

*TF-EDU infoshare & discussion– February 11<sup>th</sup> 2021*



## TF-EDU annual survey 2020

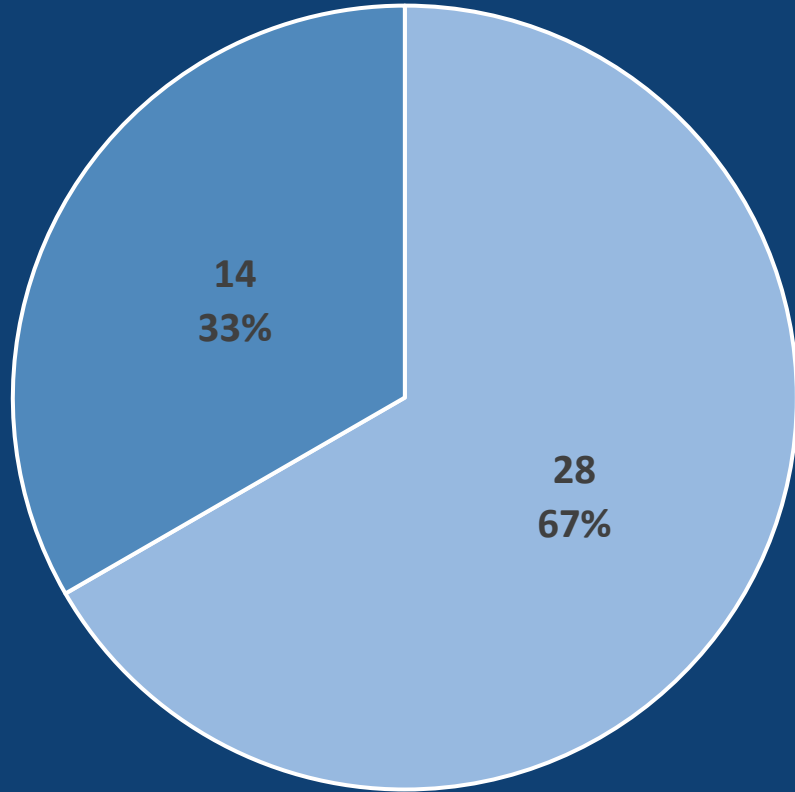
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***Survey authors:** TF-EDU Steering Committee*



As part of the GÉANT 2020 Framework Partnership Agreement (FPA), the project receives funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 856726 (GN4-3).

