

# GRNET| National Infrastructures for Research and Technology

Advanced infrastructures and services for Education, Research, Culture and Health organizations



## National Infrastructures for Research and Technology

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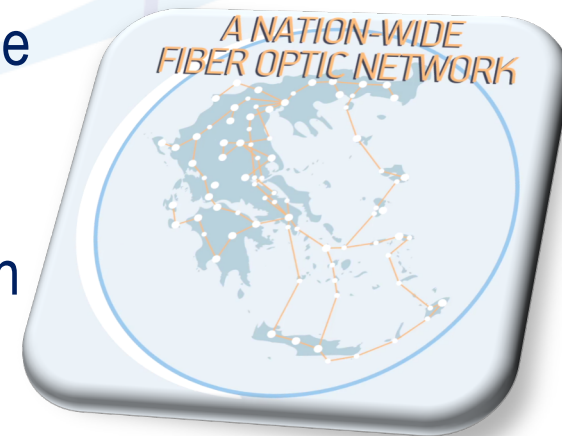
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State-owned company (SA) established in 1998. GRNET operates under the auspices of the Ministry of Digital Governance. GRNET receives funding from the Greek State and the European Union.

- Provides advanced eInfrastructures & Services to the Greek academic and research institutions:
  - National and international connectivity
  - eInfrastructures & services (network, computing, storage) to the community
- Promotion and dissemination of ICT in the communities within academic, research, health and culture sectors



