

EaPConnect – setting the scene

Yerevan, 25 September 2019

Veronika Di Luna, GÉANT

Eastern Partnership countries face societal challenges



Digital Security



Climate change



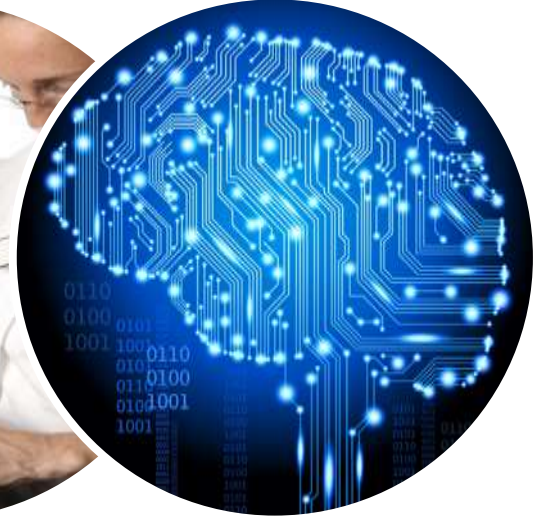
Cultural loss



Digital economy



Healthcare



Brain drain

Researchers & students need tailor-made internet networks to...



Exchange data
securely, reliably &
cost-effectively



Participate in
international
collaborations



Increase knowledge &
opportunities even in
remote areas

This is what NRENs offer

EaPConnect – what is it about?



€13.7M (95%)

