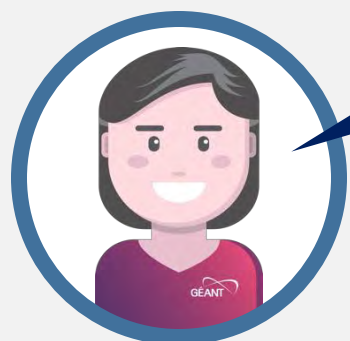




Menti.com: 8423 7528

9:45 - 10:00 ('15)	Preparation, come and meet the organisers over a cup of coffee.
10:00 - 10:20 ('20)	Welcome & Intro Evelien Renders (SURF/EUNIS/TF-EDU)
10:20 - 10:35 ('15)	The latest European developments in education digitalization Erik Kikkenborg (NORDUnet/TF-EDU)
10:35 - 10:50 ('15)	European Digital Education Hub interoperability initiatives Stefan Jahnke (KIT)
10:50 - 11:05 ('15)	GÉANT's work on enabling seamless learner journeys across institutions and borders Gyöngyi Horváth (GÉANT)
11:05 - 11:30 ('25)	Overview interoperability and standards Evelien Renders (SURF/EUNIS/TF-EDU)
11:30 - 12:00	Coffee Break
12:00 - 12:25 ('25)	Digital credentials, wallets, and identity access management for secure, borderless learning Klaas Wierenga (GÉANT)
12:25 - 12:55 ('30)	Open discussion
12:55 - 13:00 ('5)	Wrap-up - Evelien Reenders (SURF/EUNIS/TF-EDU) and Gyöngyi Horváth (GÉANT) Mentimeter & Closing

GÉANT – a Bottom-Up Membership Association since 1993

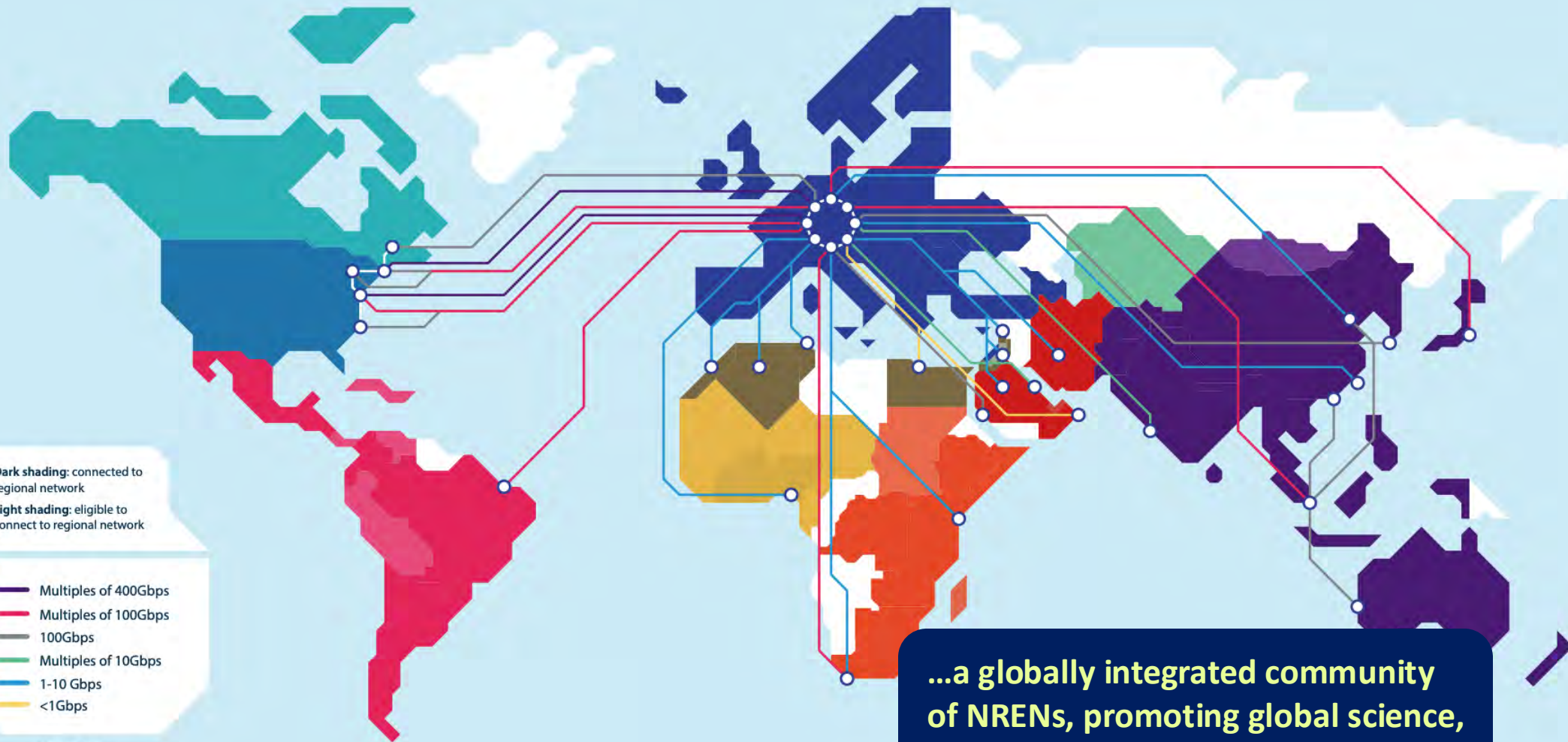


We represents 38 NRENs and NORDUnet across Europe. Together we support over 10,000 institutions and 50 million academic users.





Fibre capacity for the European Research Area. The GÉANT Network is Terabit ready.



Dark shading: connected to regional network
 Light shading: eligible to connect to regional network

- Multiples of 400Gbps
- Multiples of 100Gbps
- 100Gbps
- Multiples of 10Gbps
- 1-10 Gbps
- <1Gbps

March 2025

...a globally integrated community of NRENs, promoting global science, innovation and excellence