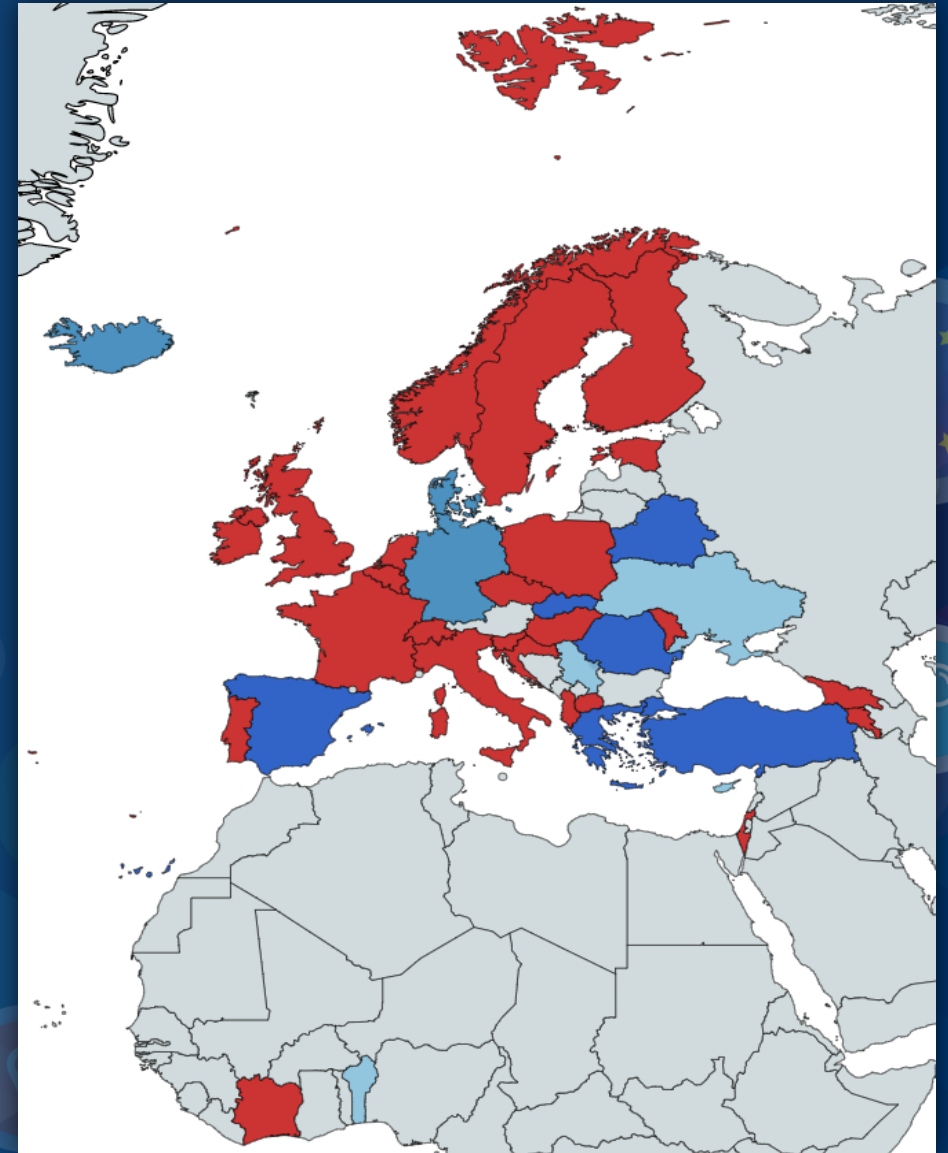
# Overview of NRENs providing educational services / activities beyond digital infrastructure, network and network services



