



# GÉANT – Task Force Educational Activities and Services

**Gyöngyi Horváth**  
**Community Support Officer**

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Public

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## Why TF-EDU exists?

- The Task Force aim is to establish collaborations across the education sector on commonly identified topic areas, providing a **coordinated approach** to **improve** NREN educational services and activities.
- The Task Force gathers **information, discuss** and **develop tools** and **best practices** to address the common issues NRENs are dealing with regarding their educational services and activities. The areas include:
  - Digital Learning Environment (Learning Management Systems (LMS))
  - Learning Analytics (LA)
  - Virtual Learning Environment (VLE)
  - eduID
  - Open Educational Resources (OER)
  - and more...

## Key topics / trends for TF-EDU

- NREN approaches strategies and best practices
- Learning Management Systems
- Realtime collaboration tools
- Trust & Identity services for education
- eduID
- Digital assessment, online proctoring
- International education
- Scaling up
- Learning analytics
- Data handling
- Student mobility
- Open standards



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**GÉANT**

# NRENs educational activities and services survey 2021

Special thanks for...

**Dragana Kupres, CARNET**

**Birgitta Hemmingsson, MIUN**



# NRENs educational activities and services survey

## OBJECTIVES

- Create an overview of NRENs educational activities and services
- Identify common goals to work together
- Identify common challenges
- Create a global vision and strategy
- Put in place a working group to drive these efforts



# Educational services & activities of NRENs

Additional activities and services beyond connectivity (fiber, network, wifi) to supporting educational institutions with their technological evolution: innovation challenges and opportunities.

