 TFlops** HPC Tier - 1 centre
- **1.100** HPC projects
- **58.200** core Years (510 million core Hours) during the last **7** years
- GRNET is a PRACE Training Center

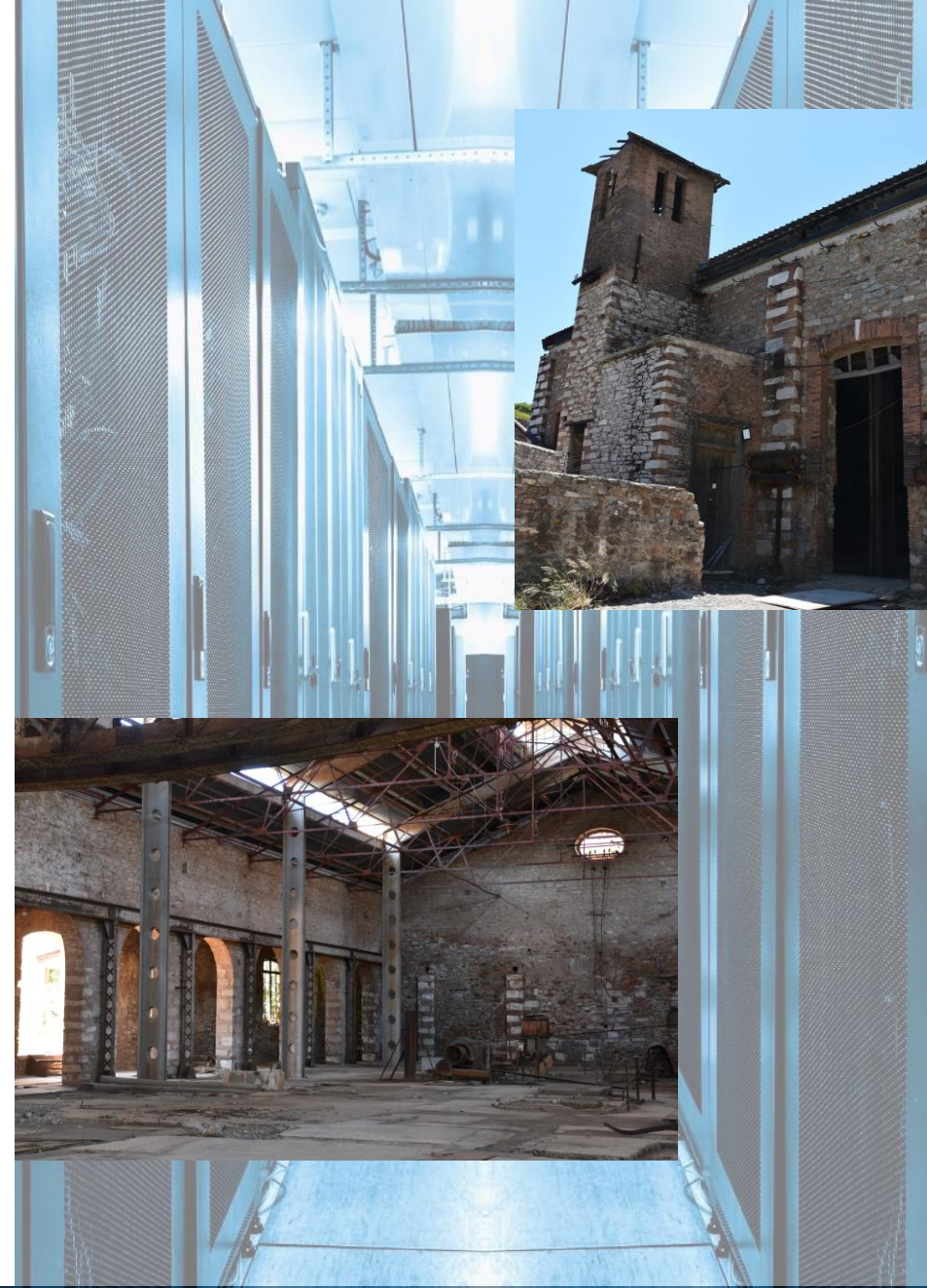




# New National Supercomputer

## DAEDALUS

- **2024** installation at the Lavrion Technological and Cultural Park
- **33M euros** Build Cost (30% EuroHPC, 70% «Greece 2.0»)
- **30** Petaflops power
- Low energy cost of operation (powered by renewable energy sources and cooled by environmental friendly technology)
- Support of scientific research and innovative SMEs/industry with high computational capacity



# GR-IX The Greek Internet Exchange

**GR-IX is an important national infrastructure that aims to help the growth of the Greek Internet as it interconnects all significant Internet players in Greece.**

With four POPs in Athens and Thessaloniki, GR-IX is the only Internet Exchange in Greece, GR-IX customers enjoy:

- Reduced telecommunication costs;
- Improved network connectivity in terms of speed, capacity, stability and resilience;
- Greater proximity to their traffic producers and consumers;
- New business opportunities and enhanced market position.



**CONNECT. PEER. EXPAND.**

POWERED BY **grnet**

# **SERVICES AND PROJECTS**

## **40 Services**

- Network and Connection Services
- Computational and Storage Services
- Data Services
- Identification & Security Services
- Sound, Voice and Visual Services

## **45 National & European Projects**

- Digital Governance
- Infrastructures & Services (Network, Computational, Connection, Storage, Cloud, Digital Content)
- Open Science
- Green Actions



# SERVICES

## INTERNET



## SOUND AND IMAGE



## CLOUD COMPUTING



## SECURITY



## AUTHENTICATION



- **HPC-ARIS:**
- **~okeanos:**
- **ViMa:**
- **GR-IX:**
- **eduroam:**
- **DIADOSIS:**
- **Harmoni:**
- **Blood Donor Registry:**
- **ZEUS:**
- **Eury-where:**