□ Yes □ No

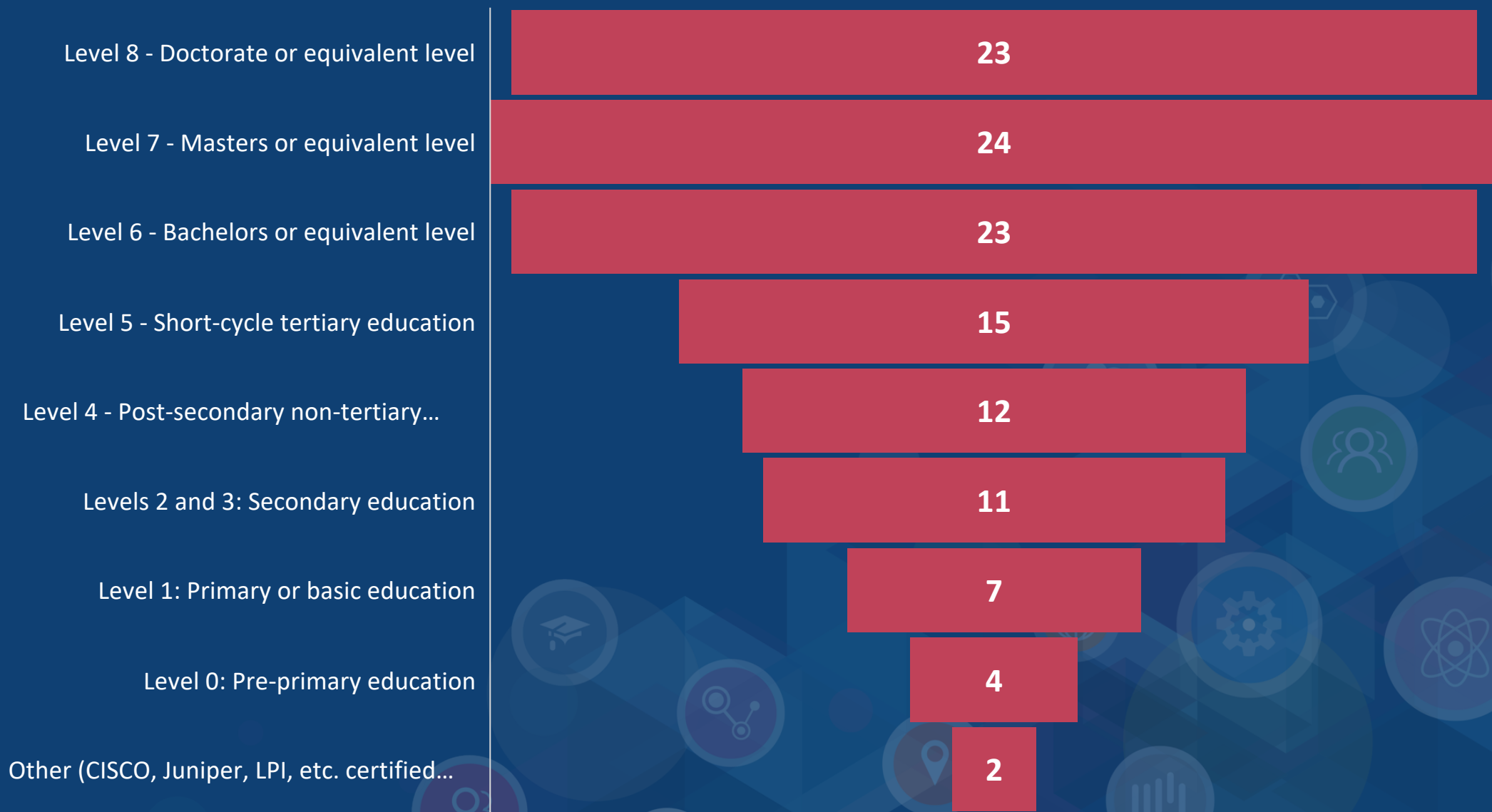
42 NRENs

- YES
- Education not within organisation's remit
- Lack of resources (e.g. cost, time, staff)
- Other (Ministry of Education and Regional Governments, universities)



## Levels of education supported by NRENs

*(based on ISCED 2011 classification system)*



## Educational services are defined as:

A. Services for teaching and learning (f.ex. D/VLE, LMS, videoconferencing, digital assessment and other services supporting teachers and students)



B. Services targeted to administration and organisation of educational institutions (e.g. virtual campus, student management system, trust and identity services (eduID) and any other supporting the organisational aspects)



C. Combination of the previous two (A. teaching and learning and B. administration and organisation of education institutions)



