

## **GÉANT Trust & Identity**

## **Overview for SIG-MSP**

19<sup>th</sup> January 2021 Marina Adomeit, SUNET

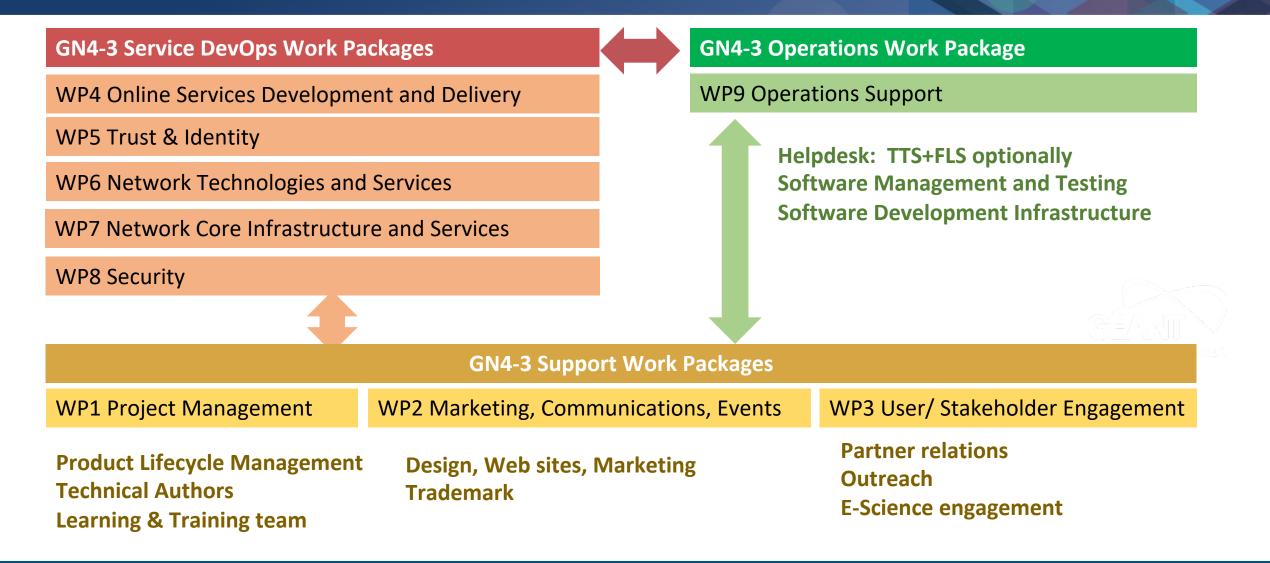


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## Work Packages in GN4-3

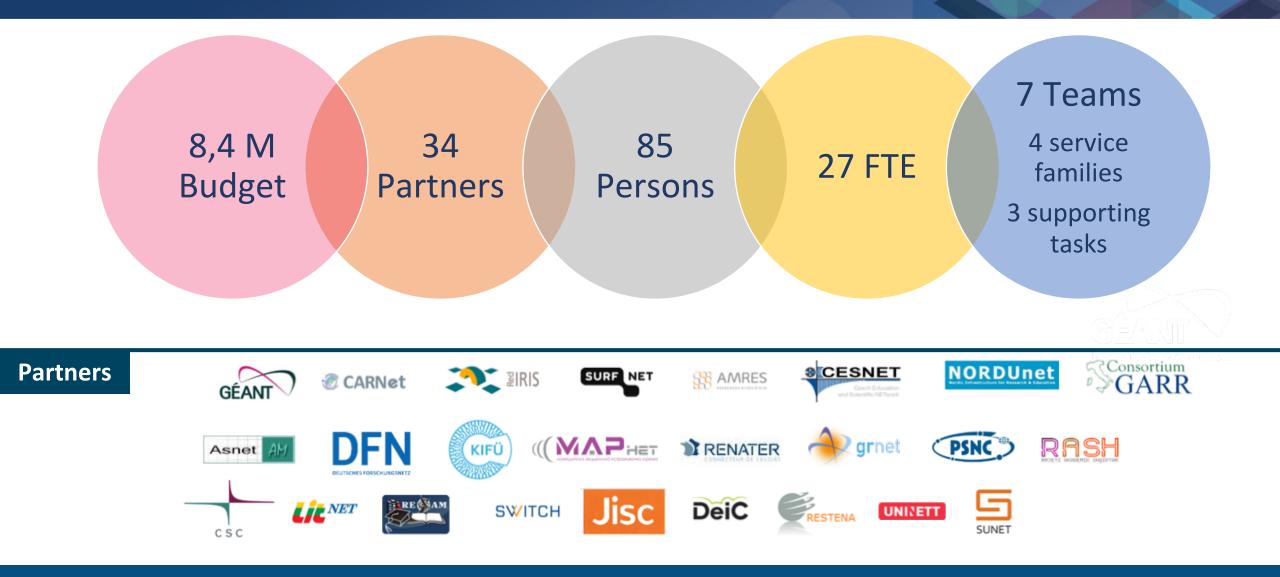
#### GN4-3 : Jan 2019 – Dec 2022





## The TEAM!





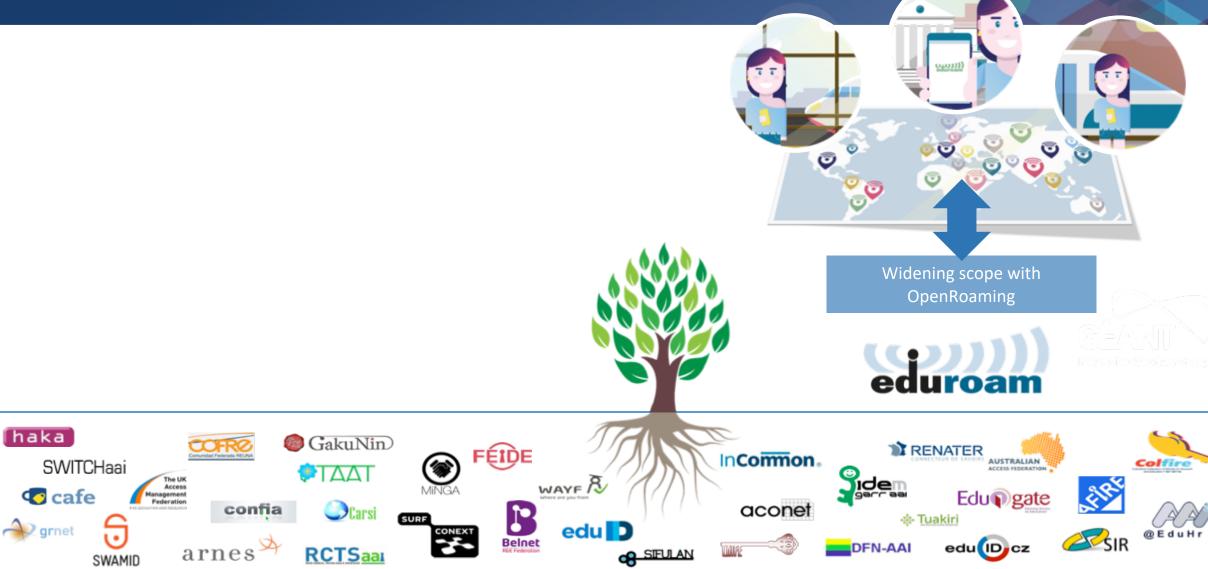
### **T&I service portfolio** *The big picture*





### **T&I service portfolio** *The big picture*







### **T&I Team and Key Collaborations** Expanding the reach of T&I to the broader community



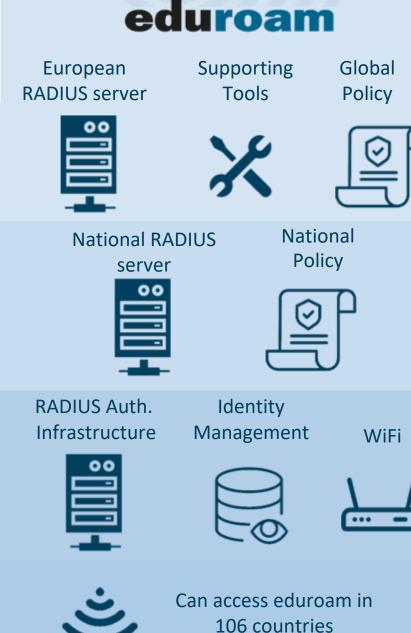




GÉANT

National Roaming Operator

R&E Institution





## Access to thousands of eduroam WiFi locations worldwide, with R&E institutional identity



User





GÉANT

#### National Roaming Operator

R&E Institution

User



eduroam



## Access to thousands of eduroam WiFi locations worldwide, with R&E institutional identity

#### **Operation of Core Service Elements**

- European top-level RADIUS server in Netherlands
- European top-level RADIUS server in Denmark