[hpc.grnet.gr](http://hpc.grnet.gr)  
[okeanos.grnet.gr](http://okeanos.grnet.gr)  
[vima.grnet.gr](http://vima.grnet.gr)  
[gr-ix.gr](http://gr-ix.gr)  
[eduroam.gr](http://eduroam.gr)  
[diadosis.grnet.gr](http://diadosis.grnet.gr)  
[harmoni.grnet.gr](http://harmoni.grnet.gr)  
[bdr.gr](http://bdr.gr)  
[zeus.grnet.gr/zeus](http://zeus.grnet.gr/zeus)  
[eury-where.gr](http://eury-where.gr)

- **e:Presence:**
- **DIAVLOS:**
- **Academic IDs:**
- **FoD:**
- **Security CERT:**
- **Eudoxus:**
- **APELLA:**
- **ATLAS:**
- **PYXIDA:**
- **Single Digital Portal**

[epresence.gr](http://epresence.gr)  
[diavlos.grnet.gr](http://diavlos.grnet.gr)  
[academicid.minedu.gov.gr](http://academicid.minedu.gov.gr)  
[fod.grnet.gr](http://fod.grnet.gr)  
[cert.grnet.gr](http://cert.grnet.gr)  
[eudoxus.gr](http://eudoxus.gr)  
[apella.minedu.gov.gr](http://apella.minedu.gov.gr)  
[atlas.grnet.gr](http://atlas.grnet.gr)  
[pyxida.grnet.gr](http://pyxida.grnet.gr)  
[gov.gr](http://gov.gr)

# PROJECTS

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GRNET coordinates or actively participates in more than 45 currently ongoing National, European and International projects for the development of infrastructures and services

- **Funding from national resources**, NSRF, RFF (Recovery and Resilience Facility) and European Funds
- Developing **partnerships at national and European level**. The extroversion of GRNET ensures user access to international research and educational technological infrastructure and services for the utilization of Information and Communication Technologies, with mutually beneficial synergies.
- **International recognition of GRNET know-how**



# INTERNATIONAL COLLABORATIONS

GRNET facilitates the evolution and proliferation of research and technology, by offering opportunities to all its users to develop their academic and scientific activities.

Our teams of professionals collaborate with key partners, through national, European and international partnerships, adopt and advance state-of-the-art digital technologies, with the aim to support continuous growth and excellence for the benefit of the Greek society.



# INTERNATIONAL COLLABORATIONS



European collaboration  
on e-infrastructures and  
services for Research  
and Education



Federated e-Infrastructure  
set up for the provision of  
advanced computing  
services



European Open  
Science Cloud



Collects, stores and  
provides access to data  
from the Sentinel satellites  
of the Copernicus Earth  
Observation program



PARTNERSHIP FOR ADVANCED  
COMPUTING IN EUROPE

Partnership for Advanced  
Computing in Europe



European Technology  
Platform for High  
Performance Computing



Integrating existing archeological  
data infrastructure across Europe  
to explore research  
methodologies



European Persistent  
Identifiers Service



The European Internet Exchange  
Association for strengthen and  
improve the Internet Exchange  
Point (IXP) community



Collaborative  
Data Infrastructure  
Data shared and preserved across borders and disciplines

Collaborative Data  
Infrastructure

# **Advanced e-Infrastructures & Services**

## **for Public Administration**



# Digital Transformation



## Digital Transformation Advisor

- Promotion of the **National Strategy for Digital Transformation** with emphasis on the Greek Public Administration
- Creating the **prerequisites for Research & Development** in the field of Digital Governance
- Design of modern **interoperable information systems** and services
- Development **of tool, methodologies and best practices**



## National Academy for Digital Skills

- Implementation of the Digital Governance Ministry Strategy for **Digital Competence Development**
- Development of **education and training activities**
- Development of **initiatives for awareness** and information



