

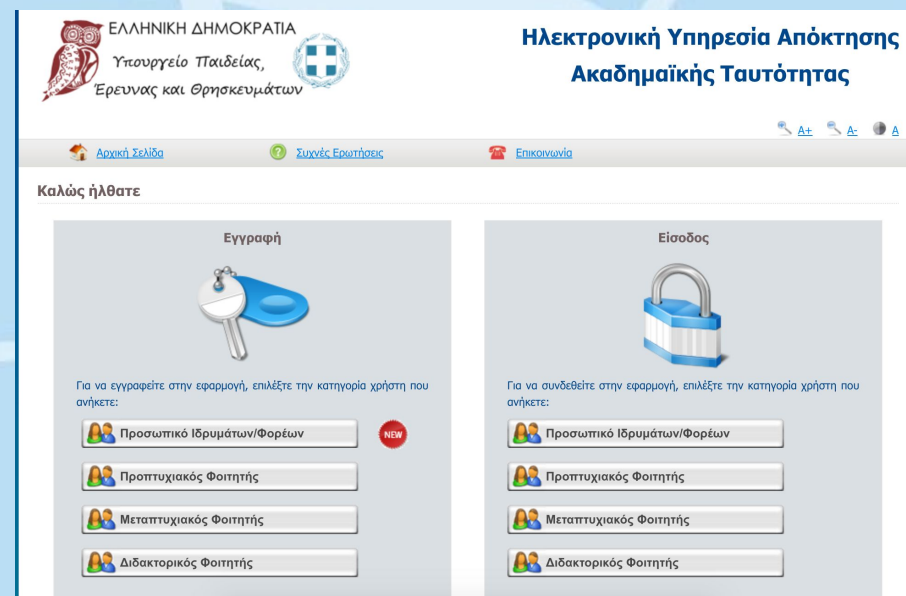
**National Infrastructures for
Research and Technology
eIDAS and Academic Identity Card
online service**

Nicolas Liampotis & Charitini Bliatsiou

The AcademicID e-service enables all undergraduate, postgraduate and doctoral students of Greek Universities and Technical Educational Institutions to submit an electronic application for an academic identity card.

“AcademicID” mainly supports the academic community. Now it supports eGOV IDs in AcademicID:

- apply for a Greek AcademicID and, thus gain access to several
 - student discounts and
 - benefits provided by the Greek Universities, the State or even private entities.



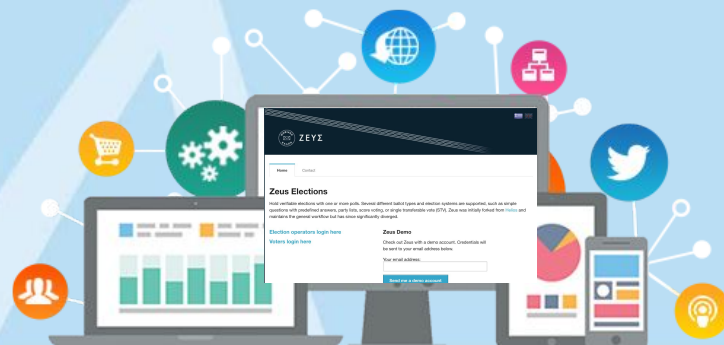
The screenshot shows the Greek AcademicID e-service website. At the top, it features the logo of the Hellenic Republic (ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ) and the Ministry of Education, Research and Religious Affairs (Υπουργείο Παιδείας, Έρευνας και Θρησκευμάτων). The main heading is "Ηλεκτρονική Υπηρεσία Απόκτησης Ακαδημαϊκής Ταυτότητας". Below this, there are navigation links for "Αρχική Σελίδα", "Συχνές Ερωτήσεις", and "Επικοινωνία". The main content area is titled "Καλώς ήλθατε" and is divided into two columns: "Εγγραφή" (Registration) and "Είσοδος" (Login). Each column contains a list of user categories with corresponding icons and buttons. The "Εγγραφή" column includes: Προσωπικό Ιδρυμάτων/Φορέων (with a "NEW" badge), Προπτυχιακός Φοιτητής, Μεταπτυχιακός Φοιτητής, and Διδακτορικός Φοιτητής. The "Είσοδος" column includes: Προσωπικό Ιδρυμάτων/Φορέων, Προπτυχιακός Φοιτητής, Μεταπτυχιακός Φοιτητής, and Διδακτορικός Φοιτητής. Below each category is a button with a user icon and the category name.

e-Signature and Erasmus Student eCard
CEF-TC-2017-1 – eIdentification and eSignature (eID)

