

# Up2University Bridging the gap...

Erik Kikkenborg NORDUnet

Webinar for NRENs, 30 September 2019

## Webinar agenda



- Introduction Erik Kikkenborg
- How NRENs can benefit from Up2U?
- Summary of NREN's educational activities and services survey Gyöngyi Horváth
- ♦ What are the tools in NGDLE? Michal Zimniewicz
- What are the pilots?
- Models of engagement of new NRENs into project activities Raimundas Tuminauskas
- Next actions: How to get engaged? Barbara Tóth
- Questions, Feedback and future contacts







The "Up to University" (Up2U) Project aims to bridge the gap between secondary schools and universities by providing European schools with a **Next Generation Digital Learning Environment** (NGDLE) that helps high school teachers equip their students with the knowledge, skills and attitudes they will need to succeed at university and beyond.

### **Up2U Consortium**

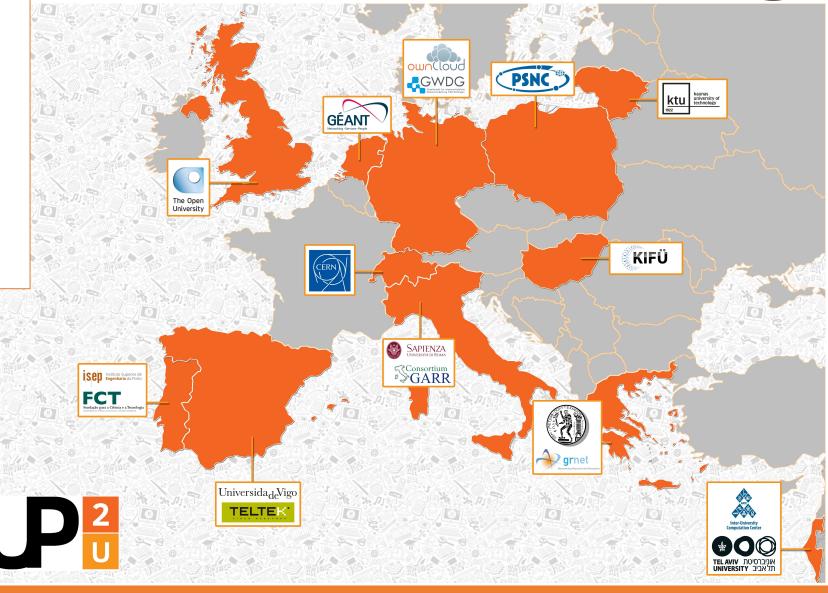
#### 18 partners

- Universities
- NRENs
- Infrastructure providers
- Commercials

#### 12 countries

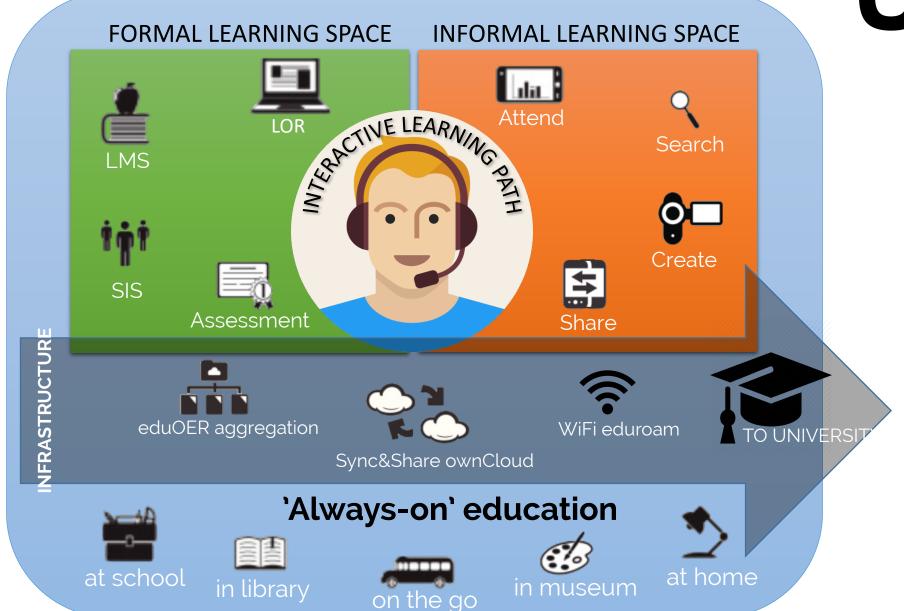
- EU
- Switzerland
- Israel

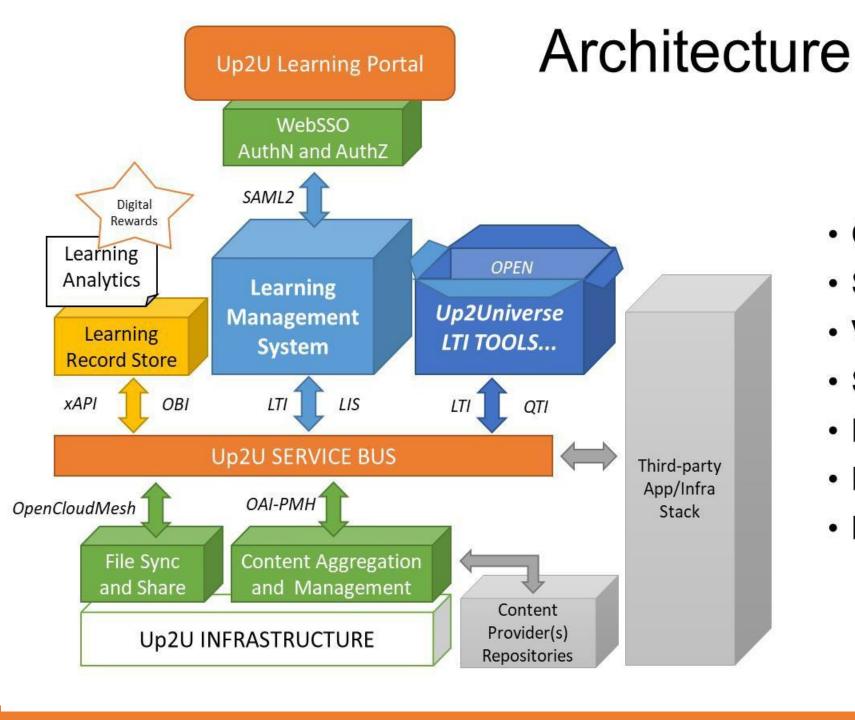




### Up2U ECOSYSTEM







- Open Technology
- Standard APIs
- Value-add
- Scalable
- Modular
- Portable (Docker images)
- INTEROPERABILITY





- Critical Thinking & Problem Solving
- Communication & Collaboration
- Information, Media & Technology Literacy
- Self-Direction
- Learning to learn

# Up2U teaching models, methodologies and tools



- Project Based Learning (*Trello, wikis*)
- Place-Based Learning Education (*Treasure hunt*)
- ◆Experiential Learning (*CernBox*)
- Flipped Classroom (WebRTC, SeLCont, eduOER)
- ◆Scenario-based learning (*H5P*)