European Commission
co-funded project

1 July - 30 June
2015 2020

5-year project



Reduction of
digital divide



Support of the science,
research and education
sectors

Project partnerships



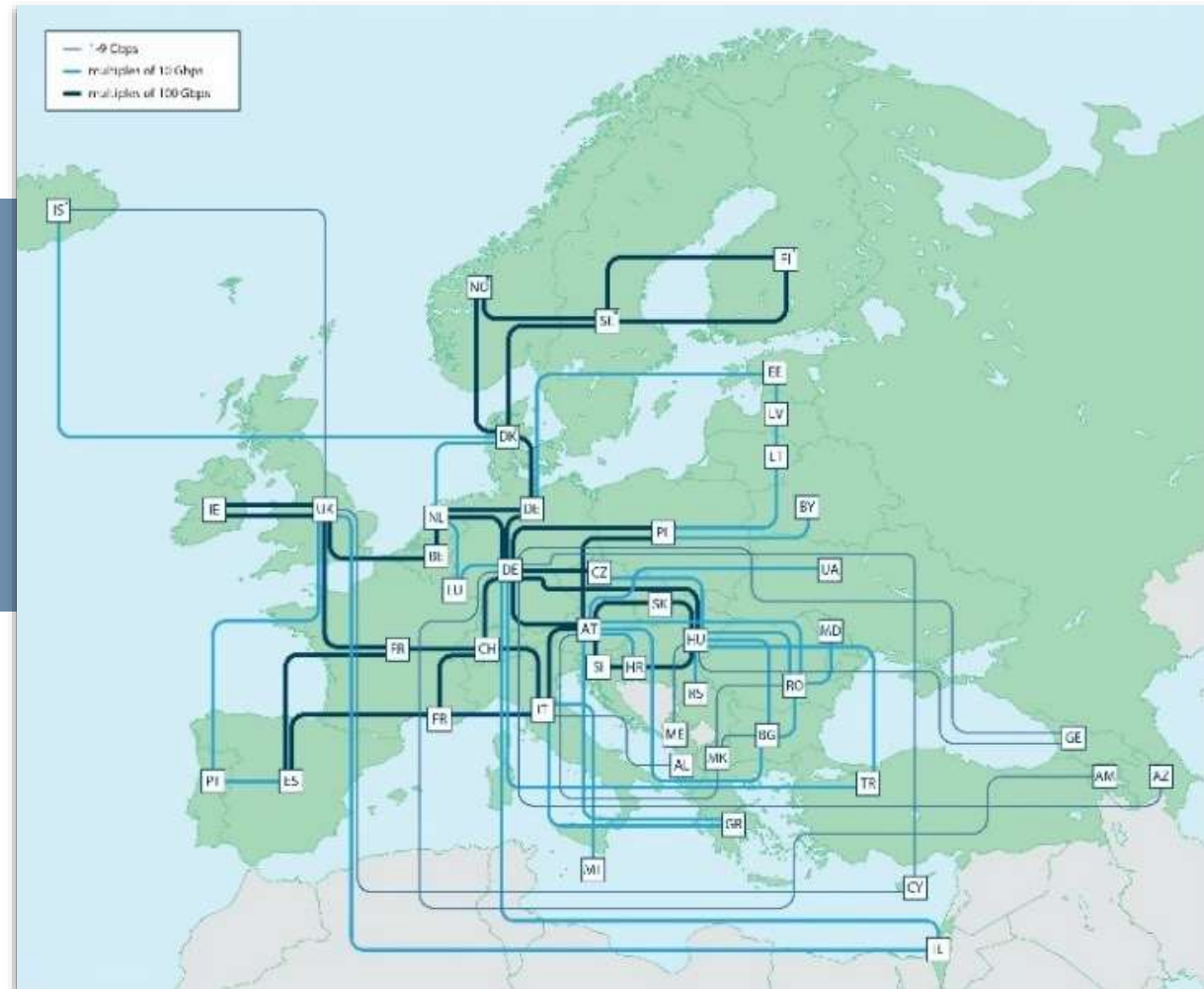
Membership Association

GÉANT Association supports and represents over 40 NRENs across Europe.
Together they support over 10,000 institutions and 50 million academic users.



The GÉANT Network

The GÉANT network interconnects research, education and innovation communities worldwide, with secure, high-capacity networks.



The GÉANT organisation

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

Projects

GÉANT is a trusted European Commission (EC) partner in many global collaboration projects and initiatives through our special relationship with the European Union.