D. Any education service beyond internet connectivity and digital infrastructure

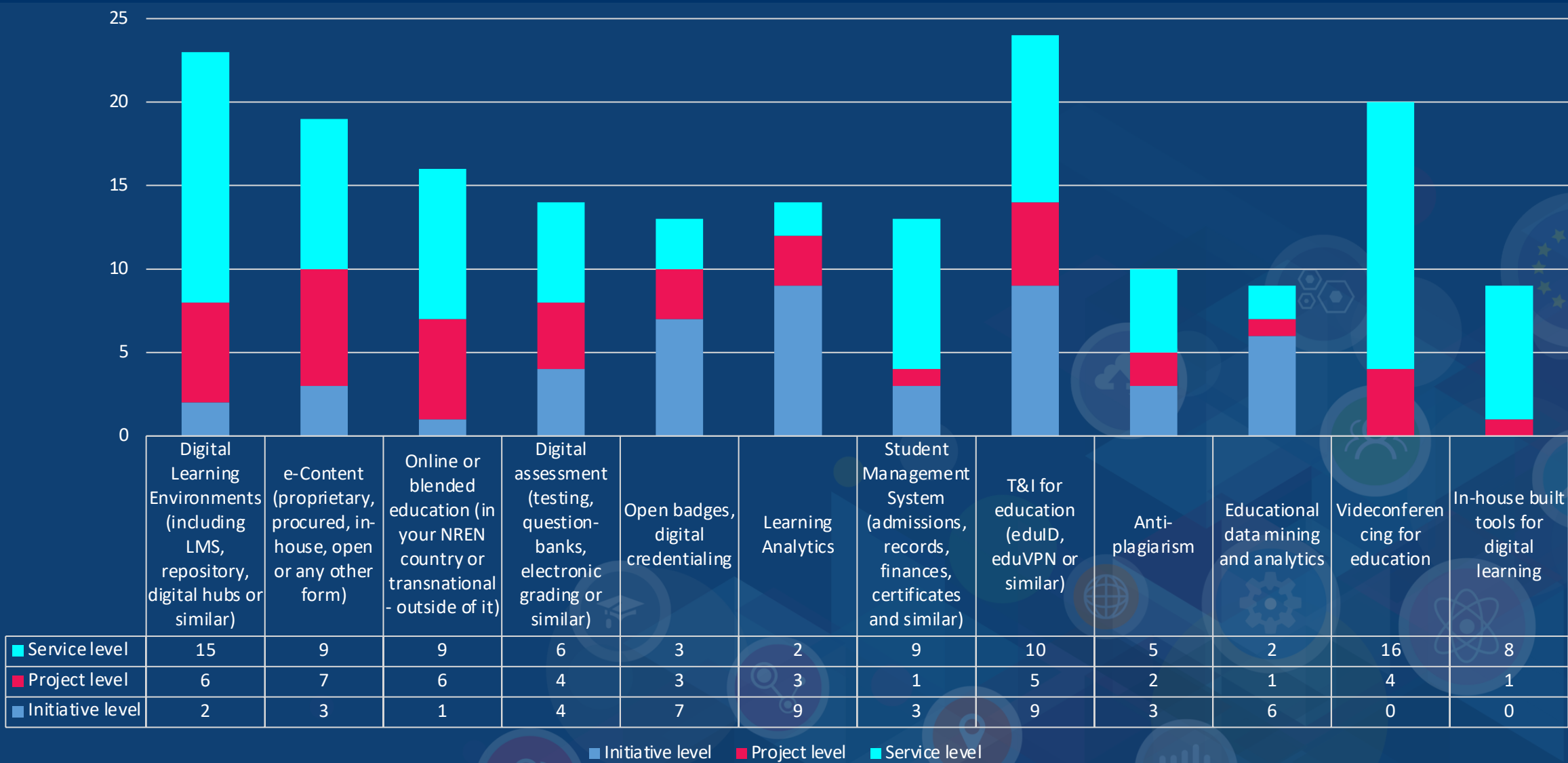


Other (E-Learning Community eduhub, no formal specification)



0 2 4 6 8 10 12 14 16

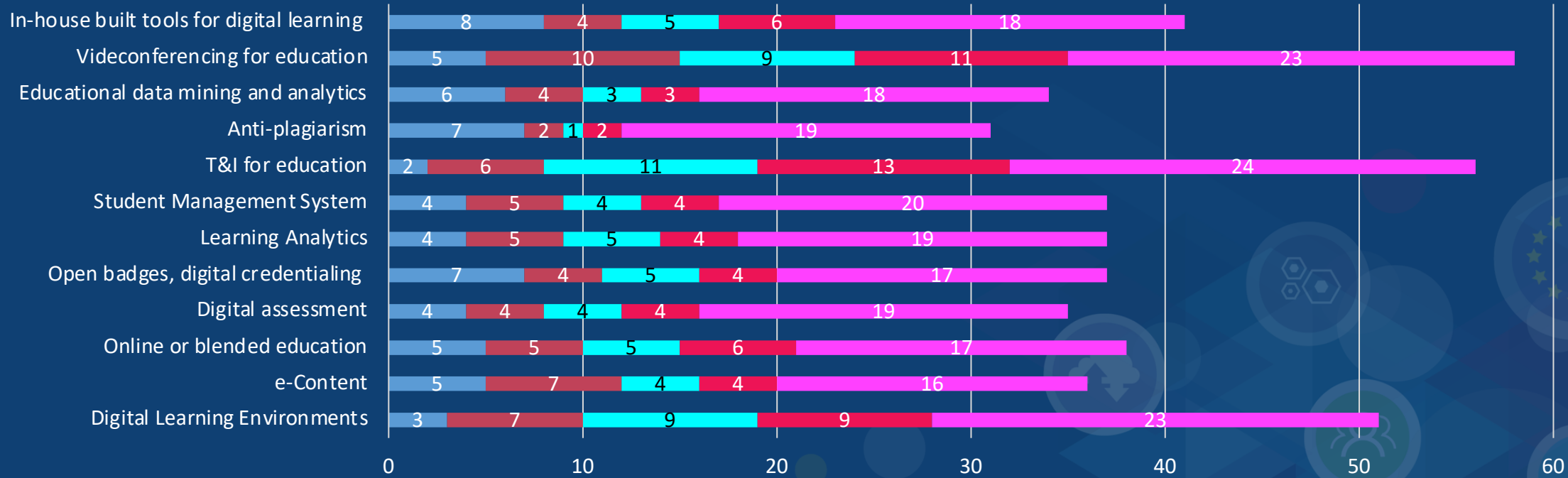
# Level of maturity of education services / activities



