



Networking Research, Education and Government

National Infrastructures for Research and Technology
GRNET S.A.

CORPORATE PRESENTATION



MISSION

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

- 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
55 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
- **Nx10 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, Ypepth-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



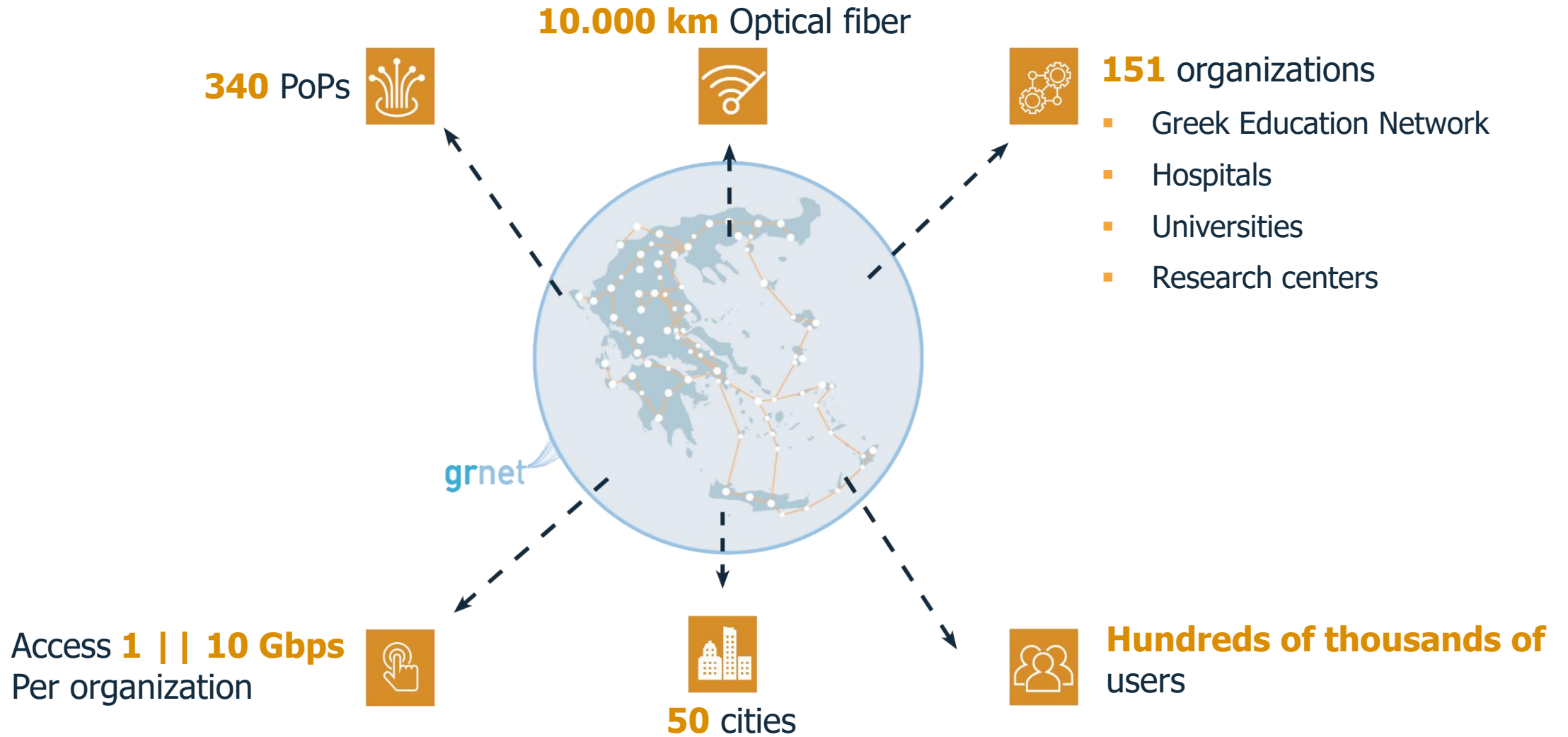
Organizations and Institutions

- 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