European e-infrastructure projects



Trust & identity projects

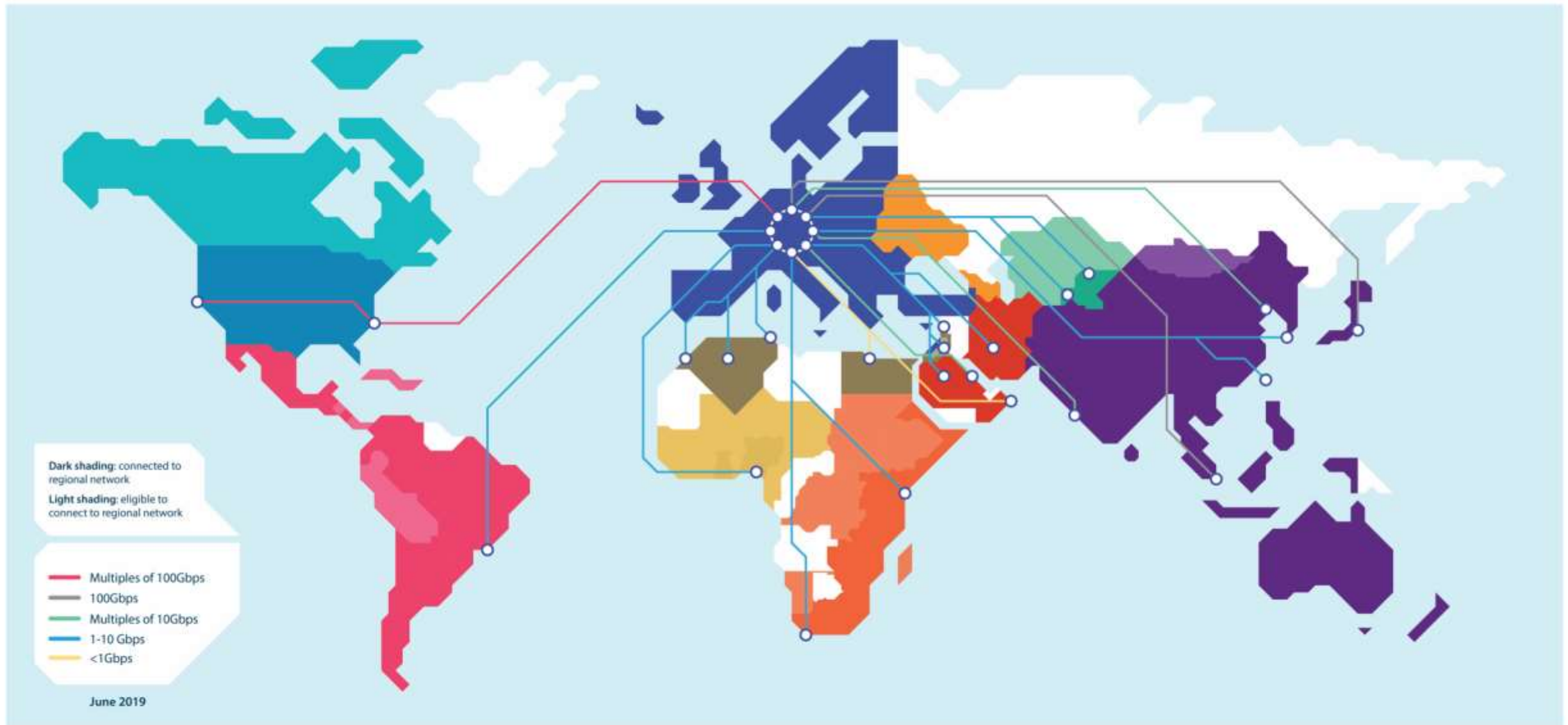


Network projects



Collaborative projects





Canada & USA **Latin America** **Europe** **North Africa & Eastern Mediterranean** **West & Central Africa** **Eastern & Southern Africa** **Central Asia** **Asia-Pacific** **Other R&E Networks**

