

Up2U

**The European Project to Close the Gap
between Secondary and Higher Education**

Peter Szegedi - GÉANT

In a nutshell

- EC Call ICT-22-2016: Technologies for Learning and Skills
 - easy creation, mix and re-use of content, services, applications and contextual data for interactive learning processes
 - environments for new learning experiences and experimentation
 - educational support services
- The key objective of our project is to bridge the gap between secondary schools and higher education by better integrating formal and informal learning scenarios and adapting both the technology and the methodology that students will most likely be facing in universities.
- Innovation Action getting 5ME funding from the EC for 3 years

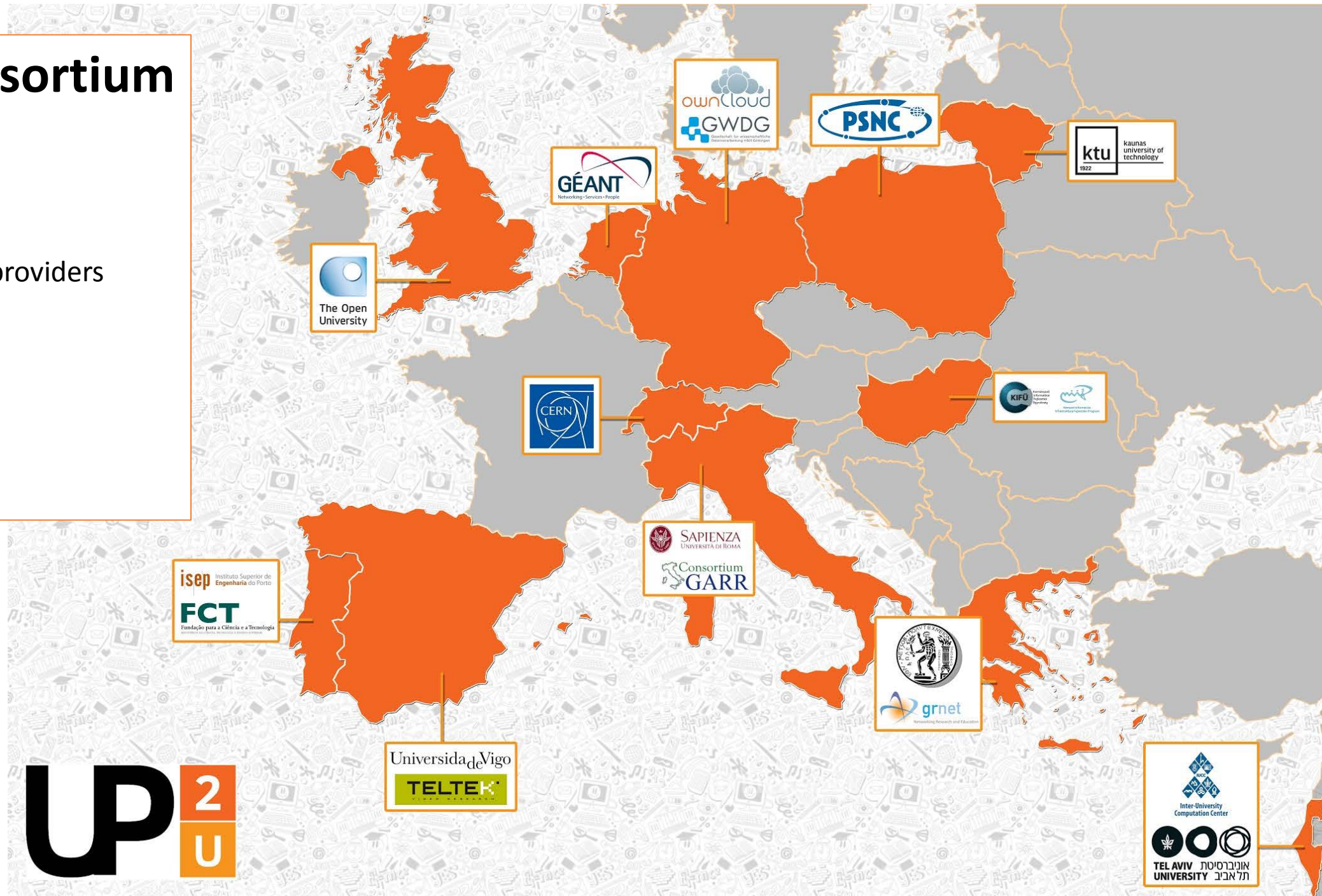
Up2U Consortium

18 partners

- Universities
- NRENs
- Infrastructure providers
- Commercials

12 countries

- EU
- Switzerland
- Israel

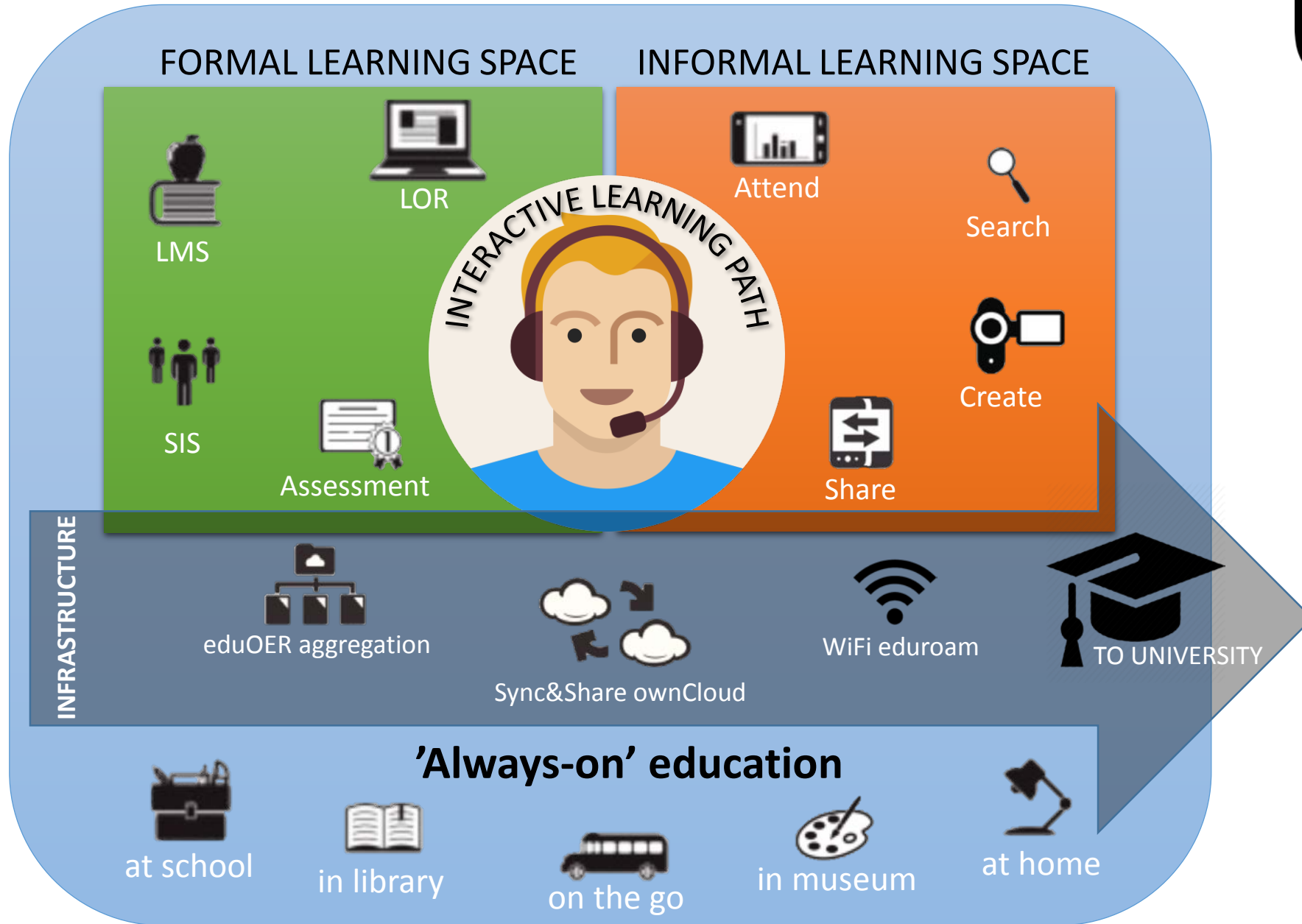


Next Generation Schooling

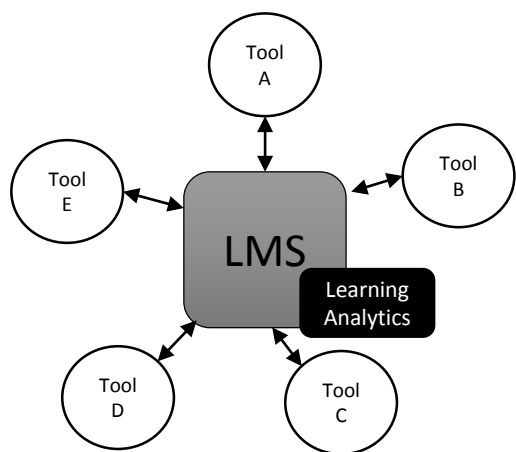
1. Personalized
 2. Strong teacher support
 3. Close community links
 4. Broad and diverse curriculum
 5. Outside and inside school involvement
- Create the right conditions and children will learn!



Up2U ECOSYSTEM

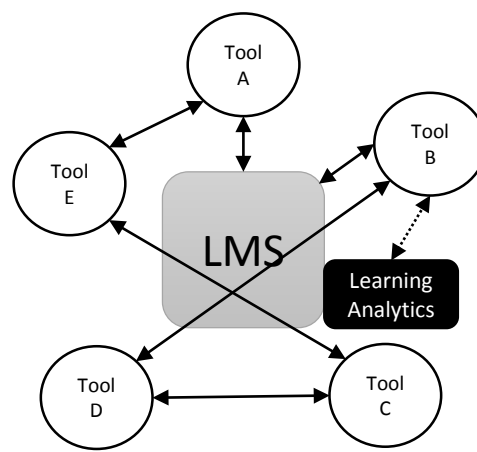


From LMS to NGDLE concept



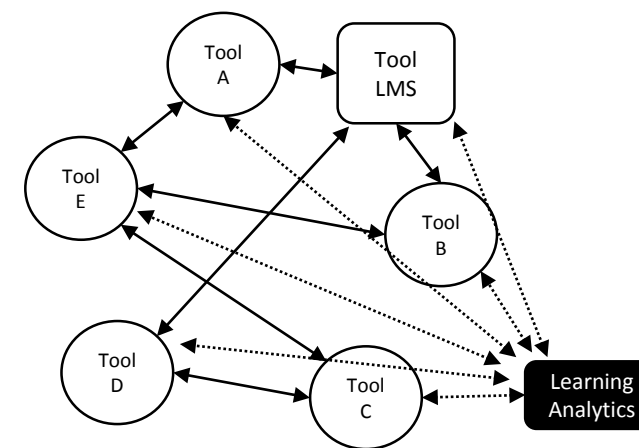
LMS-based architecture

Tools are integrated into the LMS via specific plug-ins or lately LTI. Learning Analytics is happening inside the LMS.