Canada & USA



Latin America



Europe



North Africa & Eastern Mediterranean



West & Central Africa



Eastern & Southern Africa



Central Asia

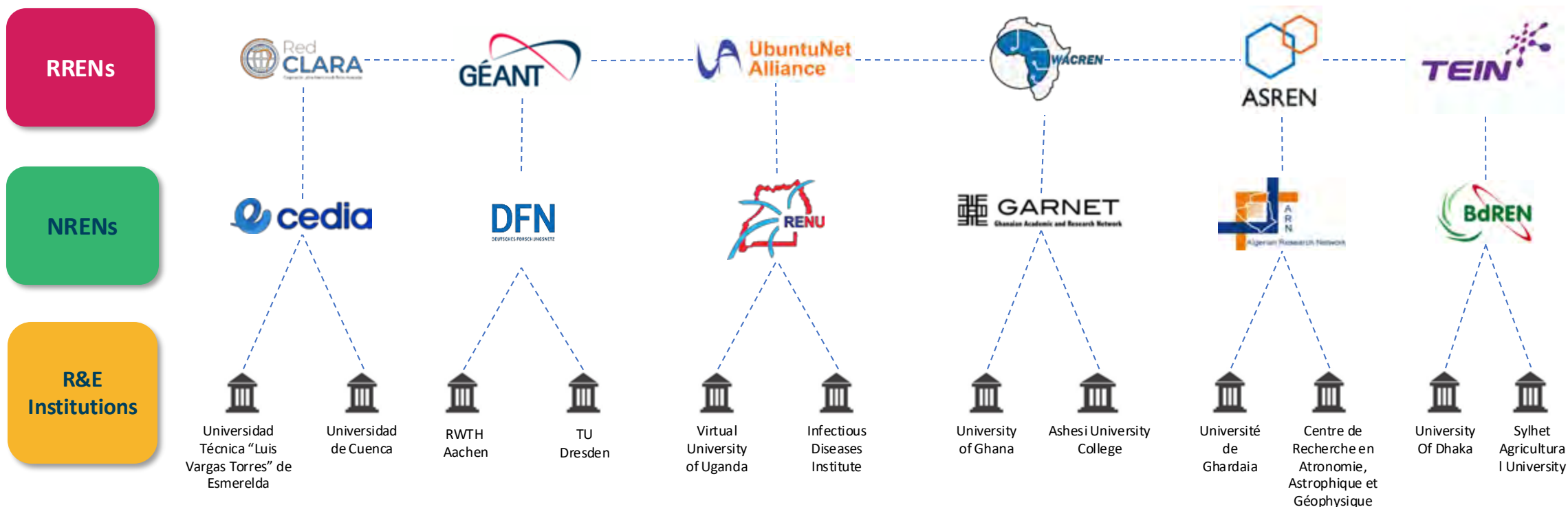


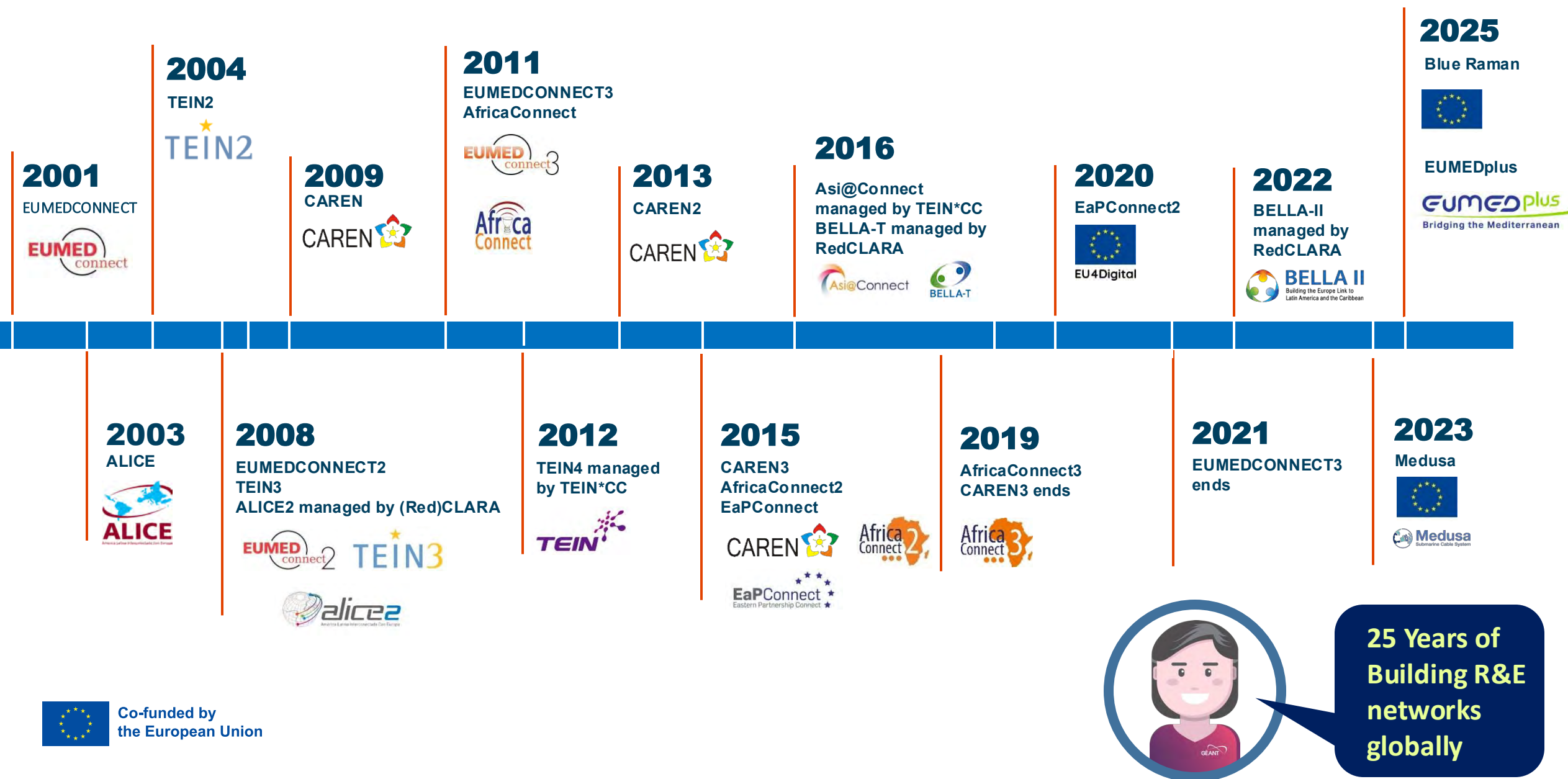
Asia-Pacific

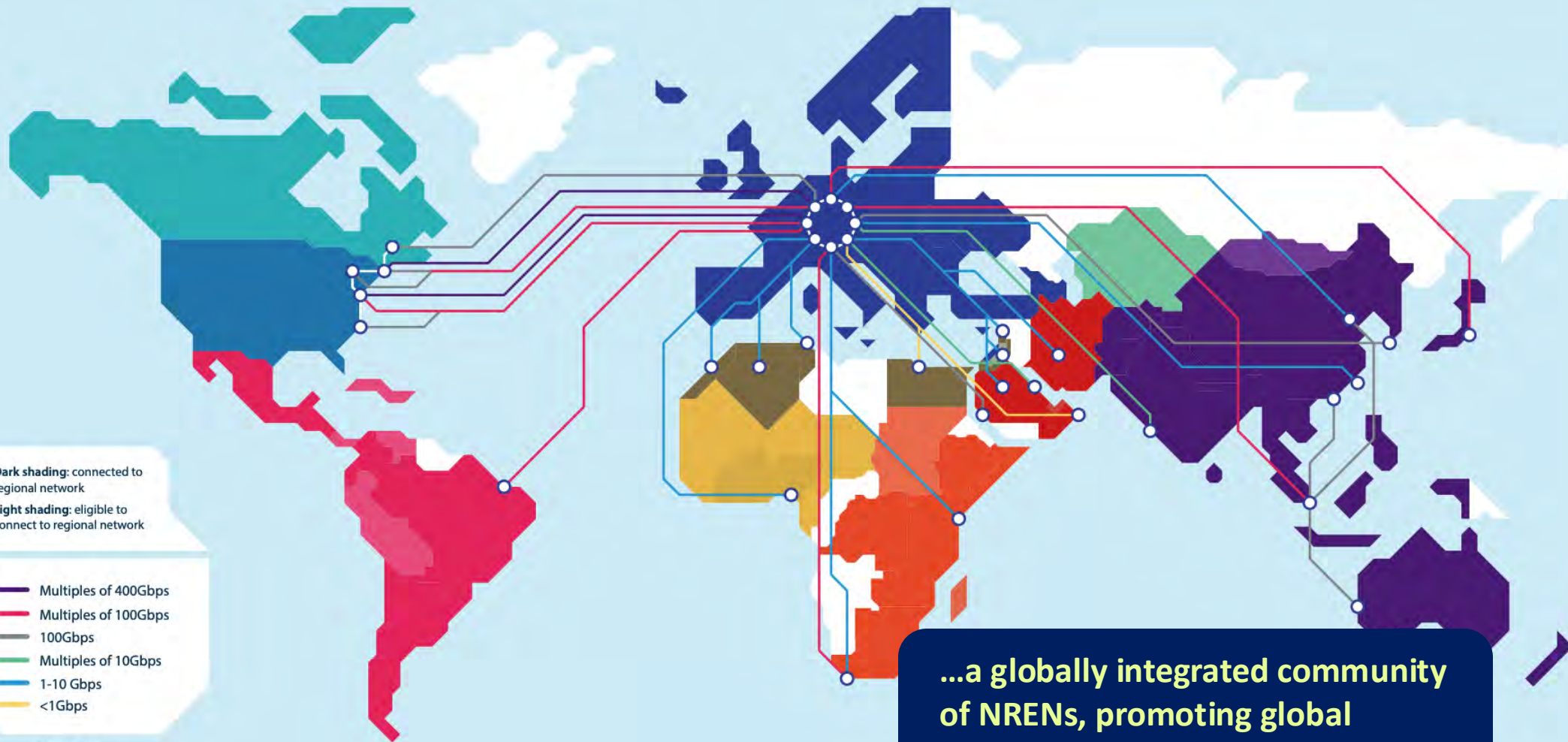


Other

How do NRENs work with each other?







March 2025