# What users can do with Up2U



- An authenticated course creation in Up2U platform
  - Multi-disciplinary courses
- Recording a lecture
- Uploading a lecture & making assignments
- Interactive video creation and exercises
- Creation, storage and usage of open educational content in Up2U repository
- Virtual room communication





- Three main Phases for the Up2U Professional Development
  - Phase One Introduction to ecosystem
  - Phase Two Hands on Experience and students involvement
  - Phase Three "Train the Trainer"
- Nine pilot countries in Up2U Professional Development program
  - Combination of technology and pedagogy
  - Combination of skills, educational needs, technological tools

# Added value of Up2U



### Up2U for NRENs

- You can enrich your service portfolio and provide a learning platform for your teaching and learning community!
- Easy login with SSO! Trusted solution.
- Our solution is GDPR friendly by design.
- Have it your way:
  - Central Up2U instance
  - National on-prem instance
- Internet connection is the only prerequisite of this platform.

# Added value of Up2U



### Up2U for universities

- Up2U drives up your enrolments with students ready for higher education.
- Up2U reduces the dropout rate due to unexpected skills and technical requirements.

### Up2U for collaborators (companies, content providers)

- Up2U gives you access to schools and provide a trusted and secure delivery vehicle for your content.
- Up2U gives you community feedback on your content and services via advanced learning analytics.
- Up2U provides an international network of users.

## Get involved!



- 1. Come and **experiment** with the Up2U NGDLE in the cloud
  - Distributed private cloud installation at PSNC-Poland, GWDG-Germany and GRNET-Greece.
- 2. Integrate components and functionalities into your LMS
  - Github & Dockerhub images, automated deployment and configuration, documentation and support
- 3. Take the entire open-source platform and deploy it on-prem or in your preferred cloud
  - Integrated software stack in Docker containers



# NREN's educational technologies

*Gyöngyi Horváth* GÉANT





# NRENs educational activities and services survey



### **OBJECTIVES**

- Create an overview of NRENs educational activities and services
- Identify common goals to work together
- Identify common challenges
- Create a global vision and strategy
- Put in place a working group to drive these efforts

# Educational services & activities of NRENs



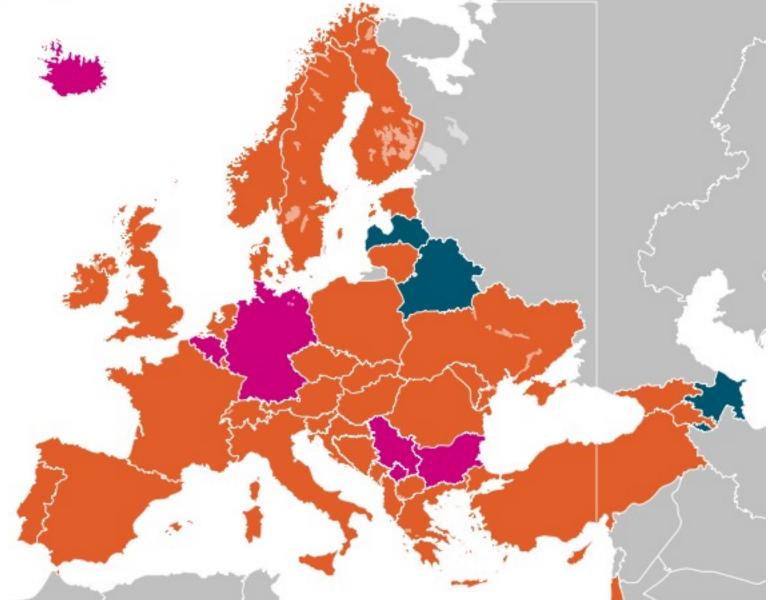
Additional activities and services beyond connectivity (fiber, network, wifi) to supporting educational institutions with their technological evolution: innovation challenges and opportunities.

### Targeting:

- Teaching & learning communities
- Educational institutions

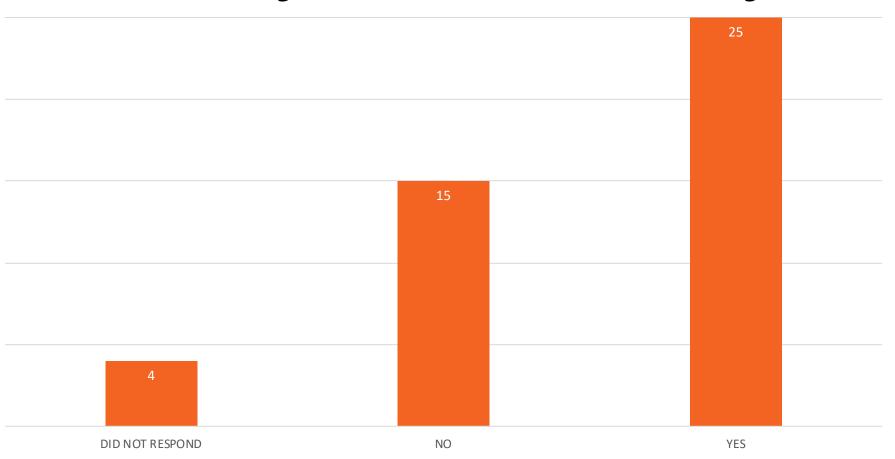
# NREN provide educational services





# NRENs provide educational services beyond connectivity





## **Educational services**



Digital Learning Environment

Logistical Support for education Online, blended and remote delivery of education in home NREN country

Providing e-Content Learning Analytics

Educational staff training

Open badges, digital credentialling

Transnational education

Inhouse built tools by your NREN for digital learning

Digital assessment and testing

## Educational service levels



Initiative level Informal joint exploration of an idea by an expert group. In most cases there is some investment to explore this initiative further, supporting the NREN's participation in this initiative.

Project level

Formal joint follow up of an initiative with a project owner and a budget.

Service level

An integrated service implemented by the NREN.

