



MOOCs for Africa

Opportunities for Higher Education

Dr Dimitrios Noukakis
EPFL - Ecole Polytechnique Fédérale de Lausanne, Switzerland
Center for Digital Education

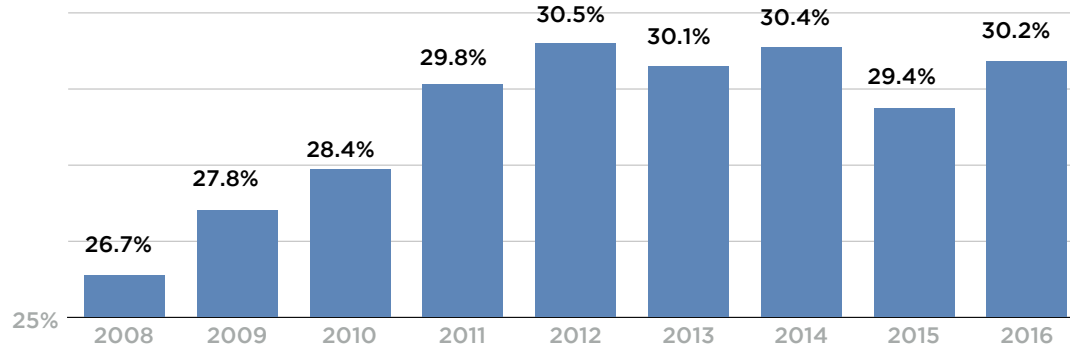
The African (un)employment paradox !

2.5 million engineering jobs to be filled in sub-Saharan Africa

60% of unemployed are university graduates !

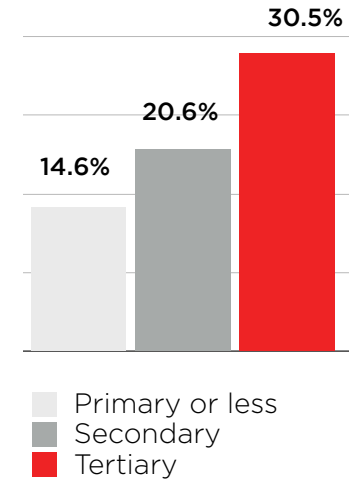
The full story of youth unemployment in Africa: Young people with higher education find it more difficult to find jobs.

Youth unemployment rate
2008 - 2016.



Source: The World Bank

Youth unemployment rate by
level of education 2012-2013



Source: SWTS data and Eurostat, the database of the European Labour Force Survey. EU Data 2013.