canarie
 ESnet
 INTERNET

CLARA

GEANT
 EaPConnect

ASREN

UbuntuNet Alliance

CAREN

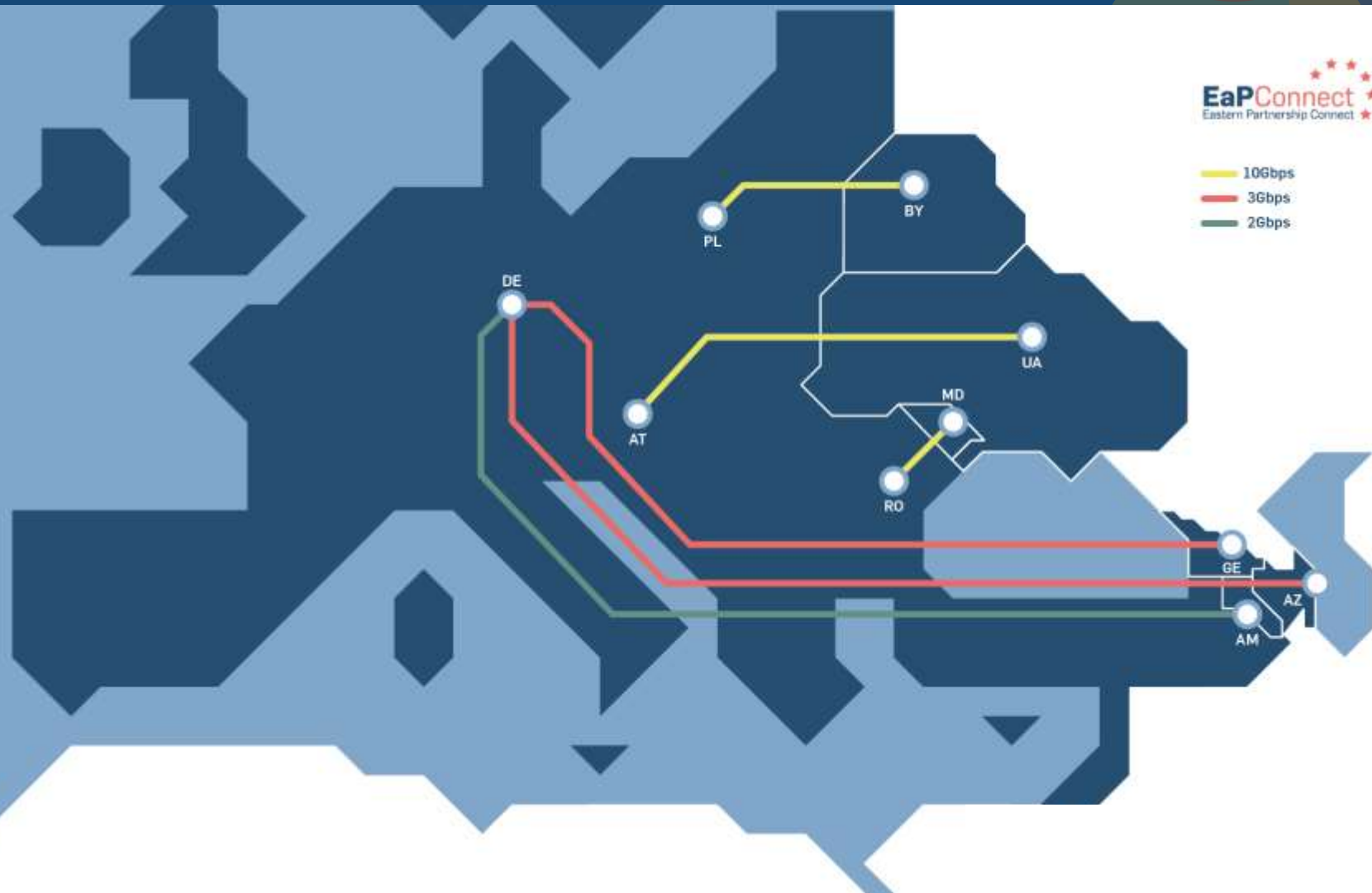
TEIN

Main project activities

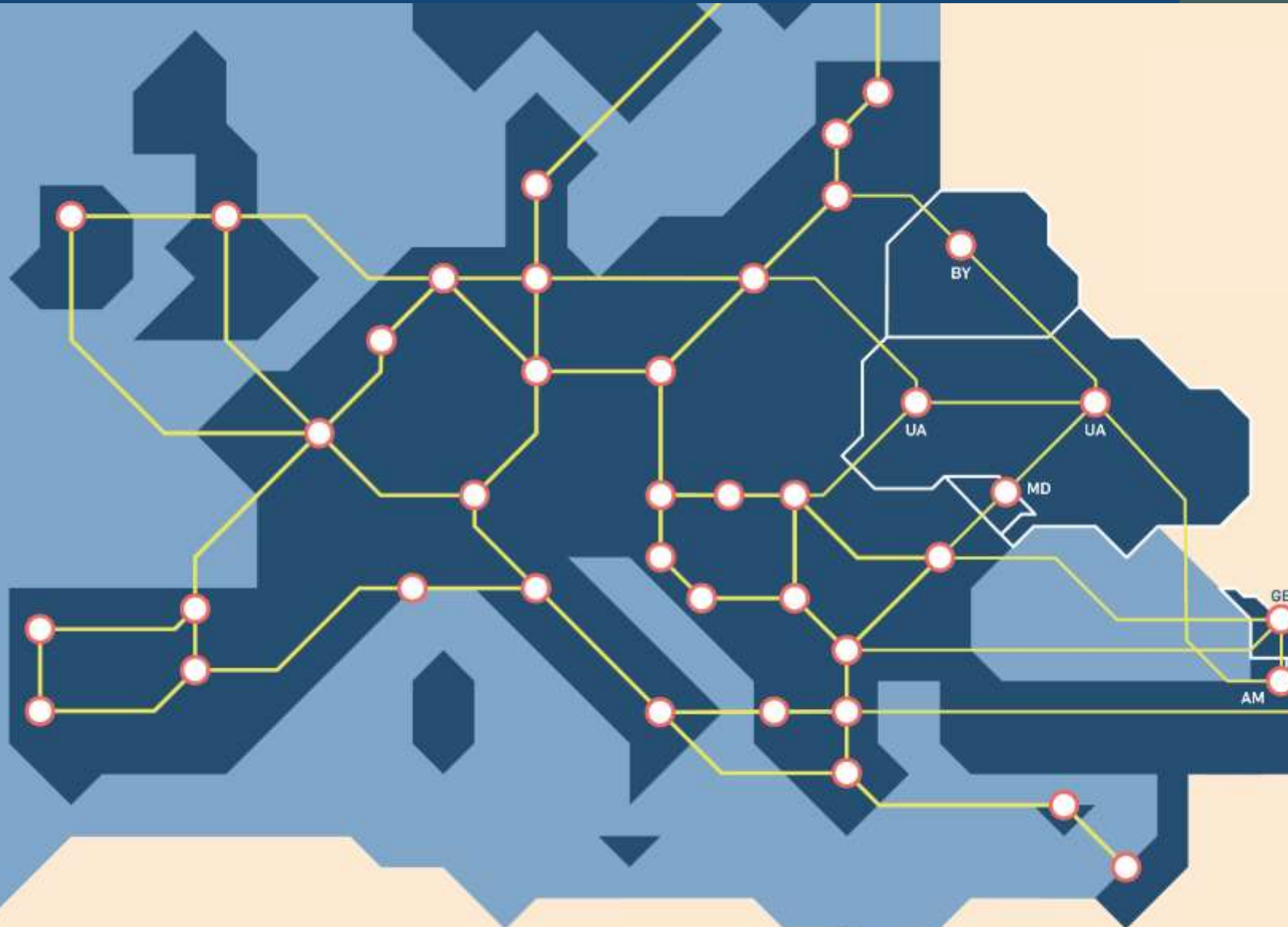
- Increase of connectivity in the region
- Adoption of new services and technologies
- Integration into the GÉANT R&E community
- Enhancement of the EaP and EU R&E collaboration
- Improving EaP NRENs self-sustainability
- Human capacity building
- EaPEC conference
- Enlighten Your Research (EYR) @EAP