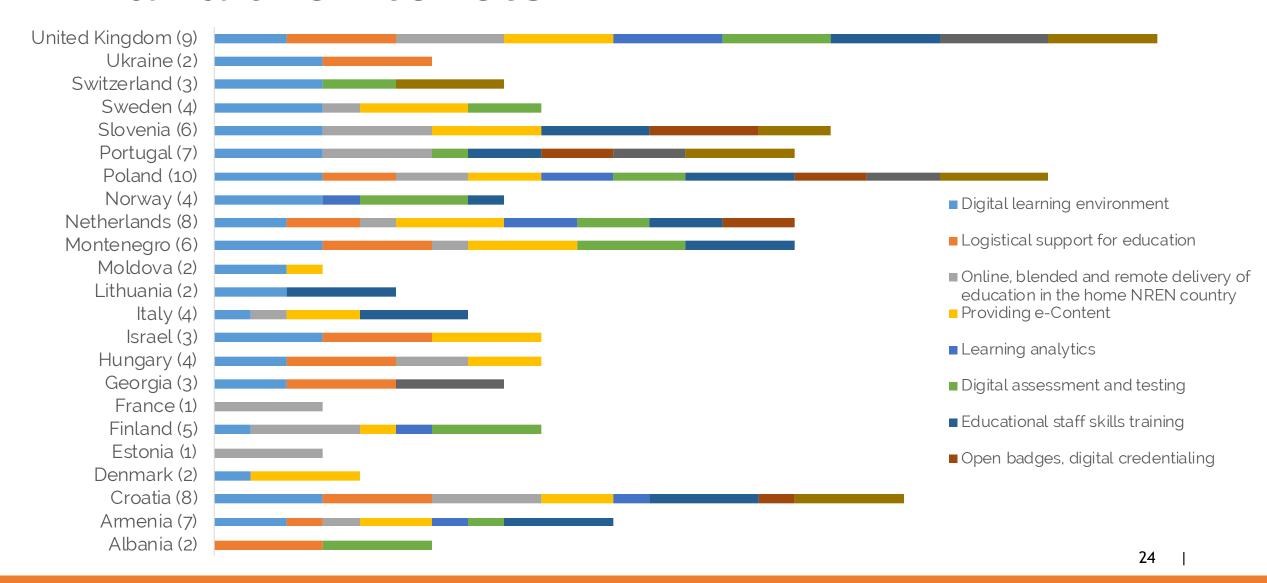
	Digital learning environment	Logistical support for education	Online, blended and remote delivery of education in the home NREN country	Providing e- Content	Learning analytics	Digital assessment and testing	Educational staff skills training	Open badges, digital credentialing	Transnational education (delivery of your national education overseas)	Inhouse built tools by your NREN for digital learning
Albania										
Armenia										
Austria										
Azerbaijan										
Belarus										
Belgium										
Bulgaria Croatia										
Cyprus										
Czech Republic										
Denmark										
Estonia										
Finland										
France										
Georgia										
Germany										
Greece										
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Iceland										
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Italy										
Latvia										
Lithuania Luxembourg										
Macedonia										
Malta										
Moldova										
Montenegro										
Netherlands										
Norway										
Poland										
Portugal										
Romania										
Serbia										
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Slovenia										
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Switzerland										
Turkey										
Ukraine										
United Kingdom Nordics										
Noraics										

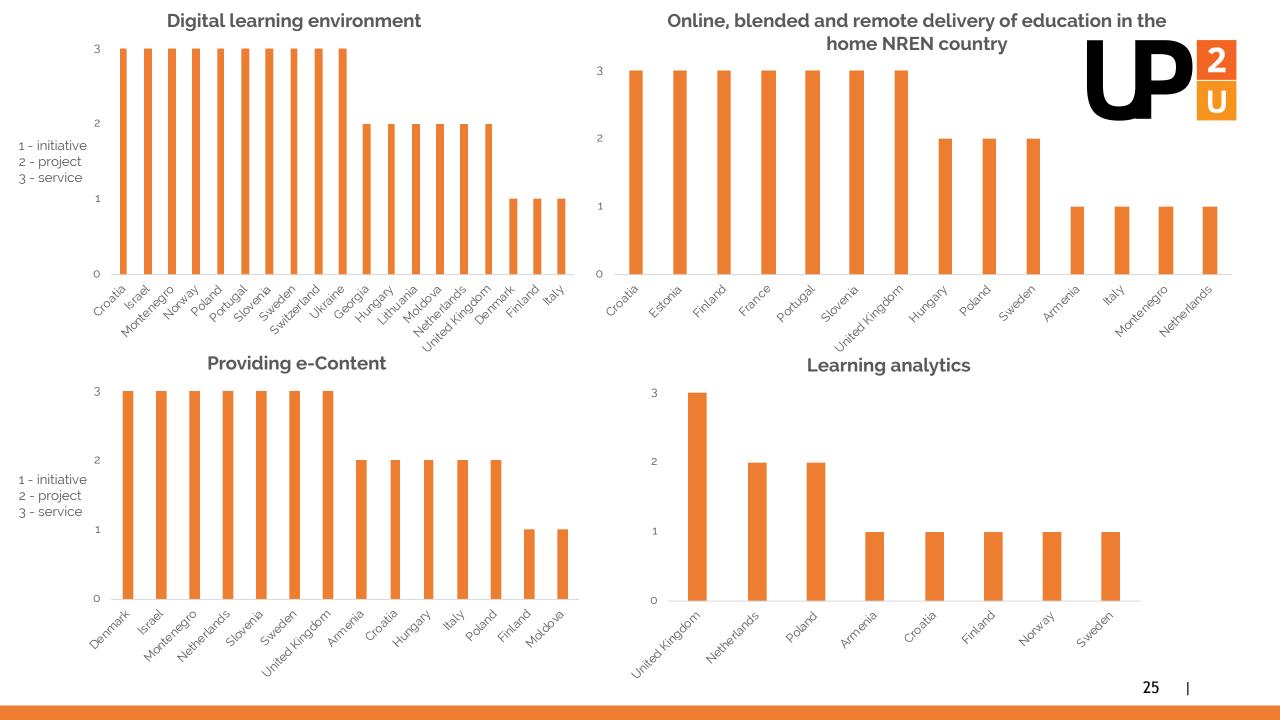


did not respond
Do not provide
N/A
No - Out of scope
No - But interested
Yes - Initiative level
Yes - Project level
Yes - Service level

# Educational services per NREN and their levels











The Task Force aims to establish collaborations across the education sector on commonly identified topic areas, providing a coordinated approach to improve NREN educational services and activities.

## You want to get more involved?



Join us **4-5 November 2019** at the next NREN educational technologies workshop in Budapest, Hungary!

Register here:

https://eventr.geant.org/events/3146



# **Up2U NGDLE and Pilots?**

Michal Zimniewicz

PSNC, Poland

## Up2U Application Toolbox Next Generation Digital Learning Environment



Learning Management System







Content









Collaborative Editing and Doc Sharing





Real-Time Interactions



Recording & Publishing





Learning Analytics

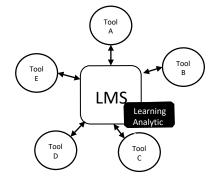


Open Badges

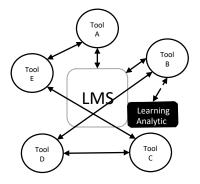


#### ...to an Open Garden

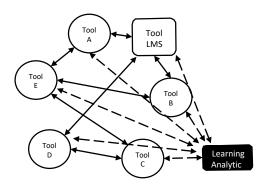




LMS-based architecture



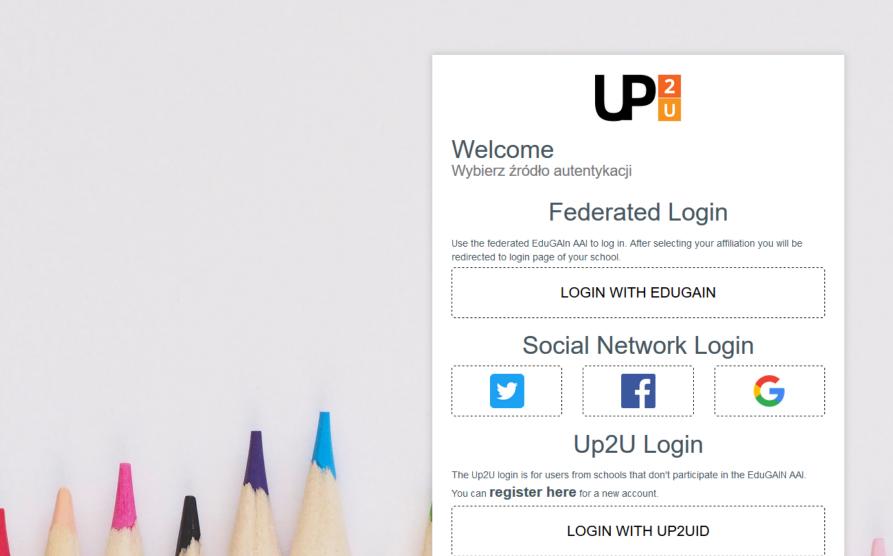
Transitional architecture



**NGDLE** architecture

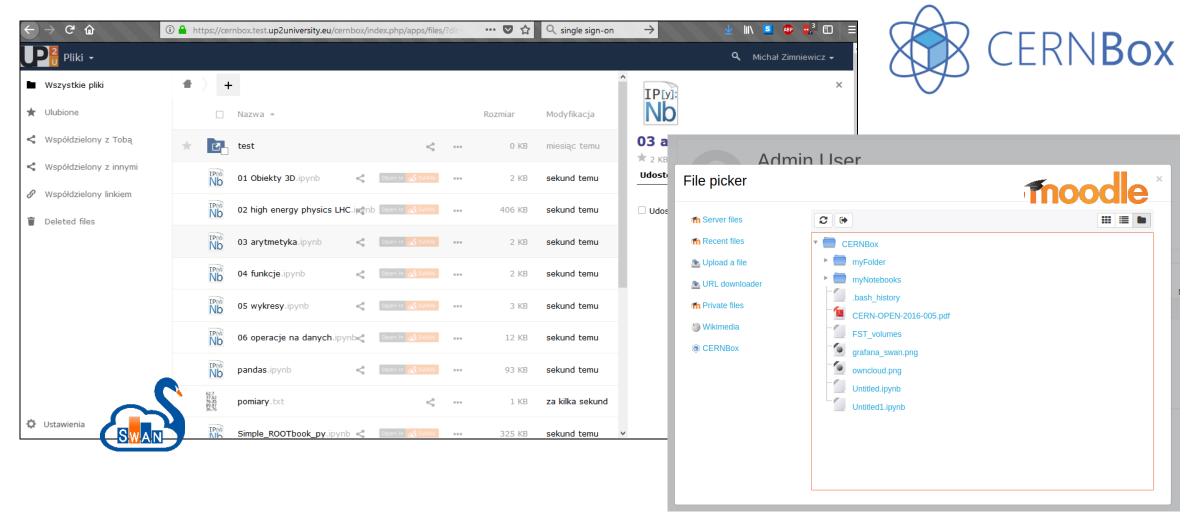


# Single Sign-On



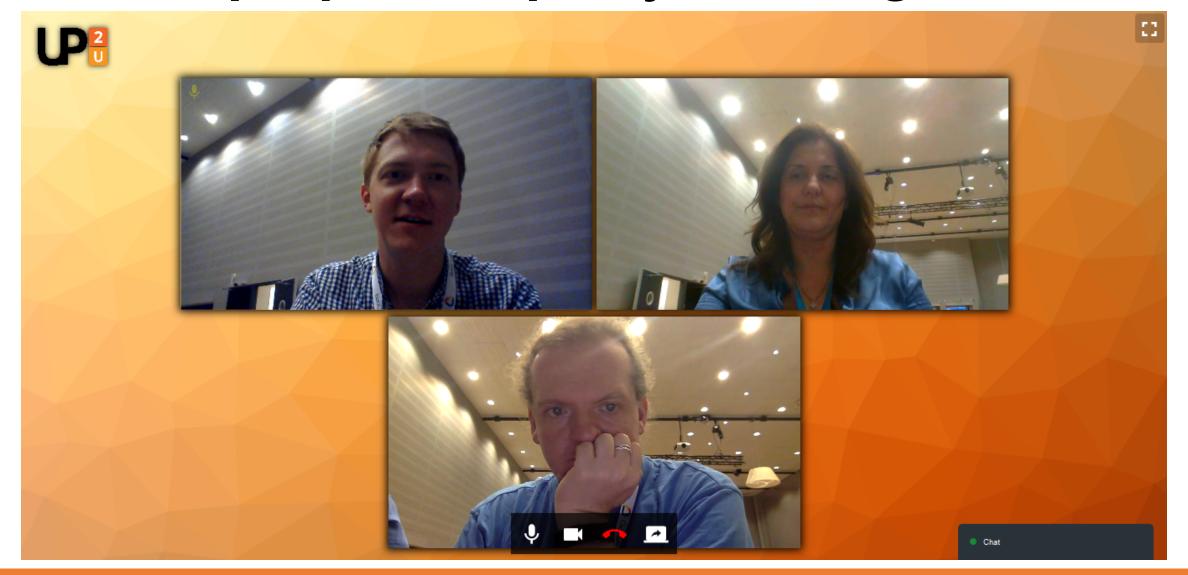


## **CERNBox – File Sync&Share**



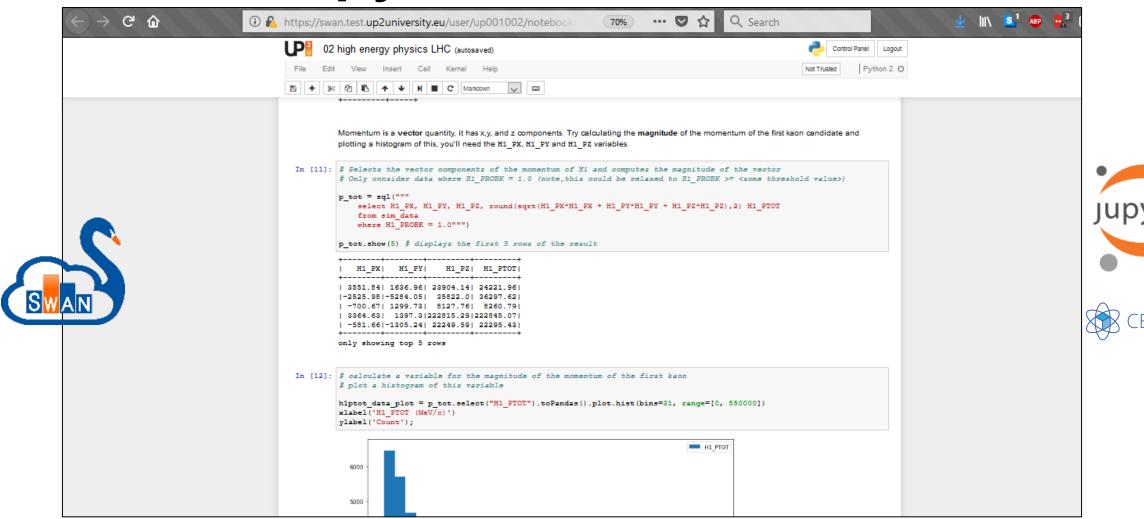


# Knockplop, Multiparty Meeting





## **SWAN – Jupyter Notebooks**



# D<sub>U</sub>

## H5P - Interactive quizzes and assignments



#### Accordion

Create vertically stacked expandable items