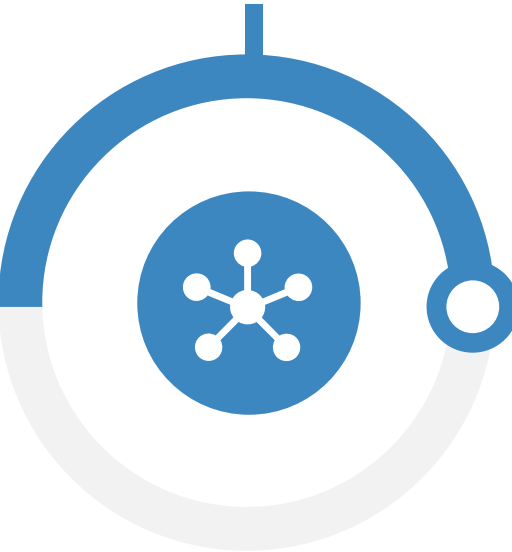
National optical fiber network

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

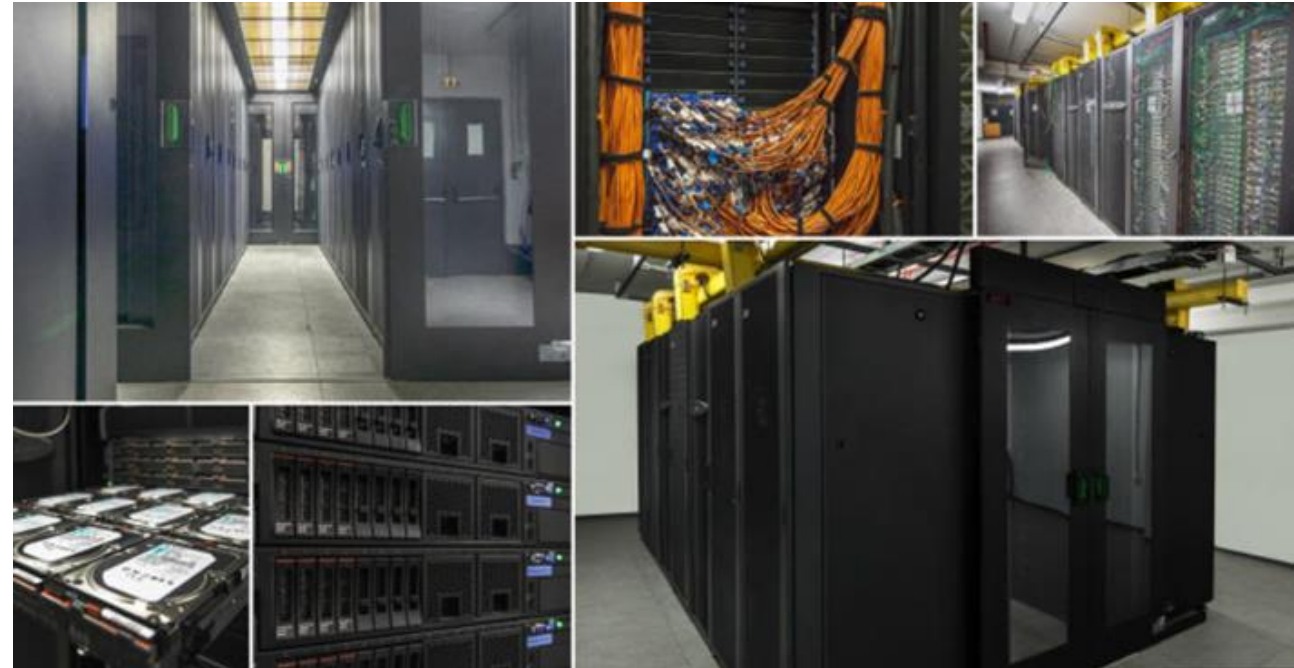


Ministry of Education, Marousi

National HPC Infrastructure

ARIS - HPC

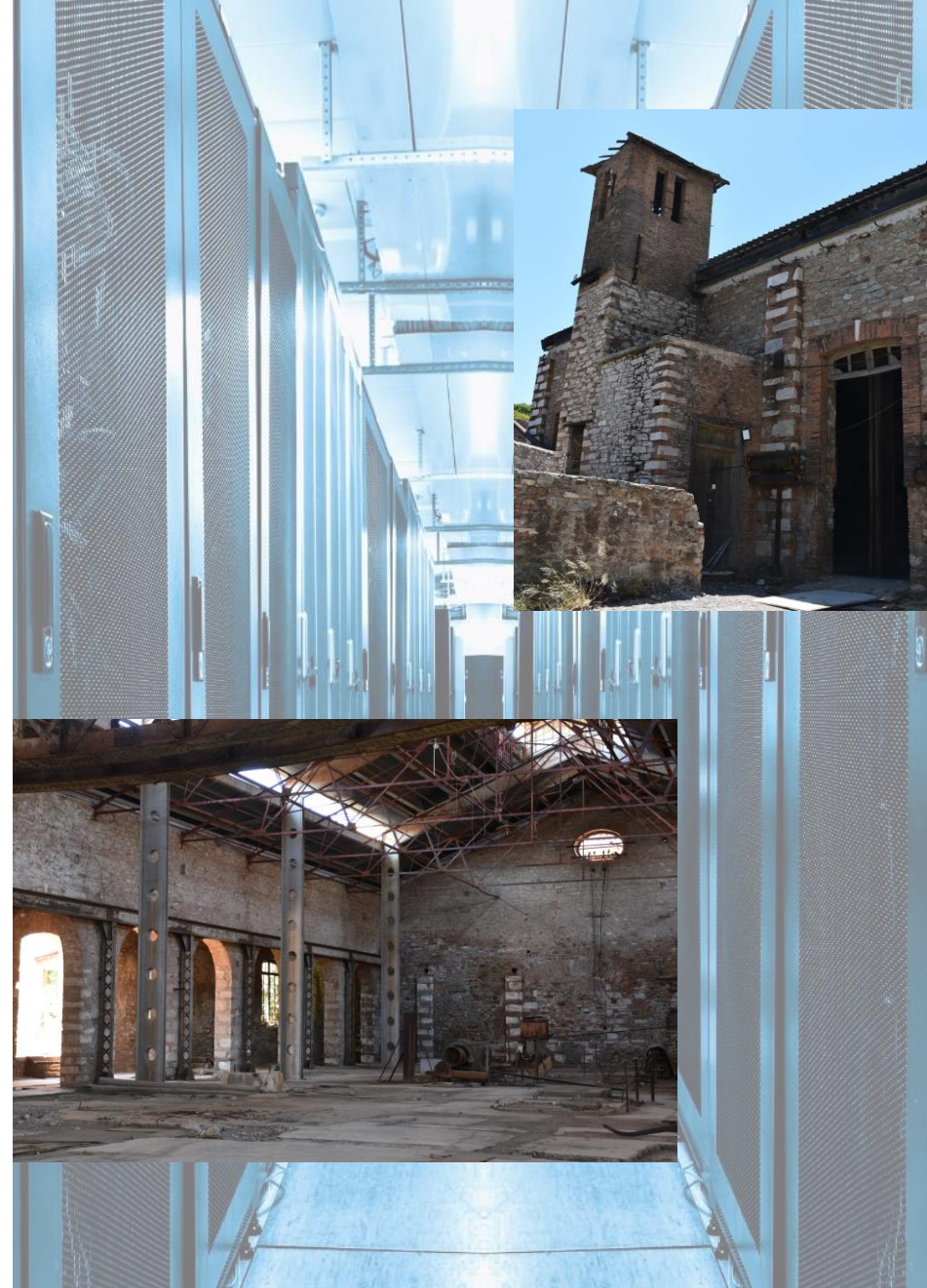
- **5** computational islands, **535** compute nodes
- **2 PB** of storage space
- **535 TFlops** HPC Tier - 1 centre
- **1.100** HPC projects
- **58.200** core Years (510 million core Hours) during the last **7** years
- GRNET is a PRACE Training Center