■ Initiative level ■ Project level ■ Service level

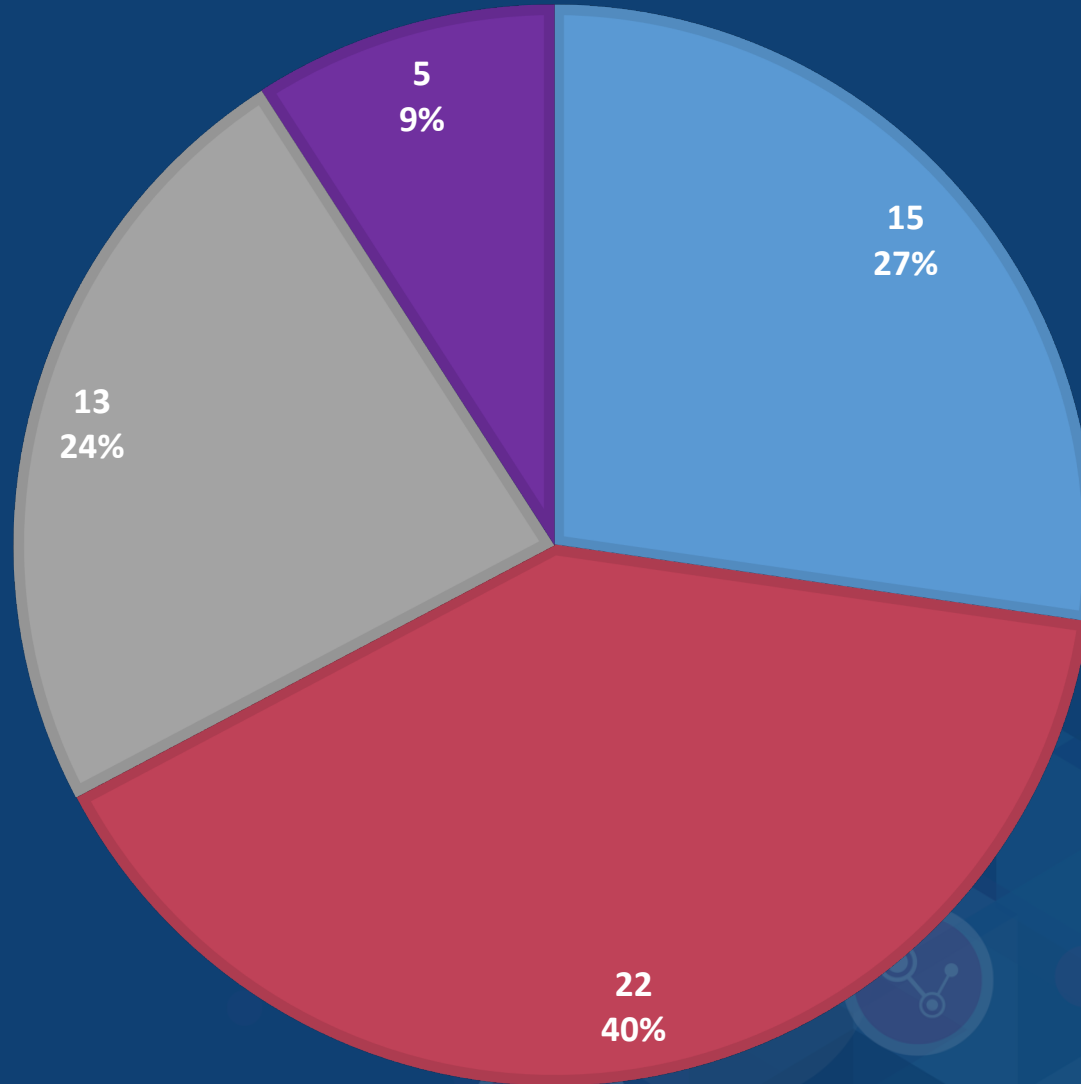
# Levels of education for each educational services / activities supported by NRENs