#### **Operation of Support Service Elements**

- Monitoring, diagnostics and metering tools: monitor.eduroam.org
- Database: <u>monitor.eduroam.org/db\_web/</u>
- Configuration Assistant Tool: <u>cat.eduroam.org</u>
- eduroam Managed IdP: <u>hosted.eduroam.org</u>

#### Support and Community

- Main site: <u>www.eduroam.org</u>
- Wiki pages: wiki.eduroam.org
- L1 support : <u>help@eduroam.org</u>
- L2 support in various channels
- Participation to the GeGC
- Steering Group chairing

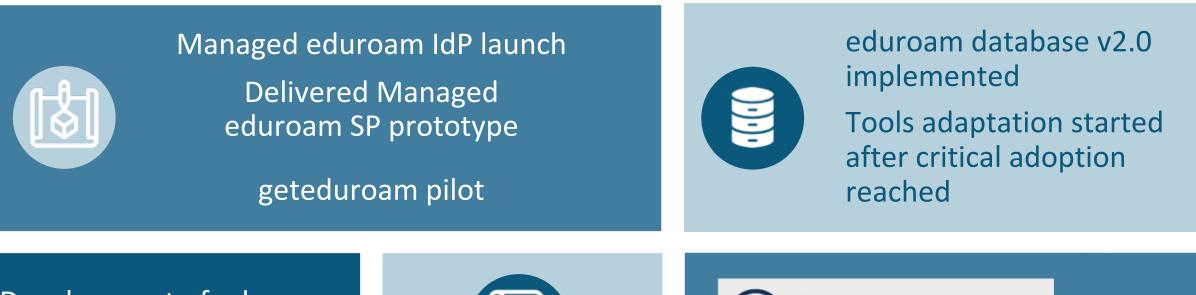
#### **Standardisation bodies**

- Open Roaming (WBA)
- WiFi Alliance
- Internet Engineering Task Force (IETF)

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Development of eduroam audits in progress