#### Agamotto

Create a sequence of images that gradually



#### Arithmetic Quiz

Create time-based arithmetic quizzes



#### **Audio Recorder**

Create an audio recording



#### Chart

Quickly generate bar and pie charts



#### Collage

Create a collage of multiple images



#### Column

Column layout for H5P Content



#### **Course Presentation**

Create a presentation with interactive slides



#### **Dialog Cards**

Create text-based turning cards

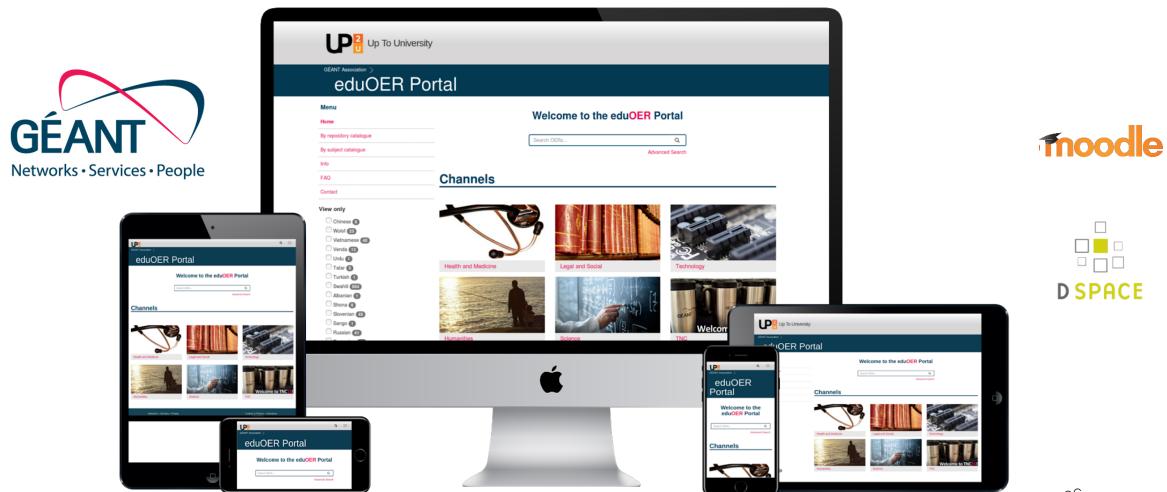


#### **Documentation Tool**

Create a form wizard with text export

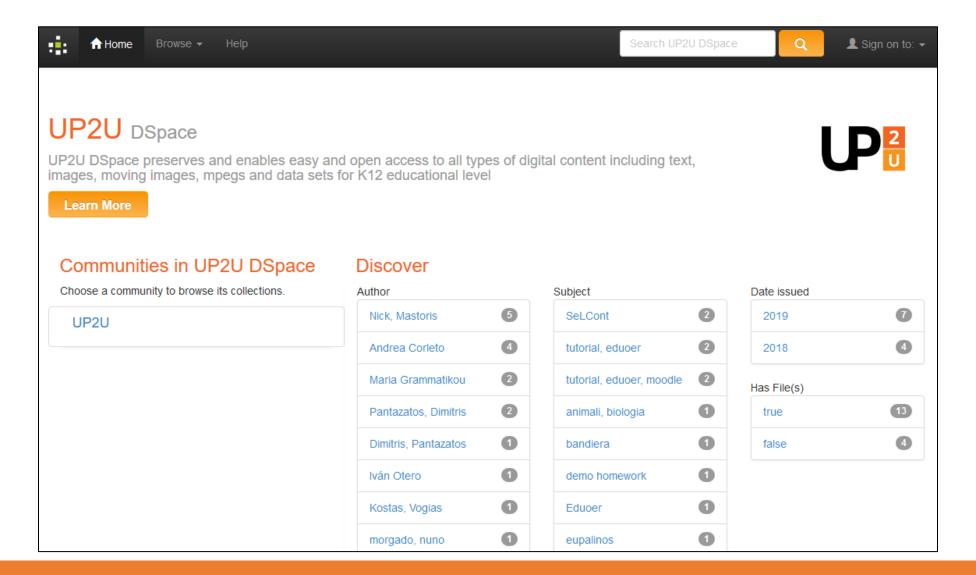


## EduOER - Content across multiple repositories



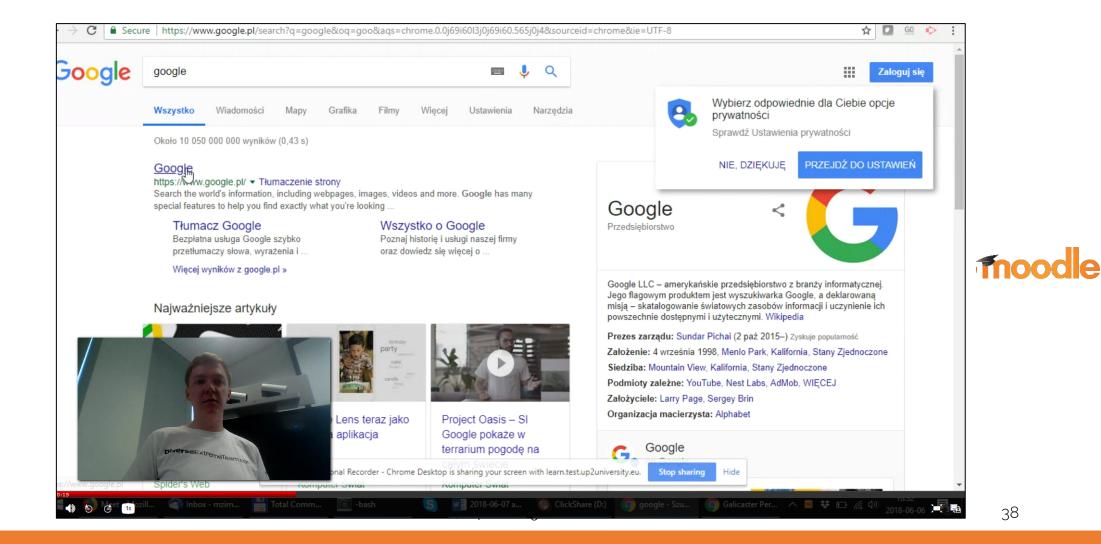


## **DSpace - Share and reuse OER**





#### Poddium – Personal Video Recorder



## **SelCont – Online Synchronised Lectures**

#### **Demo Lecture**

This is a demo lecture.