(based on ISCED 2011 classification system)



	Digital Learning Environments	e-Content	Online or blended education	Digital assessment	Open badges, digital credentialing	Learning Analytics	Student Management System	T&I for education	Anti-plagiarism	Educational data mining and analytics	Vide Conferencing for education	In-house built tools for digital learning
■ Level 0 (Pre-primary)	3	5	5	4	7	4	4	2	7	6	5	8
■ Levels 1, 2 and/or 3 (Primary and Secondary ed)	7	7	5	4	4	5	5	6	2	4	10	4
■ Level 4 (e.g. vocational ed.)	9	4	5	4	5	5	4	11	1	3	9	5
■ Level 5 (Short cycle tertiary)	9	4	6	4	4	4	4	13	2	3	11	6
■ Levels 6-8 (Higher education)	23	16	17	19	17	19	20	24	19	18	23	18

# Organisational strategy for developing these services / activities



- In-house development
- Development in (project) partnership
- Market procurement
- Other (open source solutions, community, vendors)

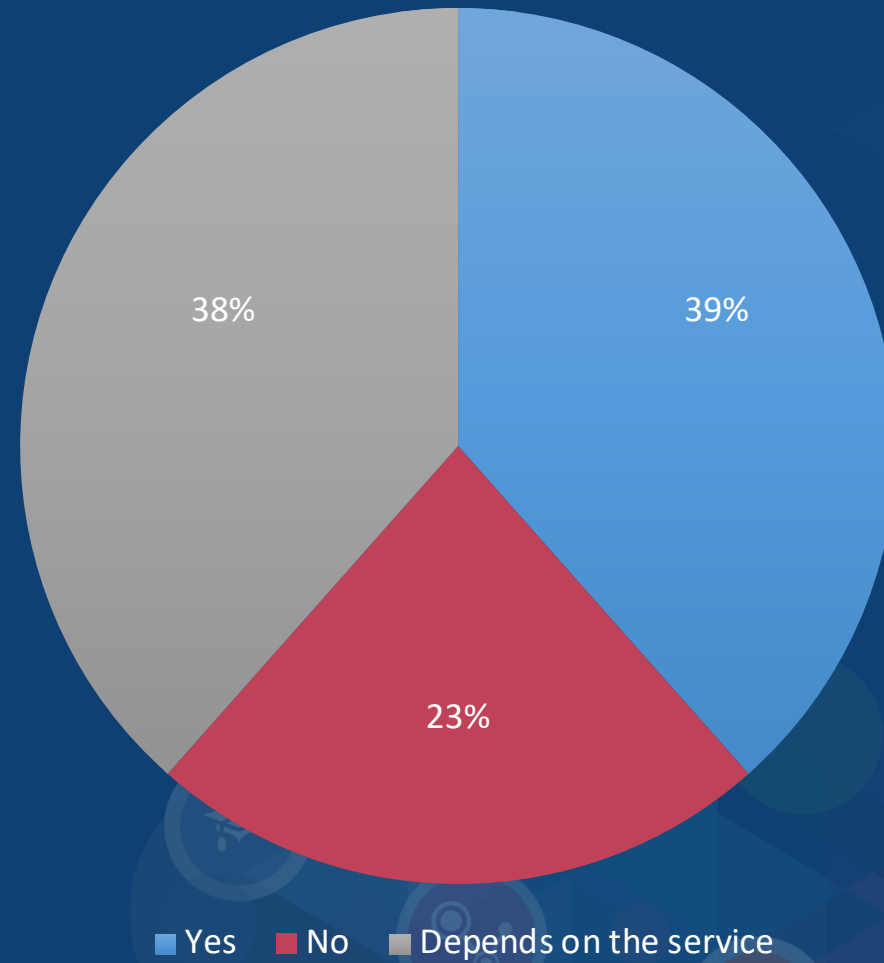


# Maturity of the processes of developing and delivering education services/activities

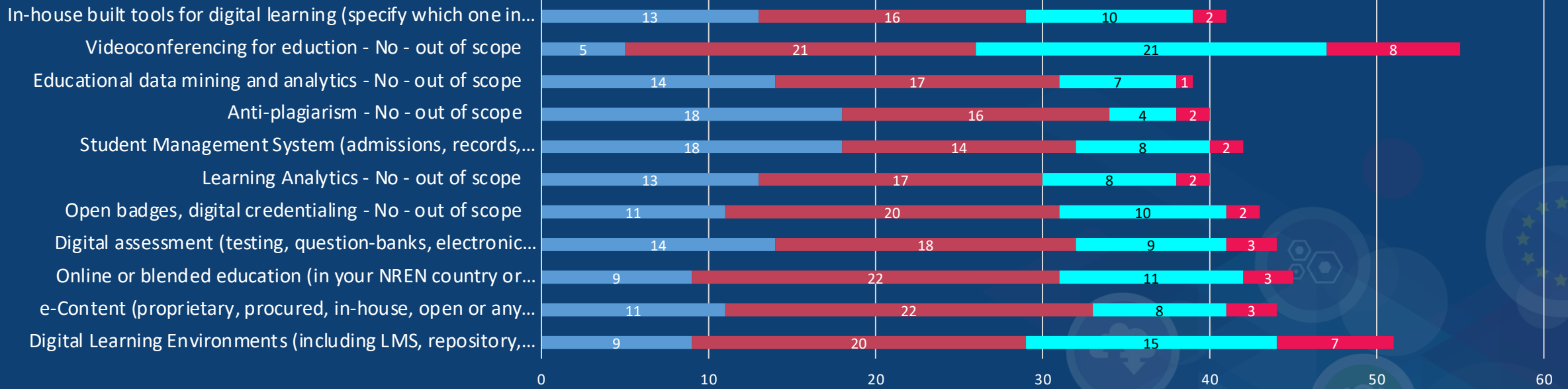




## Collaboration with other NRENs (or universities / companies) in developing and offering educational services / activities



# Interest in collaboration on specific services / activities



	Digital Learning Environments (including LMS, repository, digital hubs or similar) - No - out of scope	e-Content (proprietary, procured, in-house, open or any other form) - No - out of scope	Online or blended education (in your NREN country or transnational - outside of it) - No - out of scope	Digital assessment (testing, question-banks, electronic grading or similar) - No - out of scope	Open badges, digital credentialing - No - out of scope	Learning Analytics - No - out of scope	Student Management System (admissions, records, finances, certificates and similar) - No - out of scope	Anti-plagiarism - No - out of scope	Educational data mining and analytics - No - out of scope	Videoconferencing for education - No - out of scope	In-house built tools for digital learning (specify which one in the Other checkbox) - No - out of scope
■ No - out of scope	9	11	9	14	11	13	18	18	14	5	13
■ Yes - interested in knowledge sharing	20	22	22	18	20	17	14	16	17	21	16
■ Yes - interested in a joint development activity (partnership)	15	8	11	9	10	8	8	4	7	21	10
■ Yes - interested in a joint procurement	7	3	3	3	2	2	2	2	1	8	2

Big questions in educational services (now, short and long-term)



**TECHNOLOGIES** that exist or will need to be developed to support education services?



THANK YOU!  
Any questions?