Transitional architecture

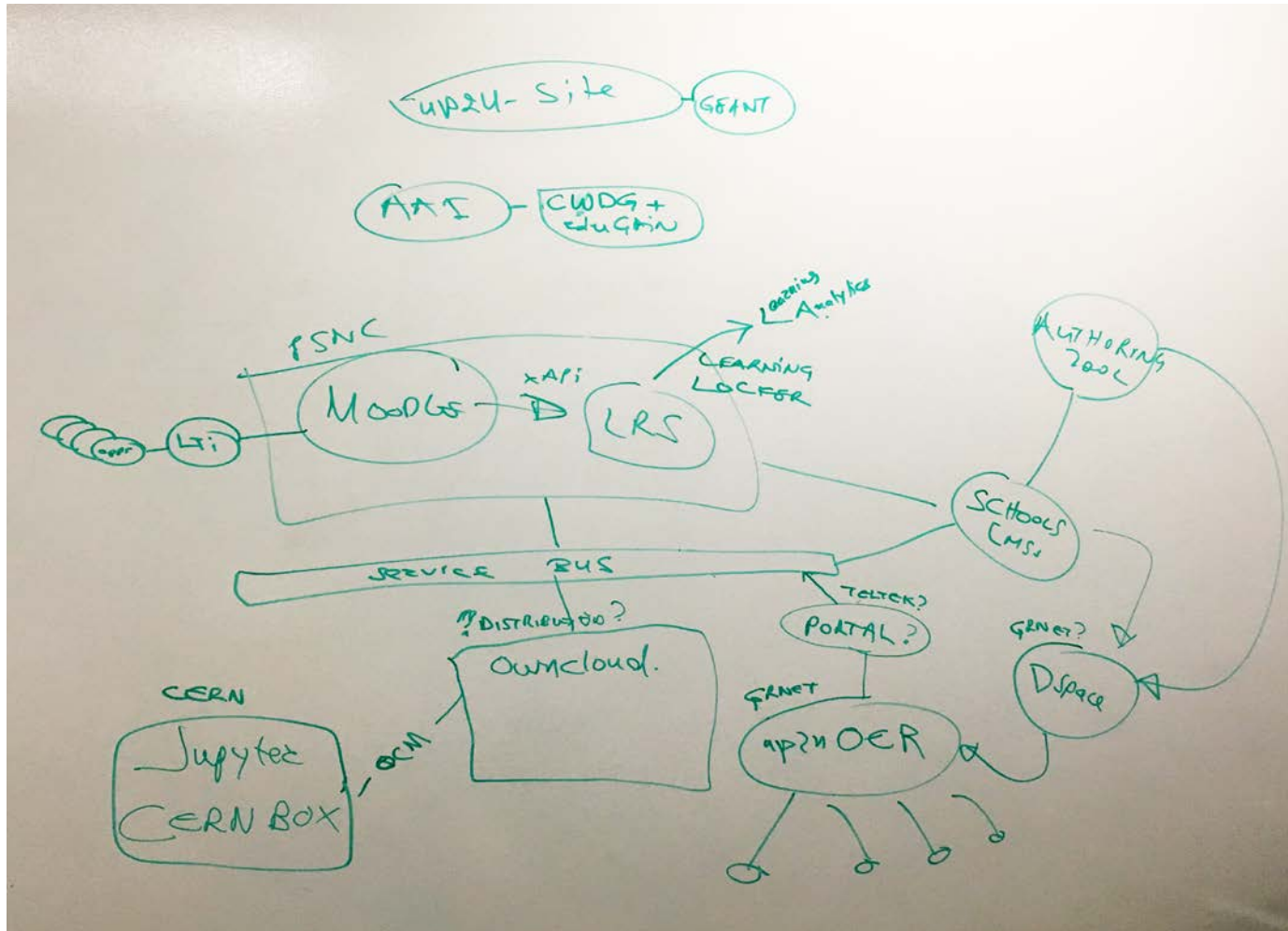
LTI becomes the predominant Learning Tool Integration method. More tools are interacting directly with each other. LA is getting information from connected tools.