Regular releases of CAT

eduroam policy change in progress

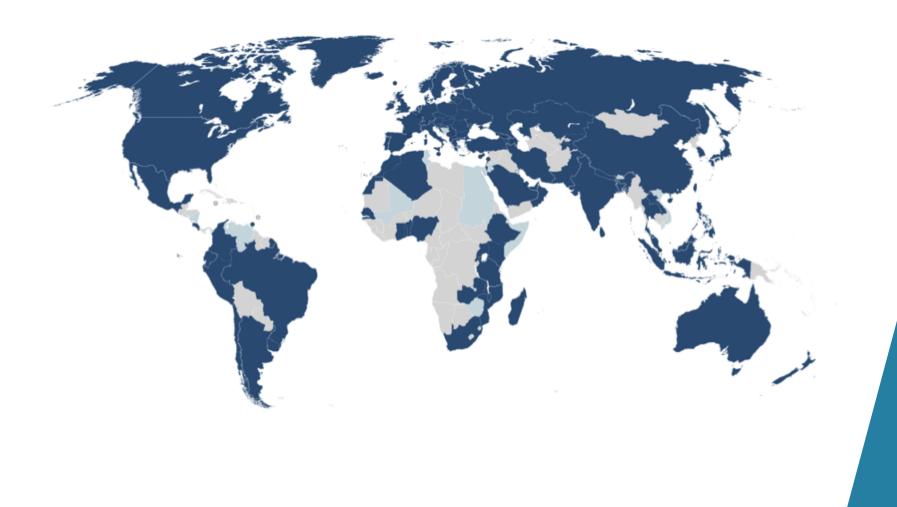




WBA Integrator Participant

## **eduroam** Service uptake – National Roaming Operators (NROs)





**106** Countries

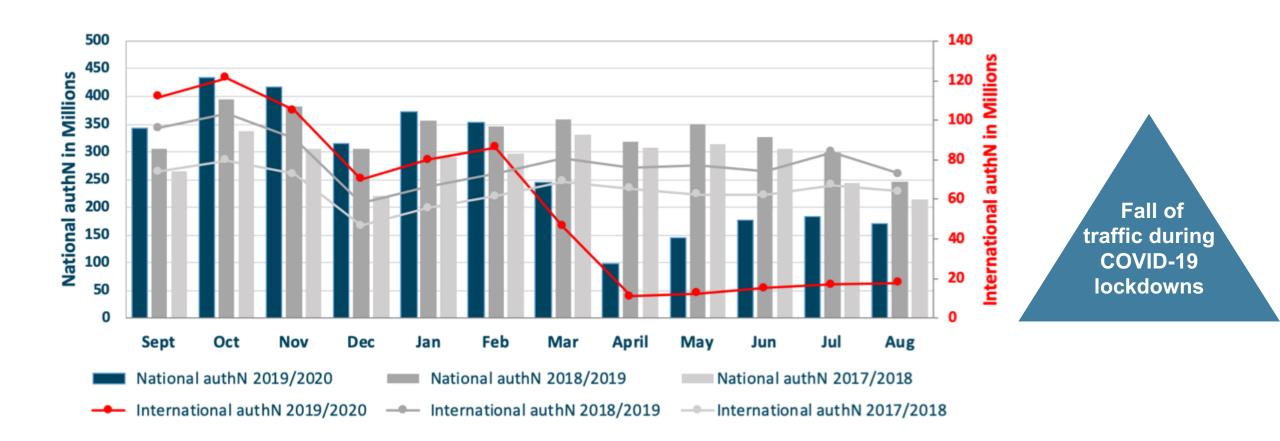
6000+ Institutions

**28,000+** Service Locations



#### *Service uptake – number of user authentications*

eduroam





Global

Policy

Global Metadata Supporting Tools

Service

GÉANT

Identity Federation

R&E Institution

National Metadata National Service Policy SAML Auth Identity Web Service Infrastructure Management Can use over 2900 Web services



Access to thousands of WebSSO services available via eduGAIN, with R&E institutional identity







Global

Policy

Web Service

Global Metadata Supporting Tools

Service

National Metadata

Service



#### Access to thousands of WebSSO services available via eduGAIN, with R&E institutional identity

#### **Operation of Core Service Elements**

- Metadata Service (MDS): mds.edugain.org
- Metadata Validator: validator.edugain.org

#### **Operation of Support Service Elements**

- Technical site: <u>technical.edugain.org</u>
- Entities database: technical.edugain.org/entities
- Federation as a Service

#### **Support and Community**

- Main site: <u>edugain.org</u>
- Wiki pages: wiki.edugain.org
- Support contact: <u>support@edugain.org</u>
- Security contact: <u>abuse@edugain.org</u>

#### Collaboration

- <u>REFEDS</u>
- FIM4R
- <u>Seamless access</u>

## \_\_\_\_

GÉANT

#### Identity Federation

R&E Institution





SAML Auth

Infrastructure

Can use over 2900 Web services

National

Policy

Identity

Management

## **Contract Secure Allow** *Focus on activities*





#### eduGAIN support team – in GN4-3 period 1

193 tickets resolved60 errors resolved by proactive support

eduGAIN operations

Training and Outreach ASREN training material

#### eduGAIN security team

Established team Security response procedure developed with SIRTFI WG

edugain.org/edugain-security

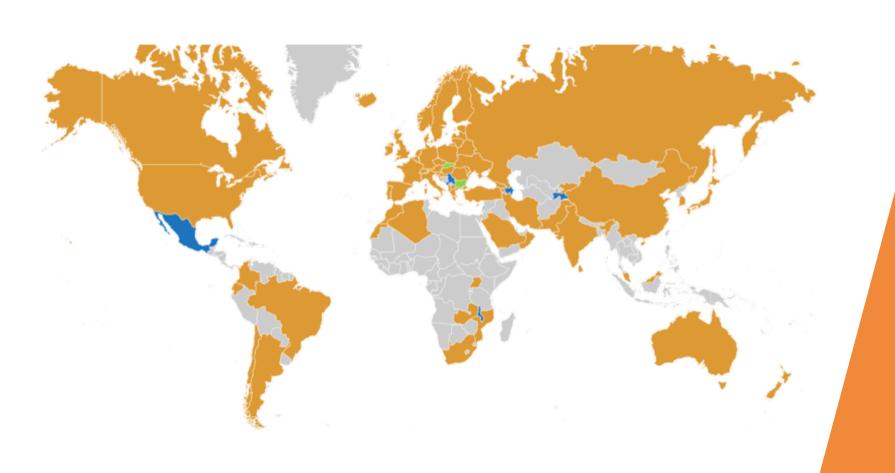


<u>Metadata aggregation practice statement</u> published <u>Operational Practice Statement</u> published