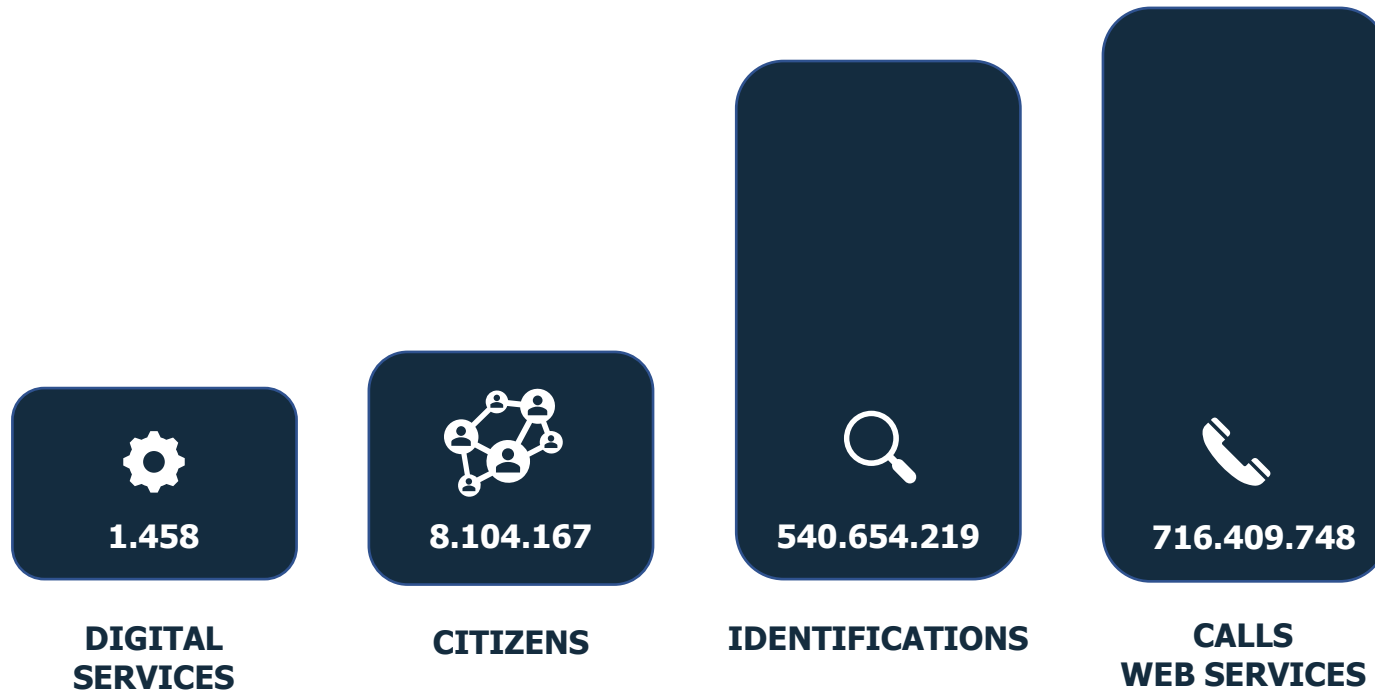
## Artificial Intelligence Strategy

- Drafting the **National Strategy on Artificial Intelligence** for the Public and Private Sectors
- Development of “Harmoni for Covid” Artificial Intelligence/Deep Learning System for rapid and reliable diagnosis of coronavirus-COVID 19 using medical imaging



# Single Digital Portal @gov.gr

Direct service to citizens and businesses  
in their daily transactions with the public  
sector

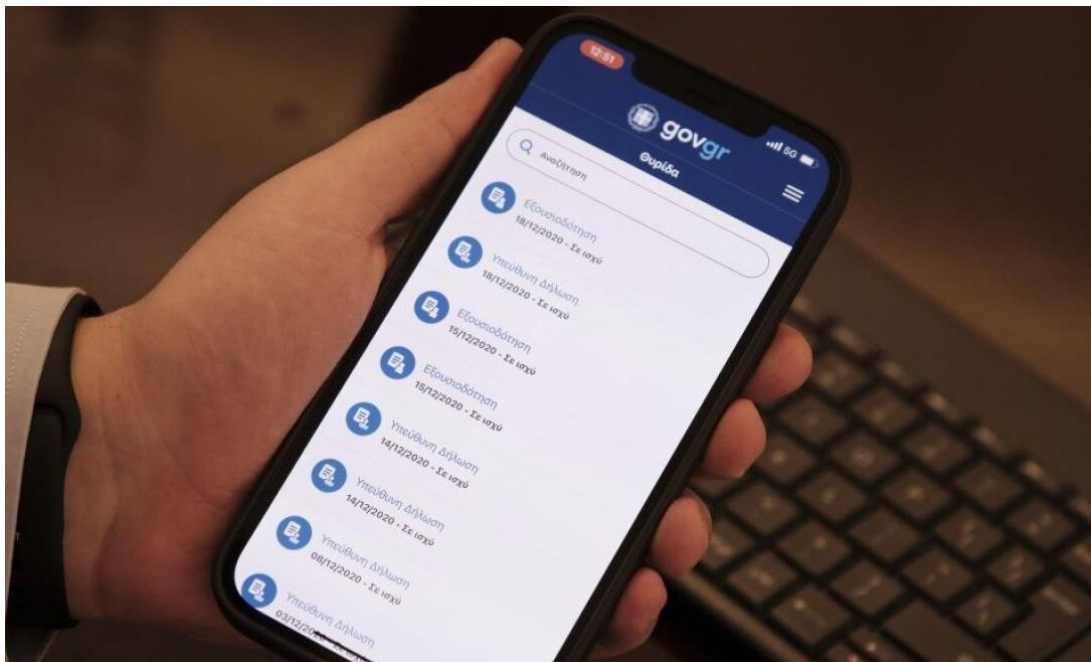


## Indicative Services gov.gr

- Formal Declaration
- Authorization Form
- Digital Signature of Private Contracts
- Naming of Minors (registry)
- EU Digital COVID Certificate
- Covid Free GR mobile app
- COVID-19 self-tests declaration
- Certificates about positive or negative COVID-19 test
- Platform edupass.gov.gr gr for issuing a COVID-19 student card for all public schools and academic entities
- Issuance of citizens' movement official forms during the COVID-19 pandemic
- University admission exams: information about the results by sms
- Digital graduation diplomas for graduates of high schools, lyceums and vocational lyceums