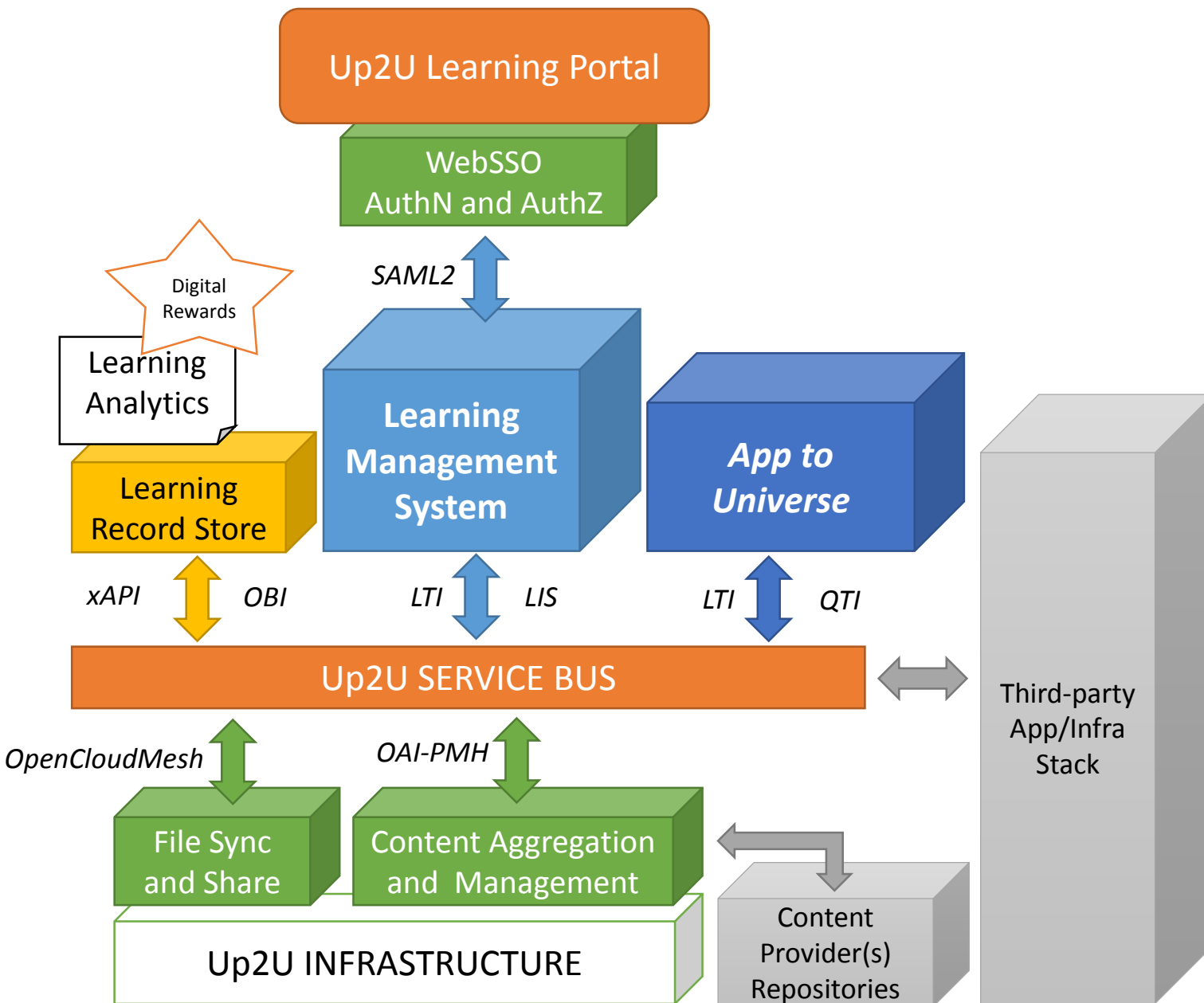
NGDLE architecture

Ecosystem of integrated, interoperable set of tools. LMS is not that important, if exists at all. Learning Analytics is an externalized function collecting all learning data from tools

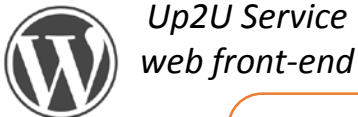
Next Generation Learning Platform



- Open Technology
- Standard APIs
- Value-add
- Scalable
- Modular
- Portable
- Interoperable



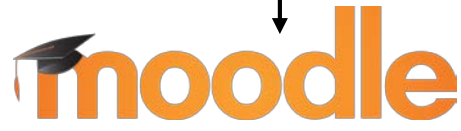
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WORDPRESS



