The Up2University Project

EC Call ICT-22-2016: Technologies for Learning and Skills
5M EUR funding for 3 years

12 countries in Europe
18 partners: Academia, Research, Industry, NRENs

Objective:
Bridge the gap between secondary schools, higher education, and the research domain
→ Adapt technology and methodology
→ Get kids interested and involved in science early on

Target Audience: 12-18y old students and their teachers

Let Students Use Big Science Tools

- Students and teachers work using their browser
- Educational notebooks live in the CERNBox storage
- Foster sharing and reutilization of educational resources

CERN Cloud Technology for Up2U

Science Box
https://cernbox.cern.ch/cernbox/doc/boxed/

Interactive Notebooks in a Web Browser
Synchronization and Sharing
Open Source Highly-scalable Storage

Docker-based package with storage, sync & share, and interactive notebooks

Pilot Service for Up2U:
- Deployable on any cloud infrastructure
  ➢ CERN
  ➢ Poznań Supercomputing and Networking Center
- Highly customizable and scalable
- Elastic provisioning of resources

Up to University

Contact:
enrico.bocchi@cern.ch
jakub.moscicki@cern.ch

CERN IT-Storage:
Enrico Bocchi
Jakub Mościcki

Education & Research Community
Growing Interest in Education from Physicists:

Welcome to S’Cool LAB

Cloud Sync and Share Community:

- Open Cloud Mesh
  Multi-vendor API to connect sync and share clouds across silos borders