New National Supercomputer

DAEDALUS

- **2024** installation at the Lavrion Technological and Cultural Park
- **41.9M euros** Total Budget
- **60** 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

55 National & European Projects

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

SERVICES

INTERNET



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

SOUND AND IMAGE



- hpc.grnet.gr
- okeanos.grnet.gr
- vima.grnet.gr
- gr-ix.gr
- eduroam.gr
- diadosis.grnet.gr
- harmoni.grnet.gr
- bdr.gr
- zeus.grnet.gr/zeus
- eury-where.gr

CLOUD COMPUTING



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

SECURITY



AUTHENTICATION



- epresence.gr
- diavlos.grnet.gr
- academicid.minedu.gov.gr
- fod.grnet.gr
- cert.grnet.gr
- eudoxus.gr
- apella.minedu.gov.gr
- atlas.grnet.gr
- pyxida.grnet.gr
- gov.gr

PROJECTS

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



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

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

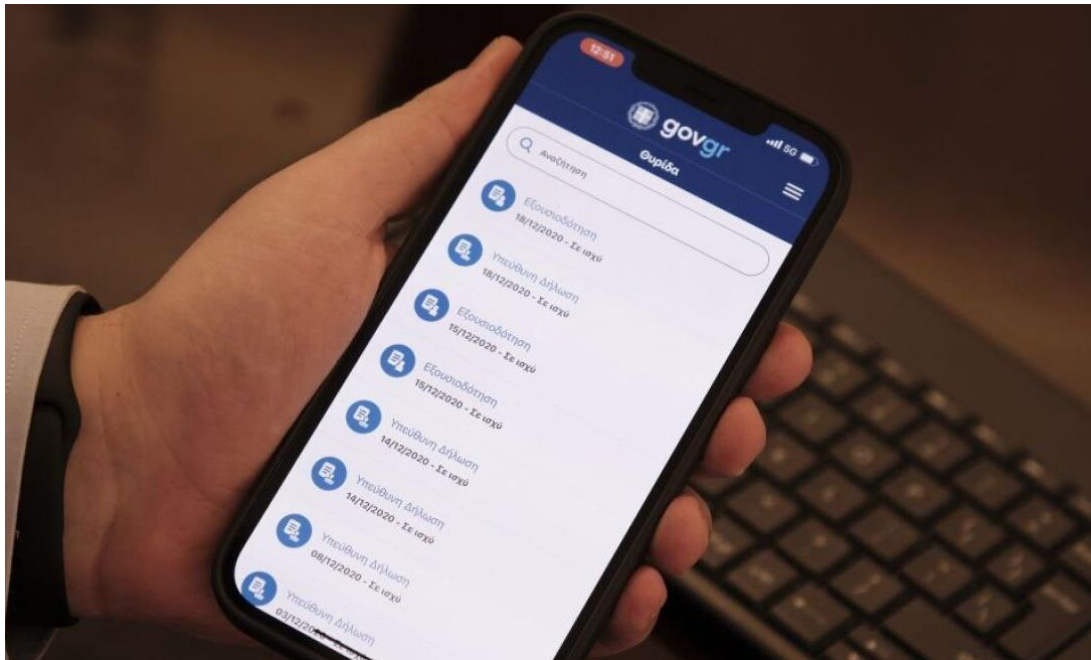


Artificial Intelligence Strategy

- 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

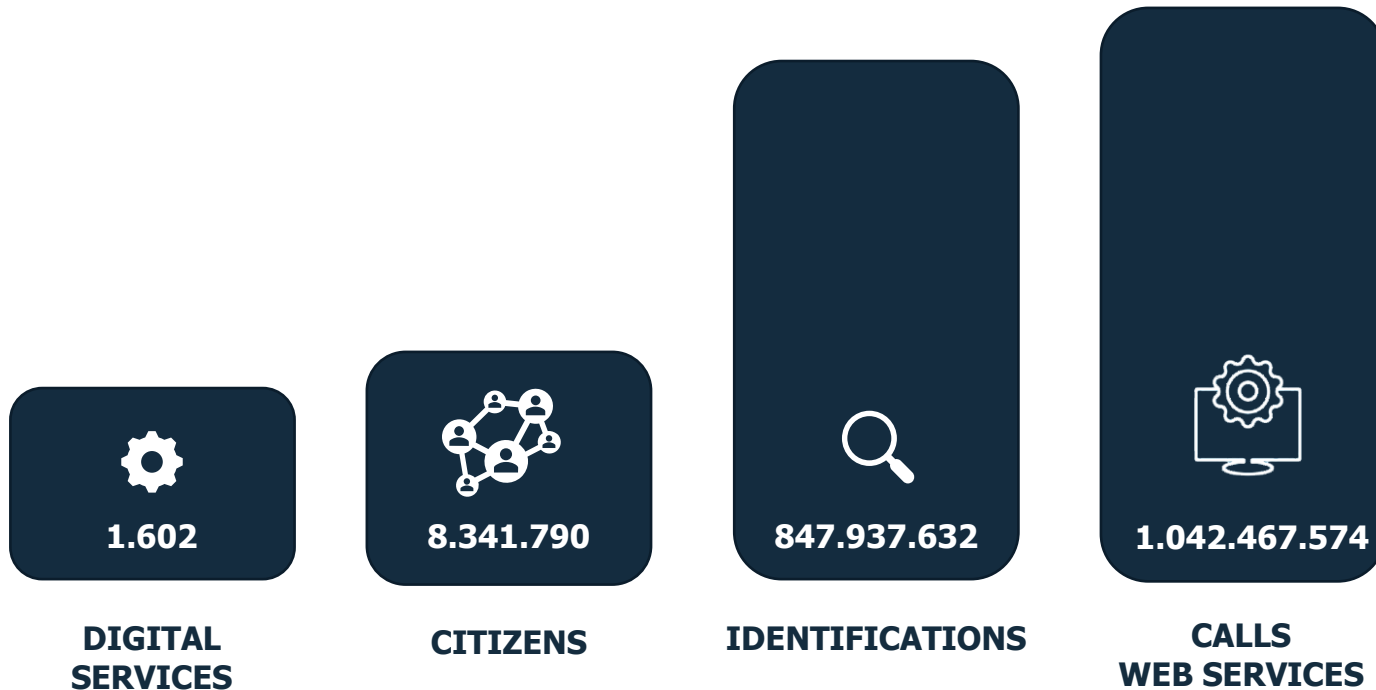
- Formal Declaration
- Authorization Form
- Digital Signature of Private Contracts
- Naming of Minors (registry)
- Certificate of your family's status (for multi-children families)
- Licensed Electrician Certification

- Copy of criminal record
- Appeal against an act of confirmation of an infringement
- Filing Financial Crime Complaints
- Copy of a road accident report for material damage
- Copy of hellenic police daily tickets of vehicles
- Copy of telephone call to the Police Emergency services
- Copy of a certificate of infringement