...a globally integrated community of NRENs, promoting global science, innovation and excellence



Canada & USA



Latin America



Europe



North Africa & Eastern Mediterranean



West & Central Africa



Eastern & Southern Africa



Central Asia

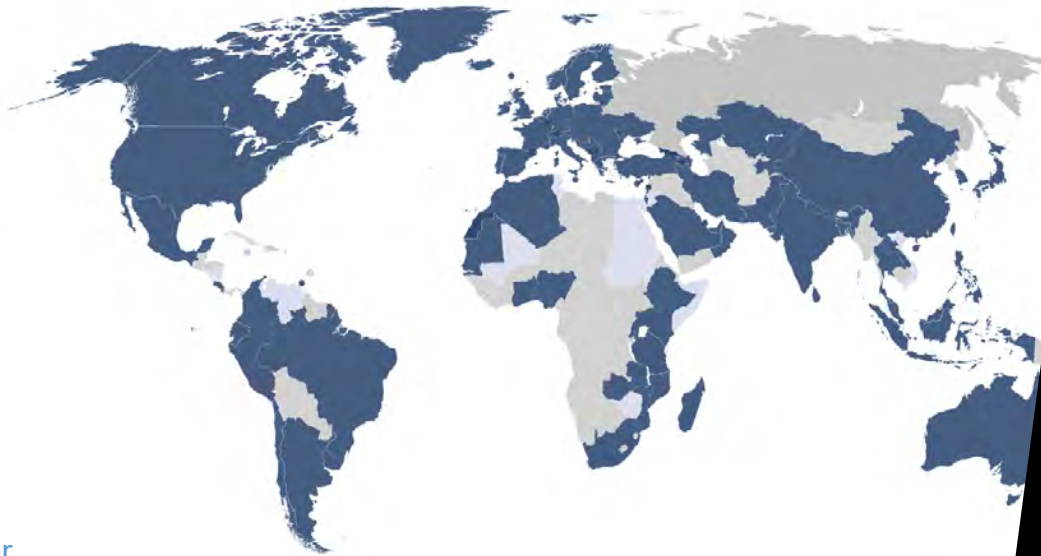


Asia-Pacific

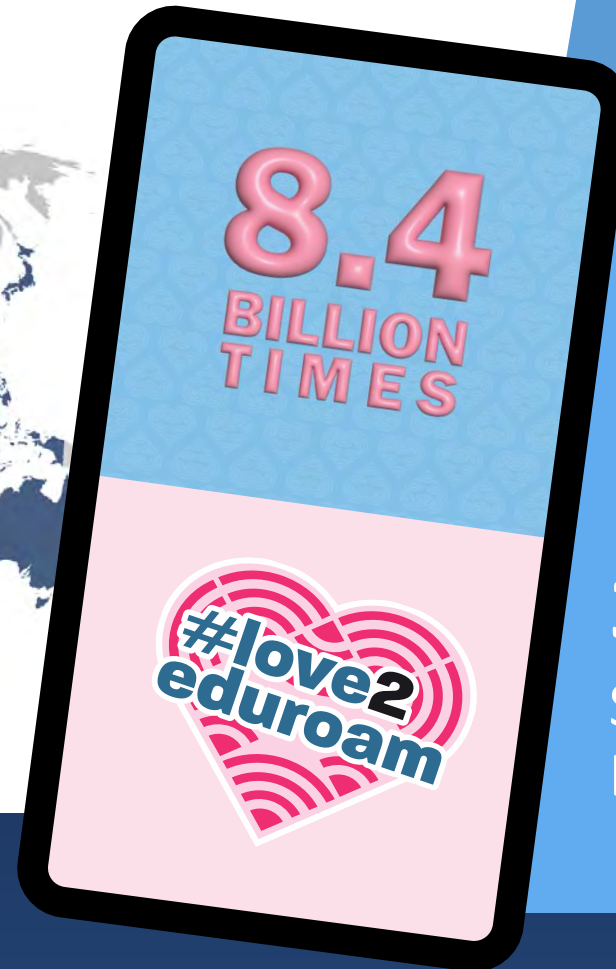


Other

eduroam Service uptake: National Roaming Operators (NROs)