Strengthening connectivity within the EaP region and to Europe

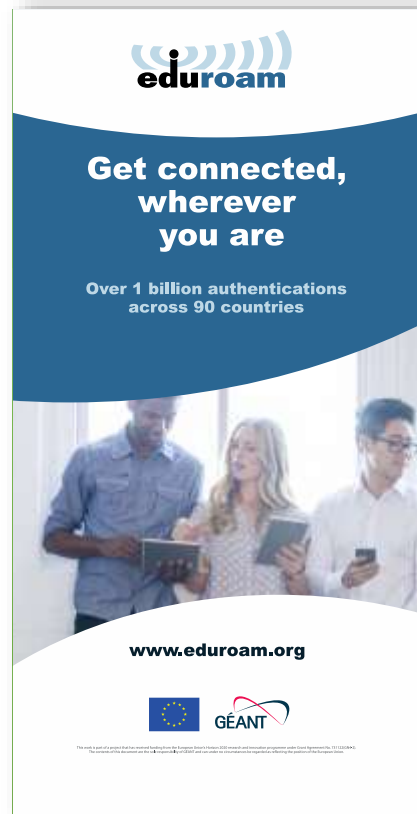


Working towards resilience and inclusion



Supporting services for R&E development

- Eduroam
- eduGAIN
- Clouds
- Filesender
- LoLa
- Cybersecurity
- Digitisation of Cultural Heritage
- Videoconference system
- Green ICT



eduroam

Get connected, wherever you are

Over 1 billion authentications across 90 countries

www.eduroam.org

Logos: European Union, GÉANT



EaPConnect
Eastern Partnership Connect

Don't waste time and money on services and services that are not needed. Use the services you need, when you need them, and when you need them.

GÉANT CLOUD SERVICES

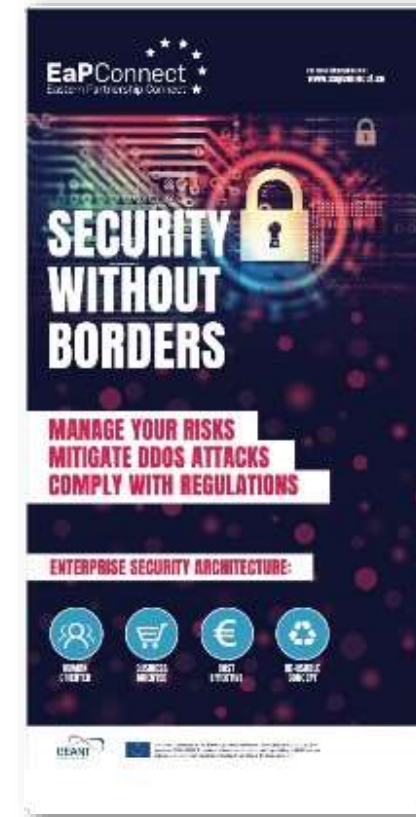
Connecting Research and Education to the Cloud