# Communities and Users @ sectors: Education, Research, Health, Culture

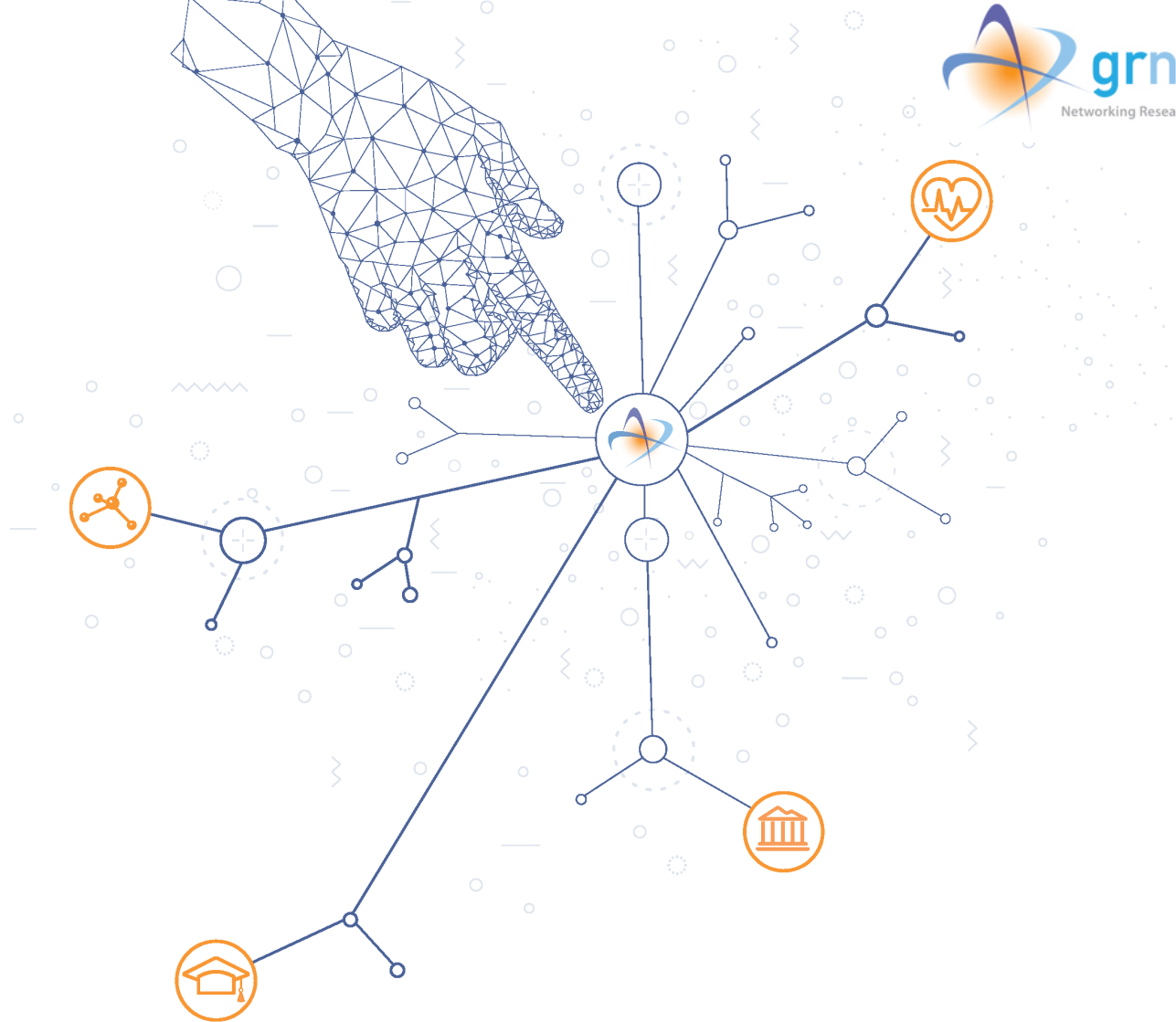


## Organizations and Institutions

- ✓ Universities
- ✓ Technological Education Institutes
- ✓ 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)

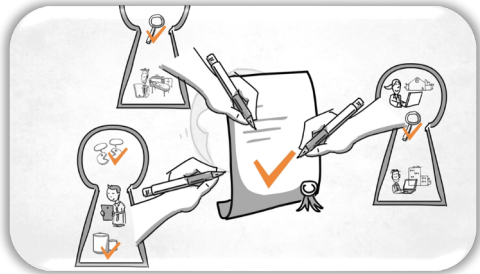
## Type of Users

- ✓ 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
- ✓ Citizens



# Advanced eInfrastructures & Services

# Trust and Identity services



- ΔΗΛΟΣ (GRNET AAI) & eduGAIN
- eduroam
- Certificate services: TCS
- GRNET-CERT
  
- eIDAS
  - EL node operations
  - Technical Subgroup participation



# eInfrastructures and International collaborations

# Highlights:

## eInfrastructures and 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.

Indicative key eInfrastructures and international collaborations GRNET is actively part of:

- **GÉANT**: European collaboration on e-infrastructure and services for Research and Education
- **PRACE**: Partnership for Advanced Computing in Europe
- **ARIADNE Foundation**: Integrating existing archeological data infrastructure across Europe to explore research methodologies
- **COPERNICUS Data Hubs**: Collects, stores and provides access to data from the Sentinel satellites of the Copernicus Earth Observation program
- **EGI.eu**: Federated e-Infrastructure set up for the provision of advanced computing services for Research and Innovation
- **EUDAT CDI**: Collaborative Data Infrastructure
- **ETP4HPC**: European Technology Platform for High Performance Computing
- **EPIC**: European Persistent Identifiers Service
- **EURO-IX**: The European Internet Exchange Association for strengthen and improve the Internet Exchange Point (IXP) community



