Up to University

The Up2University Project

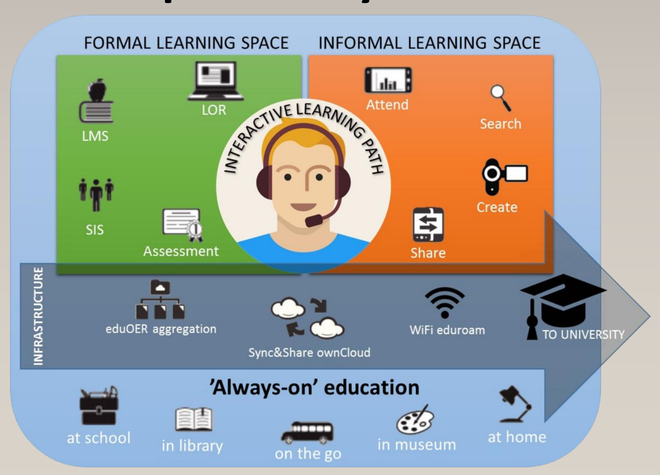
EC Call ICT-22-2016: Technologies for Learning and Skills
5M EUR funding for 3 years

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

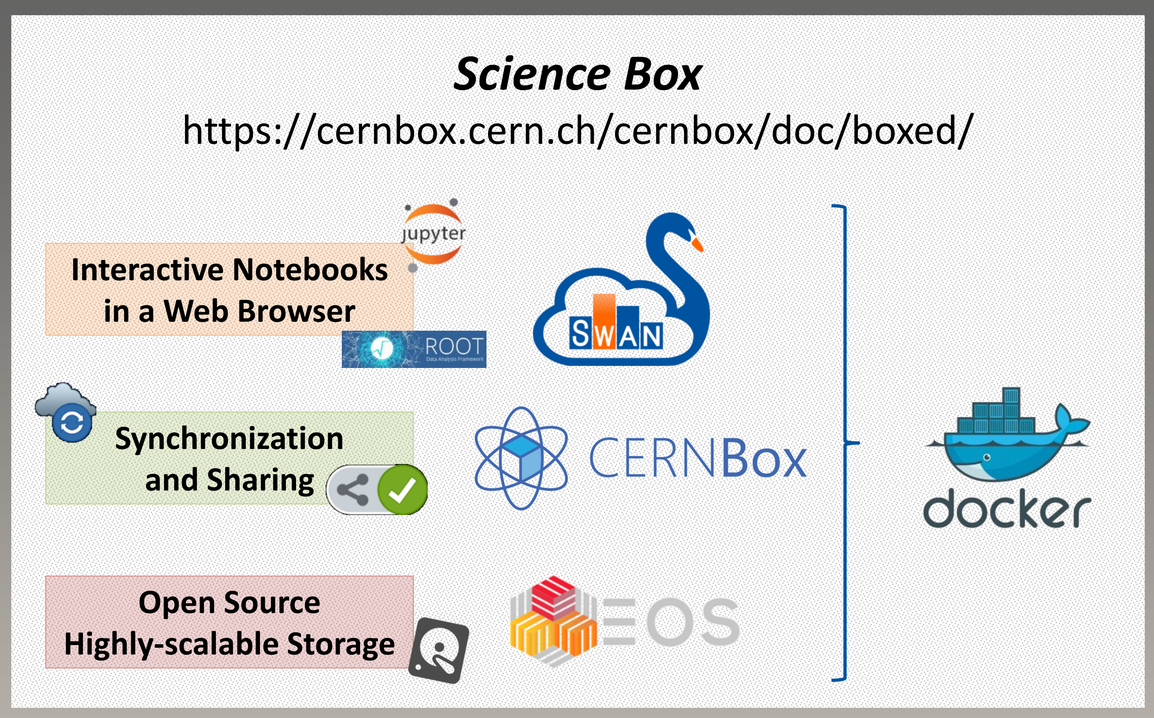
Up2U Ecosystem



Always-on Education

- ***Formal***
  Courses, assignments, …
- ***Informal***
  Experimentation,
  peer-to-peer learning,
  social interactions

CERN Cloud Technology for Up2U



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

CERN IT-Storage:

