



EU4Digital

EU4Digital – EaPConnect in the changing landscape

Irina Matthews
EaPConnect Project manager

Eu4Digital Steering Committee, 25 October 2022

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EaPConnect
eapconnect.eu

Budget:	<p>Budget 1st Phase – €13M 2nd Phase - €10.5M (95% EU funding from DG NEAR)</p>
Duration:	<p>60 months (2nd phase) 1st phase: July 2015 until February 2021 2nd phase: started in July 2020 for 5 years</p>
Website:	<p>https://eapconnect.eu/</p>
Coordinating Partner:	<p>GÉANT</p>
Beneficiaries:	<ul style="list-style-type: none"> • GRENA (Georgia) • ASNET-AM (Armenia) • RENAM (Moldova) • URAN (Ukraine) • AzScienceNet (Azerbaijan)
European Associate Partners	<ul style="list-style-type: none"> • GARR (Italy), GRNET (Greece), DFN (Germany, PSNC (Poland), LITNET (Lithuania)

Connect

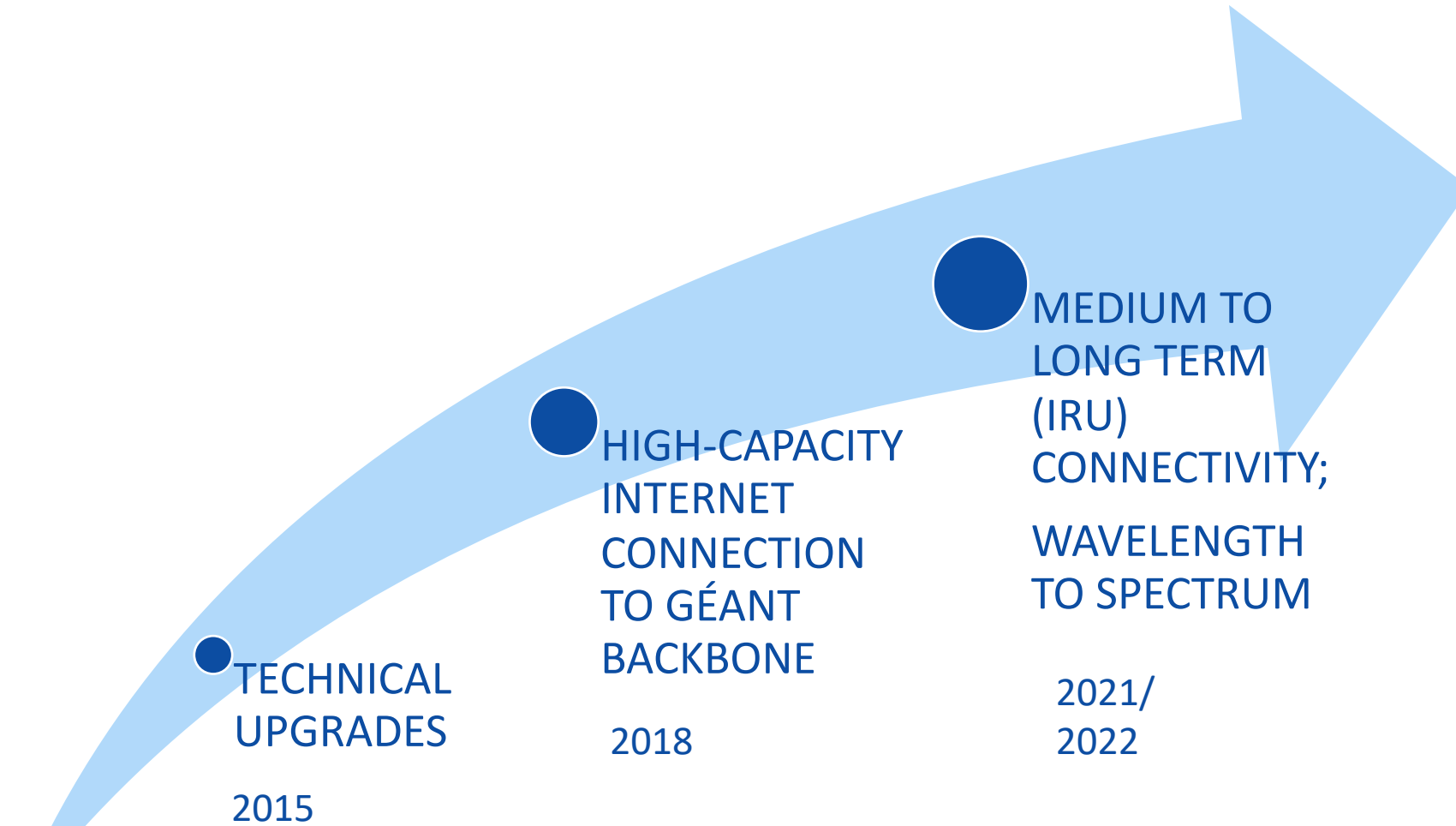
Integrate

Strengthen

SO1: Extend network infrastructure (digital highways) to scale-up scientific exchange across borders

