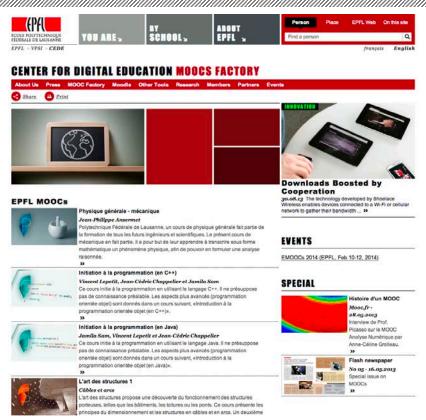


http://cede.epfl.ch



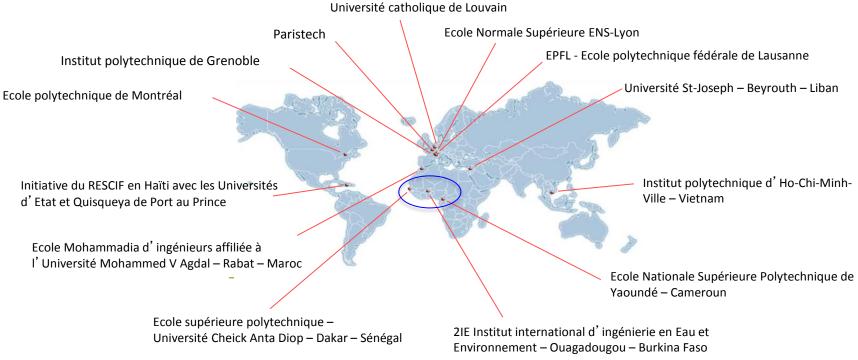
EPFL – CEDE
Center for Digital Education

Patrick.Jermann@epfl.ch



Networks – RESCIF

14 universités d'Afrique, des Ameriques, d'Asie, d'Europe et du Moyen-Orient





Possible collaboration models

2 to 3 partners from North & South

MOOCs developed jointly or offered unilaterally

North/South partnership:

- North/South: choice of topics + content development+ production + QC
 + certification+ accreditation
- North: Technical platform + human resources and infrastructure
- South: Local valorization of courses + dissemination



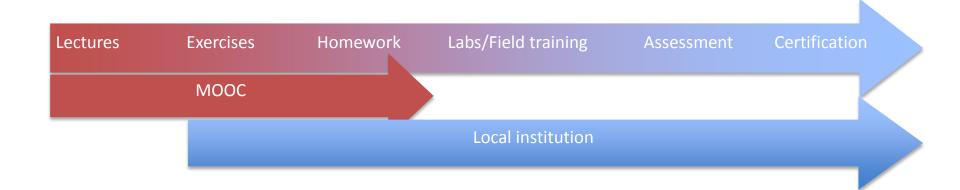
2 editorial orientations

- 1 Undergraduate courses covering fundamental sciences (Mathematics, Physics, Computer science)
 - → Interaction of teachers from North and South.
 - → Mobility of teachers and their instructors!
 - → Integration of MOOCs into the local curricula.
- 2 Specialized courses following the main RESCIF topics: Water, Energy, Nutrition, Health
 - → Community of instructors formed around a topic.
 - → Practical training sessions organized locally.



Blended learning model within RESCIF partners

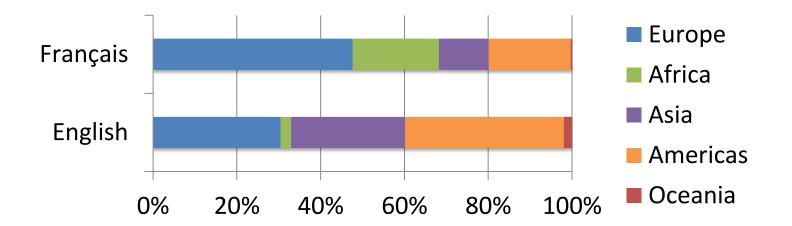
A MOOC is integrated into a local course