# Single Digital Portal @gov.gr

**Direct service to citizens and businesses  
in their daily transactions with the public  
sector**



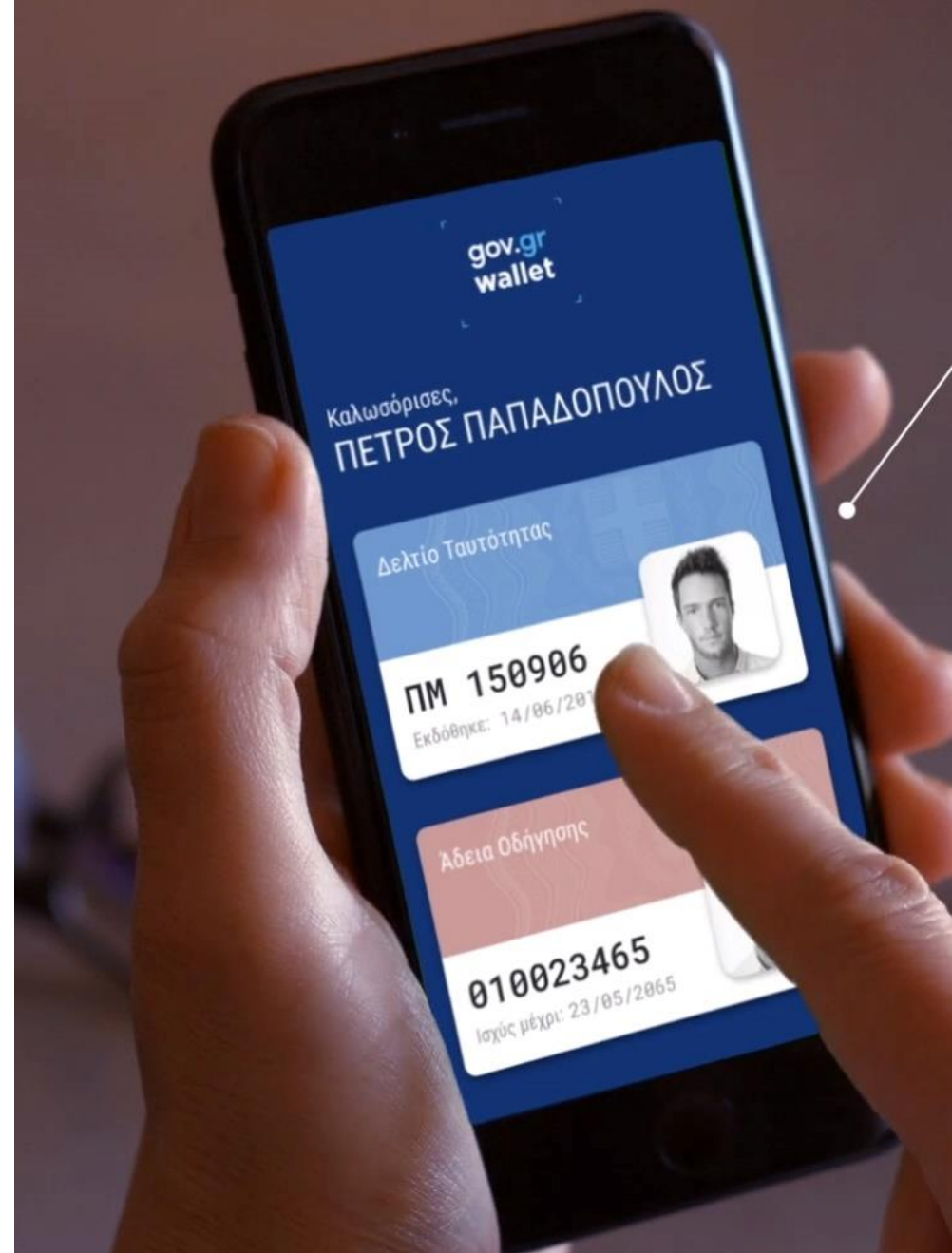
## Indicative Services gov.gr

- Copy of criminal record
- Application for the issuance and control of the validity of e-documents
- Application for issuing and downloading in e-form, of temporary driving license
- "MyAuto" service provides real-time access to all vehicle details and Open Car for finding information about vehicles

# Applications for citizens

## Gov.gr Wallet

- Gov.gr Wallet enables the creation, storage and control of new digital identity cards and digital driver's licenses.
- The new digital identity cards and driver's license are digital documents issued through gov.gr and are fully equivalent to paper documents, for any legal use within Greece.
- Implementation by GRNET, in cooperation with the Ministry of Digital Governance.





# Applications for citizens

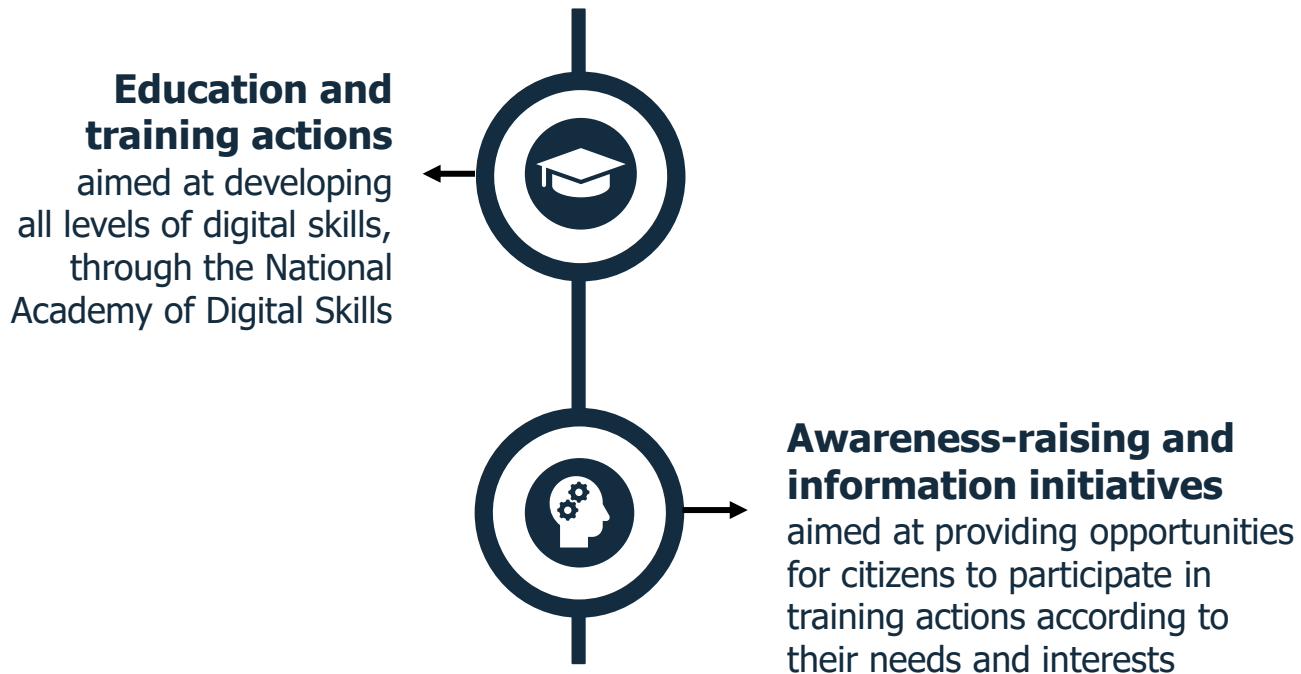
## EU Digital COVID Certificate

- The EU Digital COVID Certificate can be used by citizens as a record of proof for vaccination, a diagnostic test result, or recovery from coronavirus.
- In Greece, the certificate will be issued through the gov.gr portal.
- Implementation by GRNET, in cooperation with IDIKA SA – e-Government Center for Social Security Services and the participation of the General Secretariat of Information Systems for Public Administration.