Periodical updates to the MDS and introduced versioning of metadata feeds

# **Service uptake – Identity Federations**





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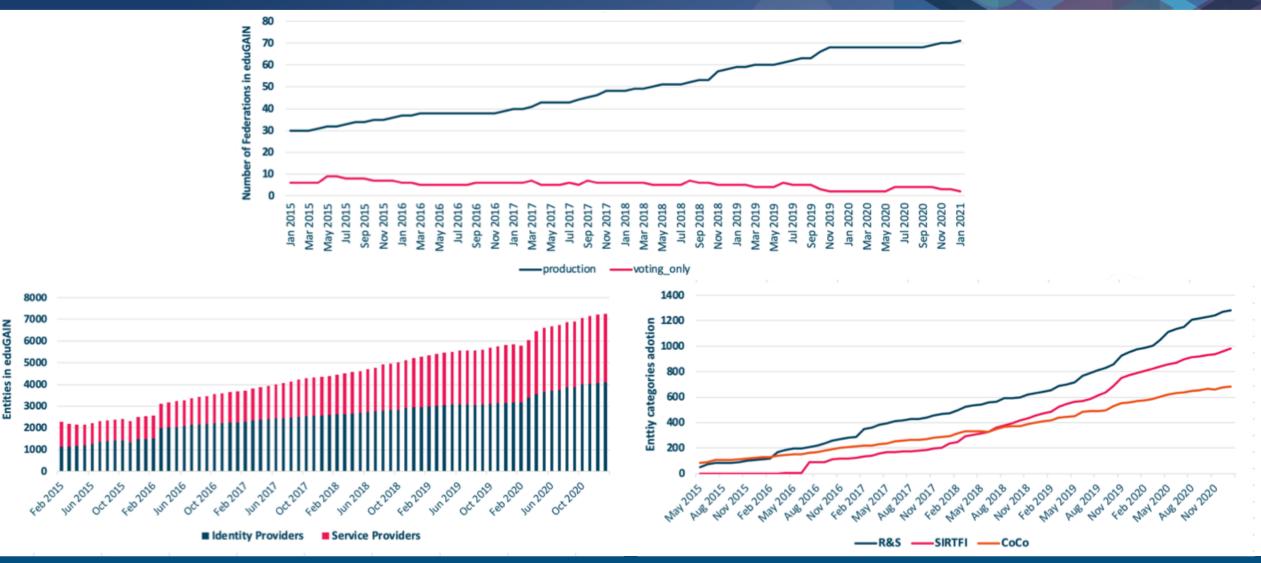
Identity Federations

### **4127** Identity Providers

### **3164** Service Providers

# **Service uptake – number of identity federations**







3600+ IdPs in eduGAIN

Challenge to properly implement IdP discovery

Many SPs, such as publishers, still rely on IP-based authorisation









3600+ IdPs in eduGAIN

Challenge to properly implement IdP discovery Many SPs, such as publishers, still rely on IP-based authorisation



