



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.





- 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 GÉANT 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





Users

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













Organizations and Institutions

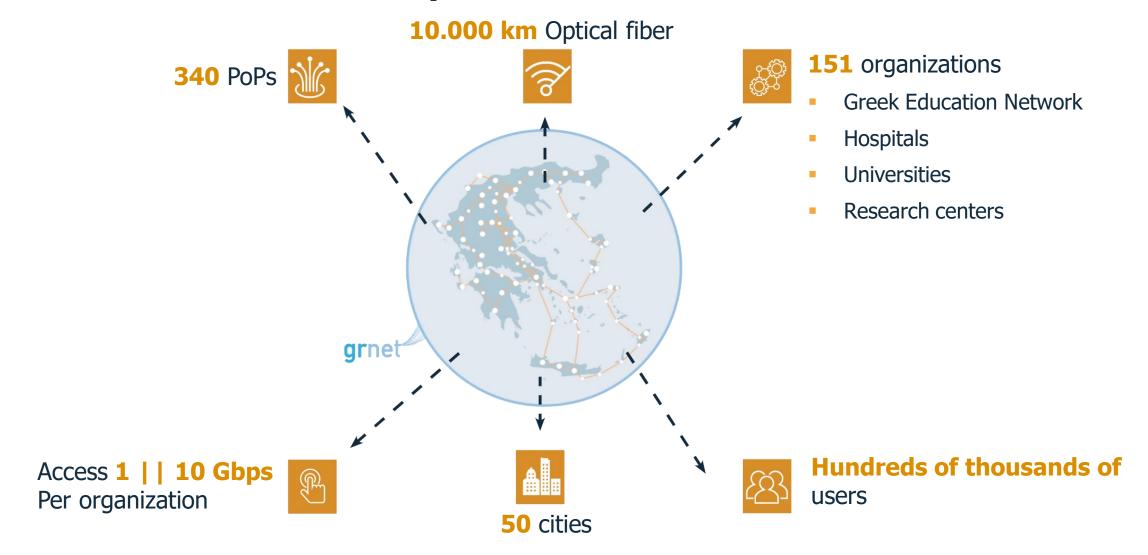
- Universities
- Research Centers
- Large Research Infrastructures
- Hellenic School Network
- Public Libraries
- Culture Centers
- Content Providers
- Public Administration sector
- Public Health Sector (Hospitals, Blood Donation/Transfusion Services)

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



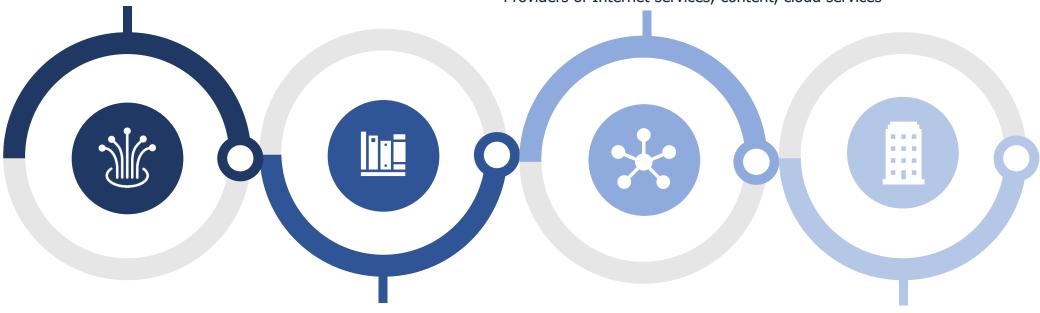
e-Infrastructures & Services

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



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 of 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



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







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

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 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

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

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





GRNET coordinates or actively participates in more than 55 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







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





European Technology Platform for High **Performance Computing**



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



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





National Infrastructures for Research and Technology GRNET S.A.

CORPORATE PRESENTATION

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www.grnet.gr

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