**The evolution of  
eIDAS (eIDs)**



**eIDAS**

**eIDAS in National, EU, International Projects  
CEF Projects**





ETHEMISID

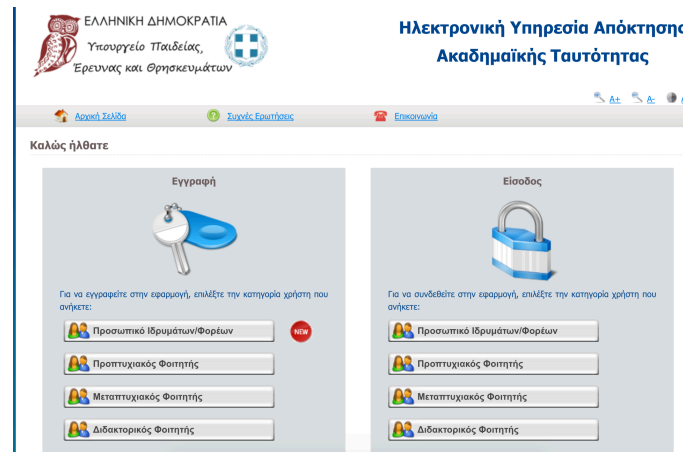


# eThemisID

- eThemisID is an Action selected for funding in 2019, under the Connecting Europe Facility (CEF) programme. The scope is to implement the necessary components and integrate them with existing systems to allow the Greek administrative Justice System to offer eIDAS and e-signature compliant services to its end-users.
- GRNET main goals are
  - to connect the Greek Council of State (as Service Provider) to the Greek eIDAS-Node Infrastructure via the GRNET eID Proxy. The integration will allow cross-border access to the Greek Council of State services for EU citizens and legal entities that have administrative/law disputes with Greek Public Sector.
  - to create an open-source toolkit for the eSeals of the documents using the eSignature Building Block (DSS)

# e-Signature and Erasmus Student eCard

- The Action will connect AcademicID service to the eIDAS node in Greece in order to allow Erasmus exchange students from EU universities outside Greece to use their eID when applying for this service. This will allow the Erasmus exchange students from EU universities to thus gain access to several student discounts and benefits provided by the Greek Universities, the State or even private entities.

A screenshot of the Greek eIDAS portal. The header includes the Hellenic Republic logo, the Ministry of Education and Religious Affairs, and the title 'Ηλεκτρονική Υπηρεσία Απόκτησης Ακαδημαϊκής Ταυτότητας'. Below the header, there are links for 'Ασκήσι Σελίδα', 'Συχνές Ερωτήσεις', and 'Επιστολικά'. The main content area is titled 'Καλώς ήλθατε' and contains two columns: 'Εγγραφή' (Registration) and 'Είσοδος' (Login). Each column has a large icon (a key for registration, a padlock for login) and a list of user categories with corresponding icons: Προσωπικό Ιδρυμάτων/Φορέων, Προπτυχιακός Φοιτητής, Μεταπτυχιακός Φοιτητής, and Διδακτορικός Φοιτητής.

2017-EL-IA-0034

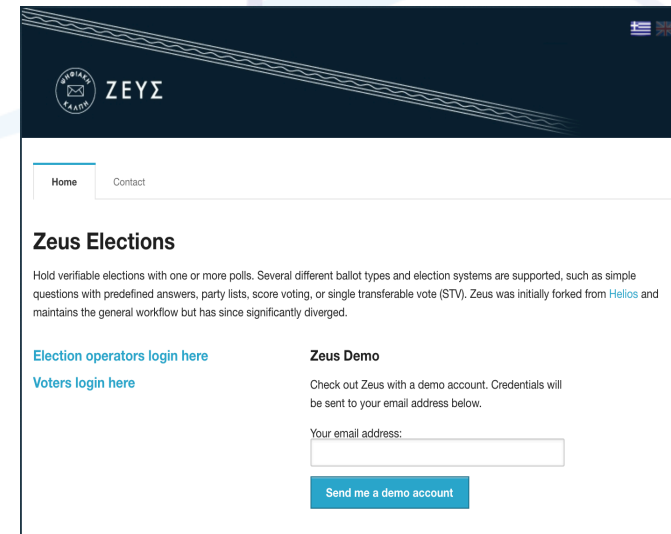
2017 CEF Telecom Call –  
eldentification & eSignature  
(CEF-TC-2017-1)