Geographical distribution by language of the course

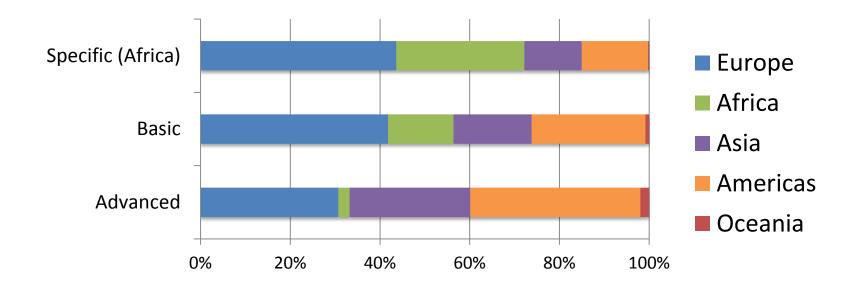
[N= 17 sessions, 13 courses, 275'000 participants who logged in once]





Geographical distribution by type of course

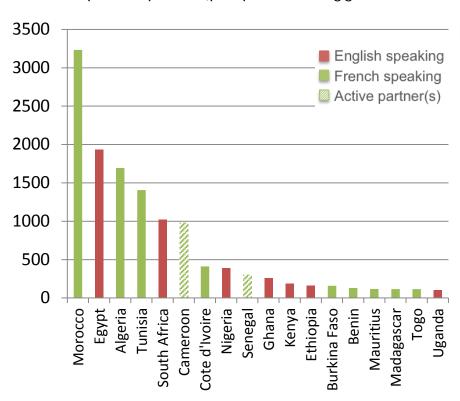
[N= 17 sessions, 13 courses, 10 coursera & 3 edX, 275'000 participants who logged in once]

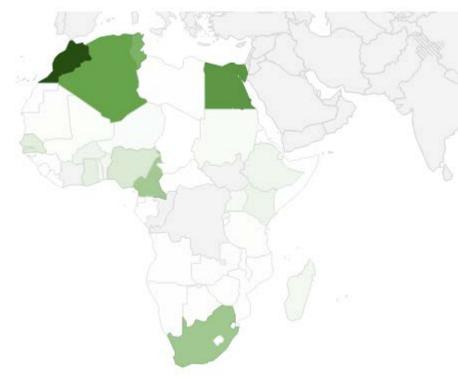




Geographical distribution in Africa

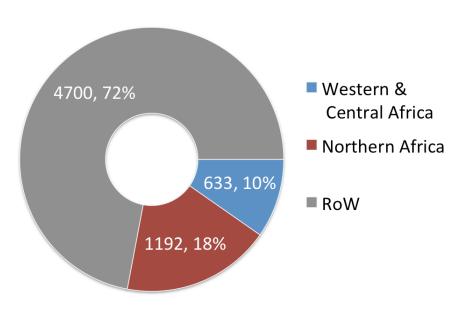
[MOOC participants (people who logged in once, N>100, Africa)



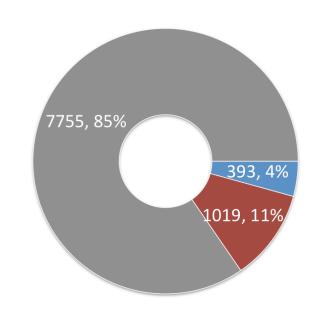


Local coordination and promotion pays off ... [4% => 10%]

Microcontrôleurs / 6'525



Initiation à la program. C++ / 9'100





What have we learned from Africa? /1

Dissemination

- Accessing MOOCs via the existing platforms in Africa is tricky. Help is needed to access the Internet!
- Well-designed off-line solutions can be a viable option on the short term
- French-speaking MOOCs are sought after, and followed when available in North and Sab-Saharan Africa
- The involvement of local faculty (and administration) greatly helps the inclusion of MOOCs into the local curricula → blended learning involving distant faculty!