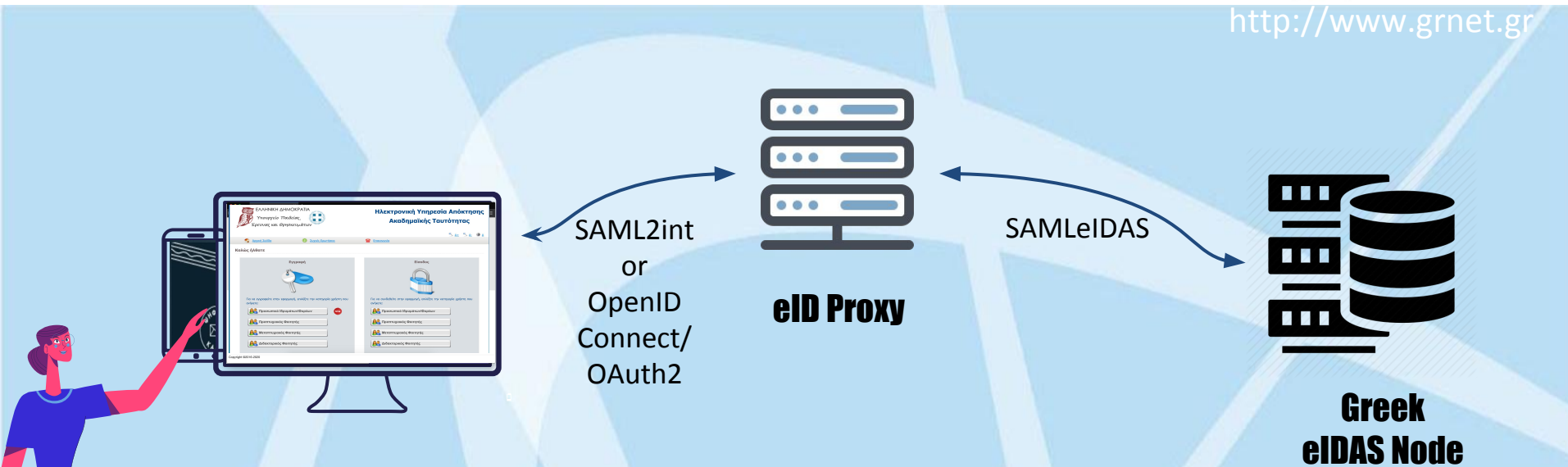
A service to enable use of eIDs for accessing Academic Services

Features

- Secure access to services based on popular standards such as SAML 2.0, OpenID Connect and OAuth 2.0
- Integrates with Identity Providers (eIDAS, eduGAIN, social networks) as identity sources
- Aggregates user attributes from different sources
- Provides a harmonised set of attributes to the connected services



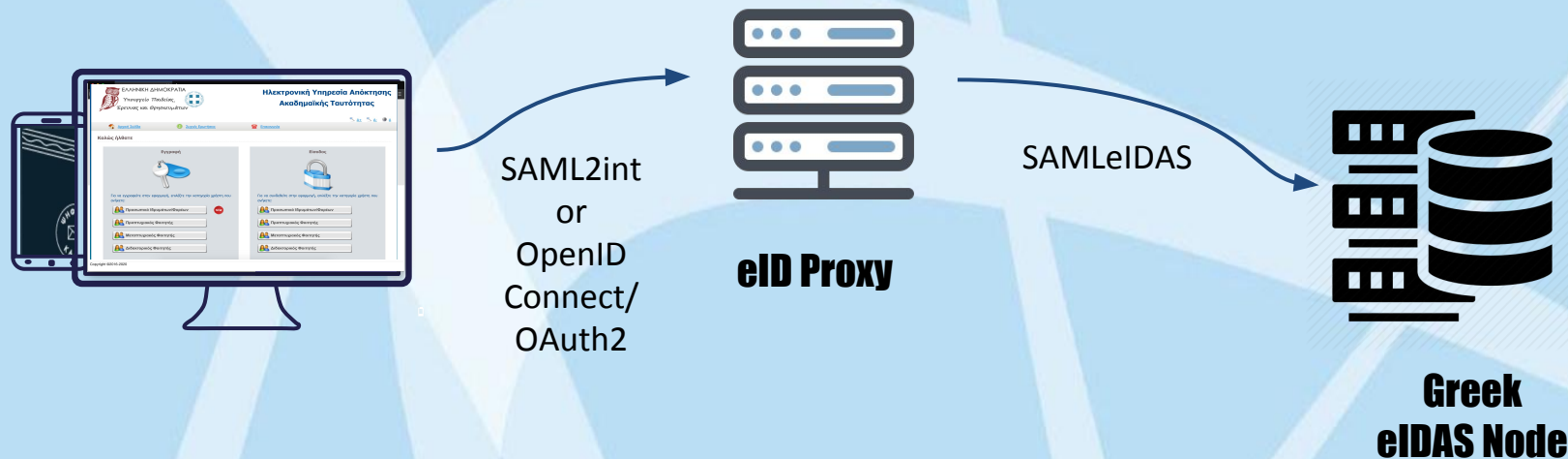
GRNET eID Proxy



The **interconnection of a service** with the national eIDAS node allows offering trustworthy services to users who are either outside of the academic sector or don't have an academic ID.

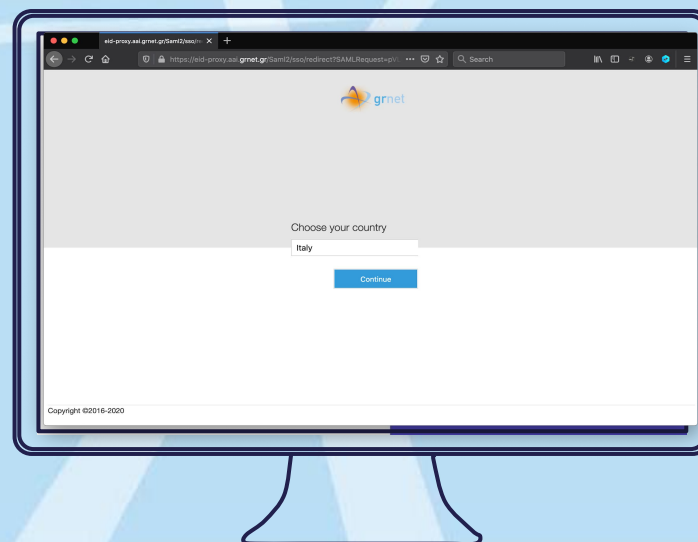
Support of eIDs can enable access from other EU countries where users can use their own national electronic identification schemes.