## Targeting:

- Teaching & learning communities
- Educational institutions



# Educational services

Digital Learning Environment

Student Management Systems

Online, blended and remote delivery of education

Providing e-Content

Video Conferencing For education

T&I for education

Open badges, digital credentialling

Inhouse built tools by your NREN for digital learning

Educational Data mining and Analytics

Learning Analytics

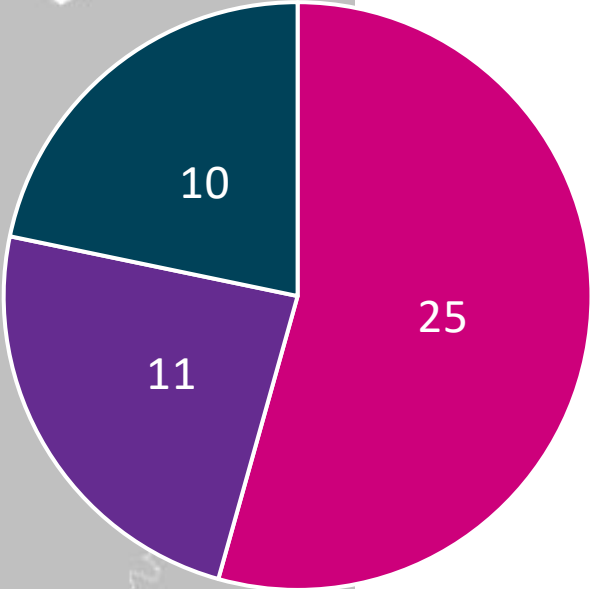
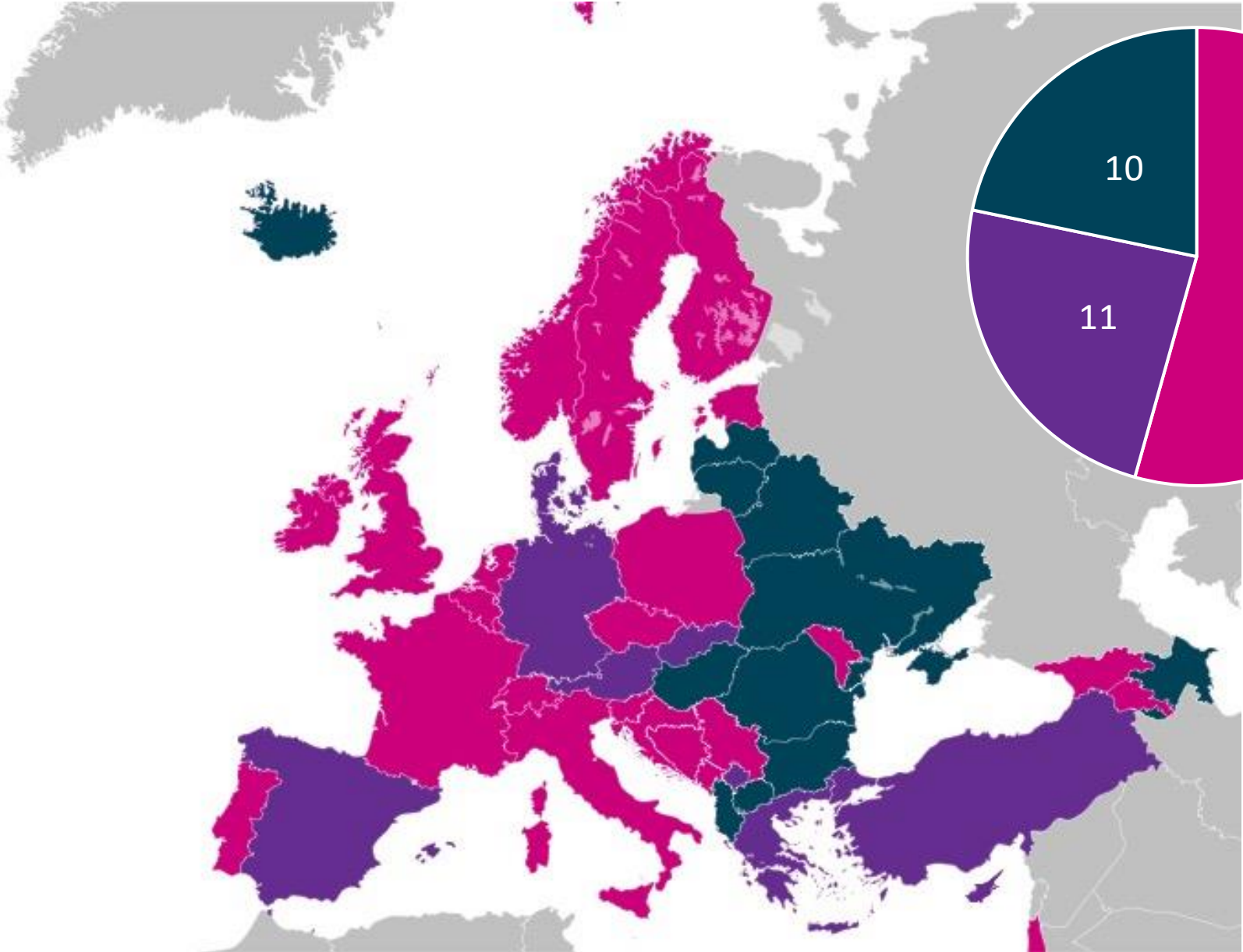
Digital assessment and testing

Anti-plagiarism





# NREN provide educational services 2021



- YES
- NO
- DID NOT ANSWER



# Educational service levels

## Initiative level

Informal joint exploration of an idea by an expert group. In most cases there is some investment to explore this initiative further, supporting the NREN's participation in this initiative.

## Project level

Formal joint follow up of an initiative with a project owner and a budget.

## Service level

An integrated service implemented by the NREN.

## Phase out

The service is no longer required.