- Member
- Pilot
- Possible new regions to 'eduroam-ise'



>106

Countries

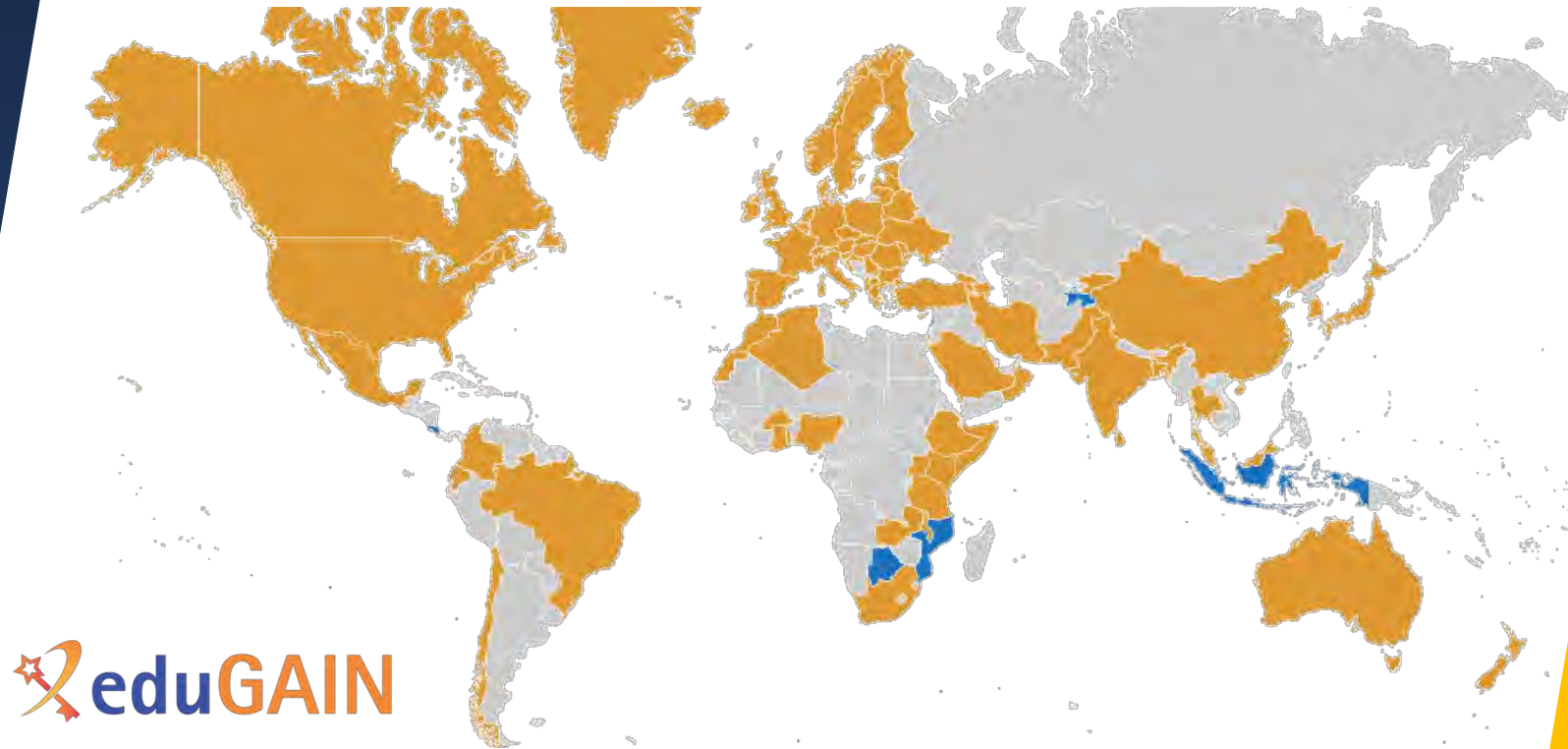
10,000+

Institutions

39,100+

Service
Locations

The growth of eduGAIN federations



83

Countries

6,090+

Institutions

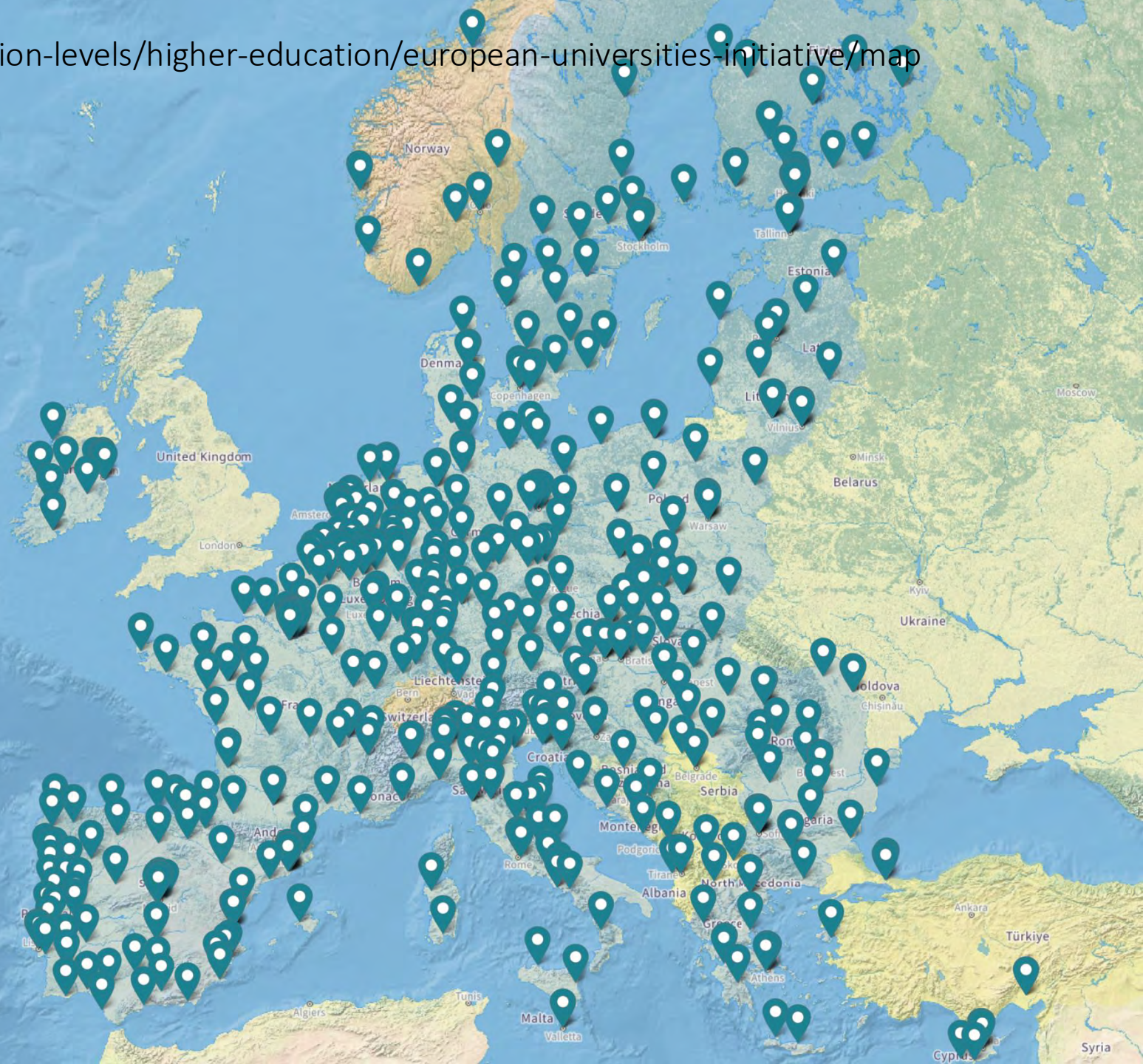
3,800+

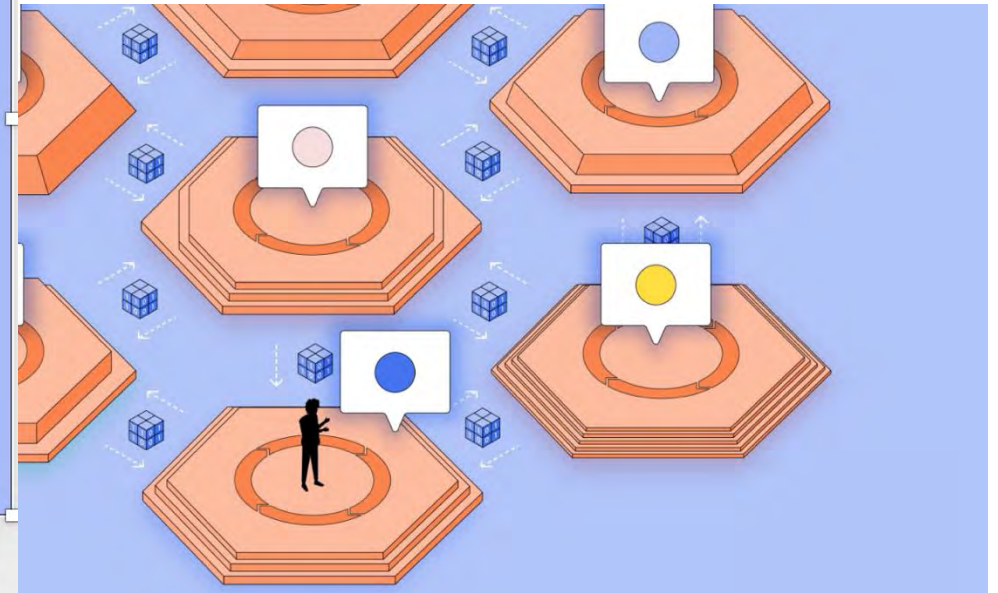
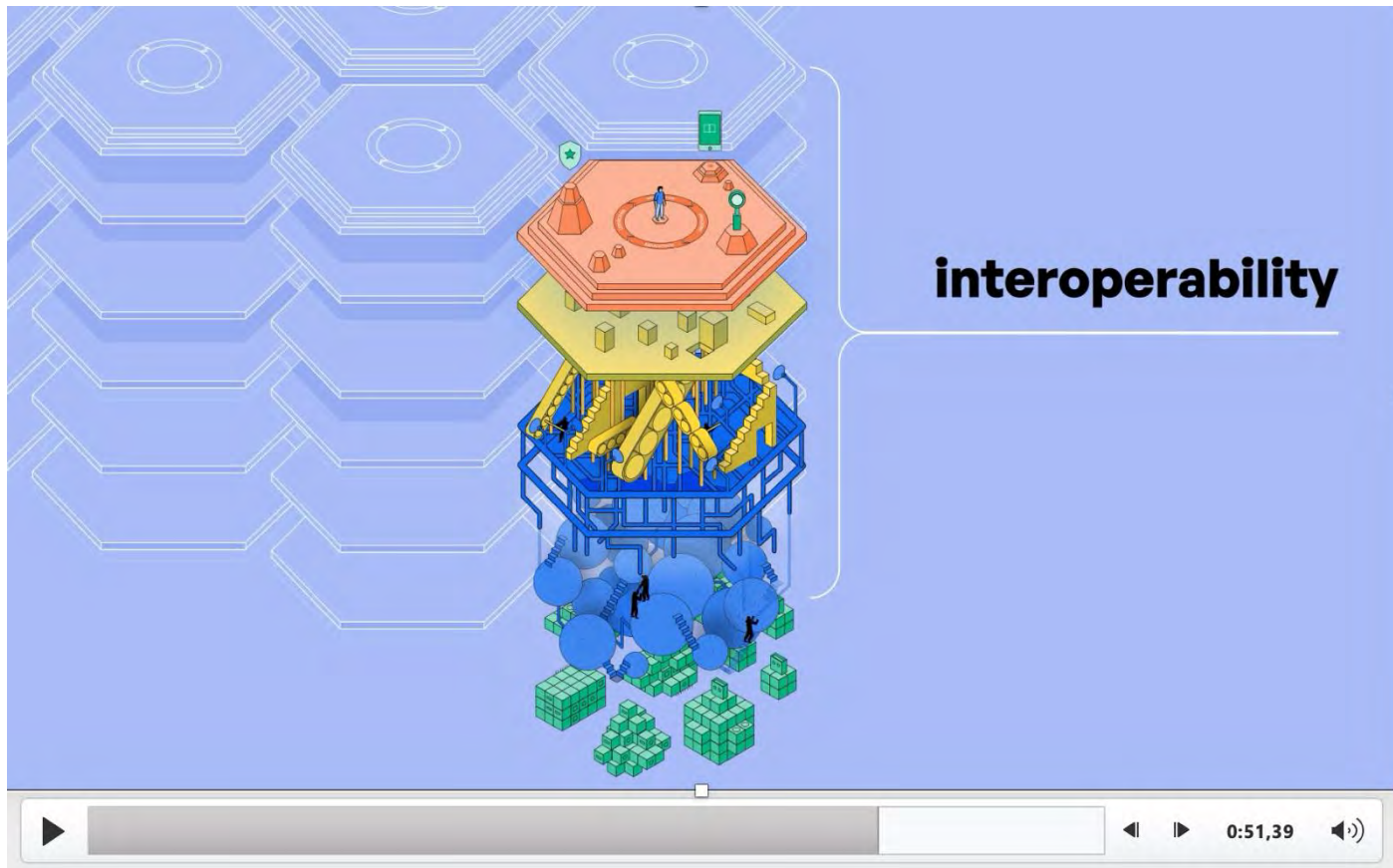
Service
Providers

edugain.org

Source: <https://education.ec.europa.eu/education-levels/higher-education/european-universities-initiative/map>

- 65 European university alliances
- 570 higher education institutions involved
- Coverage of 35 countries
- 2,200 associated partners
- €1.2 billion in Erasmus support