GRNET eID Proxy - User authentication flow



STEP 1: Users selects country of origin

STEP 2: AuthN request to Greek eIDAS Node

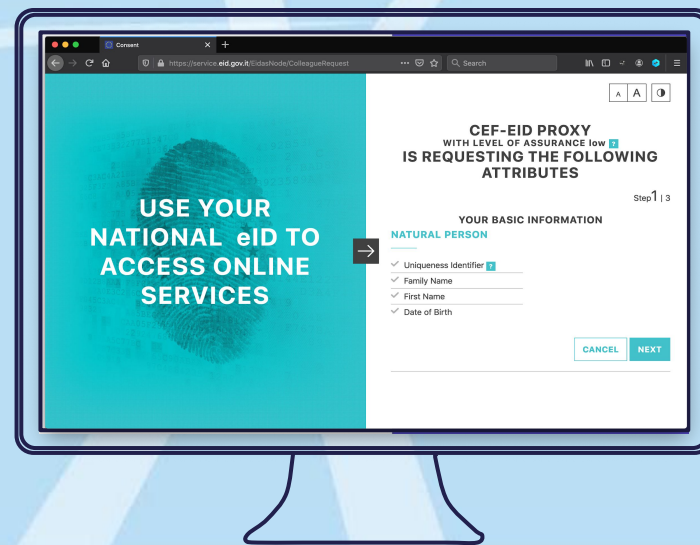


GRNET eID Proxy - User authentication flow



STEP 3: AuthN request to user's country of origin eIDAS node (Home eIDAS Node)

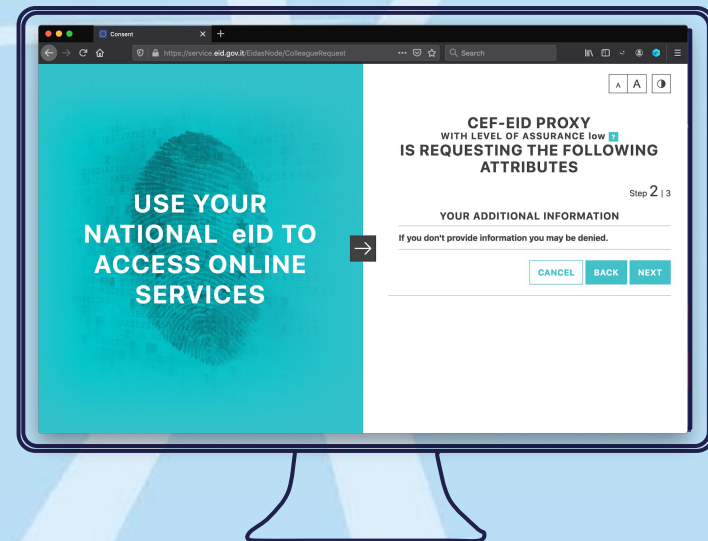
STEP 4: User informed about requested attributes





**Home
eIDAS Node**

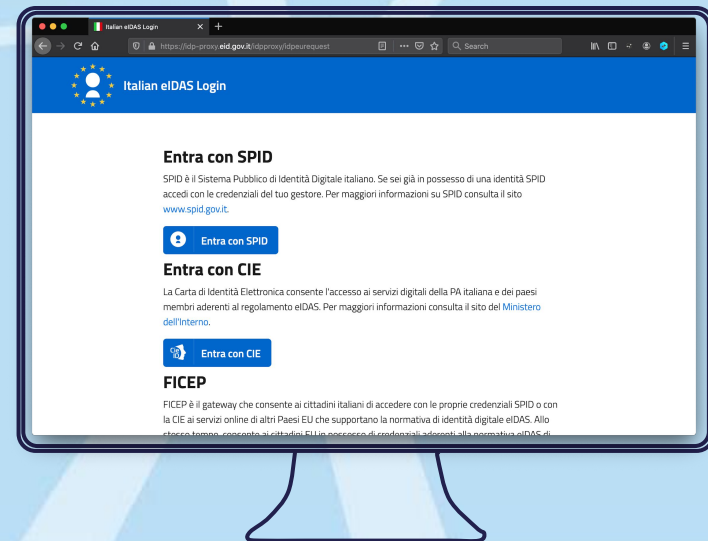
STEP 5: User consents to the request for attributes