# Development of digital skills

GRNET is responsible for the implementation of the Digital Governance Ministry's strategy for the development of citizens' digital skills. The strategy is realized through 2 pillars:



# Development of digital skills

The National Academy for Digital Skills

[www.nationaldigitalacademy.gov.gr](http://www.nationaldigitalacademy.gov.gr) gathers

digital educational content for the development of citizens' digital skills and aims to act as the national portal for digital skills in the country.



**Εθνική Ακαδημία  
Ψηφιακών Ικανοτήτων**

## **299 Available Lessons / 38 Providers**

Courses according to the needs, interests and level of knowledge of each citizen through asynchronous education. Use of a self-evaluation tool and suggestions for personalized thematic chapters.

## **“Digital Citizen” Lessons**

Participation in the series of lessons ‘Digital Citizen’, consisting of five courses for the development of basic digital skills. The courses developed are based on the European Digital Competence Framework (DigiComp).

## **Initiatives**

Participation for citizens in awareness-raising, information and empowerment initiatives to cultivate digital culture and develop computational thinking.



# Awareness-raising initiatives

- Women



## Women in Tech

**Women in the Technology Sector: Today and in the Future**

[www.womenintechgreece.gr](http://www.womenintechgreece.gr)

An initiative that aims to raise awareness, inform and encourage women to pursue a career in the field of technology.

- Elderly



## 3η e-λικία

**Empowerment of the Elderly**

[www.3elikia.gr](http://www.3elikia.gr)

An initiative that aims to digitally empower citizens 65+. The program was launched in the municipalities of Florina, Kavala, Athinaion, Ioannina, Korydallos.

# **Advanced e-Infrastructures & Services**

## **for Education, Research, Health & Culture**



# Services in Research and Education

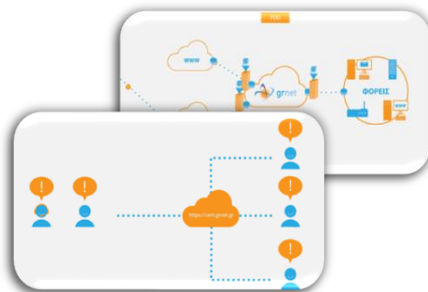
## ZEUS e-Voting



Computing system that ensures the fair conduct of digital private polls carried out remotely.

- **Total number of users:**  
**> 970.000**
- **Total number of polls:**  
**> 9.000**
- **Total number of institutions using ZEUS**  
**1.200**

## Security Services- Firewall on Demand (FoD)



The service enables users to mitigate active attacks aimed at their network equipment

- Computer Emergency Response Team (CERT)

GRNET provides incident response and security services, process, correlate and notify end users

## DELOS AAI



GRNET "Delos" Authentication and Authorization Infrastructure enables cross-institutional services by providing federated authentication and authorization among participating organizations.

## DIGITAL CERTIFICATES



Extra security and authentication of people, sites and data transfers



# Services in Research and Education

## ~okeanos Cloud Computing



Cloud Computing  
computational services.

- **Total number of users:**  
56.505 (~okeanos),  
2.725 (~okeanos  
knossos)
- **Educational Institutions  
for ~okeanos and  
~okeanos knossos: 50**

## National Academic ID



Service for the acquisition and  
management of the national  
academic ID.

- **Total number of users:**  
1.535
- **Active I.D.s: :~772.000**
- **Connected bodies : 60**

## Eudoxus



Electronic book distribution  
service to students.

- **Total number of users:**  
~1.000.000
- **Students per semester:**  
~250.000
- **Connected bodies: 28**
- **#Distributions: >2.1M  
(books) and >50M euro  
per academic year**

## APELLA



"Apella" facilitates the election  
and promotion of the faculty  
members of the Greek Academic  
Institutions.

- **Total number of users:**  
34.281
- **Connected bodies: 93**

# Services in Research, Education and Culture

## ATLAS



Centralized online service that creates a unique internship positions database.

- **Users: ~32.000**
- **Internship Host Organizations: & ~200.000**
- **Connected Organizations: 237**

## Student Housing Allowance



System for submitting and evaluating applications for the granting of the annual student housing allowance.

- **Total applications submitted: 334.903**
- **Total applications approved: 254.309, valued at 276.51M euro.**
- **Annual: ~55k applications, ~42k approved, ~42M euros.**

## e:Presence



Videoconference service for the official meetings of the Greek R&E community

- **Total number of Teleconferences: >380.000**
- **Participants: >149.000**

## DIAVLOS



Live streaming service broadcasted through the GRNET state of the art e-Infrastructure

- **Registered users: 27.850**
- **Page views of the portal on DIAVLOS Service: 3.7M views from 178 countries**
- **Connected bodies: 35**
- **> 2380 livestreams**
- **> 970 livestreamed e:Presence meetings**

# Services and e-Infrastructures in Health



## **Central Electronic Management Services for the National Registry Of Voluntary Blood Donors**

Managing the registry and issuing volunteer donor IDs through modern, credible and friendly procedures for blood donors, donation services and blood centers in the country.



## **Harmoni**

### **High-Performance Archiving and Retrieval of Medical On-line Imaging Data.**

High-Performance Archiving and Retrieval of Medical On-line Imaging Data.



## **eduroam**

### **World-wide roaming access service developed for the international research and education community**

eduroam allows students, researchers and staff from participating institutions to obtain Internet connectivity across campus and when visiting other participating institutions by simply opening their laptop.



## **DIADOSIS**

### **Inter-loan online library**

Electronic system which provides access to all research and medical publication papers via DELOS- Authentication & Authorization Infrastructure service, to all hospital staff



## **Central Staff Directory Service-DELOS for Hospitals**

"Delos" Authentication and Authorization Infrastructure enables cross-institutional services by providing federated authentication and authorization among participating organizations.



The background is a dark blue gradient. In the center, there is a faint, glowing wireframe globe. Surrounding the globe are numerous small, bright blue particles and lines, creating a sense of motion and data. The overall aesthetic is high-tech and digital.