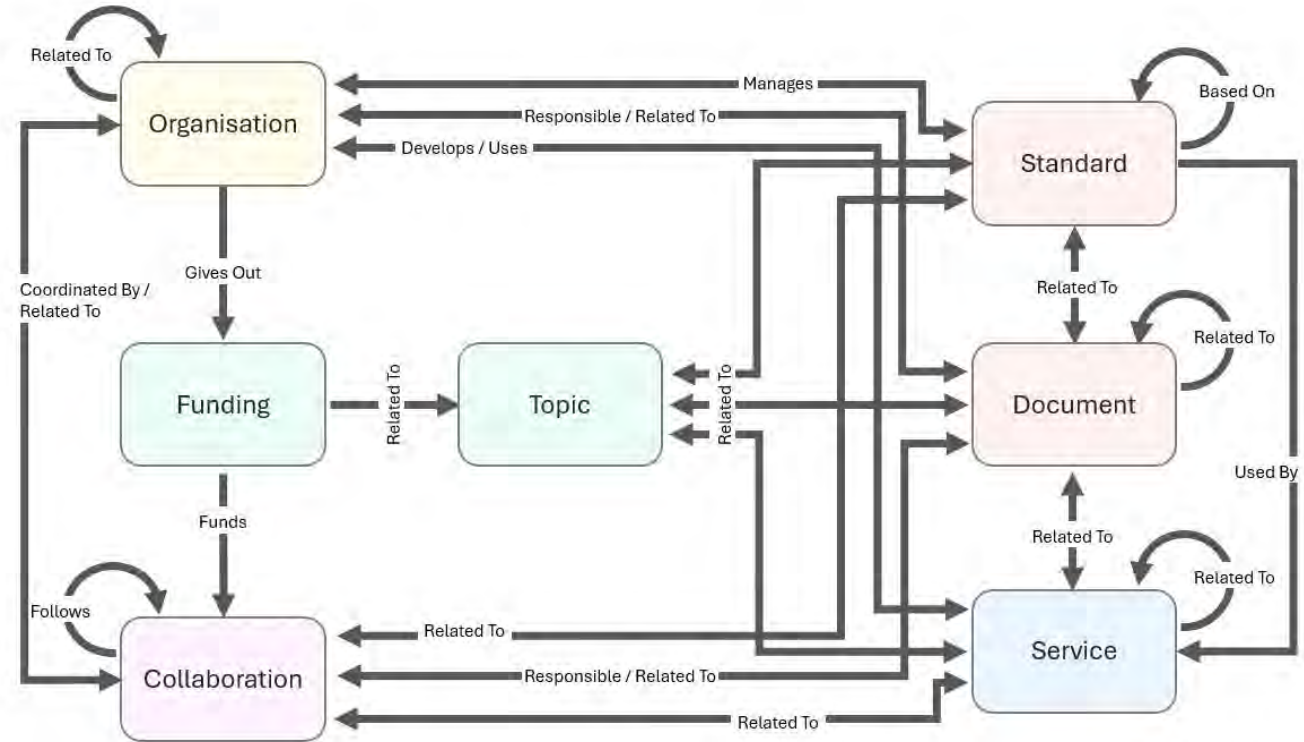


For the videos, please go to www.interopvisual.eu/en/toolkit

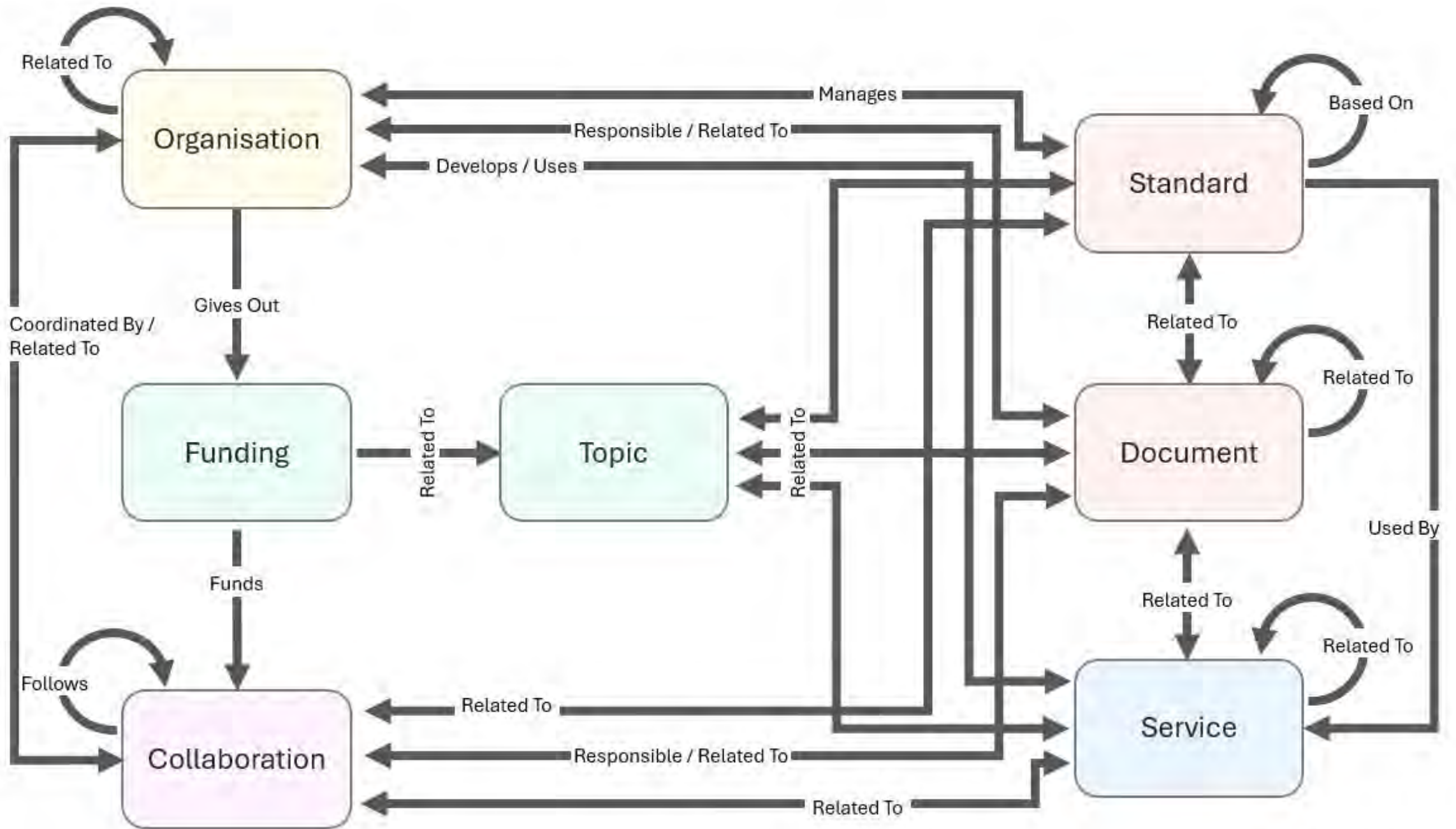


EduXS

introduction

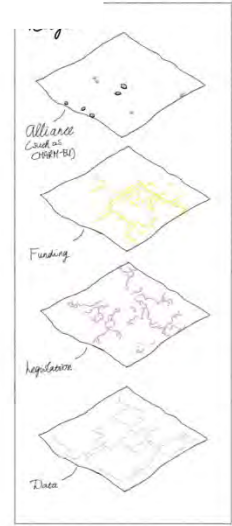
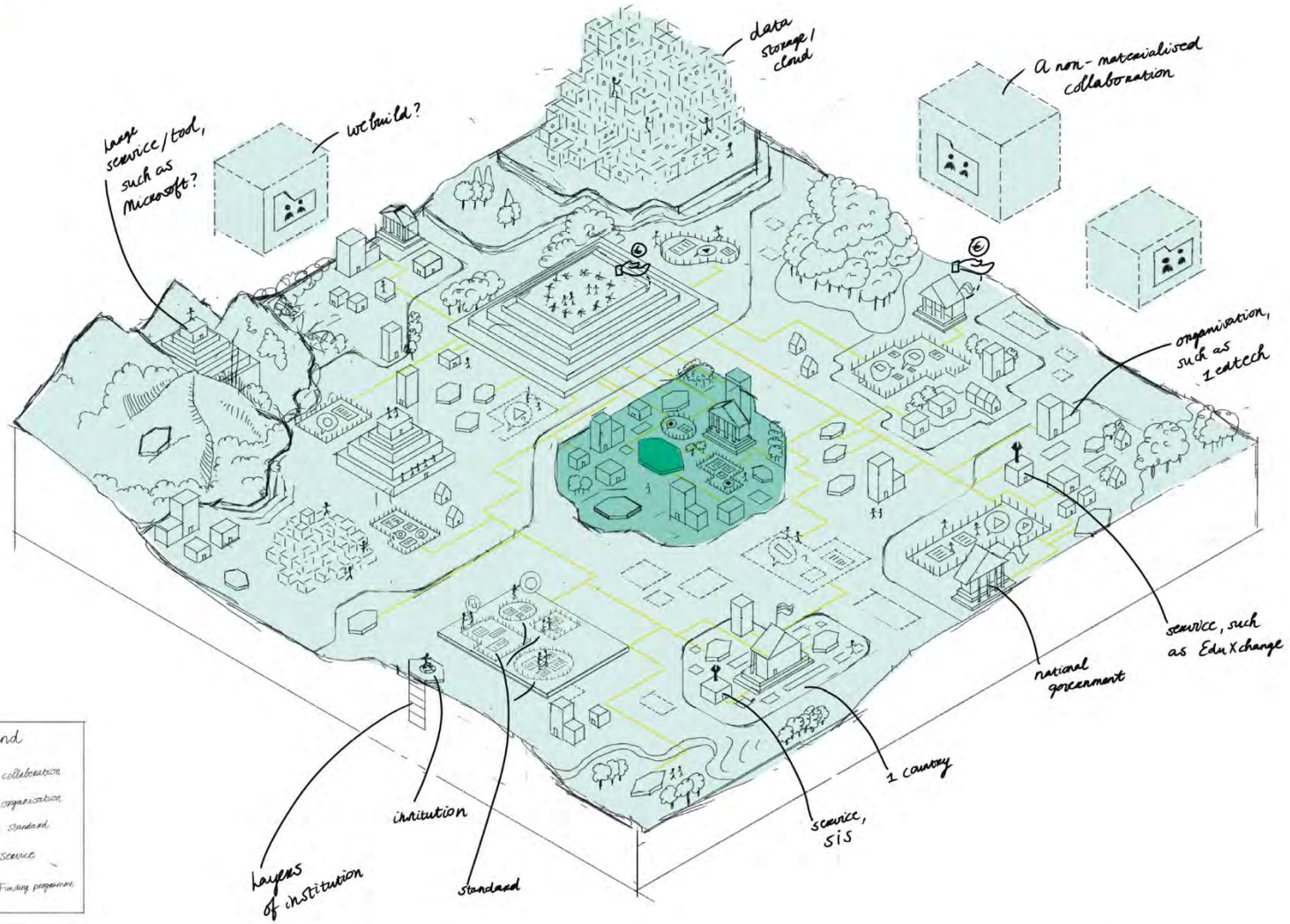


Versie 2024.08.03c



educational ecosystem

Concept sketch

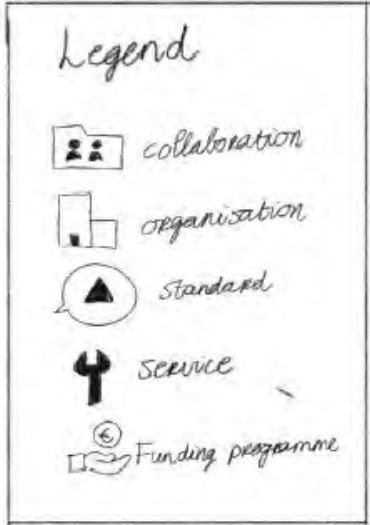


COLDFON 2018
 Design: Emma Jansz
 Content: Programmers, inspirational
 interoperability for solutions and data

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Want to know more?
 Scan this QR code or visit:
<https://twitter.com/npuls>