**Home
eIDAS Node**

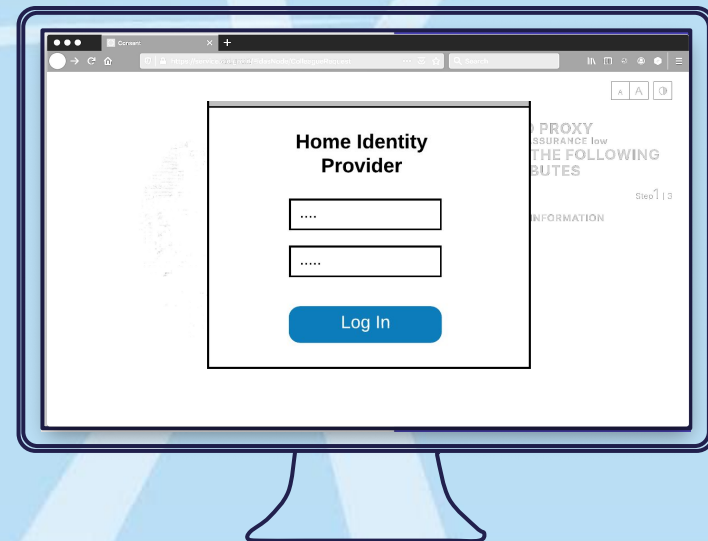
STEP 6: User selects Home Identity provider





**Home
Identity Provider**

STEP 7: User authenticates using his/her credentials





Home eIDAS Node

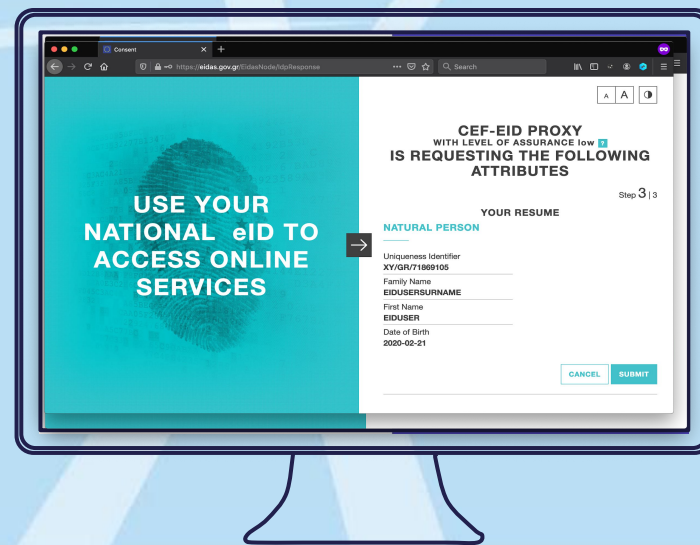


Home Identity Provider

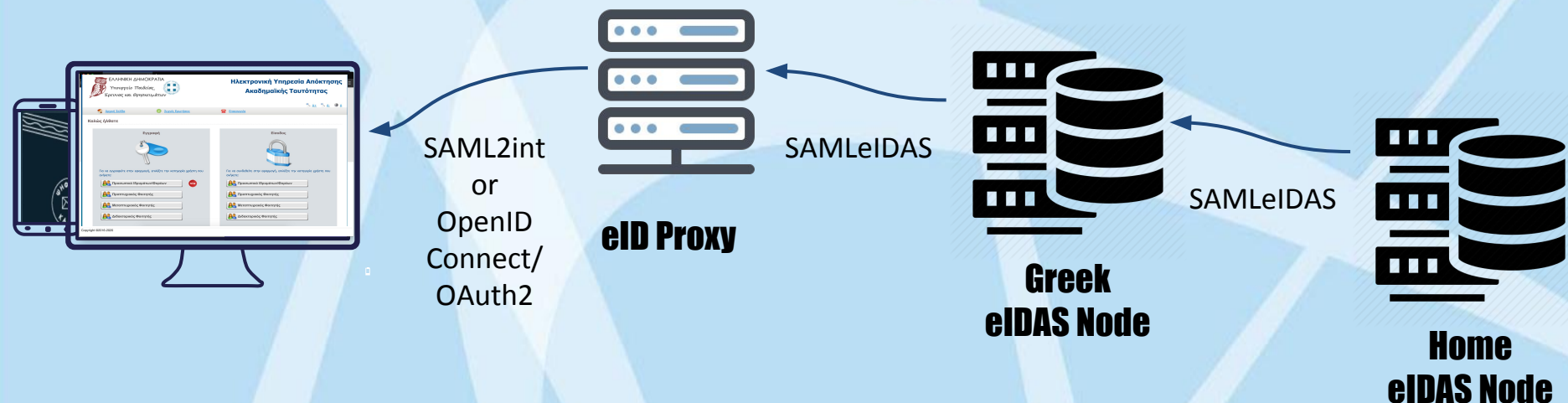
STEP 8 Home Identity Provider releases attributes to Home eIDAS Node

STEP 9 User informed about released attribute values

STEP 10 User consents to the release



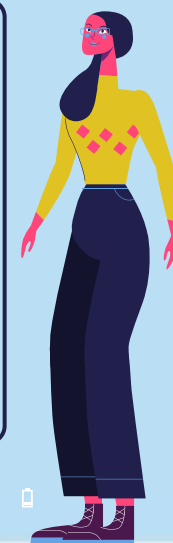
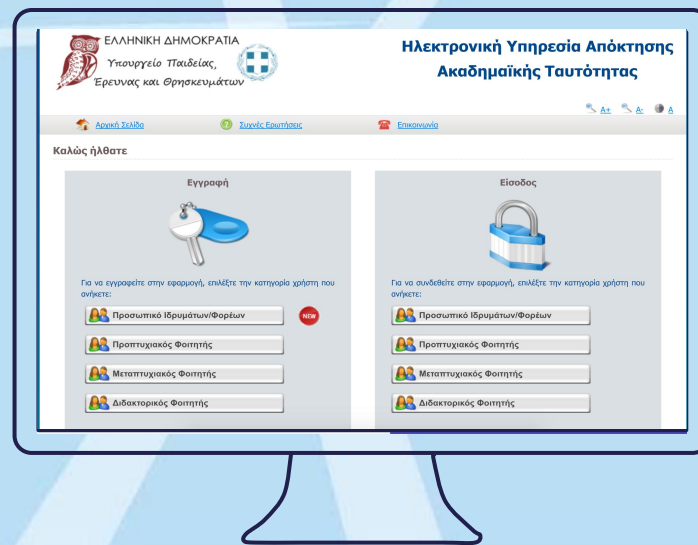
GRNET eID Proxy - User authentication flow



