The Global Health e-Academy Initiative

Facilitating access to MOOCs in Global Public Health



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Arnaud Fontanet, Institut Pasteur & Conservatoire National des Arts et Métiers, France













Massive Online Open Course (MOOC) « Concepts and Methods in Epidemiology »

Created in 2014 by the Cnam,

First MOOC on epidemiology in French (subtitles in English)

Hosted by the national platform France Université Numérique (FUN)

Organization:

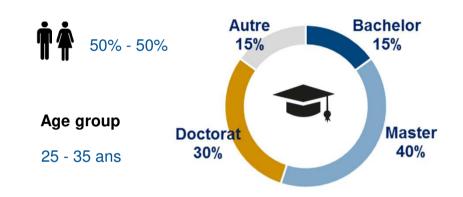
- 6- week course (videos)
- 5 Hangouts facilitated by the teacher
- 1 final exam: online and free (multiple choice questions)
- Optional pedagogical activities: exercises, readings, case-studies
- Paid certification (60€) since 2016 : online or face-to-face supervised exam (partnership with AUF).





MOOC Epidemiology Stats on the students



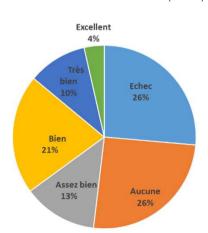


Number of students 2014-2016

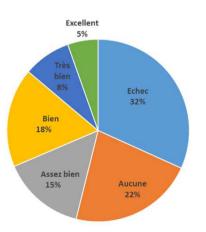


Final exam results 2014-2016

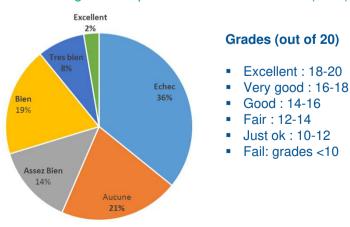
2014 451/2986 take the exam (15%)



2015 592/3411 take the exam (17%)

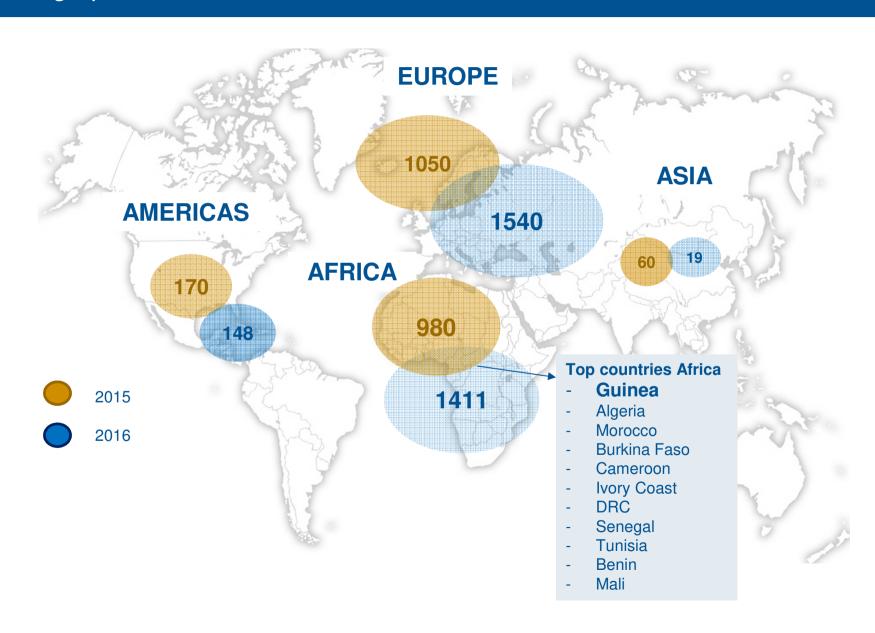


2016 467*/3825 take the exam (12%) *Including 90 who paid 60€ for the certificate (19%)