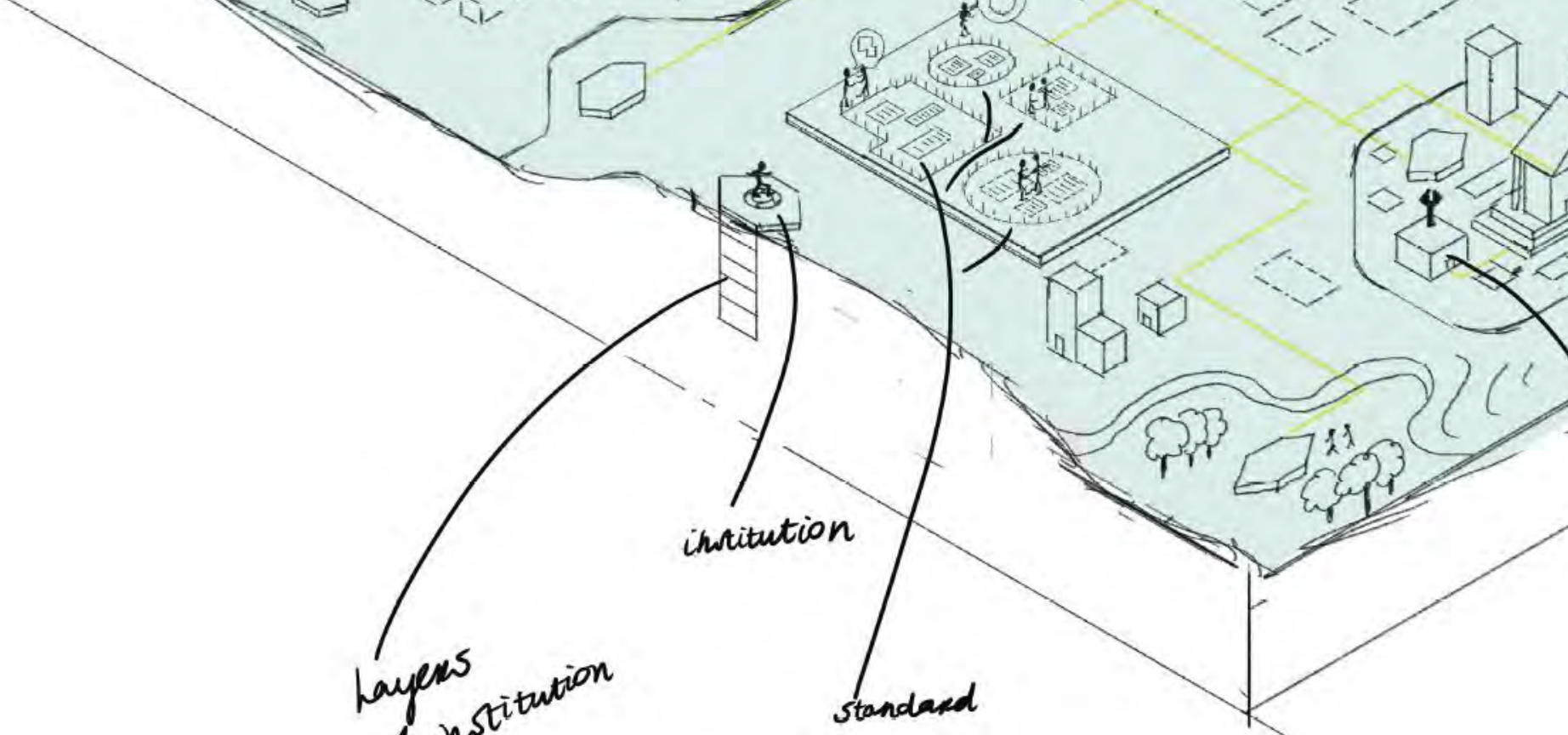


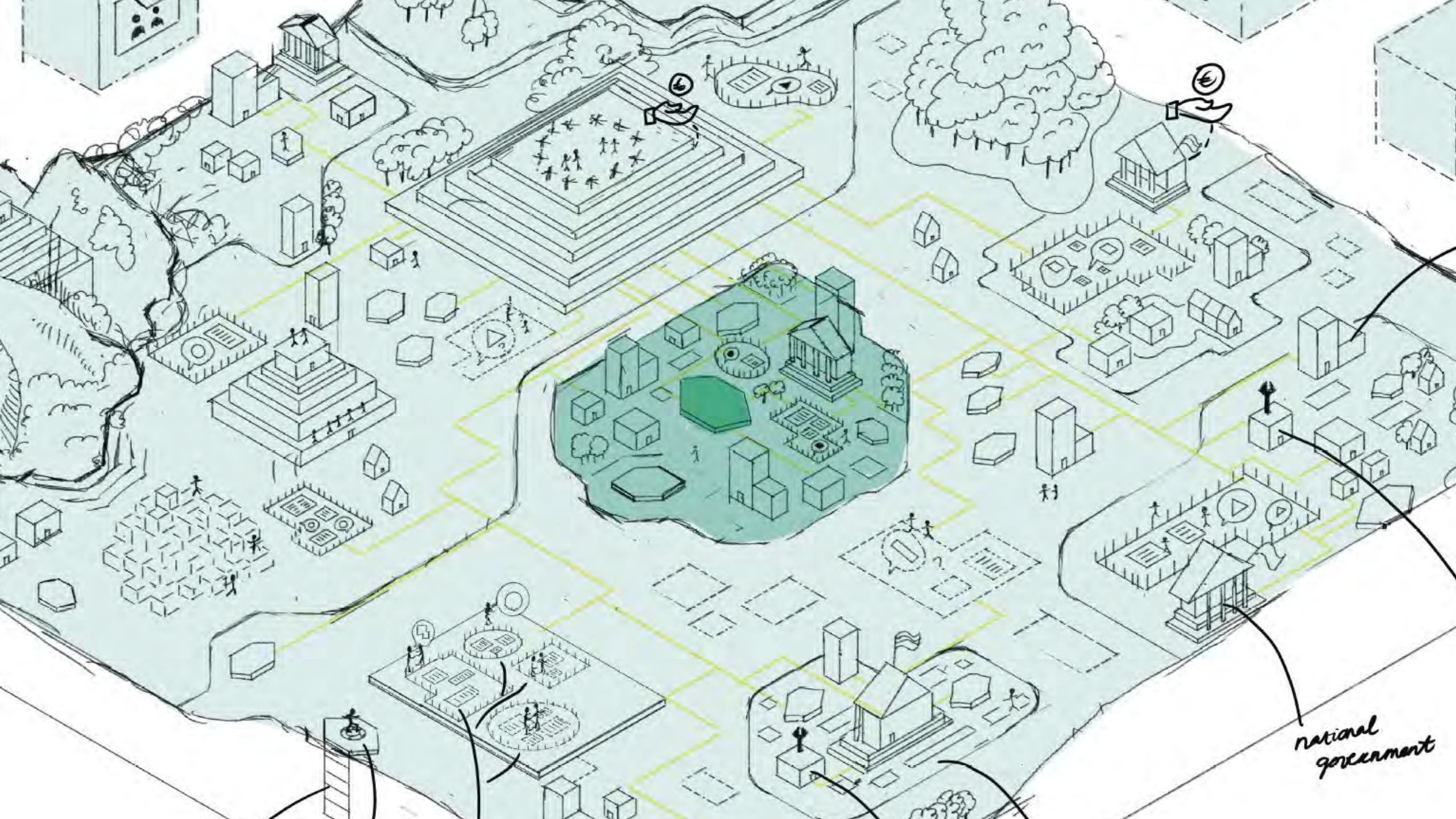
Local
National
International

layers of institution

institution

standard





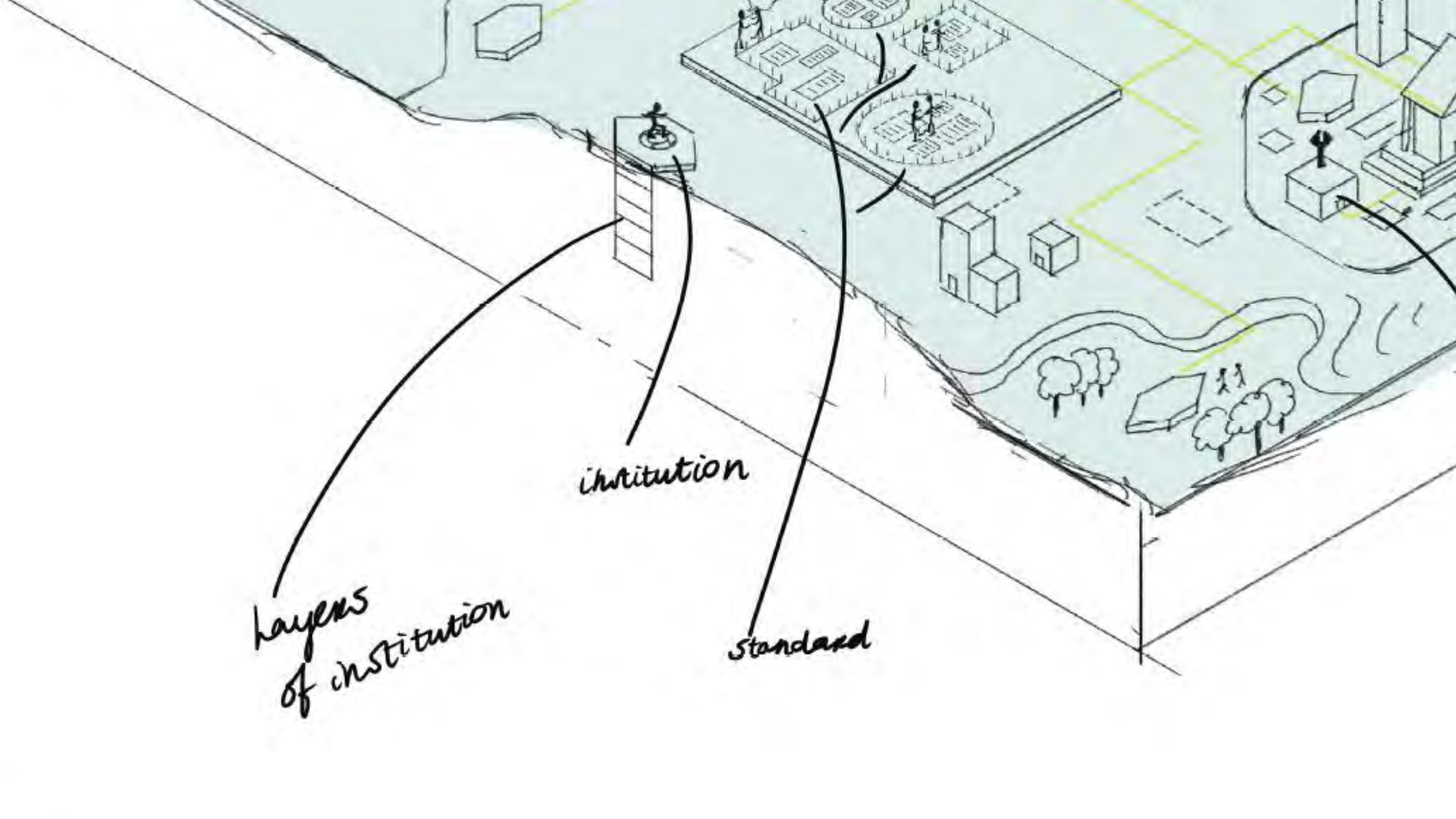
national government

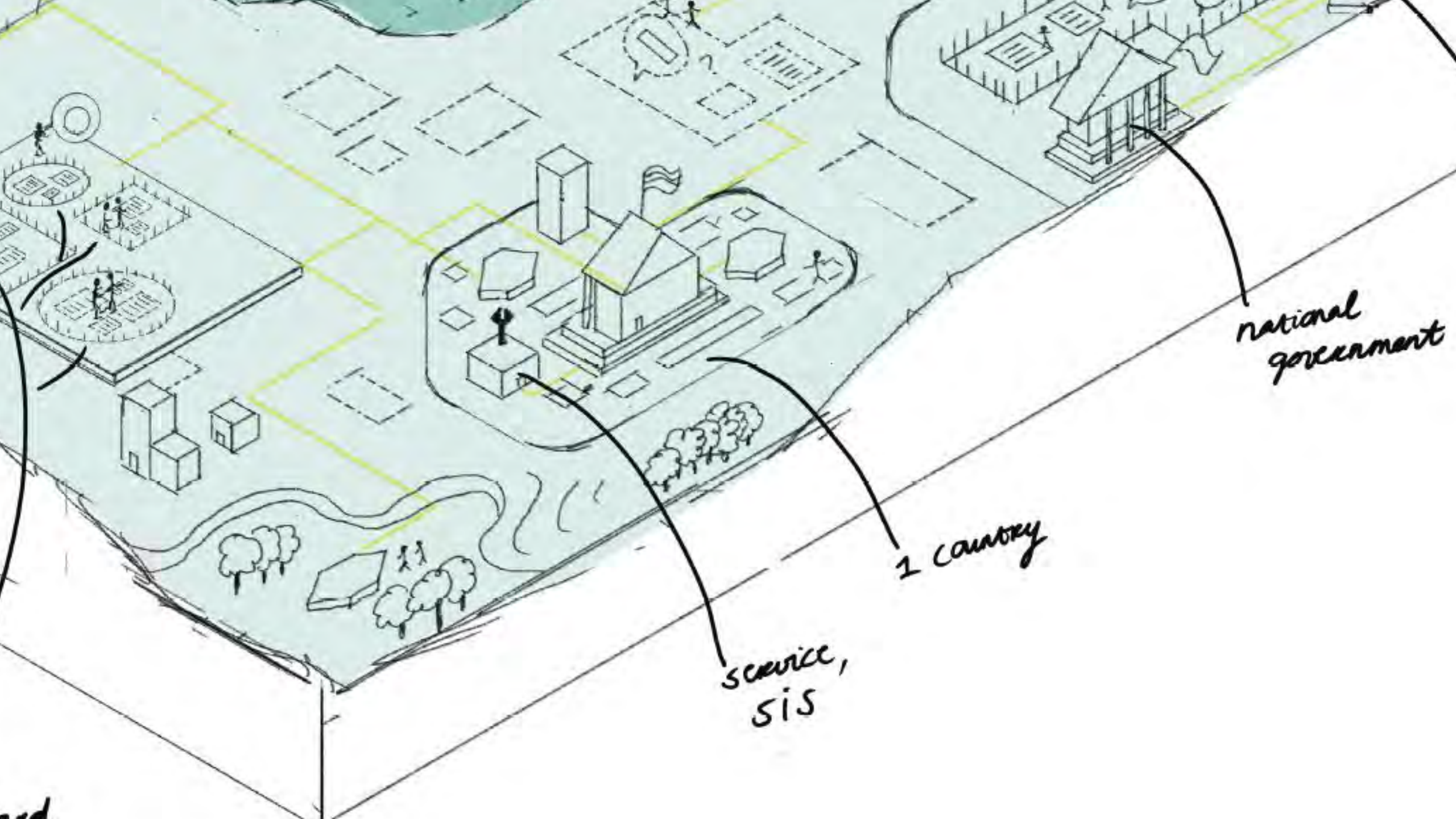


layers