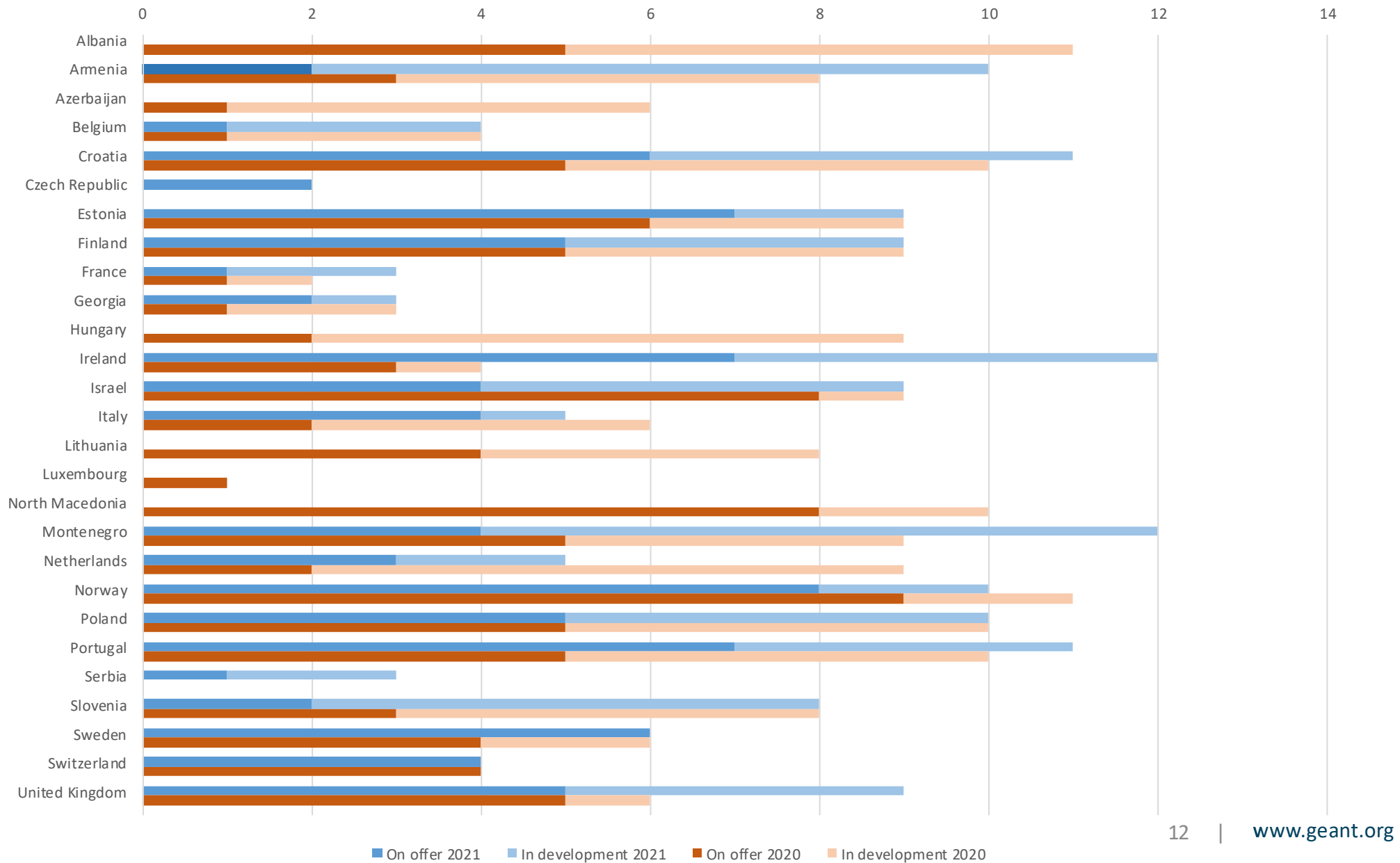


	Digital Learning Environments	e-Content	Online or blended education	Digital assessment	Open badges, digital credentialing	Learning Analytics	Student Management System	T&I for education	Educational data mining and analytics	Vide Conferencing for education	Support for Offshore students	In-house built tools
Armenia	Service level	Project level	Project level	Initiative level	Initiative level	Initiative level	N/A	Project level	Initiative level	Service level	N/A	Initiative level
Belgium	N/A	N/A	N/A	N/A	Initiative level	N/A	Initiative level	Project level	N/A	Service level	N/A	N/A
Croatia	Service level	Service level	Service level	Initiative level	Initiative level	Project level	Service level	Service level	Project level	Service level	N/A	Project level
Cyprus												
Czech Republic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Service level	N/A	Service level	N/A	N/A
Denmark												
Estonia	Service level	Service level	N/A	Service level	Service level	Project level	Service level	Service level	Project level	Service level	N/A	N/A
Finland	N/A	Service level	Initiative level	Service level	N/A	Initiative level	Service level	Service level	Initiative level	Service level	Initiative level	N/A
France	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Project level	N/A	Initiative level	N/A	Service level
Georgia	N/A	Project level	N/A	Service level	N/A	N/A	N/A	N/A	N/A	Service level	N/A	N/A
Germany												
Greece												
Ireland	Service level	Service level	Initiative level	Initiative level	Project level	Initiative level	Service level	Service level	Initiative level	Service level	Service level	Service level
Israel	Service level	Service level	Service level	Project level	Initiative level	Project level	N/A	N/A	Initiative level	Service level	N/A	Initiative level