SO2: Increase the use of services implemented under EaPConnect and offer new services to enhance international cooperation in R&E.

SO3: Strengthen EaP NRENs’ position in the national R&E ecosystems



- 5 countries connected
- 10 x greater capacity
- 700 000 users
- 300 institutions



Jan 2020 - very recent

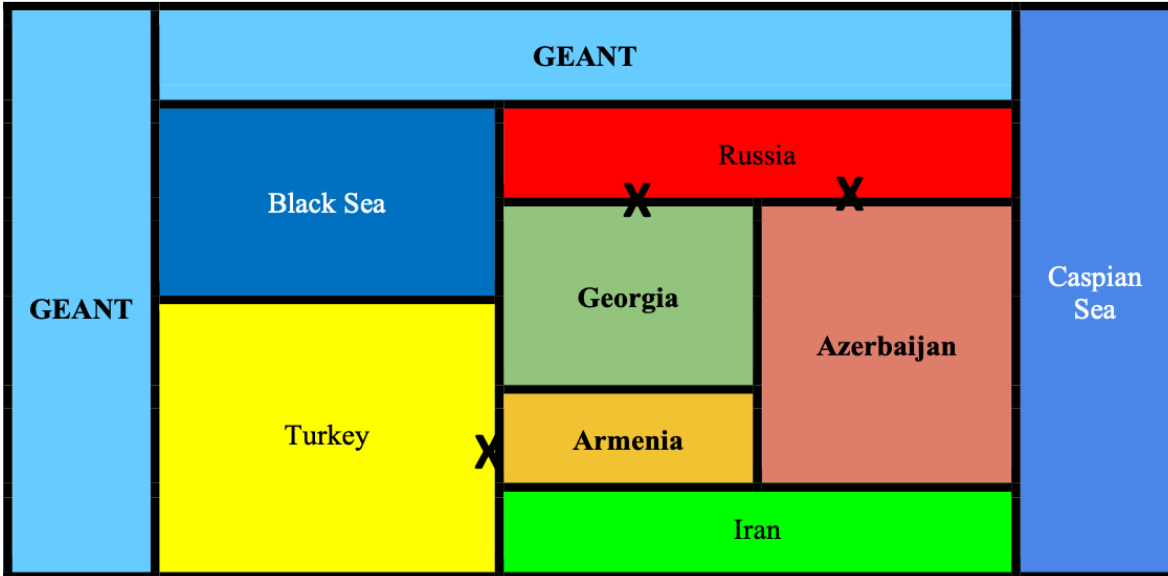
COVID-19

Since October 2020

Repression of civil society and democratic opposition by Belarussian government

24 February 2022

Unjustified and unprovoked aggression by Russia against Ukraine



Impact of the war against Ukraine:

- Price increase
- Disruption to the supply chain
- Reduced market competition



Solidarity

Good will

Professionalism

Working together

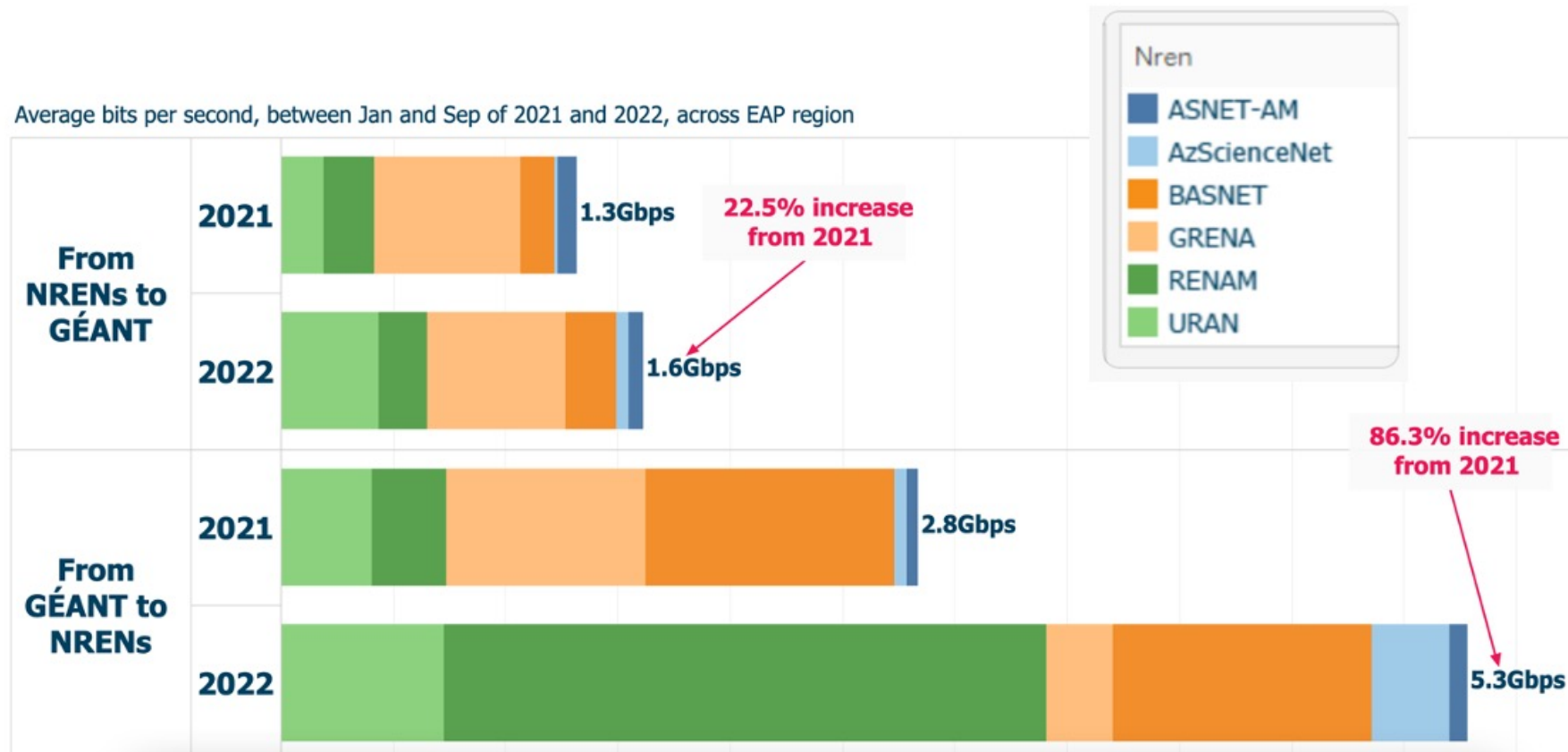
Opportunities for national suppliers



Contracted services that were in use					
Before August 2022	NREN	AzScienceNet (Azerbaijan)		ASNET-AM (Armenia)	
		Primary connection	Backup connection	Primary connection	Backup connection
	Service	3Gbps Frankfurt-Baku	1Gbps local Internet backup	2Gbps Frankfurt-Yerevan	1Gbps local Internet backup
	Supplier	TransTelecom	TransTelecom	TransTelecom	GNC-Alfa

	AzSciencenet		ASNET-AM	
	Primary	Backup	Primary	Backup
Supplier:	Azertelecom	Azertelecom	Procurement in progress	Telecom Armenia
Planned service	10Gbps Frankfurt-Baku	3Gbps	10Gbps, Frankfurt-Yerevan	2Gbps
Contract status	signed/implemented	signed/implemented	Procurement in progress	Signed/implemented

EaPConnect – data traffic – it is busier than usual!