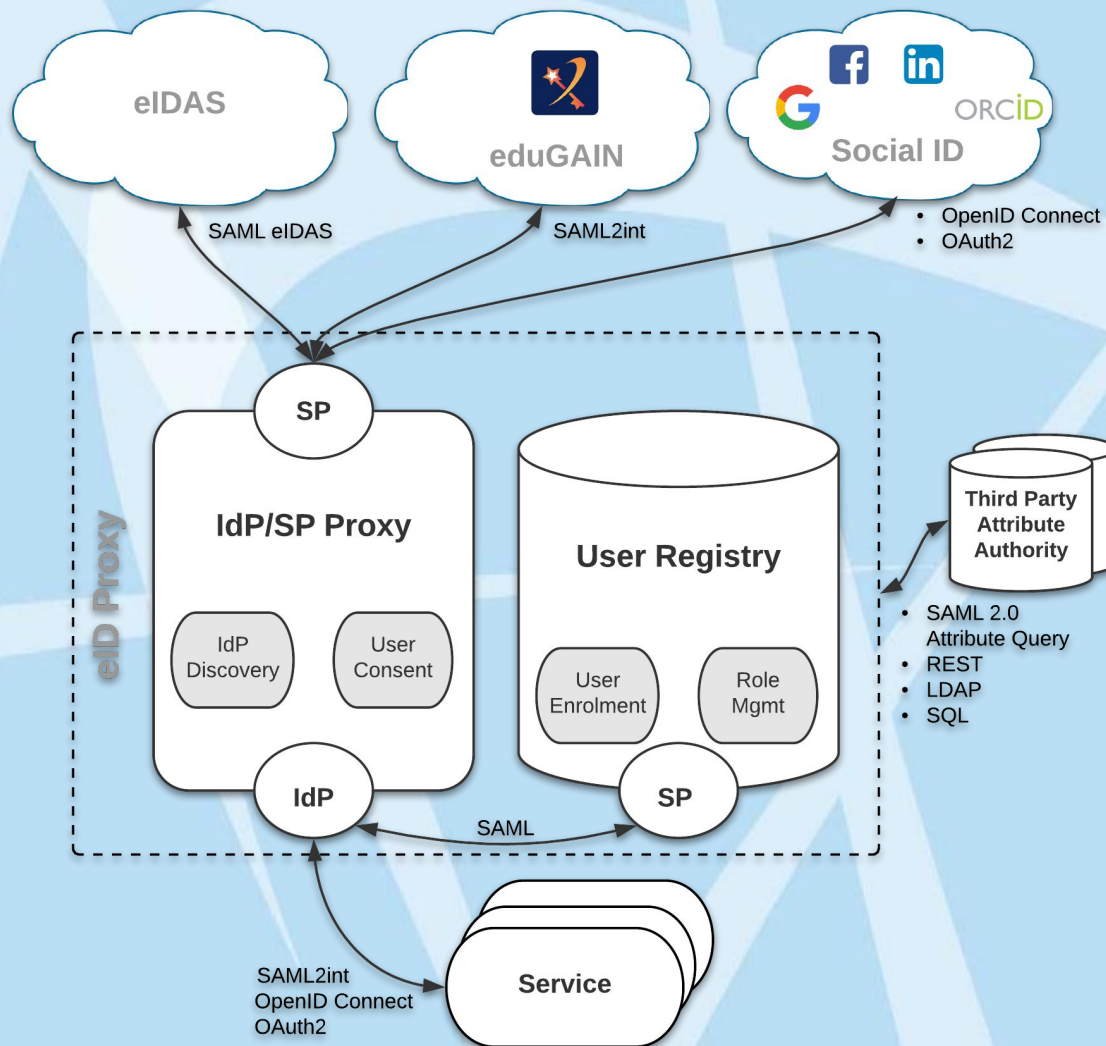
STEP 11 Home eIDAS Node releases attributes to Greek eIDAS Node

STEP 12 Greek eIDAS Node releases attributes to GRNET eID Proxy

STEP 13 GRNET eID Proxy releases attributes to service (e.g. AcademicID)