Italy	Initiative level	Service level	Service level	N/A	N/A	N/A	Service level	N/A	N/A	Service level	N/A	N/A
Kosovo												
Kyrgyzstan												
Luxembourg												
Moldova												
Montenegro	Service level	Service level	Initiative level	Service level	Initiative level	Initiative level	Project level	Initiative level	Initiative level	Service level	Initiative level	Initiative level
Netherlands	N/A	Service level	N/A	N/A	Service level	Project level	N/A	Service level	Initiative level	N/A	N/A	N/A
Nordic	Service level	Project level	Service level	Service level	Project level	Service level	Service level	Service level	N/A	Service level	Service level	N/A
Norway	Service level	Service level	Service level	Service level	Initiative level	Initiative level	Service level	N/A	Service level	Service level	N/A	Service level
Poland	Service level	Service level	Service level	Project level	Initiative level	Project level	Initiative level	Initiative level	N/A	Service level	N/A	Service level
Portugal	Service level	Service level	Service level	Project level	Initiative level	Initiative level	Service level	Service level	Project level	Service level	N/A	Service level
Serbia	Initiative level	N/A	N/A	N/A	N/A	N/A	N/A	Project level	N/A	Service level	N/A	N/A
Slovakia												
Slovenia	Service level	Project level	Project level	Initiative level	Project level	N/A	N/A	Initiative level	N/A	Service level	Project level	N/A
Spain												
Sweden	Service level	N/A	N/A	Service level	N/A	N/A	Service level	Service level	N/A	Service level	Service level	N/A
Switzerland	N/A	Phasing out	N/A	N/A	Service level	N/A	N/A	Service level	N/A	Service level	N/A	Service level
Tajikistan												
Turkey												
United Kingdom	N/A	Service level	Service level	Project level	Project level	Service level	N/A	Service level	Service level	Phasing out	Project level	Project level