Sub-Saharan Africa and emerging countries

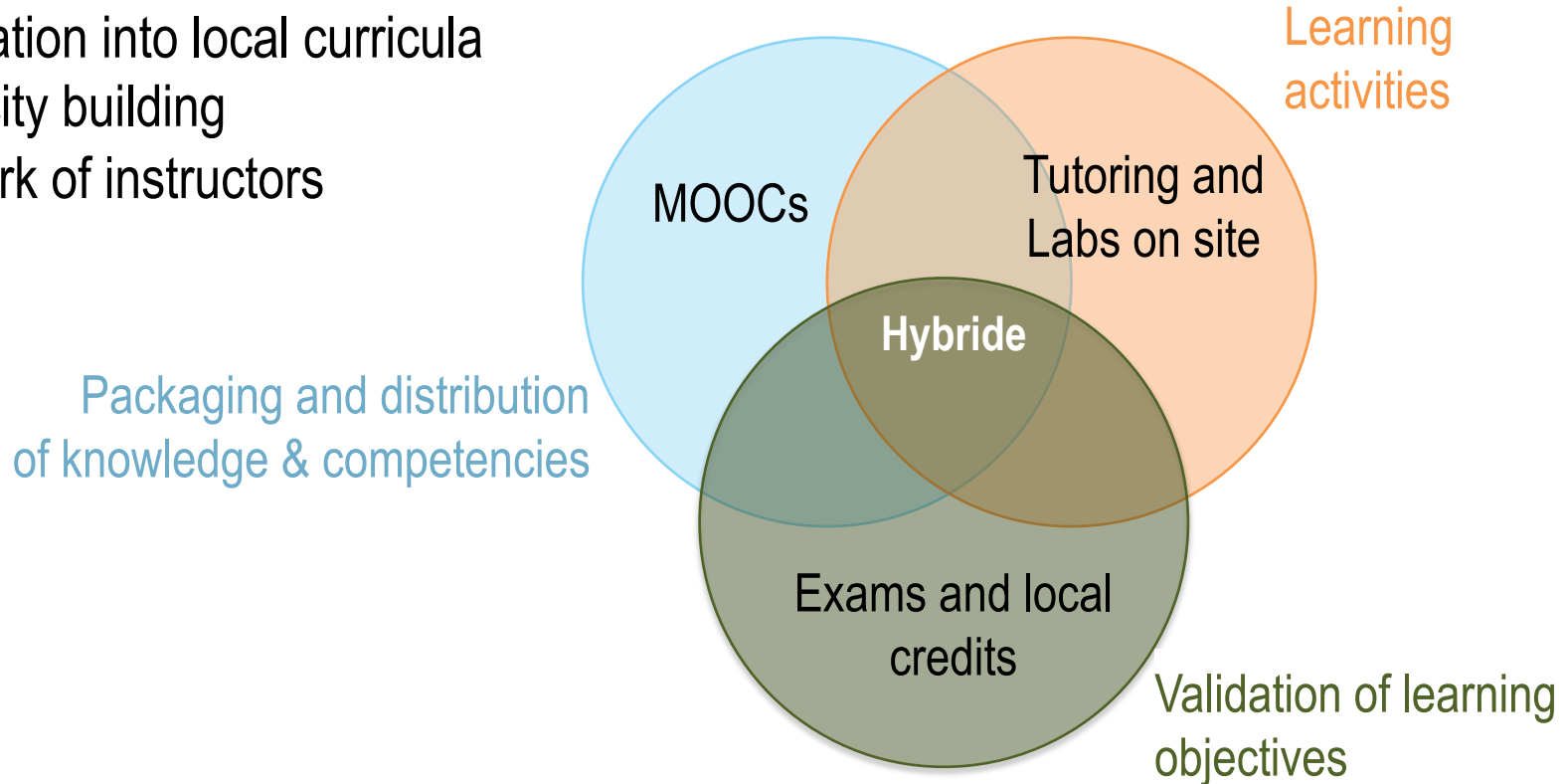
- Massification
- Quality and relevance of educational content
- Choice of curricula
- Pedagogical methods
- Access to Internet and OER

EPFL's local partnerships



A new model of GLOBAL hybride education

- MOOCs from partners
- Integration into local curricula
- Capacity building
- Network of instructors



- **University students**

- Complement to ex-cathedra courses (foundations)
- Flipped-classroom
- Stand-alone (advanced)

- **Self-learners / Professionals**

- Acquisition of specific skills (MOOC or part of a MOOC)
- Professional development (Short curricula + credits + certificates)

Capacity building in Higher Education in Africa with MOOCs

- **ACCESS TO WORLD-CLASS COURSES**

MOOCs from EPFL and academic partners

- **UPGRADE PEDAGOGY**

Flipped Classrooms, Project-based, ...

Pilot projects in 3 locations : Dakar, Yamoussoukro, Yaoundé

- **COMPETENCE CENTERS**

Capacity Building in African Universities

Digital content development and distribution

- **IMPROVE EMPLOYABILITY**

Fast-track training in ICT, Eng. & Entrepreneurship.

Work with local companies to develop internships





ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

**MOOCs
Afrique**

Des partenaires engagés pour des formations accessibles à tous



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

**Direction du développement
et de la coopération DDC**



FONDATIONS
EDMOND DE ROTHSCHILD