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NRENs edu services: 2024 survey findings

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TF EDU surveys, 2019-2024

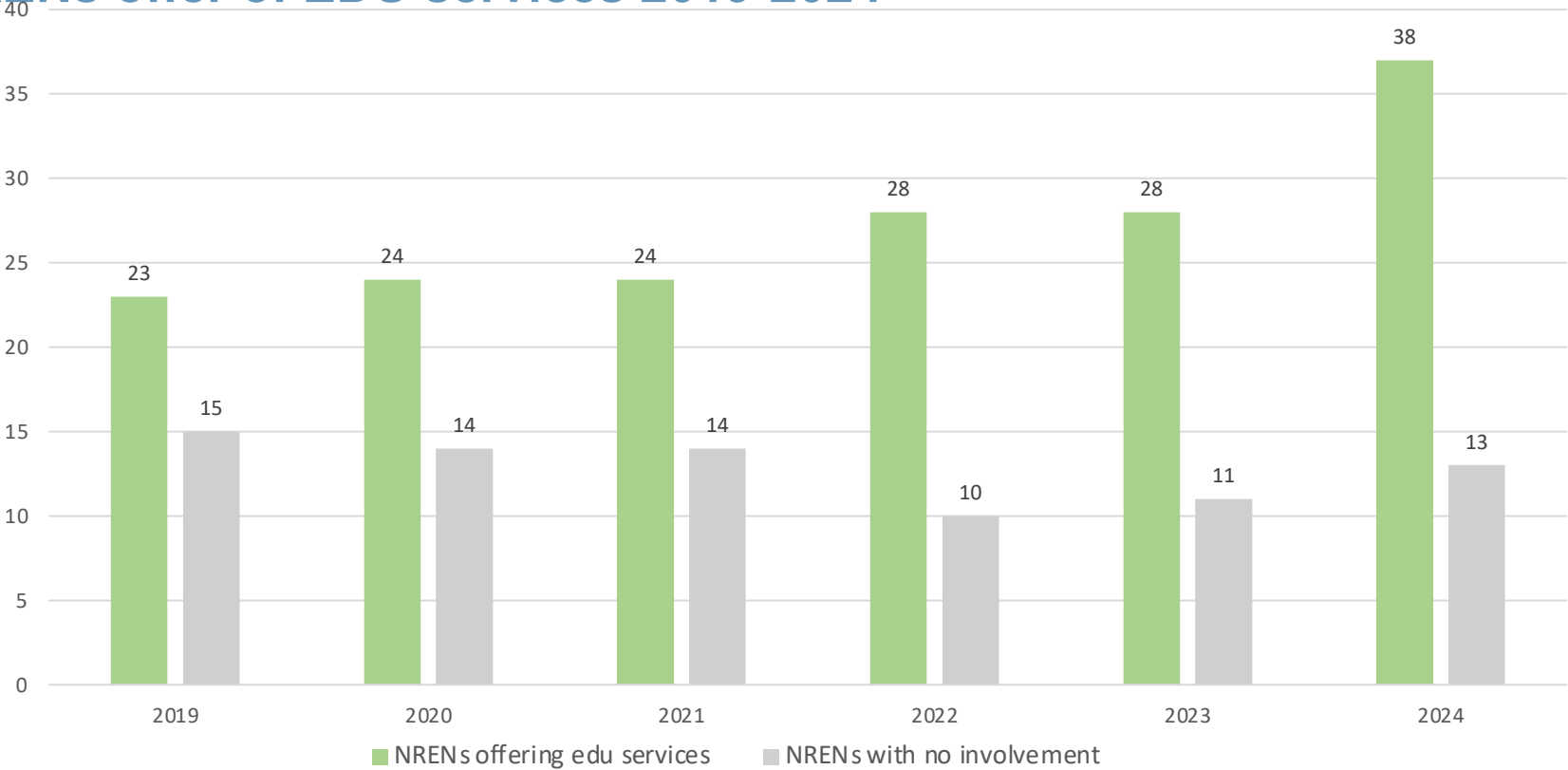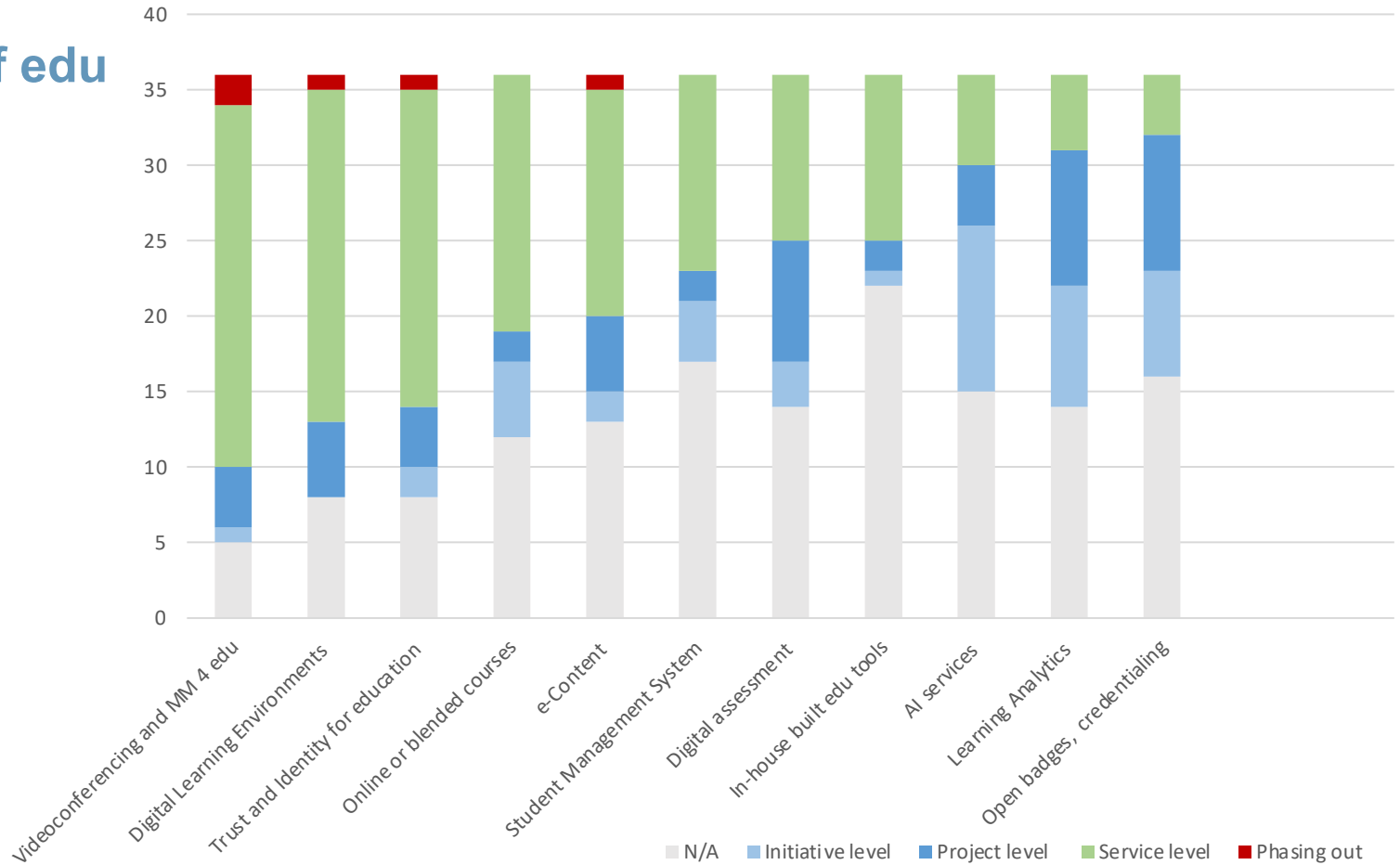|				
Videoconferencing in education	Digital Learning Environments	Trust and Identity for education	Online or blended courses	e-Content
Student Management System	Digital assessment	AI services	Learning analytics and edu data mining	Open badges, credentialing
		NREN built edu tools		

Edu services

= services for teaching and learning

= services for administration of education institutions

NRENs offer of EDU services 2019-2024

Bar chart showing NRENs offer of EDU services 2019-2024.