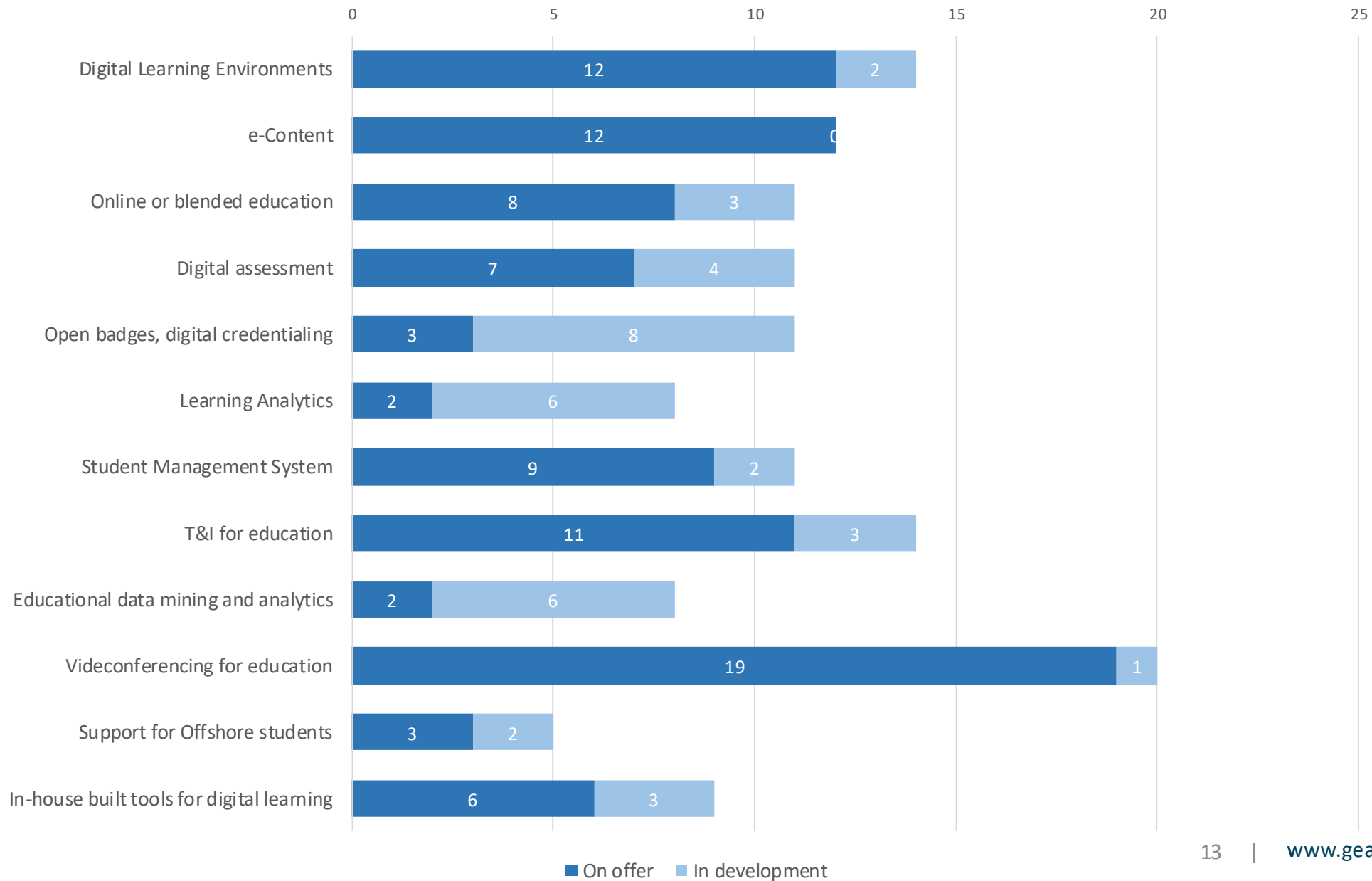
N/A  
Initiative level  
Project level  
Service level  
Phasing out