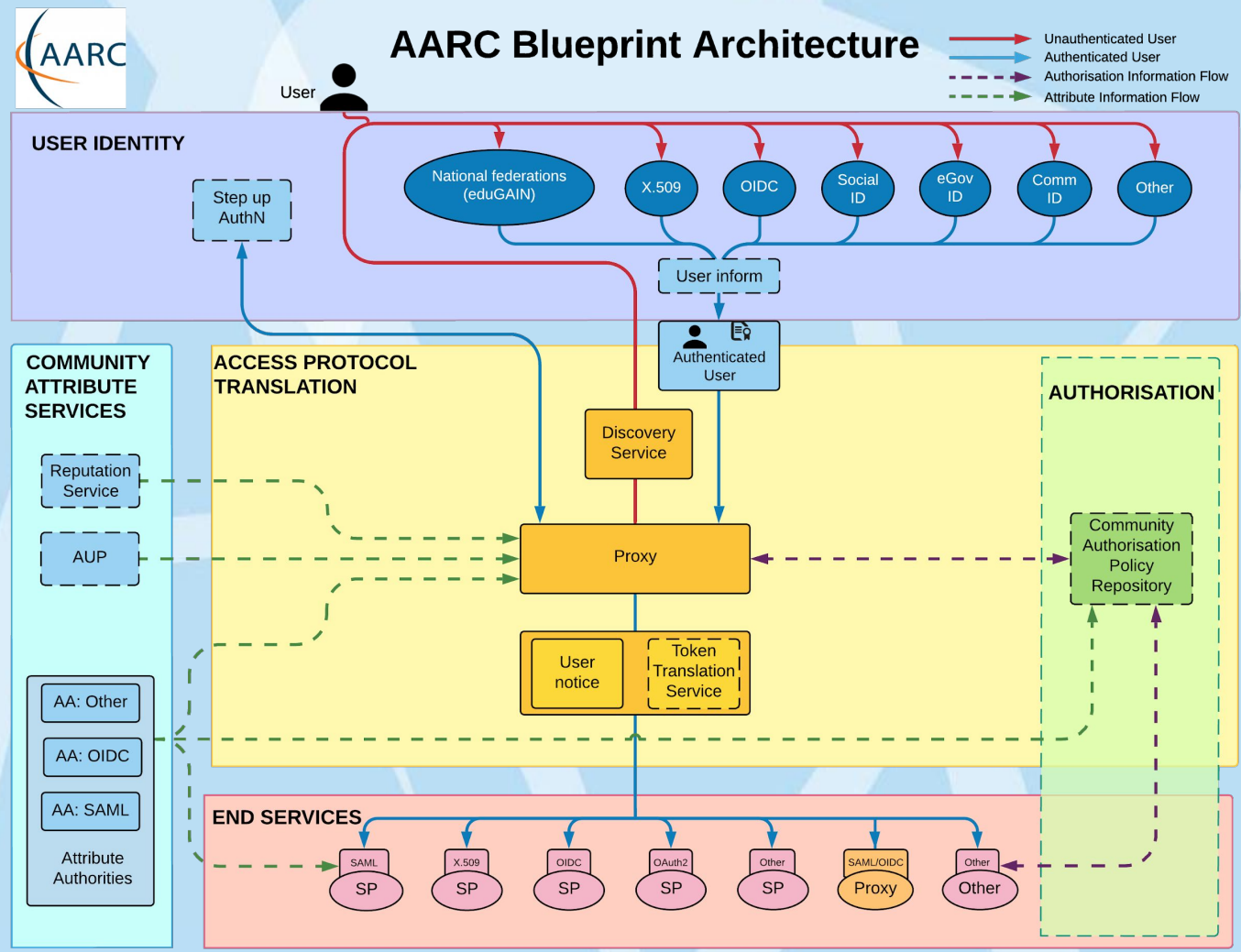
GRNET eID Proxy - Architecture



GRNET eID Proxy - Architecture

- Single integration point for services based on standard protocols (SAML, OpenID Connect/OAuth2)
- Attribute aggregation from external Attribute Providers (APs)
- 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