Year	NRENs offering edu services	NRENs with no involvement
2019	23	15
2020	24	14
2021	24	14
2022	28	10
2023	28	11
2024	38	13

■ NRENs offering edu services   ■ NRENs with no involvement

Maturity of edu services
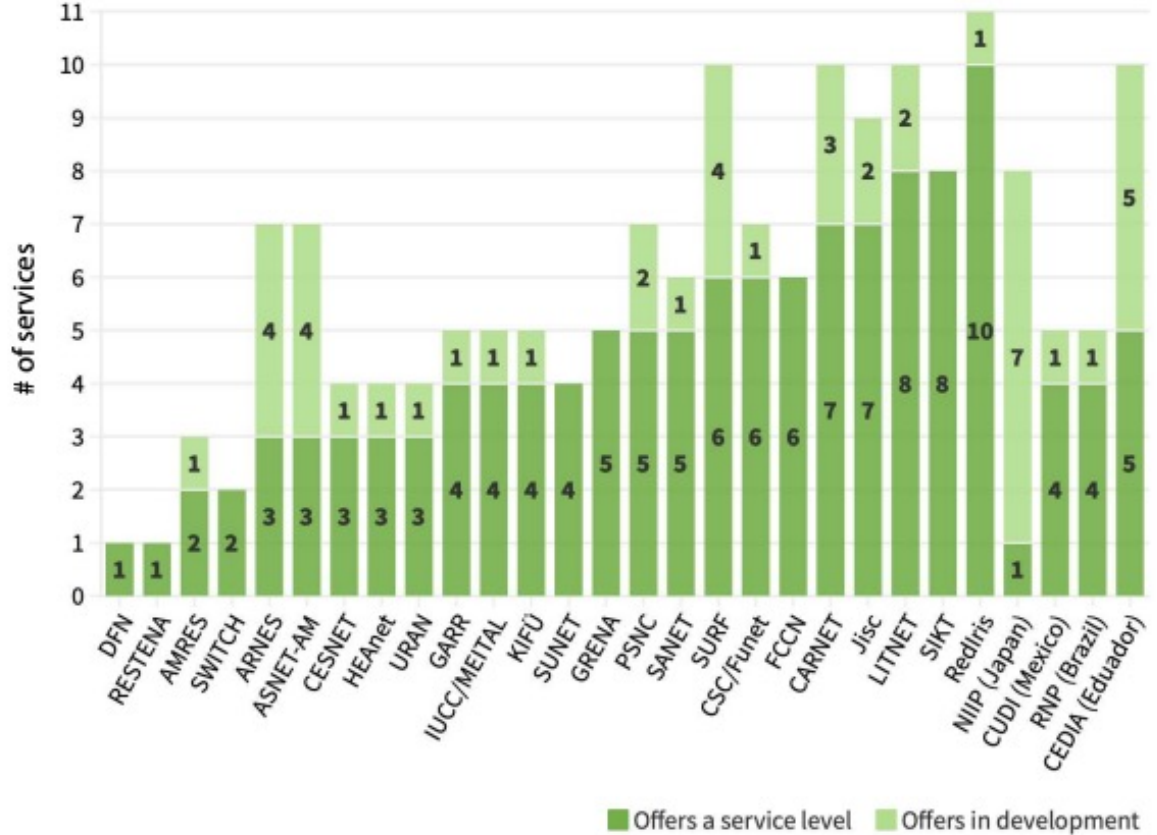
NREN portfolio 2024
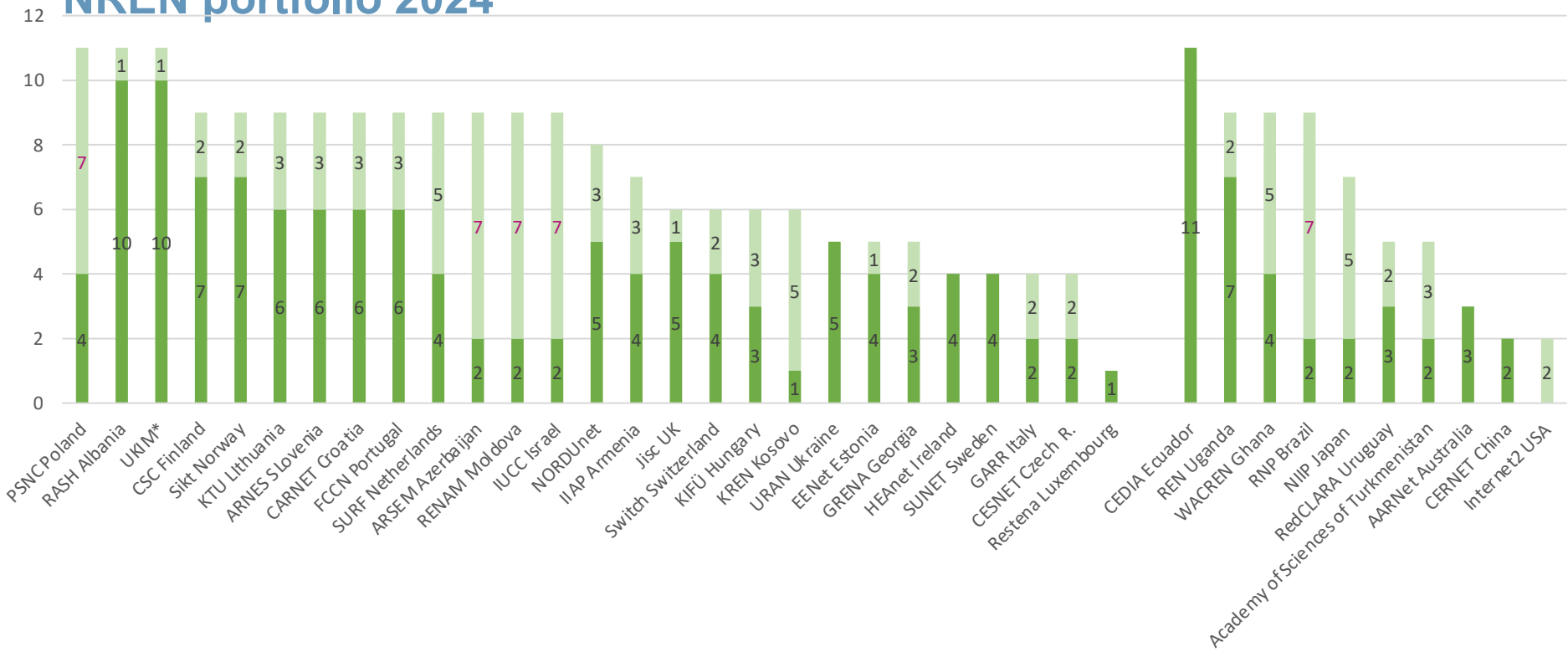
In comparison to NRENs portfolio 2023