# **National and European Projects**

# EUROPEAN & INTERNATIONAL PROJECTS



## EuroCC

[www.eurocc-project.eu](http://www.eurocc-project.eu)

**Funding:** HORIZON 2020

**Duration:** 01/09/2020 - 31/12/2022

### National Competence Centers in the framework of EuroHPC

A joint initiative between the EU, European countries and private partners to develop a World Class Supercomputing Ecosystem in Europe, which will be reinforced by a European Network of HPC Expertise.



## HPC-EUROPA3

[www.hpc-europa.eu](http://www.hpc-europa.eu)

**Funding:** HORIZON 2020

**Duration:** 01/05/2017 - 30/04/2022

### Transnational Access Programme Pan-European Research Infrastructure on High Performance Computing

The main objective of the HPC-Europa3 project is to maintain the high quality of transnational access services to some of Europe's most advanced supercomputing infrastructures in the European community of computer science researchers.



## PRACE-6IP

[www.prace-ri.eu](http://www.prace-ri.eu)

**Funding:** HORIZON 2020

**Duration:** 01/05/2019-31/12/2022

### Partnership for Advanced Computing in Europe

The mission of PRACE is to enable high-impact scientific discovery and engineering research and development across all disciplines to enhance European competitiveness for the benefit of society.



# EUROPEAN & INTERNATIONAL PROJECTS



## GN4-3 & GN4-3N

[www.geant.org/Projects/](http://www.geant.org/Projects/)

**Funding:** HORIZON 2020

**Duration:** 01/01/2019 – 31/12/2022

### Research and Education Networking – GÉANT

GN4-3N's mission is to deliver unconstrained access at higher minimum capacity thresholds, highest levels of security across the network, and equal access to clouds and other services in the European research area and beyond. It will also increase network footprint, future proof connection speeds and stimulate the market in cross-border communications infrastructure while decreasing the digital divide.



## ACROSS

[www.across-h2020.eu](http://www.across-h2020.eu)

**Funding:** HORIZON 2020

**Duration:** 01/02/2021 - 31/01/2024

### Towards user journeys for the delivery of cross-border services ensuring data sovereignty

The project focuses on the mobility of citizens between EU Member States and aims to support them in aligning and fulfilling their obligations under the Single Digital Gateway Regulation.



## EGI-ACE

[www.egi.eu/projects/egi-ace/](http://www.egi.eu/projects/egi-ace/)

**Funding:** HORIZON 2020

**Duration:** 01/01/2021 - 30/06/2023

### Advanced Computing for EOSC

The project aims to implement the European Open Science Cloud (EOSC) Compute Platform and contribute to the EOSC Data Commons by delivering integrated computing platforms, data spaces and tools as an integrated solution that is aligned with major European cloud federation projects and HPC initiatives.



# EUROPEAN & INTERNATIONAL PROJECTS



**NI4OS-Europe**  
[www.ni4os.eu](http://www.ni4os.eu)

**Funding:** HORIZON 2020  
**Duration:** 01/09/2019 - 28/02/2023

**National Initiatives for Open Science in Europe**

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



**DICE**  
[www.dice-eosc.eu/](http://www.dice-eosc.eu/)

**Funding:** HORIZON 2020  
**Duration:** 01/01/2021 - 30/06/2023

**Data Infrastructure Capacity for EOSC**

DICE aims to enable a European storage and data management infrastructure for EOSC, providing generic services and building blocks to store, find, access and process data in a consistent and persistent way.



**C-SCALE**  
[www.c-scale.eu](http://www.c-scale.eu)

**Funding:** HORIZON 2020  
**Duration:** 01/01/2021 – 30/06/2023

**Copernicus - eoSC Analytics Engine**

The C-SCALE project aims to federate European EO infrastructure services, such as the Copernicus DIAS and others. The federation shall capitalise on the European Open Science Cloud's (EOSC) capacity and capabilities to support Copernicus research and operations with large and easily accessible European computing environments.

# EUROPEAN & INTERNATIONAL PROJECTS



## OpenAIRE Nexus

[www.openaire.eu](http://www.openaire.eu)

**Funding:** HORIZON 2020  
**Duration:** 01/01/2021 - 30/06/2023

### Scholarly Communication Services for EOSC users

The project will provide European advanced communication services, as a means of implementing open science initiatives.

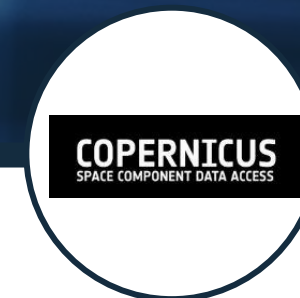


## EOSC Future

[www.eoscfuture.eu](http://www.eoscfuture.eu)

**Funding:** HORIZON 2020  
**Duration:** 01/04/2021 - 30/06/2023

EOSC Future aims to promote EOSC portal and unlock the potential of European research via a vision of Open Science for Society. EOSC Future will interconnect and integrate digital infrastructures, Open Science national initiatives and research communities to EOSC, aiming to further enhance the EOSC Portal, EOSC-Core and EOSC Exchange.



## Copernicus Space Component Data Access Bridge

**Funding:** European Space Agency (ESA)  
**Duration:** 01/02/2021 – 31/01/2022

The project concerns the access of international organizations and users across the globe to the European programme Copernicus data. It aims to provide (a) the continuity of the different data access services currently running in ESA Copernicus operations framework, and (b) expansion of access services.

# EUROPEAN & INTERNATIONAL PROJECTS



**Synthesis+**

[www.synthesys.info](http://www.synthesys.info)

**Funding:** HORIZON 2020

**Duration:** 01/02/2019 - 31/01/2023

**Synthesis of systematic resources**

SYNTHESYS aims to produce an accessible, shared, high quality approach to the management, preservation and access integrated European resource to leading European natural history collections for research users in the natural sciences.



**DCoMex**

[www.grnet.gr/dcomex](http://www.grnet.gr/dcomex)

**Funding:** HORIZON 2020

**Duration:** 01/04/2021 – 31/03/2024

**Data Driven Computational Mechanics at EXascale**

DCoMEX aims to provide unprecedented advances to the field of Computational Mechanics by developing novel numerical methods enhanced by Artificial Intelligence, along with a scalable software framework that enables exascale computing.