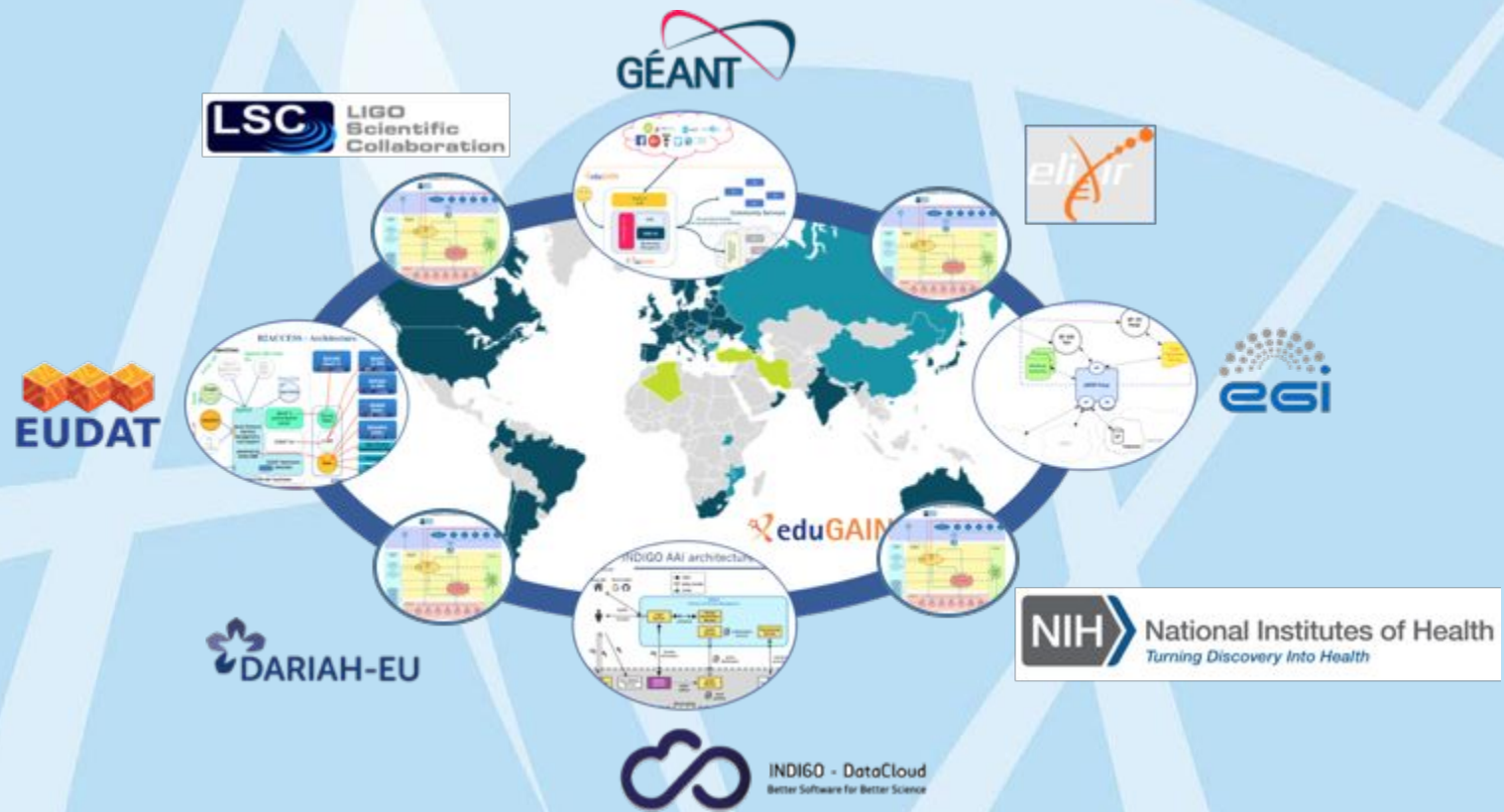
GRNET eID Proxy - AARC BPA Implementation



GRNET eID Proxy - AARC BPA Implementation



AARC BPA Implementations



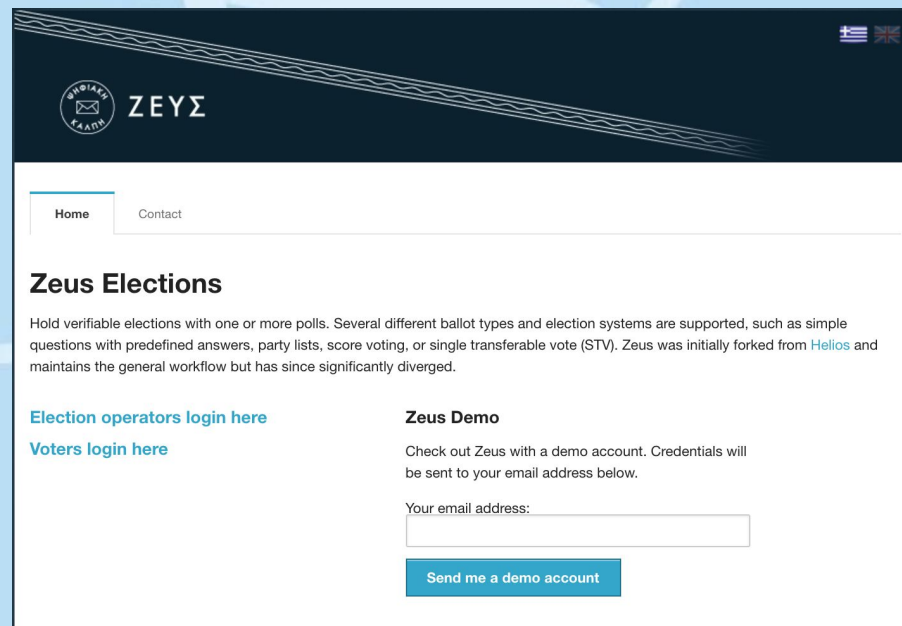
- Built on open-source software and tools:
 - SATOSA
 - COmanage Registry
- Supported by large communities
- Used in production
- Address a wide range of use cases for research and education (LIGO Scientific Collaboration, NIH/NIAID International Centers for Excellence in Research – NIAID Science Forum)
- Customisable workflows for onboarding users
- Registry for persistent globally unique user identifiers
- Use of standard attribute schemata for maximising interoperability

Zeus e-voting eID 2FA

“Zeus” is a secure e-voting service provided by GRNET. With “Zeus” users can hold verifiable elections with one or more polls. It supports different ballot types and election systems.

“Zeus” mainly supports the academic community, but in some cases it is also used outside of the academic environment.

Now it also supports eIDs.



The screenshot shows the Zeus Elections website interface. At the top, there is a dark header with the Zeus logo (a circular emblem with a scale and a ballot) and the word "ZEUS" in white. Below the header, there is a navigation bar with "Home" and "Contact" links. The main content area is titled "Zeus Elections" and contains a paragraph of text: "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, or single transferable vote (STV). Zeus was initially forked from Helios and maintains the general workflow but has since significantly diverged." Below this text, there are two columns of links: "Election operators login here" and "Voters login here" on the left, and "Zeus Demo" on the right. Under "Zeus Demo", there is a short paragraph: "Check out Zeus with a demo account. Credentials will be sent to your email address below." Below this is a text input field labeled "Your email address:" and a blue button labeled "Send me a demo account".