What have we learned from Africa? /2

Academic environment

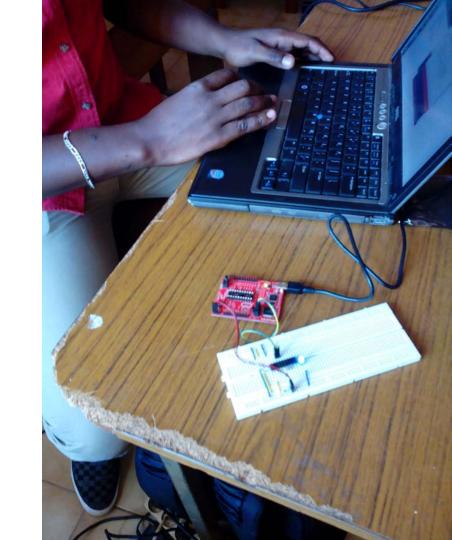
- Students need credits (if at a university) or certification (if self-learners)
- For MOOCs to be included to the local curricula, academic regulations need to be amended in many countries
- Bundling of MOOCs to form curricula depends on state-edited regulations
- Create collaborative MOOCs with the participation of many partners is a challenge!



Online teaching / Onsite training – ENSP Yaoundé





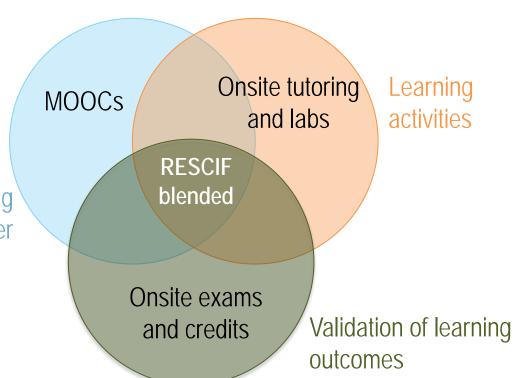


Perspectives

Blended learning in new environments

- MOOCs from RESCIF partners
- Integration into local curricula
- Local capacity building
- Network of instructors

Knowledge packaging and transfer



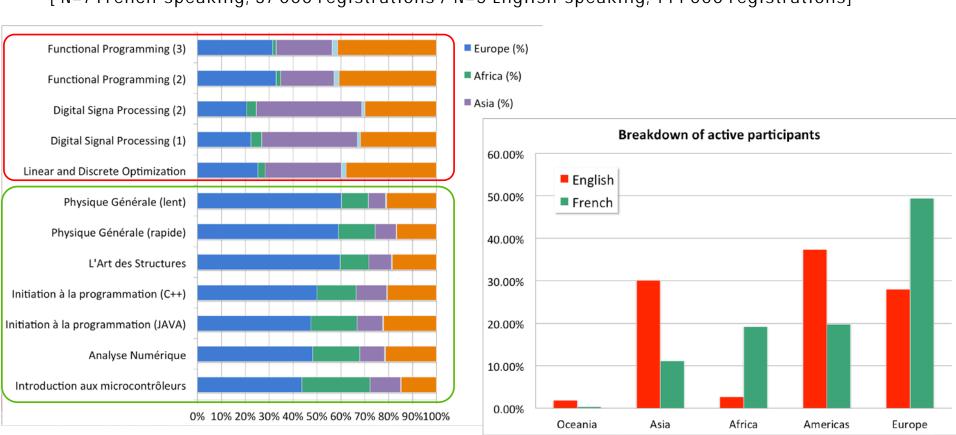


Additional slides



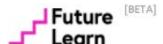
Geo-breakdown

[N=7 French-speaking, 37'000 registrations / N=5 English-speaking, 144'000 registrations]



Country and region-wide initiatives

Europe









China



Arab world



Generation Rwanda – Kepler initiative





Sub-saharan Africa







Networks - African Hubs