provided and in development / by NREN

Offers a service level Offers in development

NRENs portfolio - specific edu services 2024

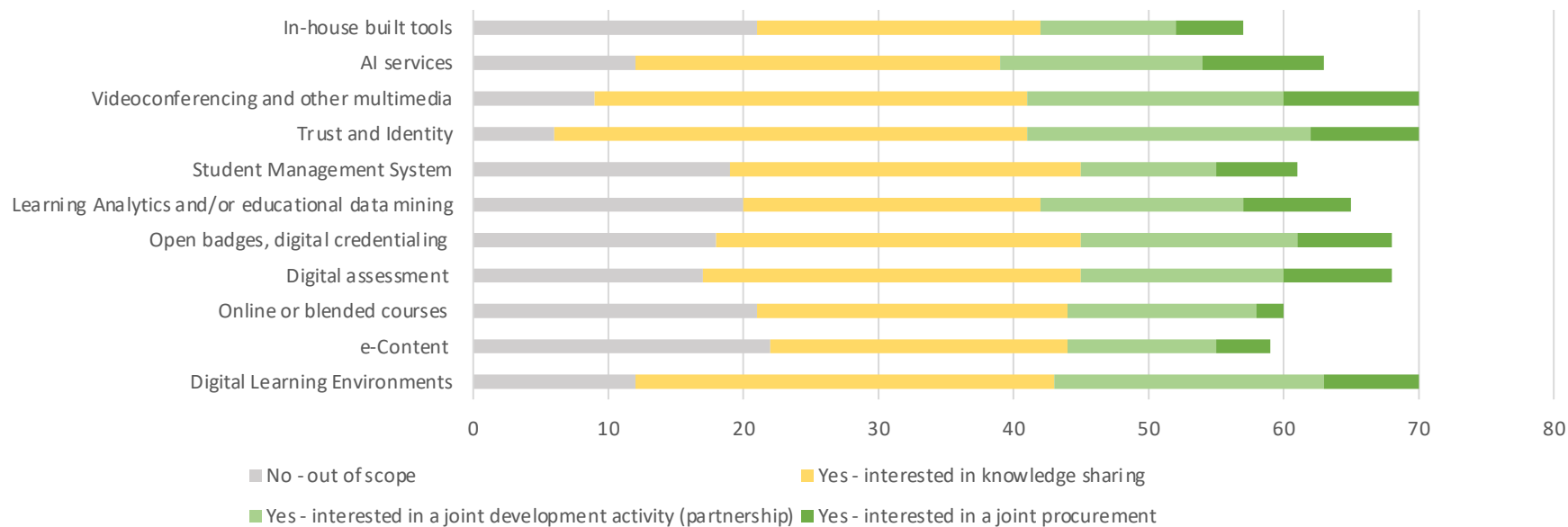|	Video conferences	T&I	Digital Learning Env	Online courses	e-Content	LA	Digital assess	AI services	Open badges	Student Man System	In-house tools
PSNC Poland	S	D	S	S	S	D	D	D	D	D	D
RASH Albania	S	S	S	S	S	S	S	S	D	S	S
UKIM North Macedonia	S	S	S	S	S	S	S	S	D	S	S
ARSEM Azerbaijan	D	D		D	S	D	D	D	D	S	
ARNES SLovenia	S	D	S	S	S	D		D	S		S
FCCN Portugal	S	S	S	S	S	D	D			D	S
SURF Netherlands	D	S	D		S	D	D	S	S	D	
RENAM Moldova	S	D	S	D	D	D	D	D		D	
CARNET Croatia	S		S	S	S	D			D	D	S
KTU LIthuania	S	S	S	S		D	S	D	D	S	
CSC Finland	S	S	S	S		D	S	D		S	S
Sikt Norway	S	S	S	S		D	S	S	D	S	
IUCC Israel	D		S	S	D	D	D	D	D		D
NORDUnet	S	S	S		D	S			D	S	D
IIAP Armenia	S	D	S	S		D	S				
Switch Switzerland	S	S	D				D		S	S	
KREN Kosovo		D	S	D	D		D		D		
KIFÜ Hungary	S	S	S			D		D	D		
Jisc UK		S			S	S			S	D	S
EENet Estonia		S			S	D	S			S	
GRENA Georgia	S		D		D		S				S
URAN Ukraine	S	S	S	S	S						
GARR Italy			D	S	S				D		
HEAnet Ireland	S	S	S							S	
CESNET Czech R.	S	S		D					D		
SUNET Sweden	S	S	S				S				
Restena Luxembourg		S									
CEDIA Ecuador	S	S	S	S	S	S	S	S	S	S	S
WACREN Ghana	S	S	D	S		D	D	D	D	S	
REN Uganda	S	S	S	S	D		S	D		S	S
RNP Brazil	S		S	D		D	D	D	D	D	D
NIIP Japan - National Institute of	D		S	D	S	D			D		D
Academy of Sciences of Turkme	D			D	S			D			S
RedCLARA Uruguay			S	S			D		S	D	
AARNet Australia	S				S	S					
CERNET China	S	S									
Internet2 USA		D						D			
	30	28	28	25	23	23	22	22	21	19	15