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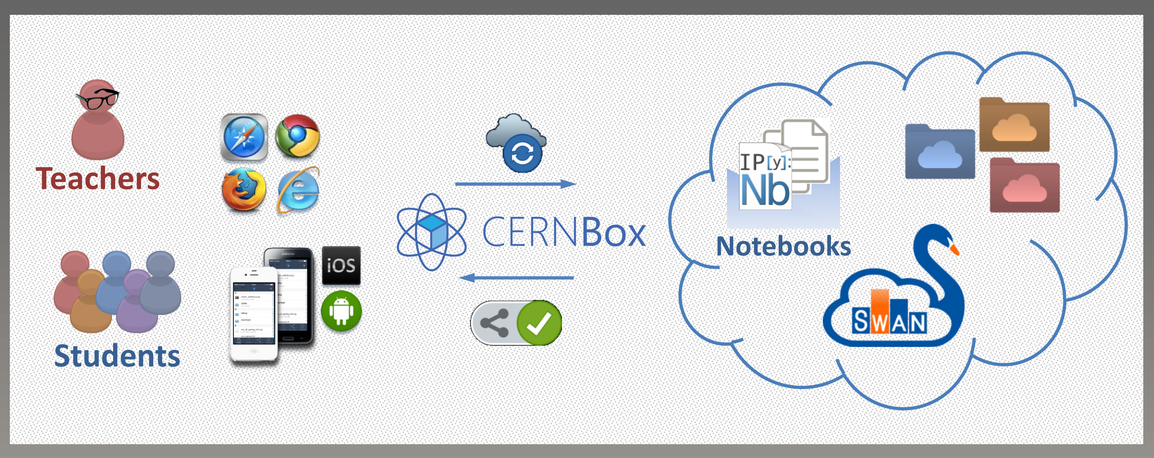
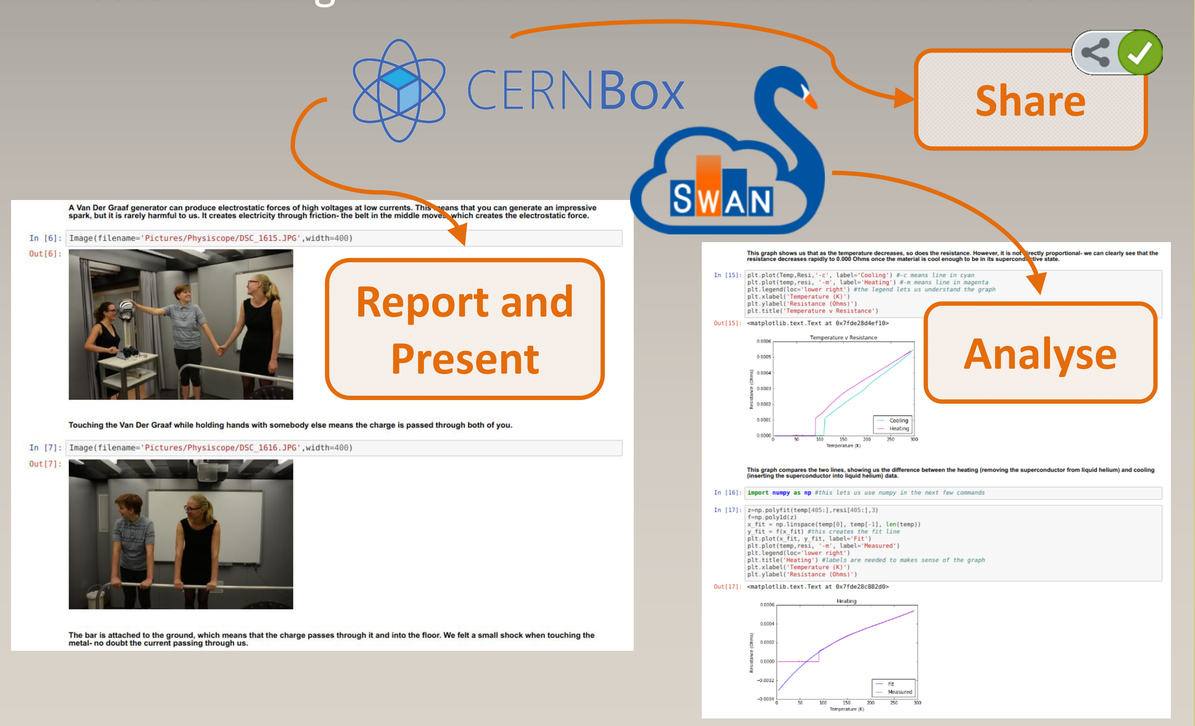
Let Students Use Big Science Tools