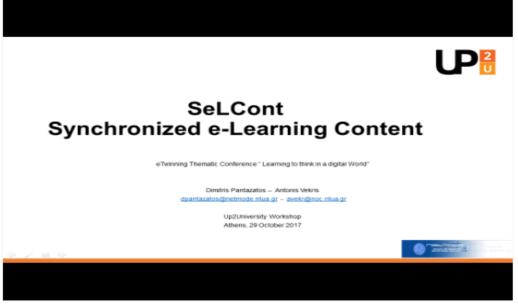








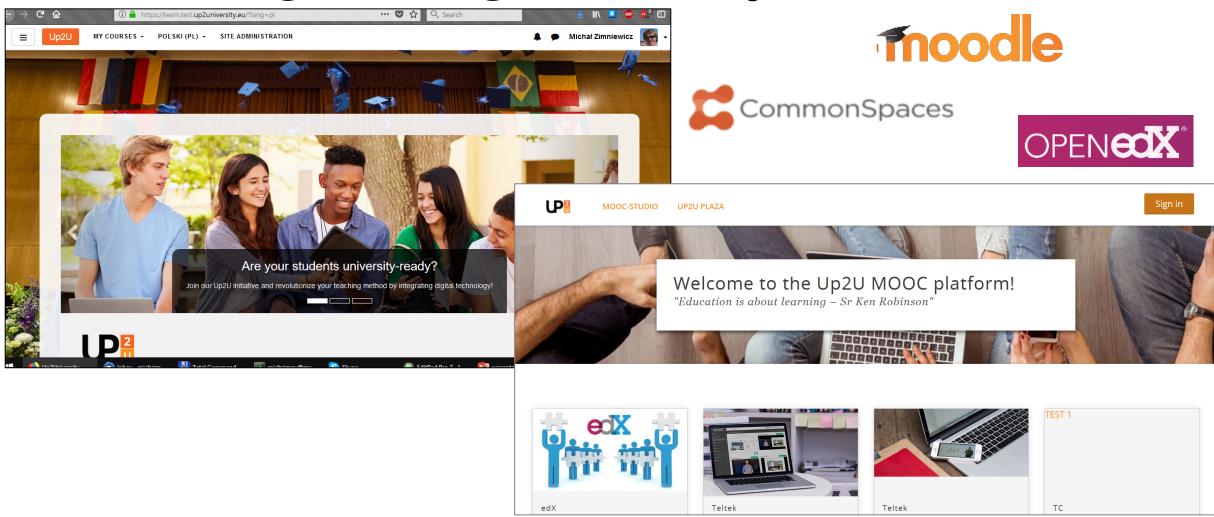




Antonis Vekris
E-Twinning Up2University Workshop
Διαφάνειες



# Learning Management Systems



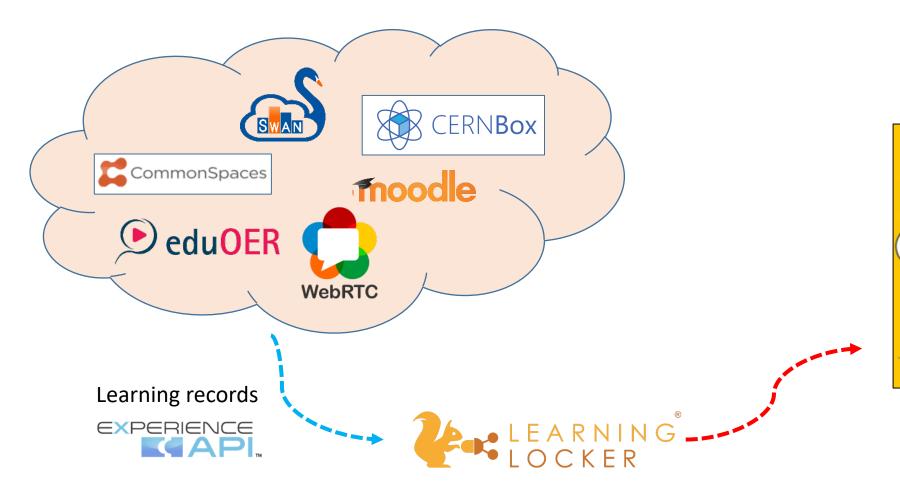
# **Learning Analytics**





# **Learning Analytics**

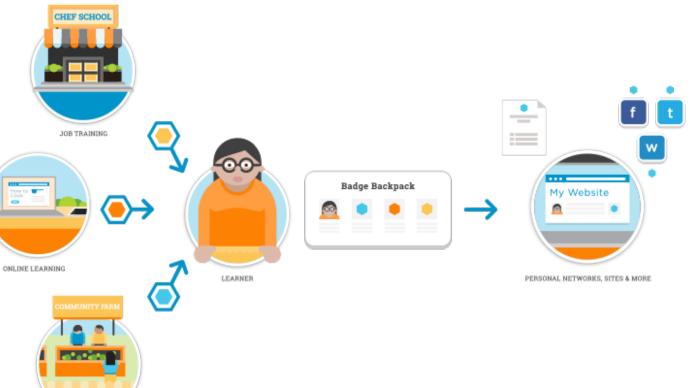










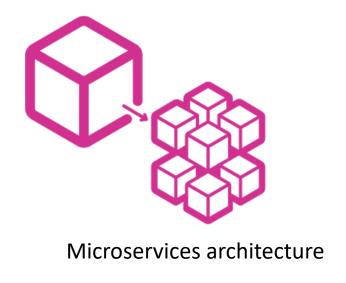


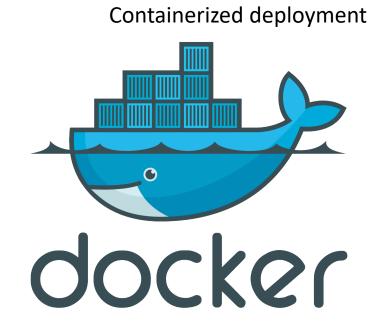


VOLUNTEER PROGRAM

#### **Architecture - Containers**



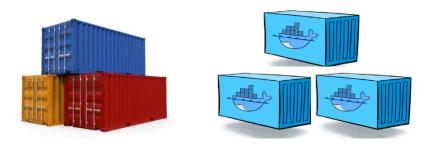




#### **Architecture - Orchestration**



**Containers** 

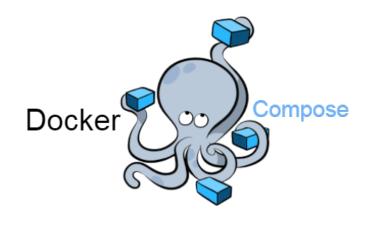


Orchestration

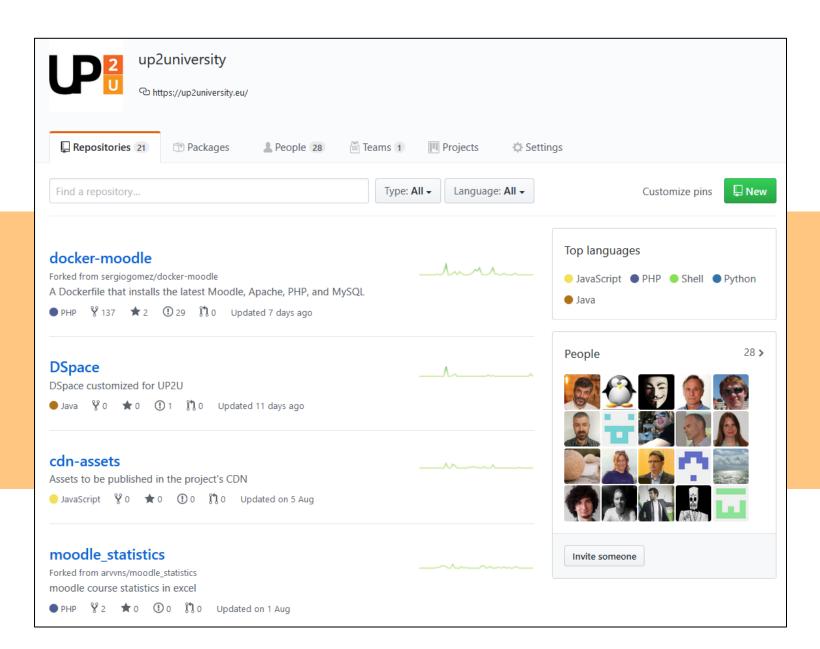


Servers













GitHub.com/up2university

#### Pilot - Definition



#### Students using the Up2U NGDLE

- Students to practice their key competences
- The Up2U project to improve our services

- Teacher training, Continuous Professional Development (CPD)