The benefits of the GÉANT Framework Agreements:

- Accessible
- Compliant
- Cost Effective
- Reduced network traffic costs
- Single Sign-on

For more information visit clouds.geant.net

Logos: European Union, EaPConnect, GÉANT



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SECURITY WITHOUT BORDERS

**MANAGE YOUR RISKS
MITIGATE DDOS ATTACKS
COMPLY WITH REGULATIONS**

ENTERPRISE SECURITY ARCHITECTURE:

- Vendor Neutral
- Scalable Network
- Cost Effective
- Reliable Security

Logos: GÉANT, European Union



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CULTURE WITHOUT BORDERS

DIGITISATION HAS A SIGNIFICANT ROLE IN CULTURAL HERITAGE:

- Digital Digitization
- Easy Digitization
- Online Access

SUPPORTS:

- Preservation of Digital Objects
- Easy Access for Education, Research and Culture

Logos: GÉANT, European Union

Growth of average daily traffic 2018 vs. 2017

From EaP region to GÉANT

29%

36%

From GÉANT to EaP region

Trainings and workshops

- Cybersecurity
- Clouds
- eduroam
- EduGAIN
- SDN
- LoLa
- eHealth
- HPC
- Digitisation of Cultural Heritage
- OpenAire
- Business models
- Public Affairs
- Marcomms

Raising visibility of partners & services at EaPEC events

Showcasing NRENs, GÉANT & e-infrastructures

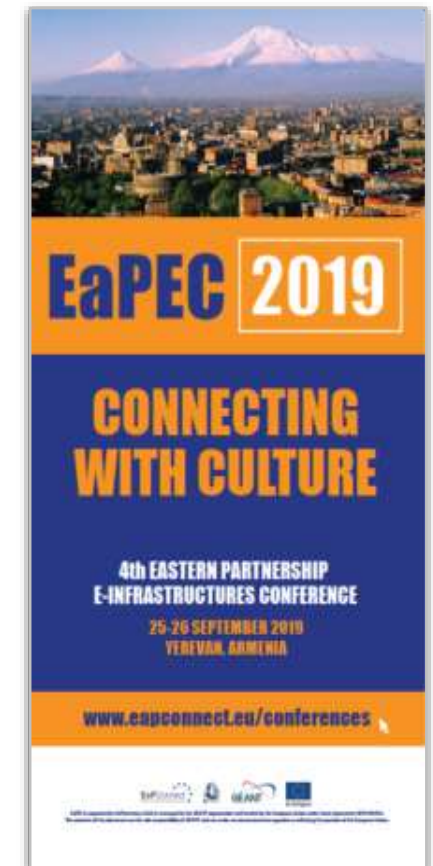
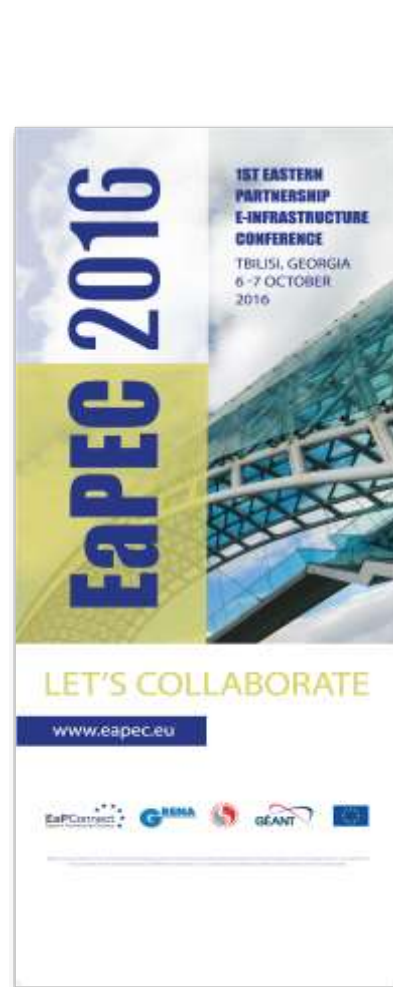
350 participants over 3 conferences

Researchers, students, policy makers, NGOs etc.