**ELEDGER**

[www.grnet.gr/en/eledger/](http://www.grnet.gr/en/eledger/)

**Funding:** Innovation and Networks Executive Agency (INEA), EU

**Duration:** 01/04/2021 – 31/03/2023

**Hellenic Distributed Ledger Technology Infrastructure**

The project aims at establishing a solid pillar for the development and spreading of the European Blockchain Partnership (EBP) initiative in Greece and supporting the participation and contribution of Greek stakeholders to the European Blockchain Service Infrastructure (EBSI).

# EUROPEAN & INTERNATIONAL PROJECTS



## **ICT-AGRI-FOOD** [www.ictagrifood.eu](http://www.ictagrifood.eu)

**Funding:** H2020/ERA-NET  
**Duration:** 10/01/2019 - 30/09/2024

Supporting the development and implementation of new technologies for a competitive, sustainable and environmentally friendly agriculture.



## **eSSIF-Lab** [www.essif-lab.eu](http://www.essif-lab.eu)

**Funding:** H2020/ICT  
**Duration:** 01/11/2019 - 30/10/2022

### **Working for development, integration and adoption of Self-Sovereign Identities (SSI) technologies**

Aims at advancing the broad uptake of Self-Sovereign Identities (SSI) as a next generation, open and trusted digital identity solution for faster and safer electronic transactions via the Internet and in real life.



## **IMAGINE** [www.imagine-h2020.eu](http://www.imagine-h2020.eu)

**Funding:** HORIZON - INFRA  
**Duration:** 01/9/2022 - 31/8/2025

iMagine aims to improve the interoperability and analysis of imaging data from different scientific fields as well as the wider use of AI-based image analysis services.



# EUROPEAN & INTERNATIONAL PROJECTS



FAIRCORE4EOSC

## FAIRCORE4EOSC

<https://faircore4eosc.eu/>

**Funding:** HORIZON Europe Framework Programme

**Duration:** 1/6/2022 - 31/5/2025

The FAIRCORE4EOSC project focuses on the development and realisation of core components for the European Open Science Cloud (EOSC). Supporting a FAIR EOSC and addressing gaps identified in the Strategic Research and Innovation Agenda (SRIA). Leveraging existing technologies and services, the project will develop nine new EOSC-Core components aimed to improve the discoverability and interoperability of an increased amount of research outputs.



EUMaster4HPC

## EUMaster4HPC: European Master For High Performance Computing

[www/eumaster4hpc.uni.lu/](http://www/eumaster4hpc.uni.lu/)

**Funding:** Horizon 2020 Framework Programme

**Duration:** 01/01/2022 – 31/12/2025

The HPC European Consortium Leading Education Activities (EUMaster4HPC) aims to develop a new and innovative Master's program for the education and training in High Performance Computing (HPC). The master programme aims at catalysing various aspects of the HPC ecosystem and its applications into different scientific and industrial domains.



Skills4EOSC

## Skills4EOSC

[www.grnet.gr/en/skills4eosc/](http://www.grnet.gr/en/skills4eosc/)

**Funding:** Horizon Europe Programme, European Research Executive Agency

**Duration:** 01/09/2022 - 31/08/2025

The Skills4EOSC project aims to create a pan-European network of Competence Centers (CC) in order to accelerate the upskilling of European researchers and harmonise the training of new professionals for managing scientific data.

# EUROPEAN & INTERNATIONAL PROJECTS



## HellasQCI - Quantum Communication Infrastructure for Greece

**Funding:** 50% EU, 50% National Funds

**Duration:** 1/1/2023 – 30/6/2025

HellasQCI, part of the European EuroQCI network, will contribute to the safeguarding of sensitive data and infrastructures, such as in government institutions, health structures, banking systems, and many more critical infrastructures. GRNET is the coordinator of the project, in collaboration with 13 partners.

Smart Attica Digital  
Innovation Hub

## SmartAttica AtHeNAI [www.smartattica.eu/](http://www.smartattica.eu/)

**Funding:** Digital Europe Programme, 2021 – 2027

**Duration:** 1/1/2023 - 31/12/2025

SmartAttica AtHeNAI aims to accelerate the transition to the digital transformation of businesses and public administration through artificial intelligence (AI) technologies.

# NATIONAL PROJECTS



## HEPHAESTUS

[www.grnet.gr/en//hephaestus/](http://www.grnet.gr/en//hephaestus/)

**Funding:** NSRF 2014-2020, Operational Program - Competitiveness, Entrepreneurship and Innovation  
**Duration:** 01/10/2017 – 31/10/2023

The Hephaestus project provides all Greek academic and research institutions with advanced network e-Infrastructures & Services.



## HELIX

[www.grnet.gr/en/helix/](http://www.grnet.gr/en/helix/)

**Funding:** NSRF 2014-2020  
**Duration:** 01/01/2017 - 31/12/2022

### National e-Infrastructures for Research

The project aims at expanding / upgrading and making available for use by the national research infrastructures the NNCRI (National Network and Computational Research Infrastructure), OpenAIRE-D and HELNET, as listed under the consolidated title National Digital Infrastructures for Research (HELIX) in the National Roadmap for Research Infrastructures.



## MACHAON

[www.grnet.gr/en/machaon/](http://www.grnet.gr/en/machaon/)

**Funding:** NSRF 2014-2020  
**Duration:** 01/07/2020 - 30/06/2023

### Provision of advanced network-computing services to hospital units in a cloud computing environment

Machaon aims to support clinical work, strengthen the research work of medical staff and improve the competitiveness of the health sector through the upgrade of the technological infrastructure in 129 public hospitals and health structures in the country.

# NATIONAL PROJECTS



## ELIXIR-GR

[www.grnet.gr/en/elixir-gr/](http://www.grnet.gr/en/elixir-gr/)

**Funding:** NSRF 2014-2020

**Duration:** 01/01/2017 - 30/6/2023

ELIXIR-GR enhances the potential of the Greek bioinformatics community to offer open, easily accessible and state-of-the-art services to the Greek and the international academic community and other stakeholders, such as industry and the health sector.