of institution

institution

standard





national government

1 country

service, sis

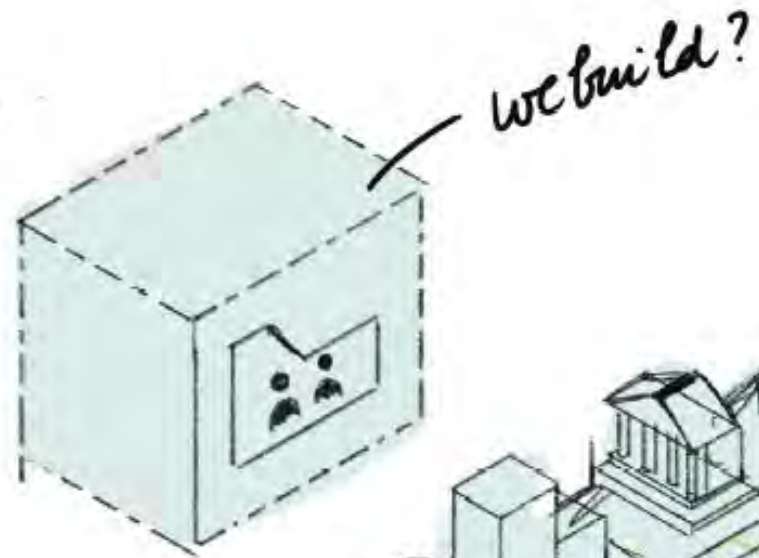


organisation,
such as
Zedtech

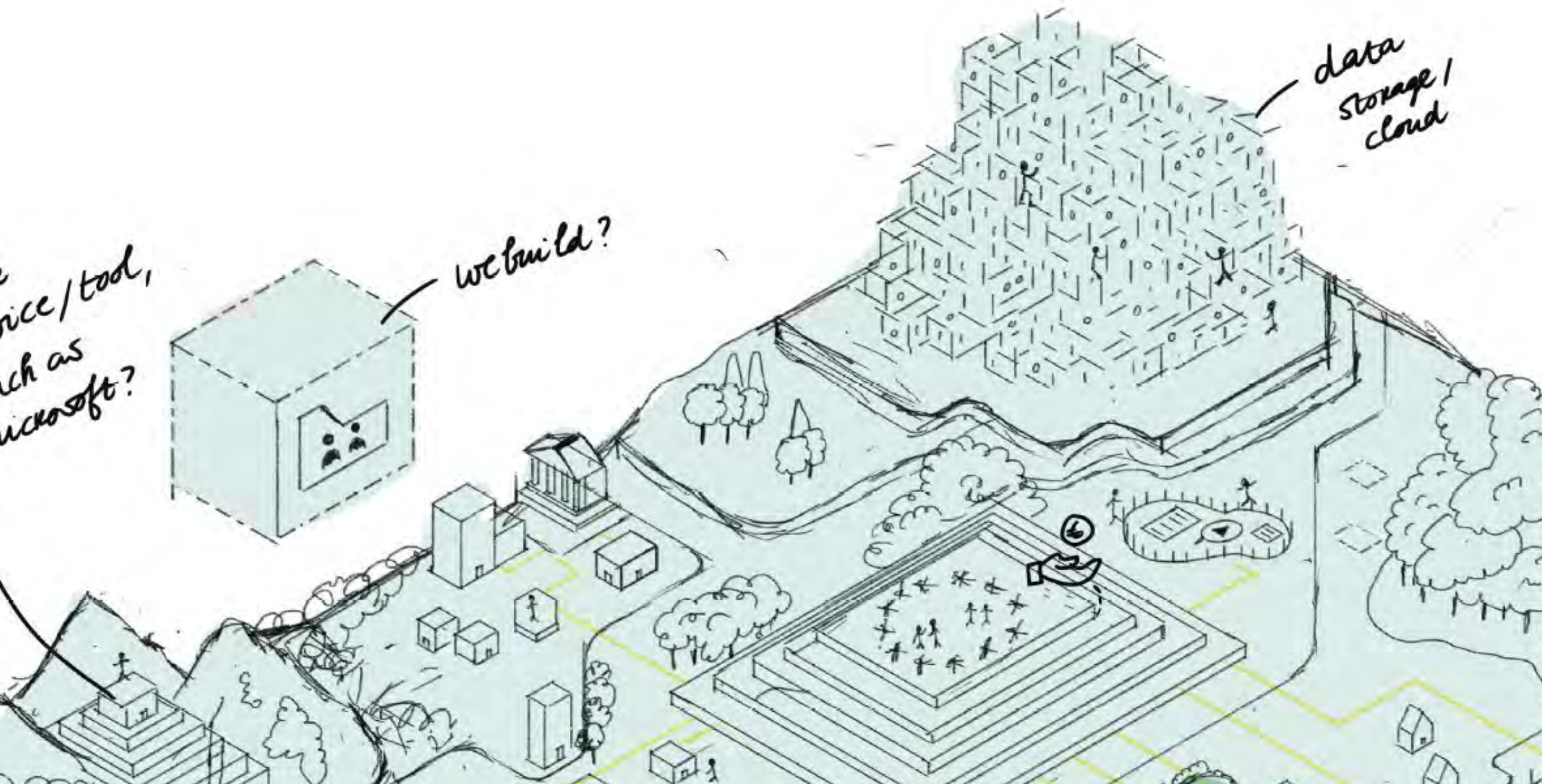
national
government

service, such
as EduXchange

price / tool,
such as
microsoft?