- Official certification in some countries
- "Soft" CPD
- Training materials for self-start up2university.eu/tutorials/





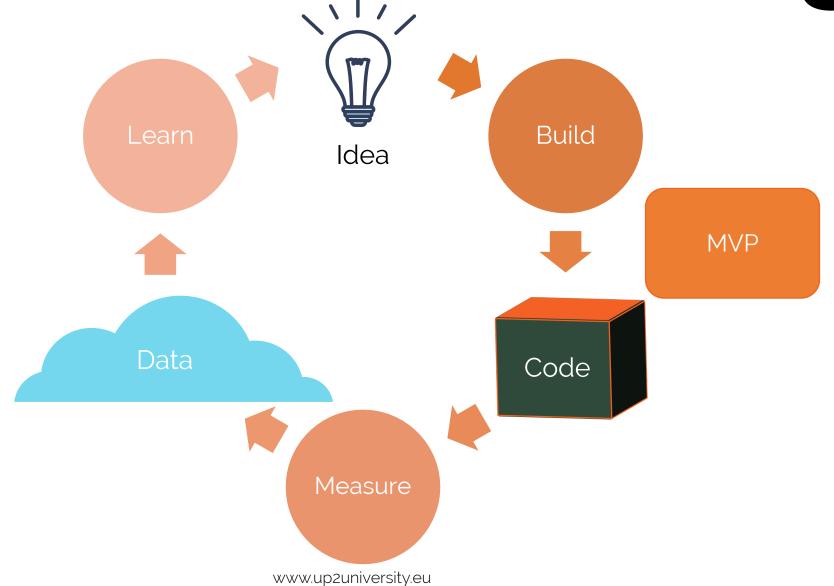


#### Pilots - Current status

Country	Teacher trainings		Pilots	
	Schools	Teachers	Schools	Students
Greece	10	80	5	50
Hungary	8	66	3	42
Italy	79	100	6	72
Lithuania	185	341	133	15.000
Poland	26	47	11	300
Portugal	7	50	1	20
Spain	6	17	1	100

#### Minimum Viable Product







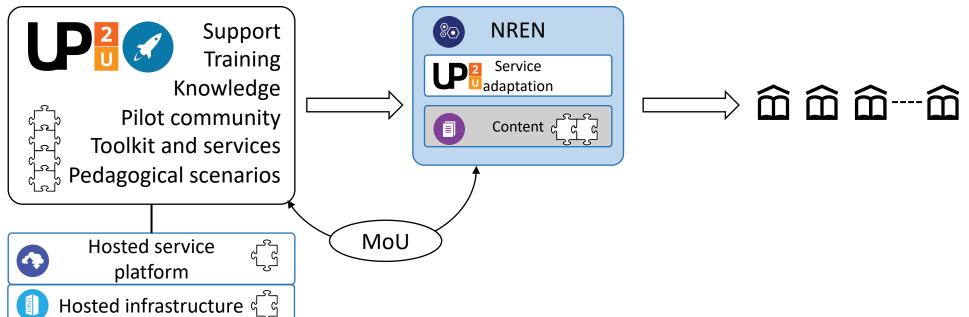
# **Engagement of NRENs**

Raimundas Tuminauskas PSNC, Poland

# **UP2U pilot for NRENS**



- Open for any interested NREN
- Free until the end of the project
- Based on the fully hosted solution, independent possible
- Limited scalability



#### Pilot how to?



1. Contact the Up2U team

#### For Pilot:



- Contact point
- Motivation
- Potential No. of schools and students
- Requirements for training and support

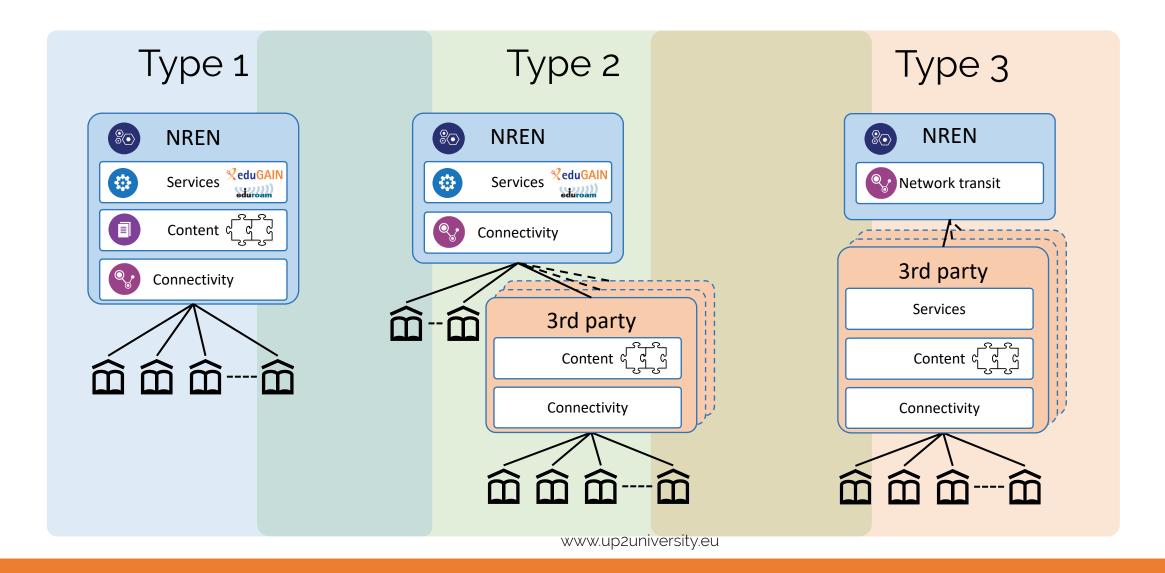
### For production:



- Contact point
- Desired scalability



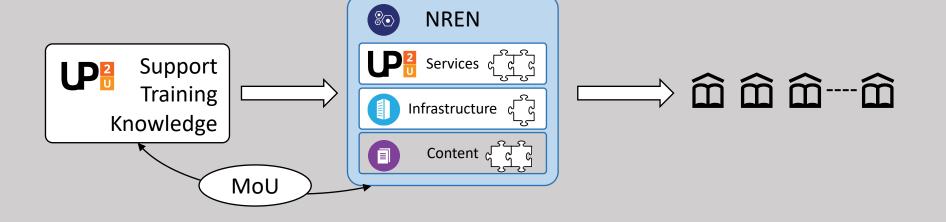




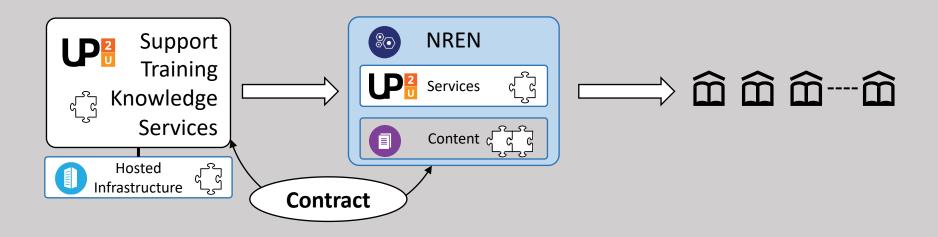


# NREN engagement scenarios

Service provider

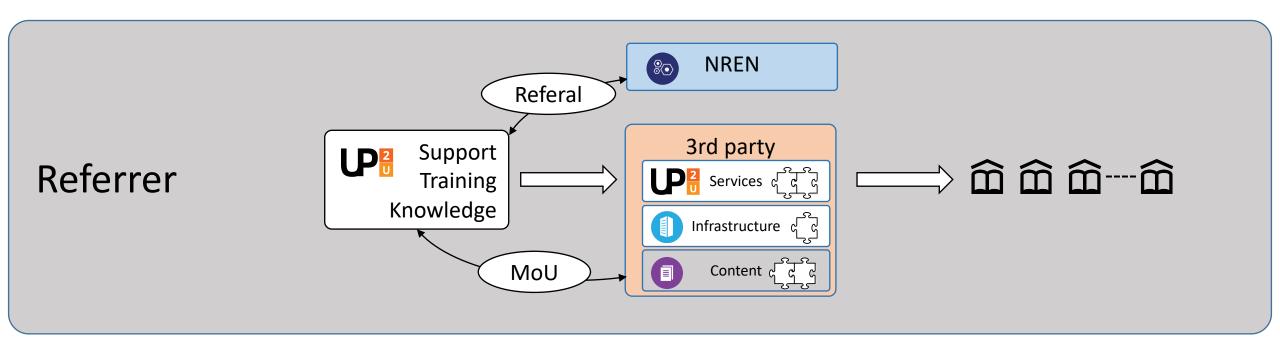


Integrator





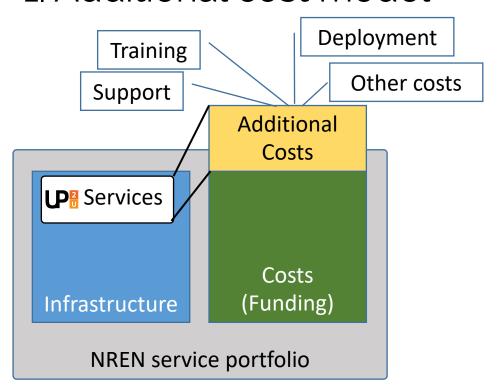
# NREN engagement scenarios



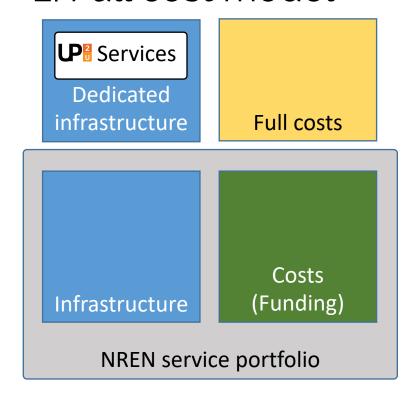




1. Additional cost model



2. Full cost model





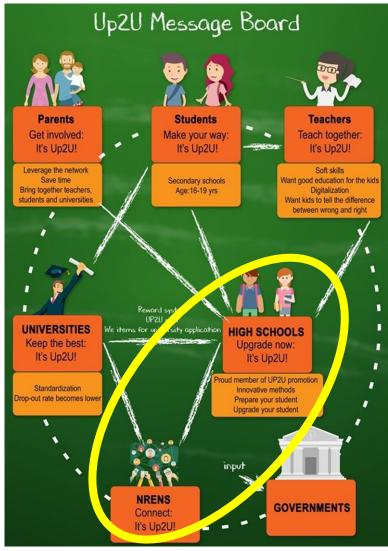
# How to get engaged?

*Barbara Tóth* KIFÜ, Hungary

# Goal: get engaged!







#### What worked for us so far?



- ◆ Top-down approach
  - Approach schools via local/central governments.
  - Explain them why this solution would be useful in their classrooms.





- Bottom up approach:
  - Reach out to schools, principals, teachers
  - Organize local workshops/conferences /training.
  - Accredited trainings are appreciated!

## How can we help?





- General Flyer
- IT Security Flyers
- ◆ Roll-up
- Promotional video
- Poster (general)
- Poster (NREN focus)
- Introductory slides to the project
- All these materials are accessible via the wiki page of the webinar!





The primary platform we use is the project website:

#### www.up2university.eu

Under the <u>"Contact us"</u> we included the national coordiantors, so interested parties can put a face next to a contact. Here, we also indicated the pilot schools on a map.

We are would be happy to inloude contacts of NRENs who are not part of the consortium.





Up2U is present on multiple social media platforms. We use **#Up2U** and **#Up2Universe** hashtags.

Please follow us on:













# THANK YOU FOR YOUR ATTENTION! QUESTIONS?

contact@lists.up2university.eu

#up2universe



# We'd like to get some feedback!

Please go to www.menti.com!