## Upgrade of National HPC System "ARIS"

**Funding:** Operational Program "Attica 2014-2020" and the Priority Axis "Dissemination and Development of Innovative Products and Services of SMEs using ICT"

**Duration:** 01/01/2022 - 31/12/2023

GRNET's existing HPC system will be upgraded with additional high performance computing equipment at the existing Data Center. ARIS HPC will continue to support the scientific applications which have special requirements regarding the speed of executing calculations, the storage space and memory capacity in various scientific fields of the Greek scientific community.



## National Disability Benefits Portal

**Funding:** Recovery And Resilience Facility (RRF)  
Greece 2.0 – NextGenerationEU

**Duration:** 01/09/2022- 31/12/2025

Development of an information system by GRNET which shall become the central service and information hub for people with disabilities.



# NATIONAL PROJECTS

Leasing fiber optic  
infrastructure  
IRU

## Leasing fiber optic infrastructure

**Funding:** Recovery And Resilience Facility (RRF)  
Greece 2.0 – NextGenerationEU  
**Duration:** 17/05/2021- 16/05/2025

The Project "Granting GRNET for the purpose of leasing fiber optic infrastructure" involves a new lease and the upgrade of the existing network infrastructure so that entities connected to the GRNET network, continue to be provided with relevant services.

Upgrade of the  
software and  
cloud computing  
services - Cloud

## Cloud Upgrade

**Funding:** Recovery And Resilience Facility (RRF)  
Greece 2.0 – NextGenerationEU  
**Duration:** 01/06/2022 - 31/12/2025

Expansion of GRNET's existing cloud computing infrastructure and services in order to offer advanced services to members of the research and academic community it serves.

Development of a  
new national HPC  
system  
"DAEDALUS"

## DAEDALUS

[www.grnet.gr/en/daedalus/](http://www.grnet.gr/en/daedalus/)

**Funding:** Joint Undertaking/ EU / Recovery And Resilience Facility (RRF) Greece 2.0 – NextGenerationEU  
**Duration:** 01/06/2022 - 31/12/2029

DAEDALUS will serve a wide range of Greek and European users of the scientific and academic community, the industry and public sector. Anticipated to boost the development of new applications in a wide range of research fields such as Computational Chemistry, Physics, Biology, Biomedicine, Meteorology, Artificial Intelligence.

# NATIONAL PROJECTS



## EVIA SAMOS PASS

**Funding:** Public Investments Program

**Duration:** 08/06/2022 -31/12/2022

**Digital debit cards in order to support Tourism in North Evia and Samos areas.**

North Evia-Samos Pass is a project that supports domestic tourism in Samos and North Evia, areas affected by natural disasters. The total budget of the project to support these regions amounted to over 6M euros.



## WHITE AREAS

**[www.grnet.gr/en//white-areas/](http://www.grnet.gr/en//white-areas/)**

**Funding:** Public Investments Program

**Duration:** 01/01/2021 - 31/12/2023

**National Access to TV stations of national coverage for permanent residents of areas without TV coverage**

The aim of the project is to provide television coverage to households even in the most remote continental and island regions of the country, which have specific geomorphological characteristics.



## TRANSPORTATION EQUIVALENT

**Funding:** Public Investments Program of Secretariat General for the Aegean and Island Policy of the Ministry of Maritime Affairs, Islands and Fisheries

**Duration:** 12/04/2019 - 31/12/2021

**Further operations for Development of the Information System for the Implementation of the Transportation Equivalent**

# NATIONAL PROJECTS



## Extension of the ATLAS electronic service

**Funding:** «REFORMATION of PUBLIC SECTOR»  
2014-2020  
**Duration:** 18/11/2021- 31/10/2023

Upgrade of the "ATLAS" service in order to strengthen access to employment and student's first working experience through internships in companies or bodies of the public/wider public sector and/or other bodies.



## Extension of the EUDOXOS electronic service

**Funding:** «REFORMATION of PUBLIC SECTOR»  
2014-2020  
**Duration:** 18/11/2021- 31/12/2023

Expansion and upgrade of EUDOXOS service that will improve the process of distributing academic textbooks to students of all Universities and Academic bodies in Greece.

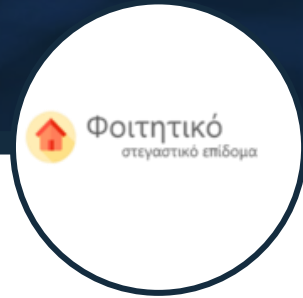


## Extension of the APELLA electronic service

**Funding:** «REFORMATION of PUBLIC SECTOR»  
2014-2020  
**Duration:** 01/06/2021- 31/07/2023

Expansion and upgrade of APELLA service with the aim to support staff selection procedures in entities such as research centers and technological bodies following procedures similar to those followed by Universities, in order to cover their needs.

# NATIONAL PROJECTS



## Expansion of the electronic service for the granting of housing benefit

**Funding:** «REFORMATION of PUBLIC SECTOR»

2014-2020

**Duration:** 15/12/2021- 31/10/2023

Expansion of the existing electronic service for the granting of housing allowance to students in order to improve the process of submitting an application, evaluating an application and granting the housing allowance, reducing bureaucracy and enhancing transparency.



## Extension of the electronic service for obtaining Academic Identity Card

**Funding:** «REFORMATION of PUBLIC SECTOR»

2014-2020

**Duration:** 05/08/2021- 31/12/2023

Expansion of the existing electronic service for the Academic Identity Card acquisition in order to make it more user-friendly for the members of the academic and research community, facilitating their daily activities.



## Upgrading the information system of the National Blood Donation System

**Funding:** «REFORMATION of PUBLIC SECTOR»

2014-2020

**Duration:** 26/04/2016 - 30/06/2023

With the project "Upgrading the information system and organization of the National Blood Donation System" the overall management of blood and its derivatives will be upgraded.



**National Infrastructures for Research and Technology**  
**GRNET S.A.**

**CORPORATE PRESENTATION**

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