

The Role of NRENs in education

Erik Huizer

Chief Executive Officer, GÉANT

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To provide an open, innovative and trusted information infrastructure for the European knowledge economy and to the benefit of society worldwide



A membership association for Europe's National Research & Education Networks (NRENs)
GÉANT Association



Coordinates and participates in EC-funded projects
Under Horizon 2020 the financial instrument for implementing the Innovation Union, a
Europe 2020 flagship initiative aimed at securing Europe's global competitiveness



Operates a pan-European e-infrastructure with connections to all regions of the world GÉANT network



Manages a portfolio of services for research & education EduX



Organises and runs community events & working groups
TNC, task forces & special interest groups





GÉANT Association supports and represents over 40 NRENs across Europe

Together they support over 10,000 institutions and 50 million academic users Including 20 million students for higher education







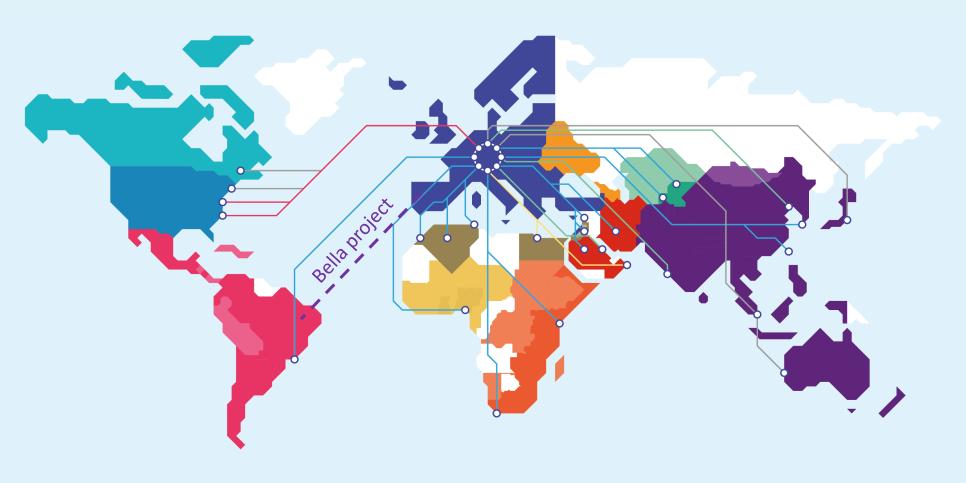
130

NRENs with speeds of up to multiples of 100Gbps

over

100M

Students in higher 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





Advanced service portfolio Cloud and Community services



Cloud:

- Community Cloud services provided by NRENs, Universities
- 2. Joint procurement offerings to R&E, laaS, OCRE (Open Clouds for Research Environments)

40 countries signed up in Europe and coordinating efforts across the world

GCP

GÉANT Community Programme, with knowledge transfer, skill development from NRENs, schools, topic experts, commercial companies share knowledge, experience and challenges during open task force meetings and workshops.

TF-EDU SIG-Marcomms SIG-MSP SIG-ISM





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.

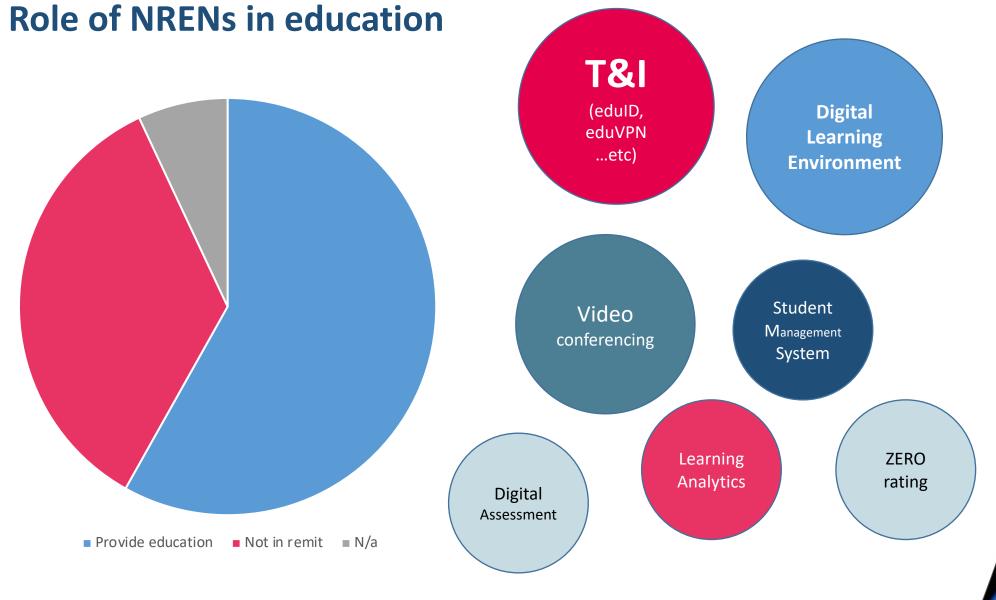


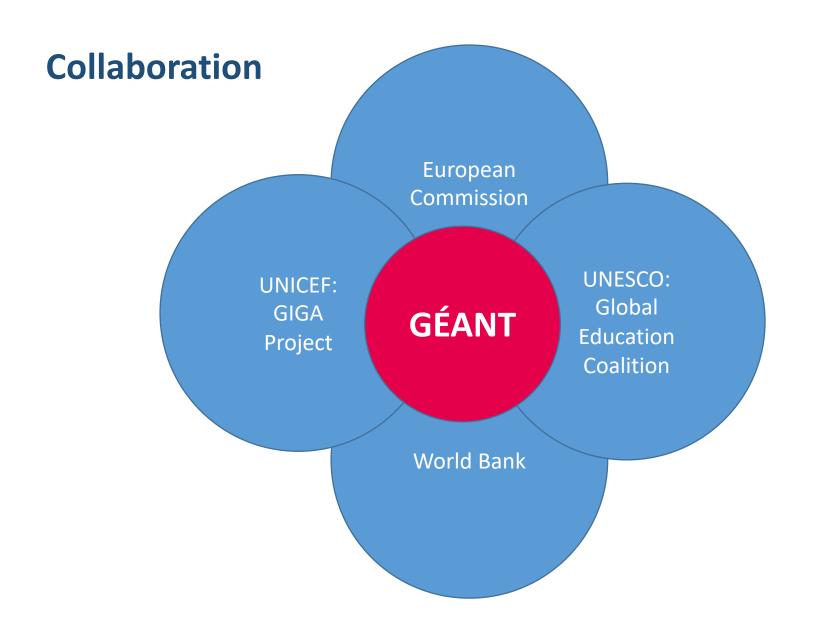
openUp2U: open-source, interoperable, GDPR compliant, modular, highly customizable. It includes 4 key tools: Moodle (Learning Management System), eduMEET (webRTC based Video Conferencing), SWAN (turn-key digital notebooks), CERNbox (SYNC and Share storage)



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.









Thank you

Any questions?

erik.huizer@geant.org www.geant.org



S GEANT ASSOCIATION
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