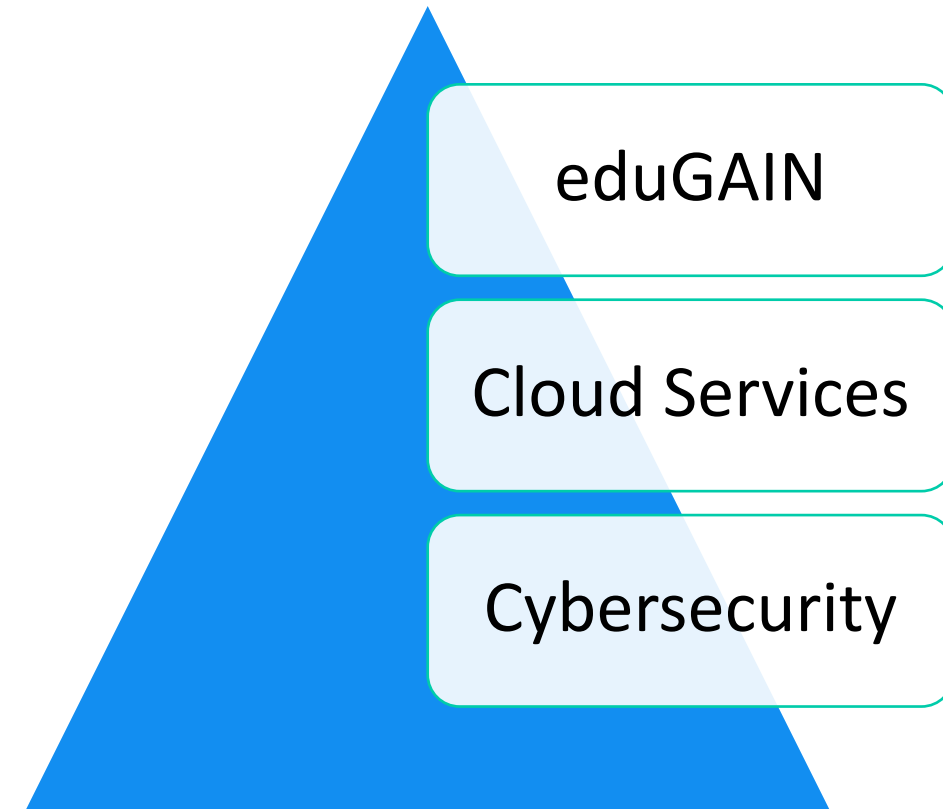


NREN	R&E	R&E % of market	Universities/HE	Universities/ HE % of market	Government	Health	Cultural	Futher education	Higher education school	Secondary schools	Other	
ASNET-AM	✓	45	✓	90	✓		✓				✓	
AzSciencenet	✓	90	✓	40	✓		✓					
GRENA	✓	62	✓	50	✓	✓	✓			✓	✓	
RENAM	✓	80	✓	72	✓	✓	✓	✓	✓			
URAN (pre 24/02/2022)	✓	10	✓	35	✓	✓	✓	✓	✓		✓	
Total												336

Number of users in the connected institutions				
Armenia	Azerbaijan	Georgia	Moldova	Ukraine
47000	85000	88000	77000	434000
Total	731000			



	ASNET-AM	AzScienceNet	GRENA	RENAM	URAN
eduroam	v	v	v	v	v
eduGAIN	v	v	v	v	v
perfSONAR	v	v	v	v	v
IaaS/Virtual Machines	v	v	v	v	v
Cloud services	v	v	v	v	v
FileSender	v			v	v
Virtual private network					v
Digitisation of Cultural Heritage	v				v
LoLa	v	v		v	
CERT/ Cyber security	v	v	v	v	v
GÉANT TCS/ Trusted security certificates		v		v	
Videoconferencing/eduMEET		v	v		v
Virtual Private Network			v	v	v
Web hosting	v	v	v	v	v
Email hosting	v	v	v		
EOSC	v		v		



Special congratulations to [AzScienceNet](#) on becoming member of the [eduGAIN](#) inter-federation service



Our ability to reach unity in
diversity will be the beauty and the
test of our civilization.

Mahatma Gandhi

thought in the world to
face new challenges”.

Tim Berners-Lee”

EOSC: 3 services developed by GRENA are being added to EOSC service catalogue

Euro HPC ASNET-AM setting up an HPC centre in Armenia

Data services: URAN supporting universities to ensure security of data and resilience of its Data Centre

Stakeholder alignment: RENAM – from students’ dormitories to government initiatives in digital transformation

From connectivity to content: AzScienceNet – recommendations from EaPEC22

EaPEC22 – “Building connections” Baku, Azerbaijan, 27-28 September 2022



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Aim:

160 attendees,
2000 viewings
online

To increase the engagement between the Azerbaijani and European(global) together the R&E community

30 speakers

15 countries

To raise visibility and strengthen connections with national policy and decision-makers and EU

3 National ministries

EC Delegation

DG NEAR



EaPConnect
eapconnect.eu



EaPConnect – developing focus on sustainability (Tbilisi, Georgia 11-12 October 2022)



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Attended:

GRENA (host)

ASNET-AM

AzScienceNet

RENAM

URAN (unable to participate remotely due to heavy shelling earlier that week)

Focus:

Foresight and sustainability

Project partners:

GARR

PSNC

DFN

LITNET

GEANT

Other EU NRENS

DeiC (Denmark)

Cynet (Cyprus)

NORDUnet (represented by Norway)





Kharkiv University of Humanities
“People’s Ukrainian Academy”

1972 educational entities (schools, universities and so on) were hit by bombings and shelling.