Access through your institution



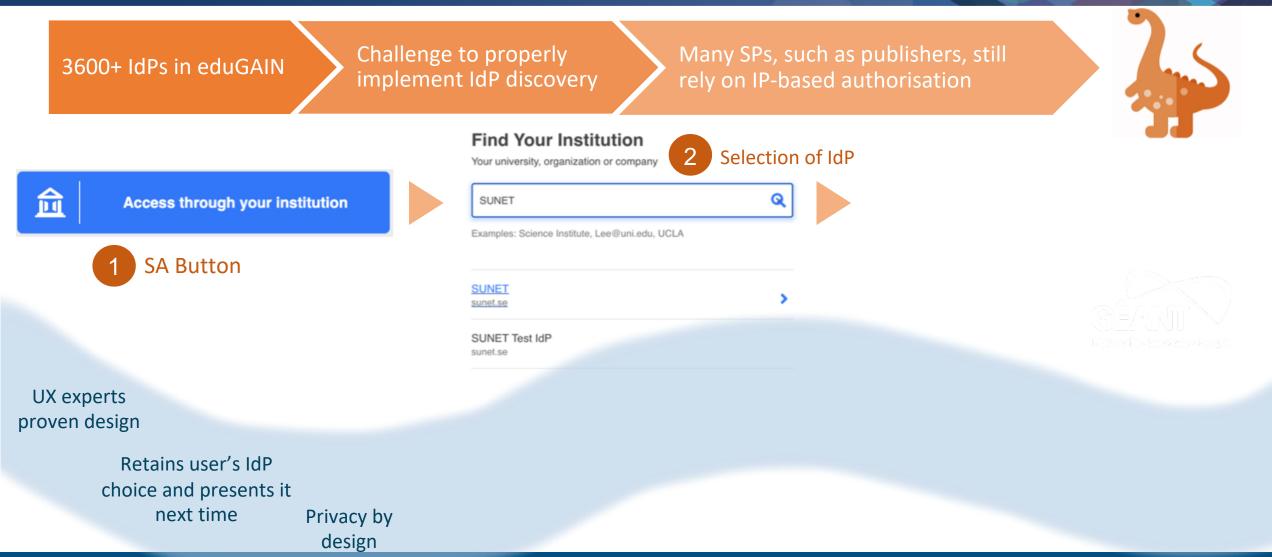


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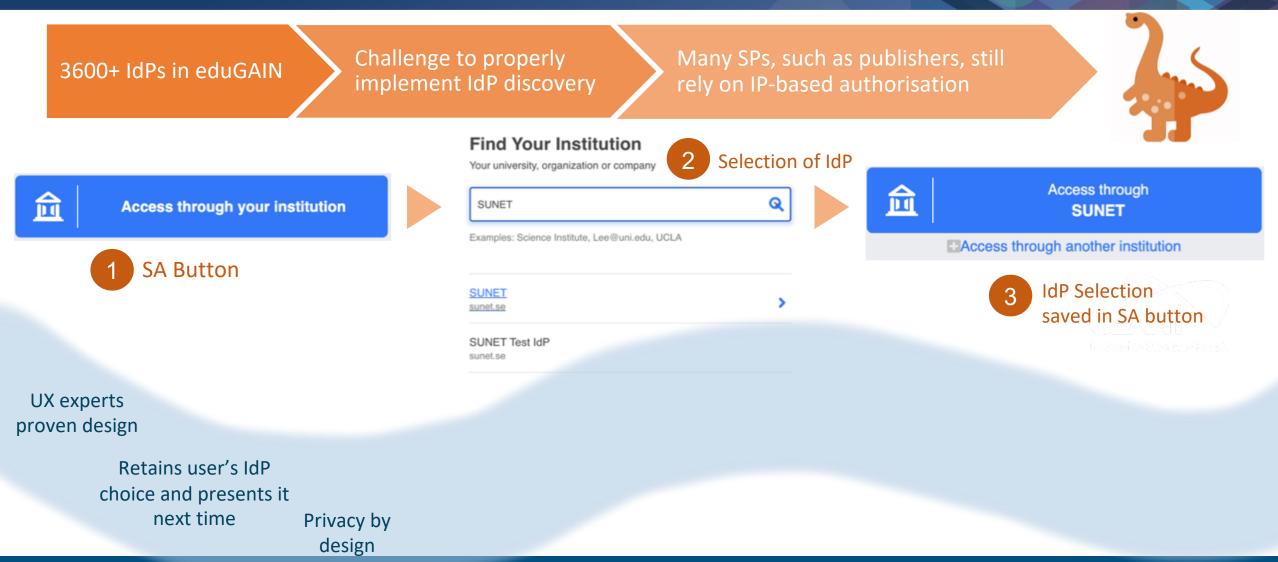
Retains user's IdP choice and presents it next time Privacy by design



















AAlaaS



**Connects** 

services

<u>85</u>

Manages

access

E,

Research collaborations or NRENs

**GÉANT** 





Manages

groups

Federated access to research resources

Implements AARC Blueprint Architecture and expands eduGAIN to support virtual teams to share resources







#### eduTEAMS Service

- Shared platform that can be used by small- to medium-size communities and the long tail of science
- Managed and operated by GÉANT
- eduTEAMS branding
- eduTEAMS service policies
- Connected to EOSC
- Onboarding of communityspecific services

#### eduTEAMS Dedicated

- Dedicated, white-label service offering, specific to a community
- Managed by the community, operated by GÈANT
- Community branding and customisation
- Community managed policies
- Can be connected to EOSC
- Onboarding of community specific services

#### eduTEAMS Bespoke

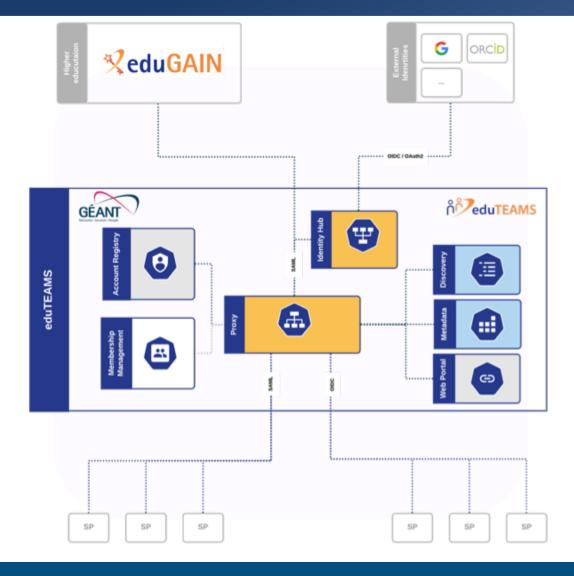
- For communities that need tailormade functionalities (i.e. integration with other tools)
- Ownership model depended on the solution, operated by GÉANT
- Consultancy and development as needed