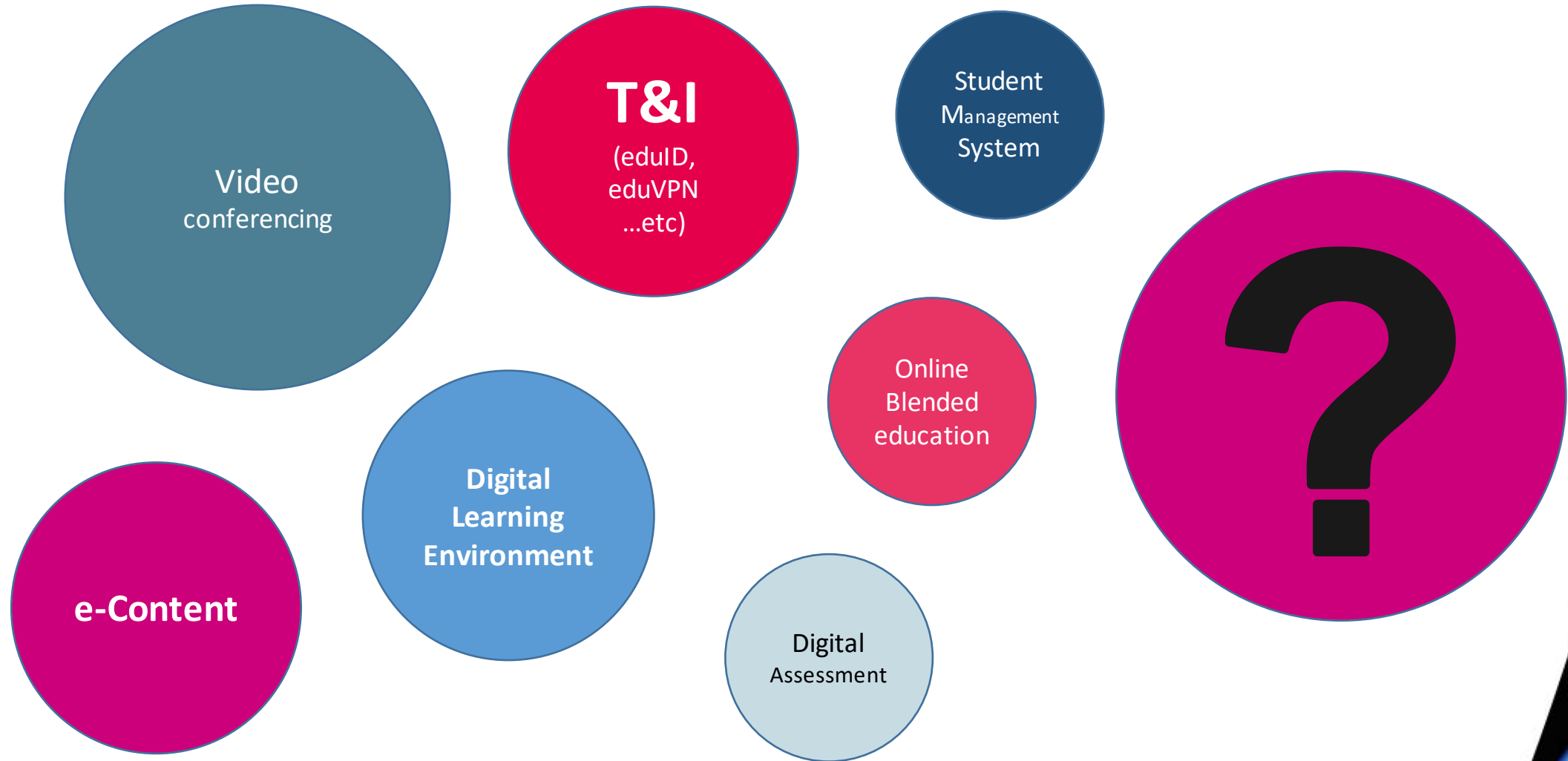
# NREN services per country



# NREN services



# Role of NRENs in education





# Advanced service portfolio

## Supporting users and enabling secure access to services



**eduroam** - secure global roaming access service 250+ million authentications per month in 101 territories. This is a federated service



**eduGAIN** - interconnects identity federations around the world, simplifying access to content, services and resources ~ 3500 identity providers accessing services



**InAcademia** - Lightweight student validation service protecting student privacy



**eduTEAMS** - Making managing virtual teams easy



**EduVPN** – Secure Virtual Private Networking to create a safe environment for researchers and students who are using public WiFi access points



# GÉANT community COVID-19 response to support online education

EU funded Up2University project (2017-2020) deployed within 2 weeks a cloud based NGDLE special platform openUp2U for all levels of education starting in Europe.



**openUp2U**: open-source, interoperable, GDPR compliant, modular, highly customizable. It includes 4 key tools: **Moodle** (Learning Management System), **eduMEET** (webRTC based Video Conferencing), **SWAN** (turn-key digital notebooks), **CERNbox** (SYNC and Share storage)