NRENs in the last year

- **LMS**: the most essential service, HE content, ongoing development and integration with other tools (*Moodle*)

- **Videoconferencing**: essential for meetings, lecture recording, MM content delivery. (*Zoom*). Despite its use, *there was a mix of feedback on its necessity, with some considering it least needed*.

- **T&I**: significant focus, Identity Access and Management. (*edu-ID*)

- **Digital credentialing and Open Badges**: certification, exchange of educational data (*edubadges*)

- **AI:** increasingly incorporated in training. Evaluation, collaborative tools, and AI-driven services were sought after.

- **Digital Transformation and Support Services**: empowering sectors to move forward with digital transformation; support for various services (admission management, digital assessment, and plagiarism control)

Plans for the near and longer term future

- Specific services:
    - Explore AI in support of educational and research missions, including adaptive learning
    - LMS integration:* (e.g., Web Conference, Eduplay, Moodle, and FileSender) using APIs.
    - Explore digital credentials and certification services.
    - Expand eduroam, eduGAIN, and videoconferencing services
    - Standardized university management systems

- Training and community
    - Introduce new course themes (e.g., data, blockchain, AI) to support professional development.
    - Develop training centers for creating digital content
    - Build networks and communities of practice to support educational initiatives.

- Partnering and procuring
    - Develop new procurement strategies for LMS, digital assessment, and plagiarism control systems.
    - Partner with stakeholders to develop support systems
    - Reflect on roles in basic education and new service models

- Consolidate current services and plan for future user needs without significant changes.

Interest in collaboration

Horizontal bar chart showing interest in collaboration across categories. Categories (top to bottom): In-house built tools, AI services, Videoconferencing and other multimedia, Trust and Identity, Student Management System, Learning Analytics and/or educational data mining, Open badges, digital credentialing, Digital assessment, Online or blended courses, e-Content, Digital Learning Environments.

Legend:
- No - out of scope
- Yes - interested in knowledge sharing
- Yes - interested in a joint development activity (partnership)
- Yes - interested in a joint procurement

Topics you want to see in future TF-EDU ws

- **Innovative Pedagogies**, Innovative Educational Technologies, Advancements in Distance Learning. Innovation activities and capacity building. Interactive **video,** mixed reality. Leveraging Data for Educational Excellence.

- **AI** applied to Education, AI applied to Research. Learning and Data Analytics.

- **Navigating Regulatory Landscapes**. *Bit more monitoring on what is happening and important within the education landscape of the EC would be helpful.* Education and Sustainable Development Goals.

- Developments in **Identity & Access management**; eduGain; Student Management System, Lifelong learner ID, Student wallets, Identity vs identity matching; eIDAS review impact for educational institutions and NRENs' opportunities.

- **Educational flexibility**, service delivery european alliances. Standardization of educational tools / platforms (at national and institutional levels).

- **Success stories and challenges** are always useful topics for all participants. Experience of other NRENs. More focus on community-building, talk to others and connect. Strengthening cooperation and future initiatives. Education and motivation to consume digital services.

Thank you
Any questions?

TF-EDU Steering Committee

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