#### Managing virtual teams made easy





- Users sign in to services with their **community identity** via eduTEAMS
- Users register once and access any service (available to the their community)
- Reduces complexity for Service Providers by providing one integration point for all services
- Integration with GÉANT, EOSC and other communities and/or eduGAIN services



### Deployments and Achievements



eduTEAMS Service	Production			
FENIX Research Infrastructure	Production			
PaNOSC (UmbrellaID)	Production			
RedIRIS   NextGEOSS	Production			
VESPA (EuroPlanet)	Production			
LAGO	Production			
SURF Research Access Management	Production			
EOSC Life	Transition to Production			
GN4-3	Implementation			
EUROFusion	Implementation			
OCRE	Implementation			
ARCHIVER	Implementation			





eduTEAMS technology underpins AAI for Student mobility

eduTEAMS solution for HPC community



SaaS to validate "studentess"





Student tailored

offerings

Community

Governed

OIDC Auth Infrastructure



**Students** 

**Merchants** 



Can make use of student tailored offerings, without disclosing any additional privacy details The real-time, digital equivalent of asking a student to show their student card to access or buy discounted or specialist services and products

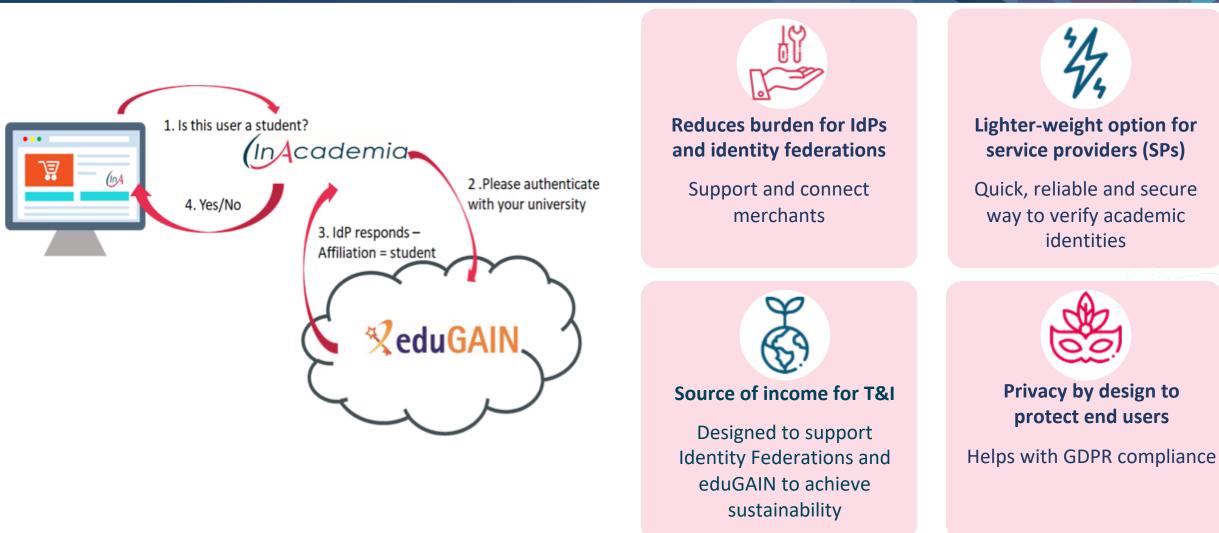






#### Adding value to identity federations



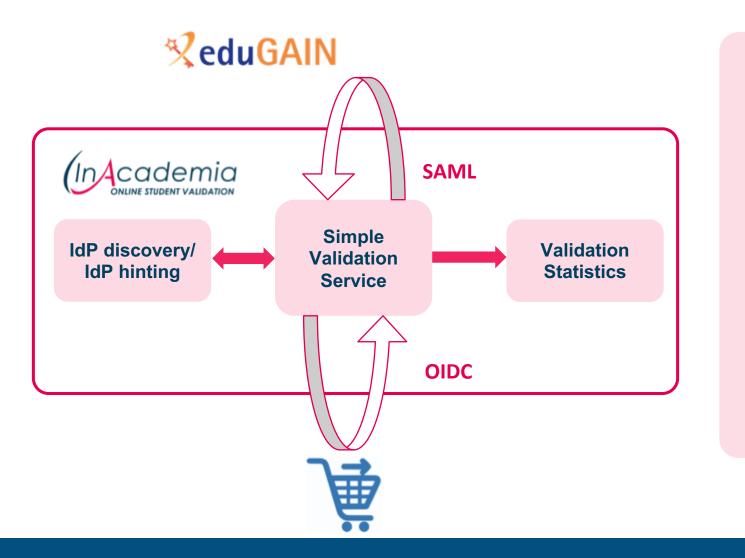


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#### Validating students made easier





- Merchant integrates validation as part of its process (typically during check out)
- One integration point for all eduGAIN IdPs
- Users validates affiliation to academia in the same way they use their federated identity
- Service infrastructure designed to be highly available
- Collect statistics that are necessary for invoicing model







- Production service since February 2020 over 200.000 validations
- Two service editions: 'Commercial' and 'Community'
  - Same governance and operational infrastructure
  - $\circ$   $\;$  Two different models: paid and free to use
  - Defined eligibility criteria and service Constitution