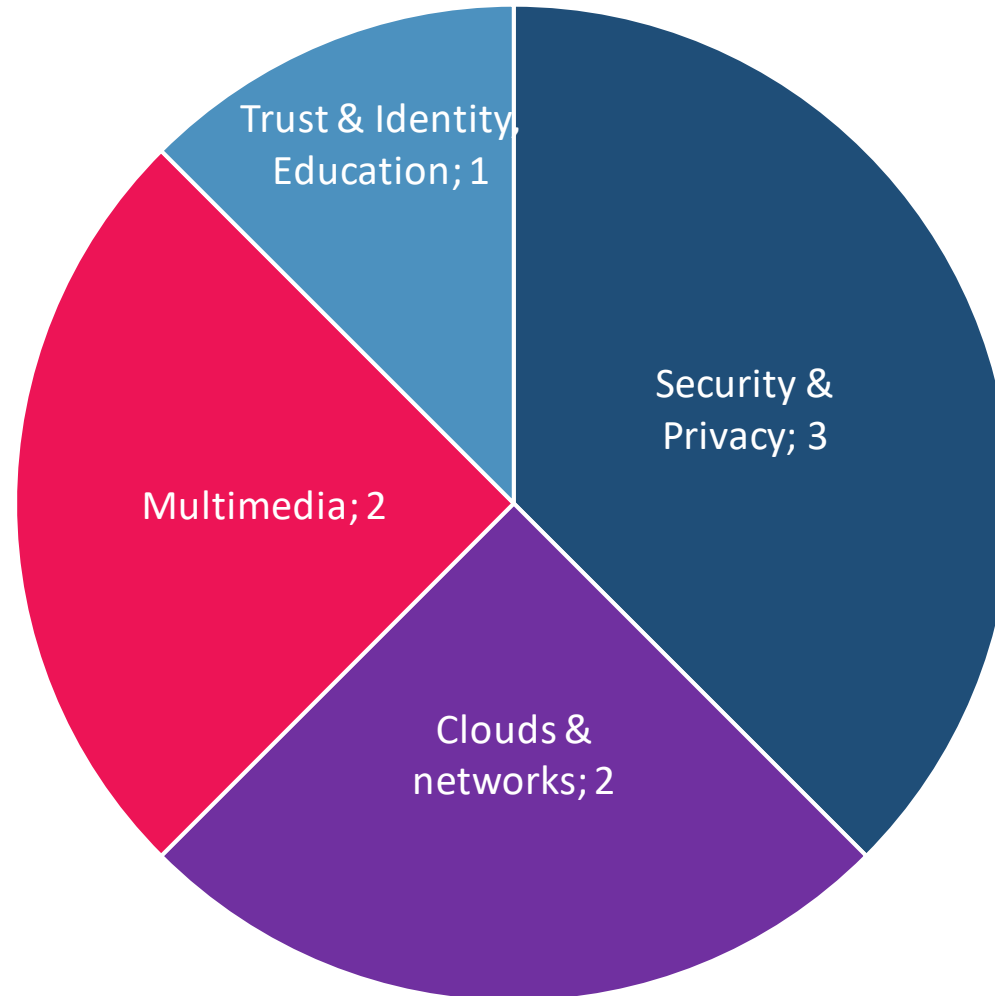
**eduMEET**: research and education community developed, open source software, **Secure** communication, **Trust** - on level of similar organizations, Trustworthy - Keeping the AV traffic inside our network (GÉANT + NRENs) as long as possible, **Low cost** compared with commercial solutions, WebRTC standards based and easy to use, No need for installation of custom applications or plug-ins which complicates using VC.



# Innovation Programme

- The GÉANT Innovation Programme is a unique opportunity to enable initial development, establish a proof of concept or testing of new ideas, with lightweight, administrative constraints. As part of the GÉANT Community Programme (GCP), the GÉANT Association has reserved EUR300k to support an Innovation Programme for specific research projects to be carried out by the GÉANT Community, i.e. GÉANT Member NRENs, universities, research institutions/institutes or other such legal entities to which a GÉANT Association Member NREN provides services.
- <https://www.geant.org/Innovation/Pages/Innovation-Programme.aspx>
- 21 proposal (March – April), 4 proposals (May)
- 8 successful bids (March - April)

# Innovation Programme thematic areas Approved 1st round



# Thank you!

## Do you have any questions?

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