State-of-the-art
federated WebSSO &
group management



Open-source Learning
Management System
with LTI integration



Pan-European GÉANT network substrate: Content Distribution Network, WiFi access







WORDPRESS





*State-of-the-art
federated WebSSO &
group management*

*Up2Universe®
Toolbox*

LTI



*Open-source Learning
Management System
with LTI integration*



IMS GLOBAL
Learning Consortium

WORDPRESS

eduGAIN
COmanage™

State-of-the-art federated WebSSO & group management

Up2Universe® Toolbox

WebRTC
H5P
SeLCont
Synchronized e-Learning Content
TELTEK
VIDEO RESEARCH

LTI

moodle

Open-source Learning Management System with LTI integration

IMS GLOBAL
Learning Consortium

Interactive notebooks with federated sharing by CERN

jupyter
SWAN
CERNBox

OPENCLOUDMESH

ownCloud

Enterprise File Sync & Share solution with federated sharing across domains

OAI-PMH

Pumukit
Web-TV | ARCA | iTunes U
eduOER
DSPACE

Video Portal with LTI

European level OER metadata aggregation by GÉANT

Content repository

Up2Universe[®] Toolbox

WebRTC

H5P

SeLCont
Synchronized e-Learning Content

TELTEK
VIDEO RESEARCH

WordPress

eduGAIN

COmanage™

State-of-the-art federated WebSSO & group management

Extended Learning Analytics and recognition system

mozilla OpenBadges

Learning Locker
OPEN SOURCE

EXPERIENCE
API™

moodle

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Open-source Learning Management System with LTI integration.