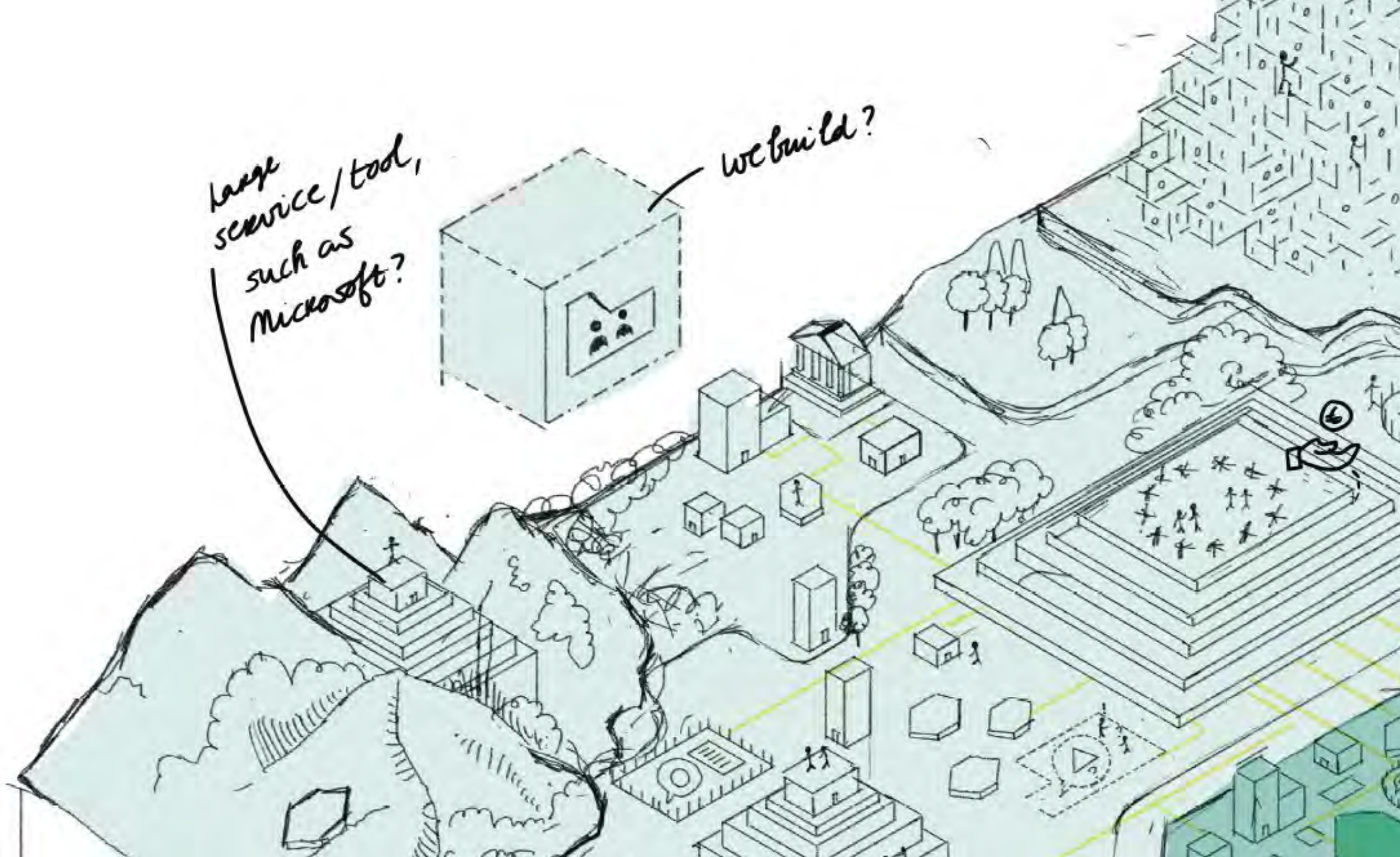


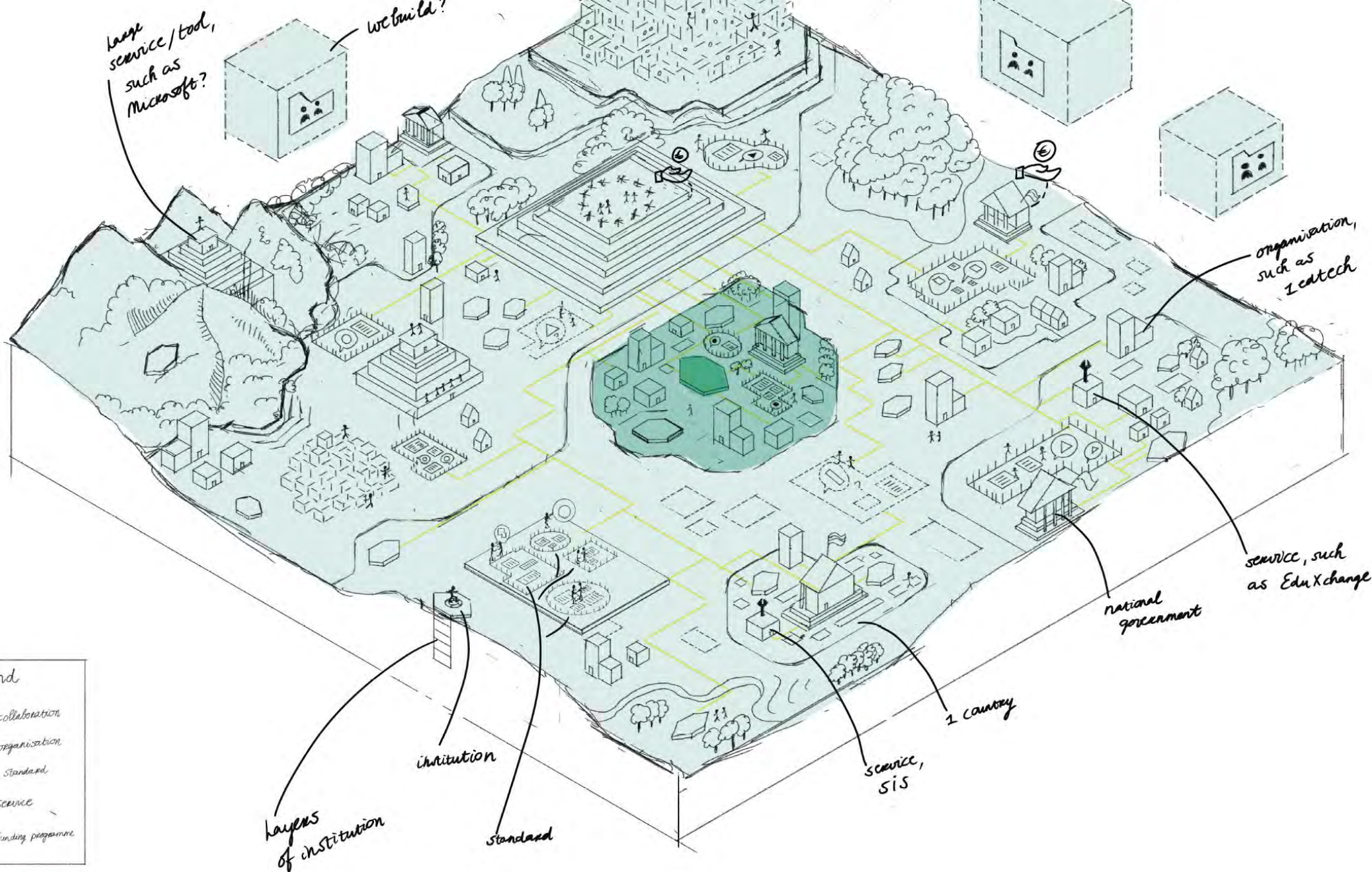
data
storage /
cloud



large
service/tool,
such as
Microsoft?

we build?





keep service/tool, such as Microsoft?

we build?

organisation, such as Zentech

service, such as EduXchange

national government

1 country

science, SIS

standard

institution

layers of institution

Legend

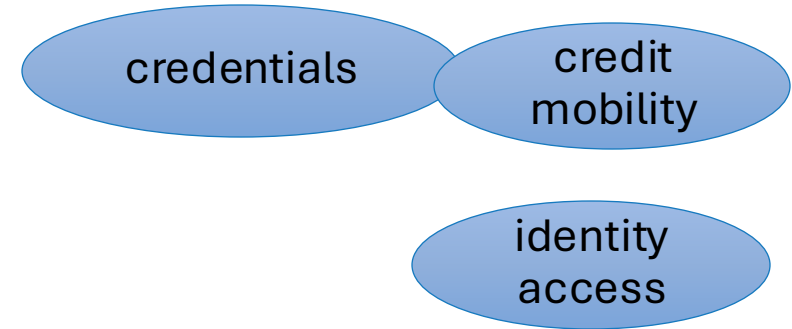
-  collaboration
-  organisation
-  Standard
-  service
-  Funding programme

legislation

Data



Trends and legislation urge the European digital landscape for education to rapidly evolve



- Digital Services Act (DSA, 2024)
 - create a safer and more open digital environment
 - Strengthening the information position of European citizens vs. BigTech
- Student mobility
- Flexibilisation, modularization offering customization to students
- Life Long Learning
- Need for modernization & standardisation of the underlying infrastructure for education

Huge innovation programs across Europe, f.e. Digivisio 2030 in Finland, Npuls (700 mio euro) in The Netherlands; HE interoperability manifesto;

From a pan-European and also a national perspective, huge risks on:

- Lack of interoperability
- Inefficient investments
- Fragmentation
- Doublures
- Reinventing the wheel
- Missed changes to work together



EduXS: an European instrument to steer on interoperability and collaboration

A central information hub all about facilitating and speeding up interoperability in education

Pillars of EduXS:

- Standards, Architecture, Technology and Organisation
- Information is Complete, Relevant, Related and Actual
- Stakeholders sharing, using and improving information

Initiative from SURF (NL), but meant as a 100% European instrument

| A Short History of EduXS

History of EduXS

Both the PoC and the Pilot were successful. Especially the Pilot demonstrated the benefit of a graphical representation of related standards, documents and services.
End of 2024 the MVP1 is ready for promotion to production. The MVP1 was inspired by the pilot.
The MVP1 contains all the essential functionality, although implemented on a basic level.

2021

- During proposal for NPuls lack of good information about standards became apparent
- Initiative: “Mapping EDU Environment”

2022

- Proof of Concept showing ideas of presenting the information

2023

- Pilot with graphical representation of relation between standards, organisations, projects, documents, and services

2024

- Development of the first major release of EduXS as web application

| **Thank you!**

For questions, mail to info@eduxs.eu

If you could solve one interoperability problem tomorrow that would make your life easier, what would it be?

1. Introduce yourself briefly (name, role, organisation)
2. Share your focus for the next two conference days: Who do you want to meet? What do you want to find out?
3. Give each other one concrete tip or suggestion

This afternoon

Masterclass: Using Open Standards to Address Key HE Interoperability Issues Part 1

14:00-15:00

COMM3



Xavi Aracil
Technical Standards Architect
1EdTech Consortium



Joshua McGhee
Director, Program Management
1EdTech Consortium

QualityLink Standards Consultation Board: Part 3

14:00-15:00

COMM4



Tim Couper
Chief Architect
1EdTech Consortium



Colin Tück
Senior Expert on Innovation and Digi...
Knowledge Innovation Centre (KIC)

Tomorrow Morning

Who Shapes Europe's Digital Future in Education?

10:15-10:30

SZL



Evelien Renders

Advisor international education
SURF

10:30 CET

A European Framework to Make Learning Pathways More Seamless

10:30-11:00

SZL



Evelien Renders

Advisor international education
SURF



Anthony F. Camilleri

Senior Partner
Knowledge Innovation Centre (KIC)

Tomorrow After coffee

11:30 CET

Keynote | Collaboration as a Strategic Imperative for Sector Sustainability

11:30-12:00

Auditorium



Heidi Fraser-Krauss
CEO
JISC

12:00 CET

Panel | Digital Sovereignty: Views from the Trenches

12:00-12:30

Auditorium



Øyvind Kvanmo
Head of the Department for Digital S...
Norwegian Directorate for Education ...



Christien Bok
Innovation Manager
SURF



12:30 CET

1EdTech Europe Update

12:30-13:00

Auditorium



Curtiss Barnes
CEO
1EdTech



Gill Ferrell
Executive Director 1EdTech Europe
1EdTech Consortium



Tomorrow Afternoon

14:00 CET

Say Goodbye to Complicated Integrations and Hello to Data Innovation

14:00-14:30

FVH



Mauritz Danielsson
CEO
Ladok



Hans Janssen
Product Manager and Information Se...
SaNS Expertise Center

14:30 CET

Making the Invisible Visible: Visualising Interoperability Standards

14:30-15:15

FVH



Dirma Janse
Graphic designer
SURF