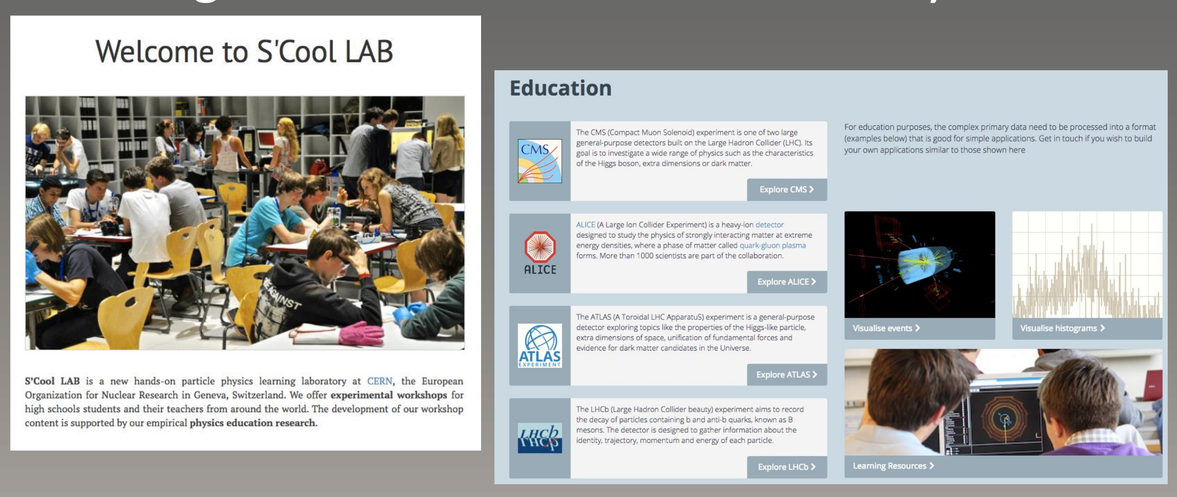


- Students and teachers work using their browser
- Educational notebooks live in the CERNBox storage
- Foster sharing and reutilization of educational resources

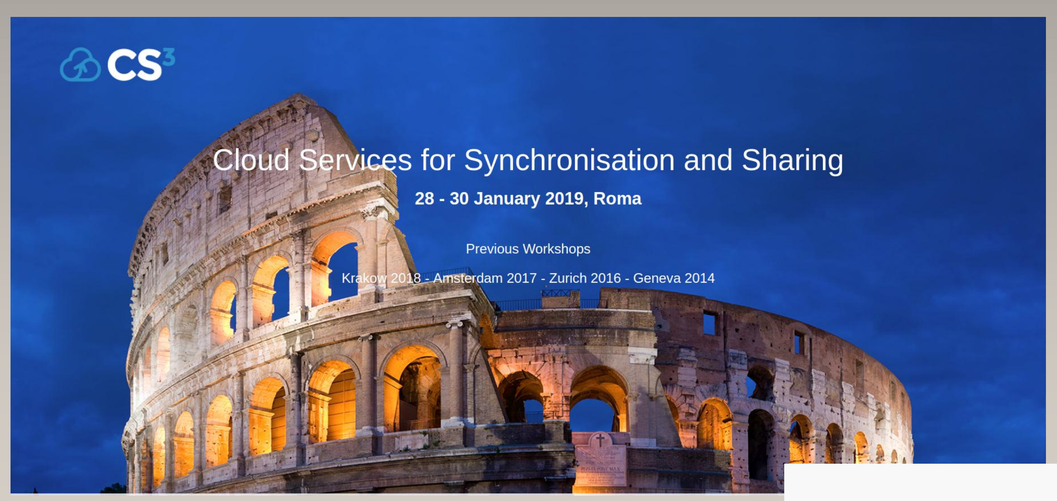


Education & Research Community

Growing Interest in Education from Physicists:



Cloud Sync and Share Community:



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