# SEAL (Student and Citizen Identities Linked)

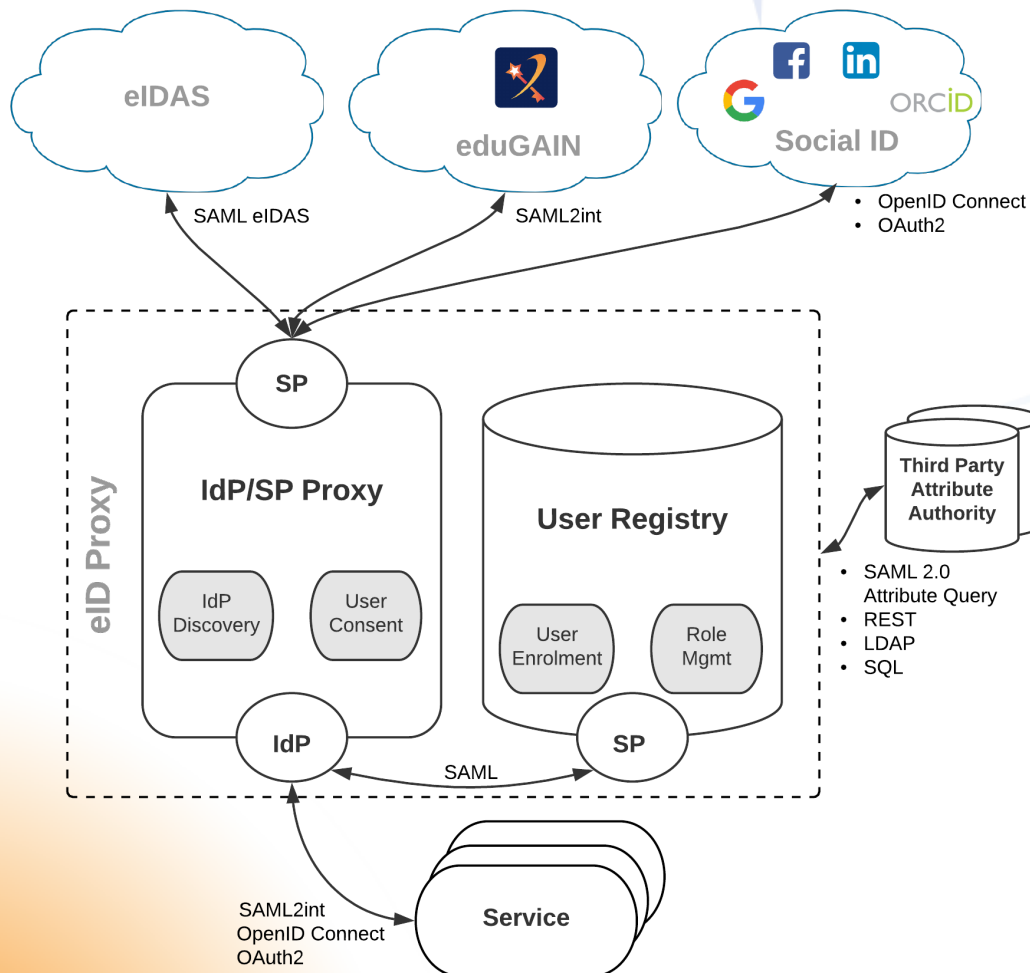
- This Project aims at facilitating the student's mobility. It will seek to combine the benefits of eIDAS eIDs and student and researchers identities (eduGAIN and European Student Identifier) to enable cross-sector interoperability between eIDAS and Higher Education/Research domains. This will be achieved through the deployment of the SEAL linking service platform, which will establish inter-linking mechanisms between identities.
- Once the SEAL linking service platform is established, the services of HEI (Higher Education Institutions) will be customized and integrated with the SEAL platform

# Transformation of Greek e-Gov Services to eIDAS Crossborder Services

- E-voting service “Zeus” connected to eIDAS node
  - “Zeus” is a secure e-voting service provided by GRNET. With “Zeus” users can hold verifiable elections with one or more polls.
  - Several different ballot types and election systems are supported, such as simple questions with predefined answers, party lists, score voting,
  - “Zeus” mainly supports the academic community, but in some cases it is also used outside of the academic environment.