LTI

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OPENCLOUDMESH

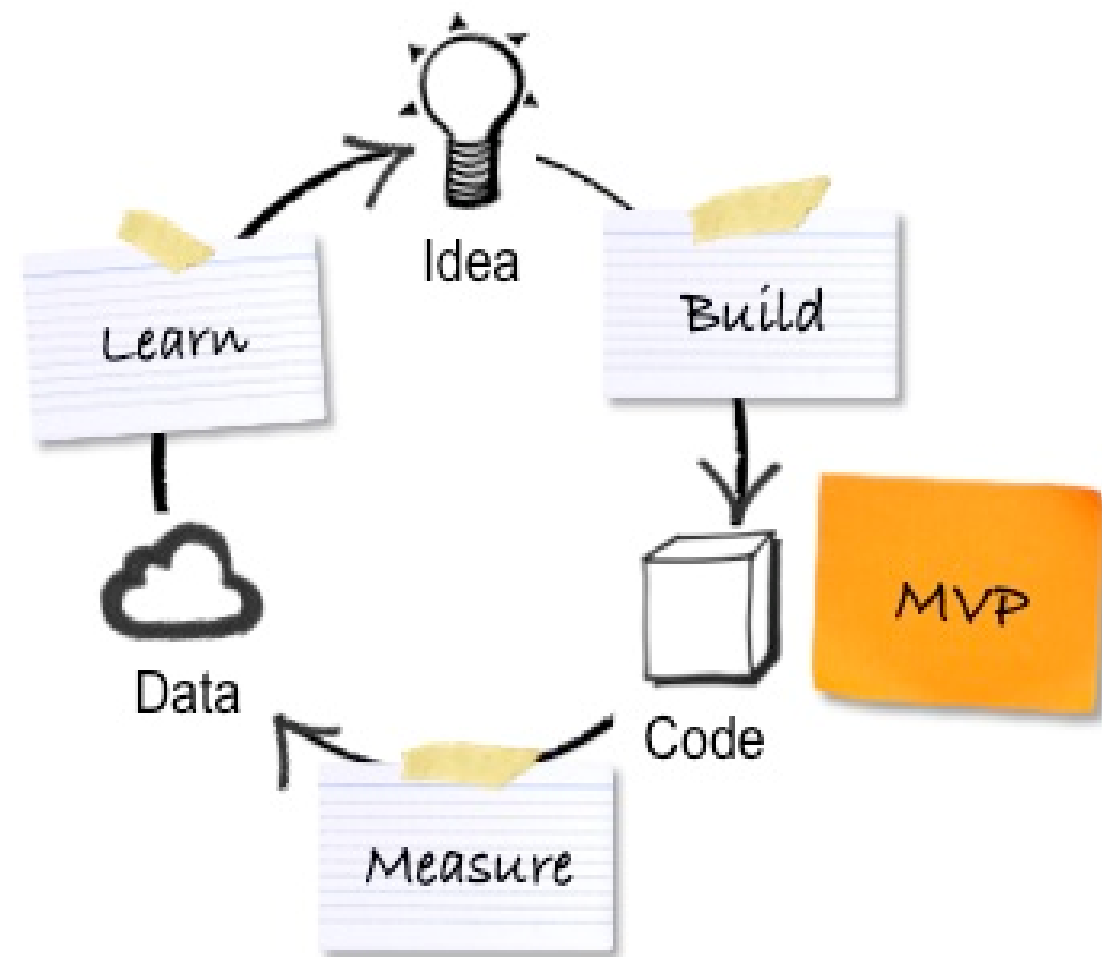
ownCloud

Enterprise File Sync & Share solution with federated sharing across domains

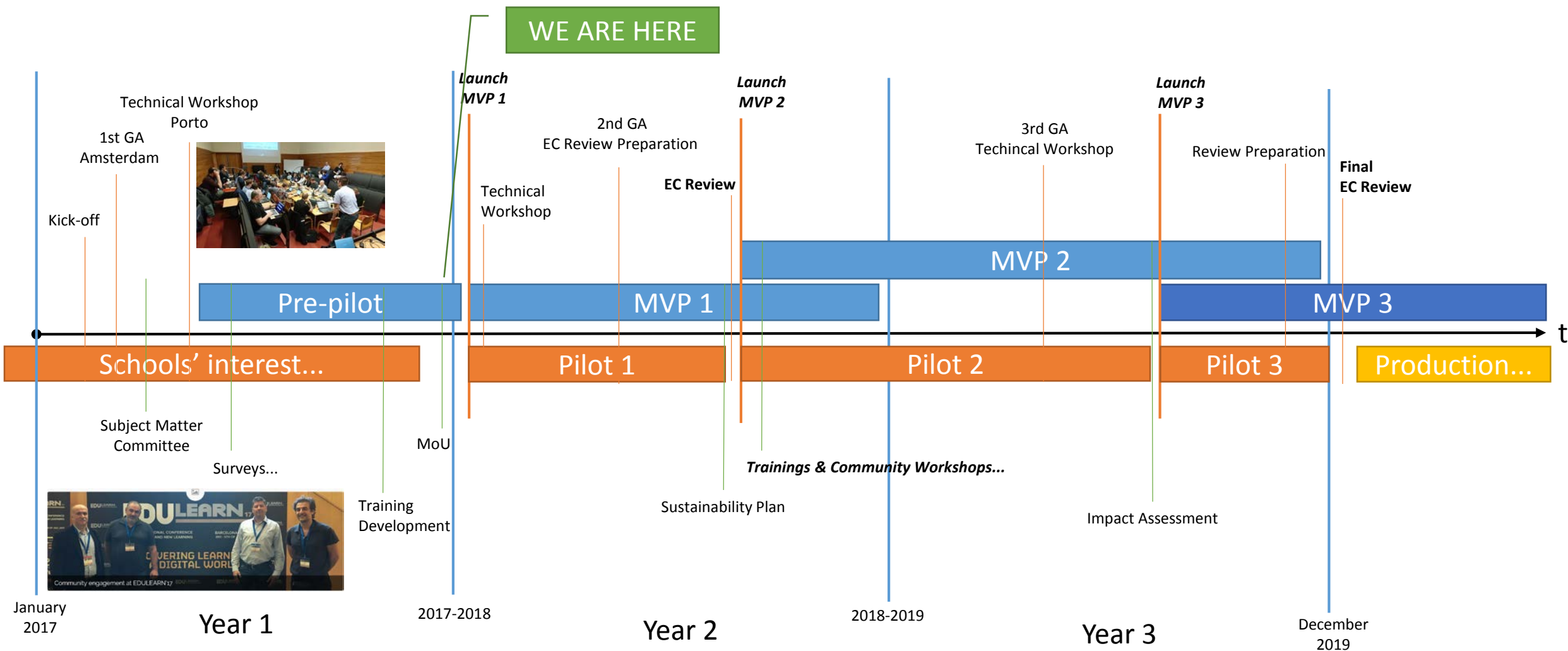
OAI-PMH

Buid as needed

- Rapid prototyping
 - Start with something existing quick
 - Consolidation functions
 - Develop what we need
- Build a platform (fit for purpose)
 - Mobile
 - HTML5
 - Cloud
 - Interoperability



Roadmap



Statement

"We strongly believe that all the tools and services the project is going to use and/or make available (i.e. incorporate, design, develop and test) must be **sustainable after the lifetime of the project.**"

- business plans and investigate appropriate business models using the expertise of the Small Medium Enterprise and National Research and Education Network partners and their contacts with third-party business actors
- make it easy for new schools to join the Up2U infrastructure and ecosystem that will form a federated market-place for the learning community