**Transformation of Greek e-Gov Services to eIDAS Crossborder Services
CEF-TC-2015-2 – eIdentification and eSignature (eID)**

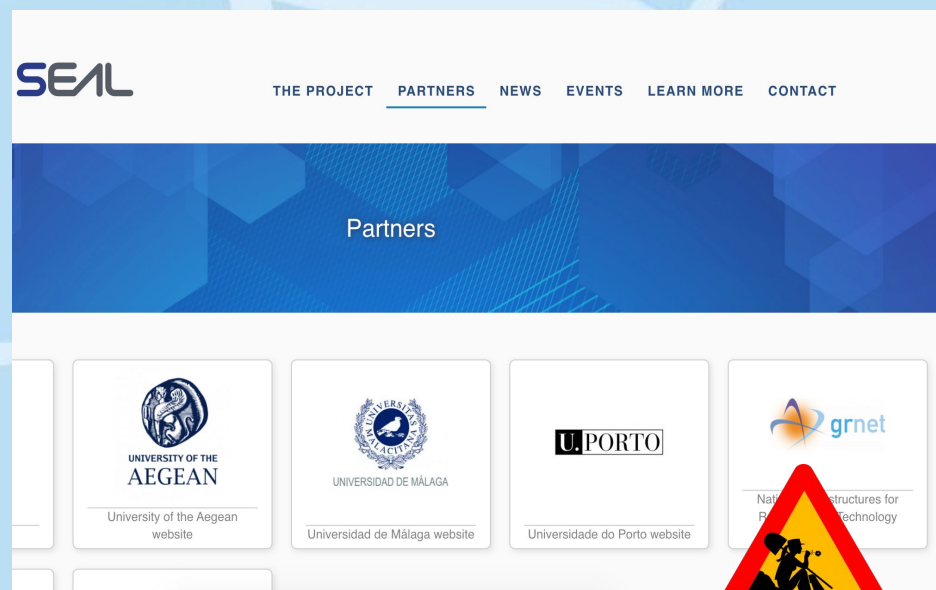
SEAL- StudEnt And citizen identities Linked

<http://www.grnet.gr>

The action aims at combining the benefits of Member-State backed citizen (natural person identification and authentication through eIDAS) and student and researchers identities (eduGAIN from GÉANT and European Student Identifier from European Student Card) to enable a cross-sector interoperability between eIDAS and Higher Education/ Research domains.

The SEAL platform will include the following modules/interfaces:

- Identity Provider Interface and Modules
- Identity bootstrapping
- Identity management
- Service Provider Interface and Modules
- Validation Interface and Modules

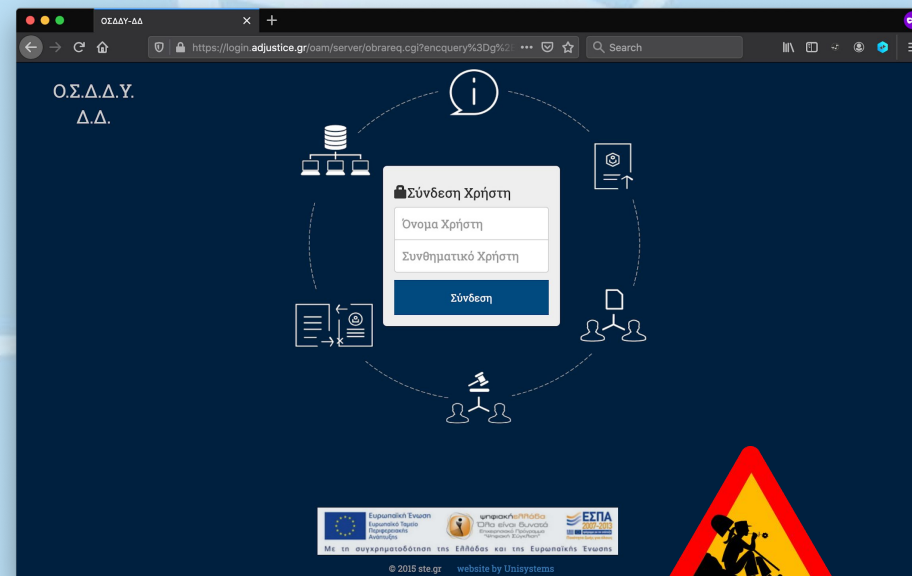


**SEAL - StudEnt And citizen identities Linked (CEF) -
TELECOMMUNICATIONS SECTOR AGREEMENT
INEA/CEF/ICT/A2018/1633170.**

The Greek Justice System has made clear steps towards digitizing its operations and offered services. A new issue is the ability to integrate with existing identification and authorization services in national and pan-European level.

The scope of eThemisID is

- to implement the necessary components and integrate them with existing systems to offer eIDAS and e-signature compliant services to its end-users in an EU-wide level
- To integrate the implemented components with at least one of the three major Greek Courts,
- To showcase eIDAS and e-Seal functionality



Integrating the Greek Justice System with eIDAS and e-signature services: CEF-TC-2020-1 – eidentification and eSignature (eID): INEA/CEF/ICT/A2019/1926069

Demo

Academic Identity Card online service

Thanks for your attention!

Questions?