# GRNET eID Proxy



- Single integration point for all SPs
- SAML and OIDC support
- Attribute aggregation from external attribute providers
- Central Policy Definition and Enforcement point
- No need to run an IdP Discovery Service on each SP
- Connected SPs get consistent/harmonized user identifiers and accompanying attribute sets from different IdPs/APs that can be interpreted in a uniform way for authorization purposes

recent  
engagement

Greek eIDAS Node



# Greek eIDAS node

- GRNET has been entrusted to operate, support, maintain and develop the eIDAS node in Greece on behalf of the Ministry of Digital Governance (Member State of the Cooperation Network).
- Today the eIDAS node has

**5**

Connected services

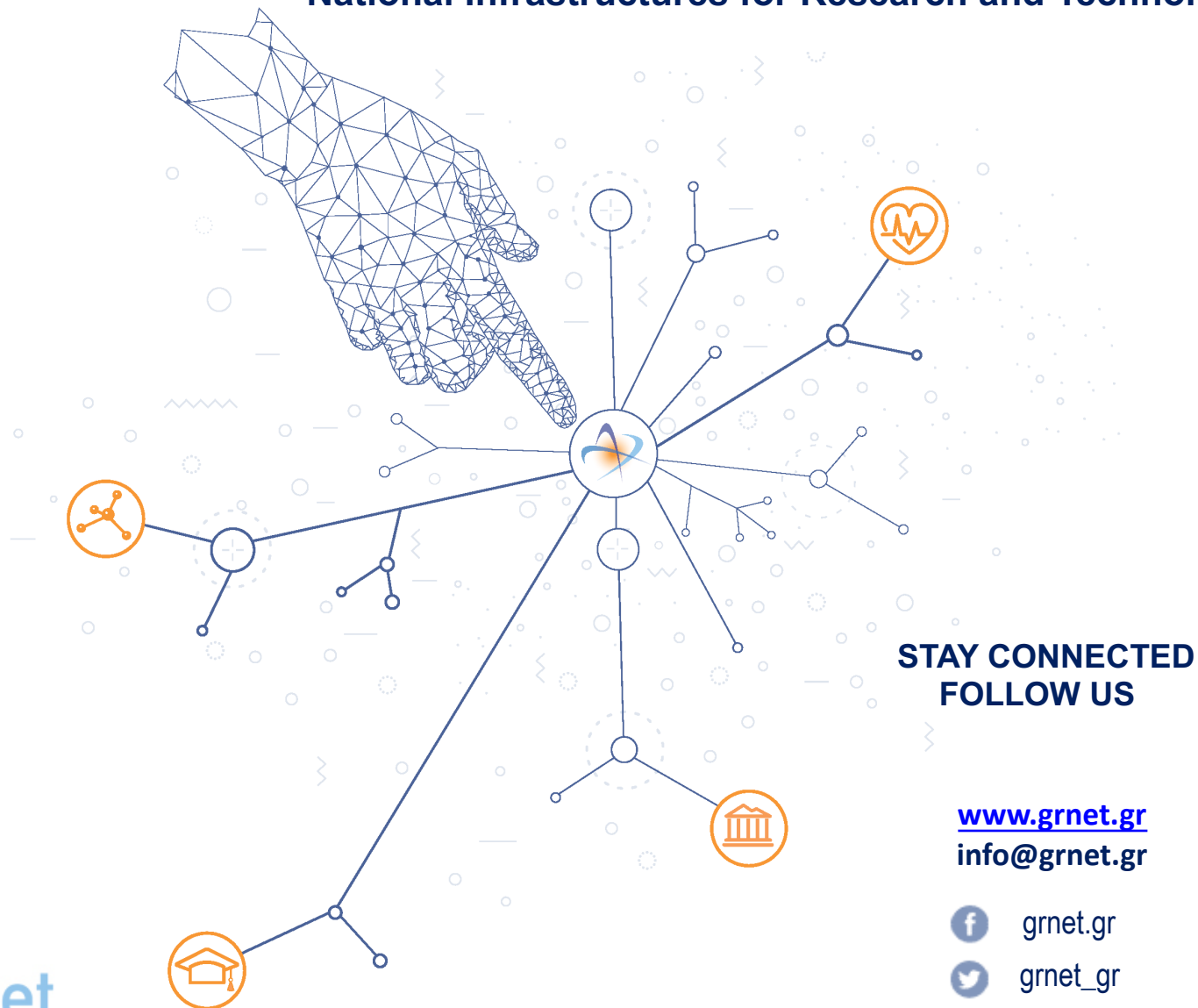
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Connections with other MS



**COUNTRIES WITH eIDAS nodes**

# National Infrastructures for Research and Technology



**STAY CONNECTED  
FOLLOW US**

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