- EU Digital COVID Certificate
- Covid Free GR mobile app

Single Digital Portal @gov.gr

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



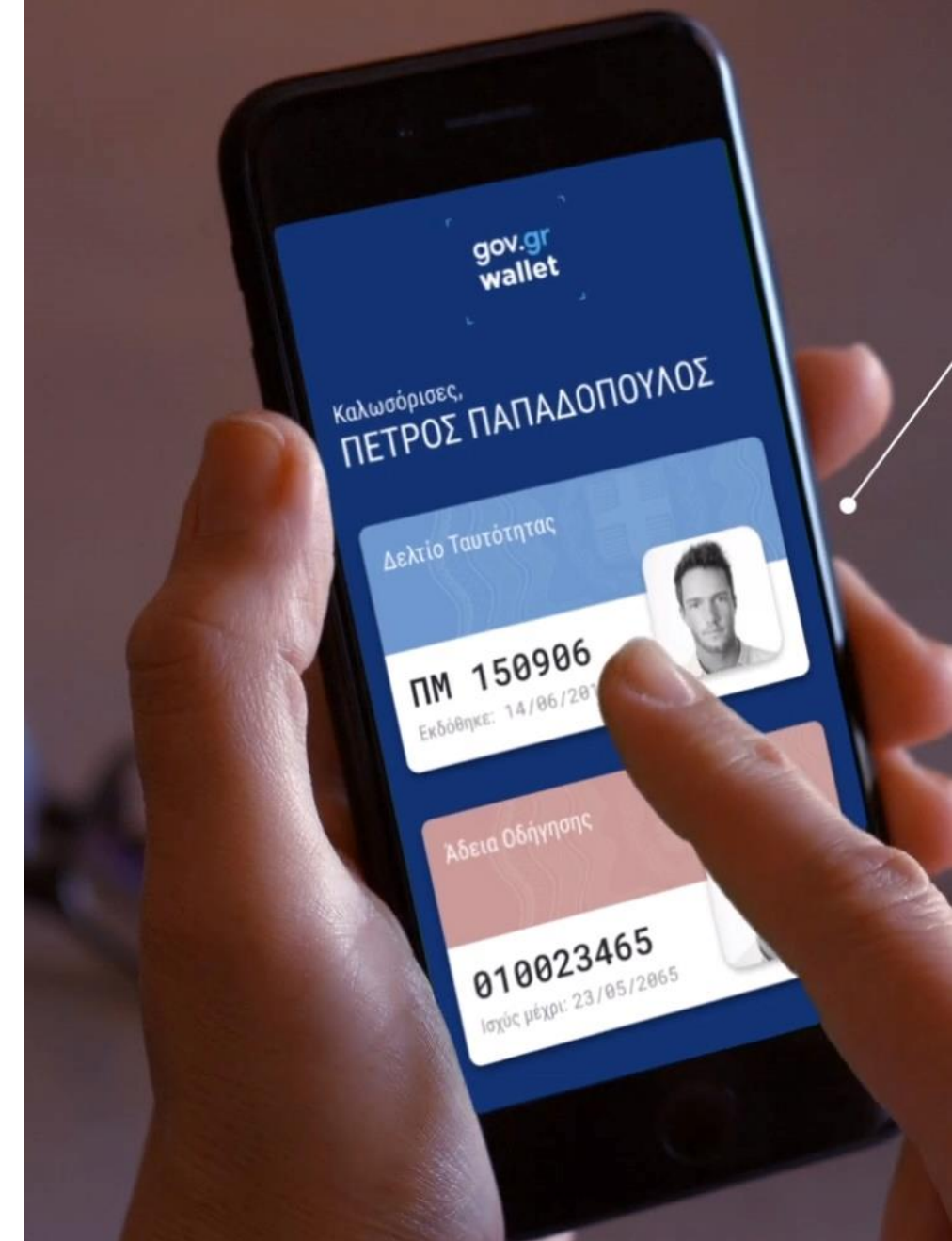
Indicative Services gov.gr

- 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
- 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

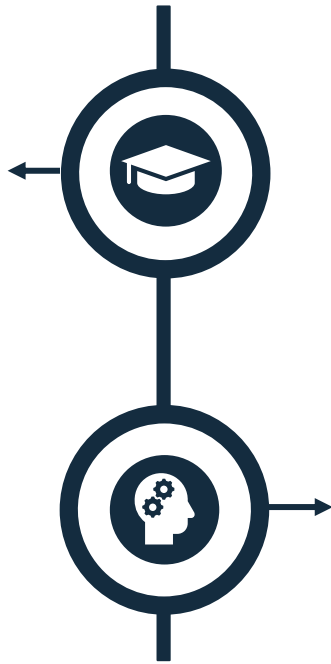
- The EU Digital COVID Certificate can be used by citizens as a record of proof for vaccination, a diagnostic test result, or recovery from coronavirus.
- In Greece, the certificate will be issued through the gov.gr portal.
- Implementation by GRNET, in cooperation with IDIKA SA – e-Government Center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

Education and training actions
aimed at developing all levels of digital skills, through the National Academy of Digital Skills



Awareness-raising and information initiatives
aimed at providing opportunities for citizens to participate in training actions according to their needs and interests



Development of digital skills

The National Academy for Digital Skills

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

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

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

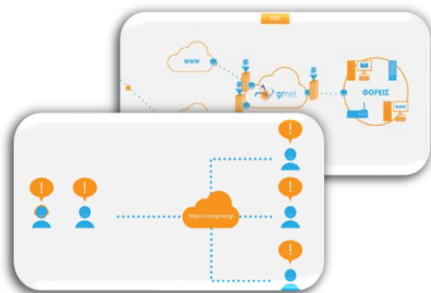


ZEYΣ
POWERED BY grnet

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: > 1.5 millions**
- **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: >266,633**
- **Participants: > 2,838,948**

ΔΙΑΥΛΟΣ



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

- **Registered users: 28.303**
- **Page views of the portal on ΔΙΑΥΛΟΣ Service: 3.7M views from 179 countries**
- **Connected bodies: 36**
- **> 2,429 livestreams**
- **> 1,135 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 with a central wireframe globe. The globe is composed of a network of thin white lines forming a spherical grid. Surrounding the globe is a dense field of small, glowing blue and white particles, creating a sense of depth and digital connectivity. The overall aesthetic is futuristic and technological.

National and European Projects

EUROPEAN & INTERNATIONAL PROJECTS



EuroCC -2

www.eurocc-greece.gr

Funding: EUROHPC

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

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.



EUMaster4HPC: European Master For High Performance Computing

www.grnet.gr/en/eumaster4hpc-en

Funding: EuroHPC JU

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.



EU4Digital

www.grnet.gr/en/eu4digital

Funding: E.E (Directorate General for Neighbourhood and Enlargement Negotiations - DG NEAR)

Duration: 01/01/2023 - 30/06/2025

The aim of the project is to expand connectivity between research and education (R&E) communities in the Eastern Partnership (EaP) and the European research and education network GEANT which is supported by services and strengthened and sustainable organisations in the national research and education network (NREN).