- Designed to be promoted in collaboration with national identity federations and NREN outreach/marcomms teams
- Actively participating federations Netherlands, Germany, Denmark, Spain, Sweden, France
- Steering Committee composed of participating federation, meets quarterly to discuss strategy

Contact <u>info@inacademia.org</u> to get your federation involved!



 $\langle B \rangle$  national library of the netherlands

ULEAUNII – V Rimski-Sovies-Pesti









Develop, foster & mature new ideas in technical & business case development or enhancement to data protection and privacy



Core teams (alfa and beta) with a scrum master and developers Mentors (one per topic) Main incubator board (community provided)



Ongoing activities in parallel 6 sprints Monthly sprints Sprint demos (open to all)

https://wiki.geant.org/display/gn43wp5/ T2+-+Trust+and+Identity+Incubator

**TRUST & IDE** 

**INCUBATO** 





Collect proposals for incubator topics	Review and prioritise the proposals	Choose topics for the next cycle	Define goal, stakeholders, results	Work on topic, 6 sprints with demos	Finalize topic handover results/close topic	
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Service Owners GÉANT project T&I community member	Main Incubator Board (MIB)	Incubator Lead + WP leaders	Principle Investigator	Incubator Core Teams MIB feedback	Incubator Activity Teams	





## TRUST & IDENTITY ? Overview & Activities INCUBATOR = Dashboard

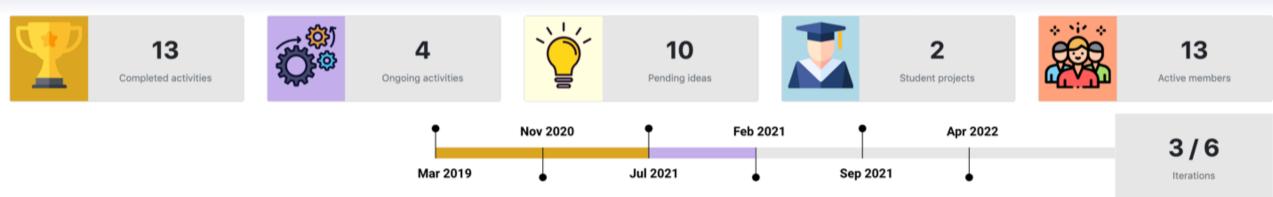


Dashboard - https://wiki.geant.org/display/gn43wp5/Incubator+Dashboard





## TRUST & IDENTITY ? Overview & Activities INCUBATOR = Dashboard



Dashboard - https://wiki.geant.org/display/gn43wp5/Incubator+Dashboard

Call for topics - <a href="https://wiki.geant.org/display/gn43wp5/TII+Call+for+Ideas">https://wiki.geant.org/display/gn43wp5/TII+Call+for+Ideas</a>

GÉANT Infoshare - T&I Incubator & NREN engagement - https://events.geant.org/event/463







## DEVELOPING THE NEXT GENERATION OF T&I PRODUCTS AND SERVICES FOR THE EUROPEAN NREN COMMUNITY

TO FIND OUT MORE CONTACT GLAD@GEANT.ORG

GÉANT



TIM Programme - https://wiki.geant.org/display/GIG/TIM+Programme





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