Each project partner takes a turn 'in the spotlight'

TV, radio, press & online media coverage

Host gains contacts with ministries, institutions



Enlighten Your Research (EYR)

Success! 15 winner projects during 3 years.



Real benefit for people in the EaP region



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prevents extreme weather damage

EaPConnect and ASNET-AM* support 'nowcasting' and high-resolution computer modeling to predict extreme weather in Armenia through Cloud computing, potentially saving lives and money.

bit.ly/ASNET-weather

EaPConnect supports the development and use of high-capacity Internet networks for research and education across the Eastern Partnership.

*ASNET-AM = Academic Scientific Research Network of Armenia

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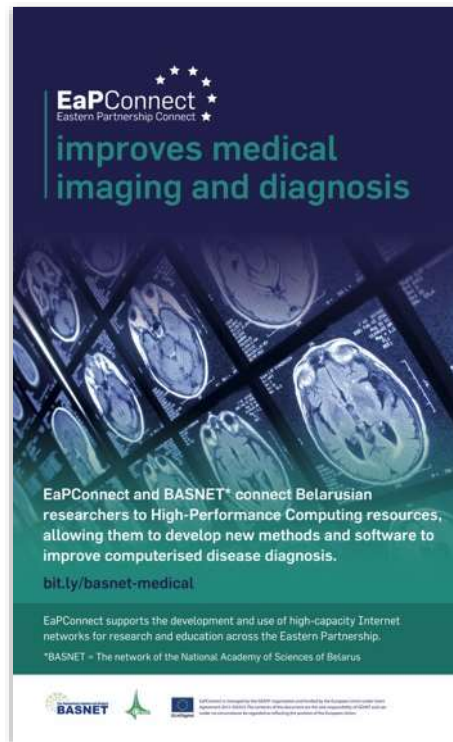
supports particle physics research

EaPConnect and URAN* give Ukrainian researchers access to large amounts of experimental data from the Large Hadron Collider, allowing them to contribute to international research collaborations.

bit.ly/URAN-KIPT

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*URAN = Ukrainian Research and Academic Network

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improves medical imaging and diagnosis

EaPConnect and BASNET* connect Belarusian researchers to High-Performance Computing resources, allowing them to develop new methods and software to improve computerised disease diagnosis.

bit.ly/basnet-medical

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*BASNET = The network of the National Academy of Sciences of Belarus




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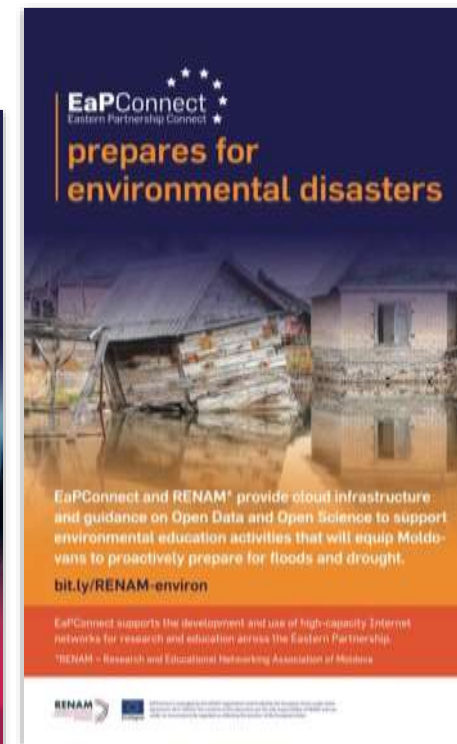
strengthens cybersecurity expertise

EaPConnect and GRENA* promote cybersecurity awareness and skills development among young people and the public in Georgia through contests and a training portal, provided in collaboration with national and international partners.

bit.ly/GRENA-security

EaPConnect supports the development and use of high-capacity Internet networks for research and education across the Eastern Partnership.

*GRENA = Georgian Research and Educational Networking Association

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prepares for environmental disasters

EaPConnect and RENAM* provide cloud infrastructure and guidance on Open Data and Open Science to support environmental education activities that will equip Moldovans to proactively prepare for floods and drought.

bit.ly/RENAM-environ

EaPConnect supports the development and use of high-capacity Internet networks for research and education across the Eastern Partnership.

*RENAM = Research and Educational Networking Association of Moldova



Thank you!
Any questions?