EUROPEAN & INTERNATIONAL PROJECTS



GN5-1

www.grnet.gr/en/gn5-1

Research and Education Networking – GÉANT

Funding: HORIZON 2020

Duration: 01/01/2023 – 31/12/2024

GN4-3N's mission is to provide faster, more resilient and secure connectivity infrastructure and collaboration services to enable researchers and students' access to applications that support evidence-based and effective collaboration across virtual research teams, worldwide.



GN5-IC1

www.cordis.europa.eu/project

Research and Education Networking – GÉANT

Funding: HORIZON 2020

Duration: 01/12/2022 – 30/11/2025

The EU-funded GN5-IC1 project is planning the first phase of a new intercontinental connectivity investment programme. The programme will help meet the ongoing, ever-growing demand for increased network capacity in Europe and lead the network through a paradigm shift in the digital science and computational infrastructures planned during the next 10 to 15 years. GN5-IC1 aims to further extend intercontinental network reach and increase its resilience. Making the most of new technologies and opportunities presented by a changing landscape of network procurement, GN5-IC1 will support the rapidly growing needs of Europe's research and education community.

EUROPEAN & INTERNATIONAL PROJECTS



HellasQCI - Quantum Communication Infrastructure for Greece

www.grnet.gr/en/hellasqci

Funding: Digital Europe Programme/Ministry of Digital Governance
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.



EUROQCI

www.petrus-euroqci.eu

Funding: Digital Europe Programme
Duration: 1/10/2022 – 31/3/2025

The EuroQCI will safeguard sensitive data and critical infrastructures by integrating quantum-based systems into existing communication infrastructures, providing an additional security layer based on quantum physics. It will reinforce the protection of Europe's governmental institutions, their data centres, hospitals, energy grids, and more, becoming one of the main pillars of the EU's Cybersecurity Strategy for the coming decades.

EUROPEAN & INTERNATIONAL PROJECTS



LuxQCI www.lux4qci.eu

Funding: 50% χρηματοδότηση από Ε.Ε., 50% από εθνικούς πόρους Λουξεμβούργου
Duration: 1/1/2023 - 30/6/2025

Lux4QCI envisages the design, development, procurement, and deployment of the first experimental quantum communication infrastructure (QCI) network in Luxembourg. Lux4QCI consortium contains academic, industrial, and governmental partners.



IrelandQCI www.irelandqci.ie

Funding: 50% χρηματοδότηση από Ε.Ε., 50% από εθνικούς πόρους Ιρλανδίας
Duration: 1/03/2023 – 31/8/2025

IrelandQCI, the 'Building a National Quantum Communication Infrastructure for Ireland' project incorporates integrating innovative and secure quantum devices and systems into conventional communication infrastructures. This will be done by enhancing the ESB Telecoms' optical fibre network with an additional layer of security, all based on quantum physics, in particular quantum key distribution (QKD).

EUROPEAN & INTERNATIONAL PROJECTS



DCoMex

www.grnet.gr/dcomex

Funding: Horizon/EuroHPC JU/ General Secretariat of Research and Innovation (GSRI)

Duration: 1/6/2021 – 31/5/2024

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.



SmartAttica AtHeNAI

www.grnet.gr/en/smart-attica

Funding: Horizon/ General Secretariat of Research and Innovation (GSRI)

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.



IMAGINE

www.grnet.gr/en/imagine

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



CRAFT-OA

www.grnet.gr/en/craft-oa

Funding: Horizon

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

CRAFT-OA (Creating a Robust Accessible Federated Technology for Open Access) aims to make the Open Access landscape more resilient by centralising expertise, collaboration and a joint visibility/indexing layer.



Blue-Cloud 2026

www.blue-cloud.org

Funding: HORIZON - INFRA

Duration: 1/1/2023 - 30/6/2026

Blue-Cloud project aims to provide a virtual environment with open and seamless access to services for storage, management, analysis and re-use of research data, across borders and disciplines, and the blue research communities by developing a collaborative web-based environment providing simplified access to an unprecedented wealth of multi-disciplinary datasets from observations, analytical services, and computing facilities essential for blue science.



GraspOS

www.grnet.gr/en/graspos

Funding: HORIZON

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

GraspOS project aims to develop, assess and operate an open and trusted federated infrastructure for next generation research metrics and indicators, offering data, tools, services and guidance.

EUROPEAN & INTERNATIONAL PROJECTS



EOSC Future

www.grnet.gr/en/eosc

Funding: HORIZON 2020

Duration: 1/4/2021 – 31/3/2024

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



FAIRCORE4EOOSC

www.grnet.gr/en/faircore4eosc

Funding: HORIZON Europe Framework Programme

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

The FAIRCORE4EOOSC project focuses on the development and realisation of core components for the European Open Science Cloud (EOOSC). Supporting a FAIR EOOSC and addressing gaps identified in the Strategic Research and Innovation Agenda (SRIA). Leveraging existing technologies and services, the project will develop nine new EOOSC-Core components aimed to improve the discoverability and interoperability of an increased amount of research outputs.

EUROPEAN & INTERNATIONAL PROJECTS

The logo for Skills4EOSC, featuring the text "Skills4EOSC" in a sans-serif font. The "i" in "Skills" has a vertical bar with four colored dots (red, yellow, green, blue) above it.