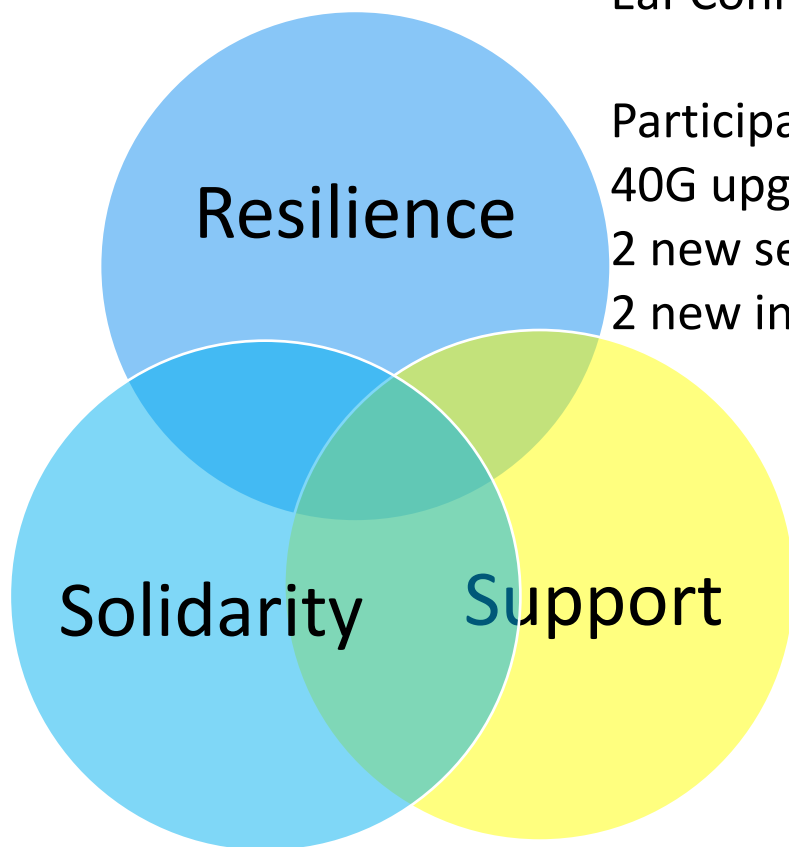
194 of them were completely destroyed.

Kharkiv is the second city in Ukraine by the density of science and education. Practically all Research and Education entities in Kharkiv are damaged.



EaPConnect:

- Participant in the project governance/events
- 40G upgrade to the backbone in Kyiv
- 2 new servers to build up the capacity of the Data Centre
- 2 new institutions in Kyiv added to the URAN network

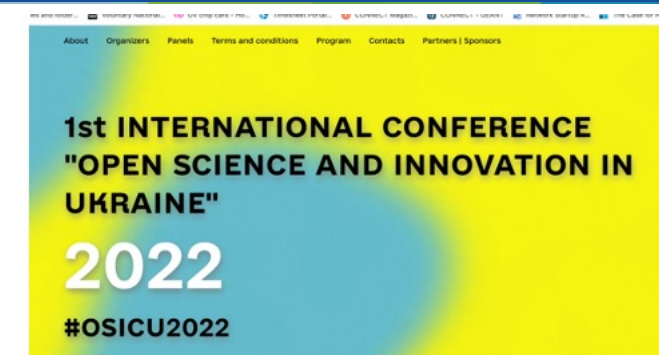


Vietsch Foundation
(channel for financial support)

GEANT community:
NORDUnet – secure data storage



Community collaboration group for coordinated efforts



UAScience.Reload

UKRAINIAN SCIENTISTS SUPPORT PROJECT

aims at raising global community awareness of the threats for Ukrainian scholars, and support those who are in need

Contact info:

E-mail: info@uascience-reload.org, anastasii.a.lutsenko@gmail.com
Web: <https://www.uascience-reload.org/>