Skills4EOSC

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.

The logo for EOSC BEYOND, featuring the text "EOSC BEYOND" in a bold, sans-serif font.

EOSC BEYOND

www.openaire.eu/eosc-beyond

Funding: Horizon Europe Programme

Duration: 01/01/2024 - 31/01/2027

EOSC Beyond objective is to advance Open Science and innovation in research in the context of the European Open Science Cloud (EOSC) by providing new EOSC Core capabilities allowing scientific applications to find, compose and access multiple Open Science resources and offer them as integrated capabilities to researchers. To do so, EOSC Beyond supports a new concept of EOSC: a federated and integrated network of Nodes operated at different levels, national, regional, international and thematic, to serve the specific scientific missions of their stakeholders.

The logo for EOSC ENTRUST, featuring the text "EOSC ENTRUST" in a sans-serif font. Below it, in smaller text, is "European Network of Trusted Research Environments".

EOSC ENTRUST

Funding: Horizon Europe Programme, European Research Executive Agency

Duration: 01/03/2024 - 28/02/2027

The mission of EOSC-ENTRUST is to create a European network of trusted research environments for sensitive data and to drive European interoperability by joint development of a common blueprint for federated data access and analysis..

EUROPEAN & INTERNATIONAL PROJECTS



ACROSS

www.grnet.gr/en/across

Funding: HORIZON 2020

Duration: 01/02/2021 - 30/04/2024

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.



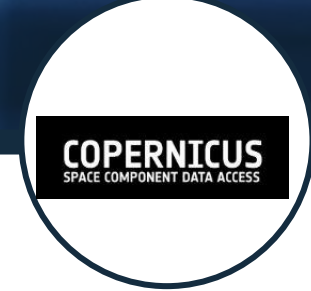
ICT-AGRI-FOOD

www.grnet.gr/en/ict-agri-food

Funding: H2020/ERA-NET

Duration: 1/10/2019 - 30/09/2024

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



Data Hub Relay 2 - Data Relay Hub Framework

Funding: European Space Agency (ESA)

Duration: 7/10/2022 – 30/9/2025

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



interTwin

www.grnet.gr/en/intertwin

Co-designing and prototyping an interdisciplinary Digital Twin Engine.

Funding: HORIZON-INFRA

Duration: 01/09/2022 - 31/8/2025

interTwin is an EU-funded project with the goal to co-design and implement the prototype of an interdisciplinary Digital Twin Engine – an open source platform based on open standards that offers the capability to integrate with application-specific Digital Twins.

Its functional specifications and implementation are based on a co-designed interoperability framework and conceptual model of a DT for research – the DTE blueprint architecture.



SUBMERSE

www.grnet.gr/en/submerse

Funding: HORIZON

Duration: 1/5/2023-30/4/2026

The SUBMERSE project is characterized as a consortium of European and global partners, supported by the European Union's Horizon Europe program, which launched in early May the "SUBMarine cablEs for ReSearch and Exploration" (SUBMERSE) program, aiming to make available to the scientific community, civil society and industry, data from continuous observations on several submarine fiber optic cables, using a standardized technological configuration on a continental scale.



e-Safety & e-Creativity

www.grnet.gr/en/e-safety

e-Safety & e-Creativity Network for Teachers, Parents/Guardian & Professionals

Funding: ERASMUS+

Duration: 31/12/2022 - 30/12/2025

eSafety-eCreativity Network for Teachers, Parents & Guardians project includes the design and implementation of a holistic learning network, to support Digital Readiness with the aim of strengthening the safety, responsibility and confidence of children, young people and adults in relation to new digital technologies.

EUROPEAN & INTERNATIONAL PROJECTS



DC4EU

www.grnet.gr/en/dc4eu

DIGITAL CREDENTIALS FOR EUROPE

Funding: Digital Europe

Duration: 1/4/2023-30/3/2025

DC4EU aims to contribute in creating a hybrid paradigm where citizens will own and directly share their data through explicit consent, supporting and enhancing free movement of citizens with various entitlement documents in the social-security domain and student/staff mobility for both identity and records.



TRACE4EU

Funding: Digital Europe

Duration: 1/6/2023 – 30/8/2025

TRACE4EU aims to create an umbrella architecture based on existing EBSI services. The architecture builds the basis for the implementation of traceability application scenarios. The Pilot will be aligned with the EU Digital Wallet and related qualified trust services. TRACE4EU promotes recommendations for developing the EBSI ecosystem through engagement with pan-European stakeholders and has the potential to significantly influence traditional industries, assisting them in becoming more efficient, productive, competitive, and resilient.



POTENTIAL

www.grnet.gr/en/potential

POTENTIAL builds and realizes applications for testing the European Digital Identity Wallet launched by the European Commission.

Funding: Digital Europe

Duration: 1/4/2023-31/5/2025

POTENTIAL aims to shape and realize scenarios for testing the European Digital Identity Wallet being launched by the European Commission. POTENTIAL launches six use cases in the fields of banking, mobility, health, and administration to pilot the usage of the European Digital Identity Wallet, offering several benefits.

EUROPEAN & INTERNATIONAL PROJECTS



EBSI-NE

www.grnet.gr/en/ebsi-ne

Funding: Digital Europe

Duration: 1/5/2023 – 1/4/2025

EBSI-NE aims to support the development and adoption of the European Blockchain Service Network (EBSI), within the framework of the European Commission's call "Accelerating Best Use of Technologies".



EBSI-VECTOR

www.grnet.gr/en/ebsi

Funding: Digital Europe

Duration: 1/6/2023 – 1/5/2025

EBSI's Verifiable Credentials Framework is a full framework for expressing, exchanging, and verifying information, using a new information format (W3C Verifiable Credentials), digital wallets, and the blockchain to establish trust.



EWC

www.grnet.gr/en/ewc

EU Digital Wallet Consortium (EWC)

Funding: Digital Europe

Duration: 30/12/2022 – 30/12/2024

The EU Digital Wallet Consortium (EWC) is a joint effort to successfully leverage the benefits of the proposed EU digital identity in the form of Digital Travel Credentials across the Member States. The EWC intends to build on the Reference Wallet Application to enable a use case focused on Digital Travel Credentials.

NATIONAL PROJECTS



National Blood Donation System

Supply of blood donation information system software based on the use of internet technologies

Funding: «REFORMATION of PUBLIC SECTOR» 2014-2020

Duration: 03/06/2019 - 31/12/2023

The implementation of the project aims is to substantially upgrade the organization and computerization of the National Blood Donation System.



MACHAON

www.grnet.gr/en/mahaon

Funding: «REFORMATION of PUBLIC SECTOR» 2014-2020

Duration: 01/07/2019 - 15/04/2024

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



Upgrade of National HPC System "ARIS"

www.grnet.gr/en/upgrade-of-aris

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

Duration: 1/5/2022-31/06/2025

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.



DAEDALUS

<https://grnet.gr/en/business-directory/grant-for-the-development-of-a-new-national-hpc-system-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

Leasing fiber
optic
infrastructure
IRU

Leasing fiber optic infrastructure

www.grnet.gr/en/iru

Funding: Recovery And Resilience Facility (RRF)
Greece 2.0 – NextGenerationEU
Duration: 17/05/2021- 23/07/2025

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

www.grnet.gr/en/upgrade-cloud

Funding: Recovery And Resilience Facility (RRF)
Greece 2.0 – NextGenerationEU
Duration: 1/8/2022-31/12/2025

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.



National Disability Benefits Portal

www.grnet.gr/en/national-disability-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



NorthEviaPass2023

www.vouchers.gov.gr/northeviapass2023

Funding: Public Investments Program

Duration: 08/06/2022 -29/03/2024

Digital debit cards in order to support Tourism in North Evia.

North Evia Pass is a project that supports domestic tourism North Evia, affected by natural disasters.



WHITE AREAS

www.grnet.gr/en/white-areas/

Funding: Public Investments Program

Duration: 10/03/2021 - 31/12/2024

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: 1/1/2022 - 31/12/2024

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

NATIONAL PROJECTS



EUGO

Funding: Program "Human Resources and Social Cohesion"

Duration: 01/12/2021 - 2/2/2024

The aim of the project is to improve the daily life of working parents, family planning, facilitating job search, reducing the unemployment of professionals in the field of preschool education, creating employment opportunities, mainly for women with many years of proven experience in the field of childcare and the activation of potential providers.



EUGO

www.grnet.gr/eu-go

Point of Single Contact for European citizens and businesses

Funding: YourEurope

Duration: 01/12/2021 - 2/2/2024

The portal "EUGO" is the central point of contact for the flexible, friendly service of Greek and European citizens and businesses wishing to do business in Greece. It provides, easily and quickly, complete information on the regulatory framework, procedures, costs and applications that must be submitted to the competent bodies for establishing a business in Greece or for the provision of services cross-border.



DIKTYNNA

Energy Footprint Upgrade for Crete University and the National Health Data Center of GRNET SA

Funding: Management Service of the Operational Program "Environment and Sustainable Development"

Duration: 02/09/2019 - 31/12/2024

The DIKTYNNA project concerns the infrastructures energy upgrade with the use of renewable sources of energy, for the daily operations of the resources.

NATIONAL PROJECTS



GR digiGOV innoHUB www.digigov.innohub.gr/en

**The European Digital Innovation Hub
for Digital Governance**

Funding: Digital Europe 2021 2027
Duration: 01/01/2023 - 31/12/2025

The European Digital Innovation Hub for Digital Governance – GR digiGOV-innoHUB supports the development of a new generation of public services based on advanced digital technologies (AI, ML, IoT, Blockchain, HPC), with open source, open data and open standards. GR digiGOV-innoHUB is coordinated by GRNET.

Govtech4all

Govtech4all

**GovTech4All is the first round of implementation of
the GovTech4All Framework Partnership Agreement**

Funding: Digital Europe 2021 2027
Duration: 01/01/2023 -30/12/2026

GovTech4All is an incubator that unites 21 organizations in 14 European countries to establish a cohesive European GovTech ecosystem and a GovTech market. Within the incubator, the project focuses on implementing three pilot projects: -Secure information in cross-border data spaces. -Help EU-citizens to apply for and receive social benefits with the help of digital assistants. - Innovative public procurement.

National Infrastructures for Research and Technology
GRNET S.A.

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