MOOC Epidemiology

Geographic distribution of students 2015-2016*

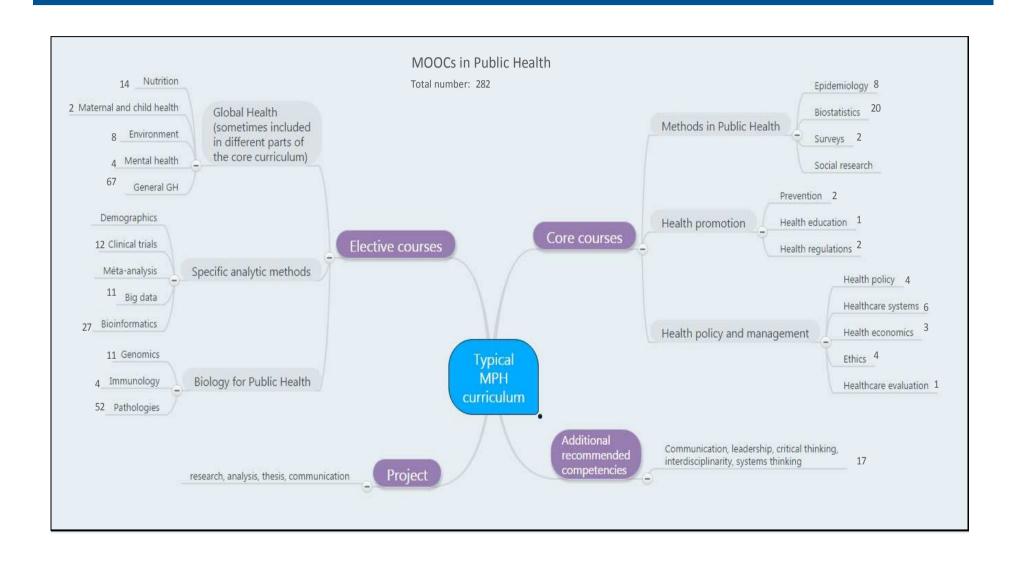


Further use of MOOC in Epidemiology

Request to use the MOOC for teaching public health at the Faculty of Medicine in Phnom Penh, Cambodia, and Beijing University, China

Used for selection of Master of Public Health students from Africa

Global Health MOOC mapping (n=282)



MOOCs: use, benefits and risks

Integrated into teaching programs, MOOCs:

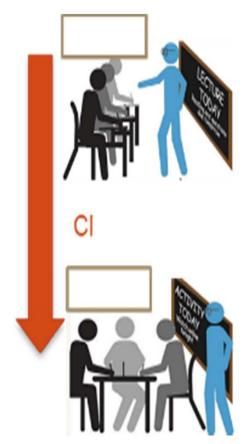
- Complementary to traditional courses for the transmission of basic concepts or to illustrate a theme (e.g numerous MOOCs on emerging viruses are available worldwide)
- Facilitate active pedagogy; students follow the course on their own and devote more time to group work, case studies, projects « flipped classroom"

Advantages:

- Easy and free access (internet)
- Fast-growing production
- Broad subject and disciplinary fields
- Adapted to continuing education

Risks:

- Superficiality
- Dispersion
- Uncontrolled quality



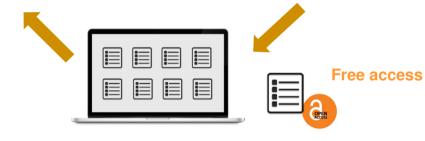
Proposal: The Global Health e-Academy

FACULTY

Select MOOCs for their own teaching programs



Develop their own MOOCs to complement existing material









STUDENTS

Get credits through MOOCs or MOOPs

Rate MOOCs as « Tripadvisor »



Universities, Research institutes

- Develop the portal « Global Health e-Academy »
- Identify newly produced MOOCs in global health
- Develop partnerships between universities for elaborating MOOPs, and integrating them in teaching curricula
- Support the production of MOOCs in resource-limited countries

Potential partners for the Global Health e-Academy

London School of Hygiene and Tropical Medicine

Harvard T.H. Chan School of Public Health

Cnam

Institut Pasteur

Centre Virchow-Villermé - Paris Descartes

Université de Tunis

Hong Kong University

Université Cheikh Anta Diop, Dakar

Addis Ababa University

Université du Ghana

Université Houphouët-Boigny, Abidjan

Université Yaoundé

ARISE network in Africa (Harvard T.H. Chan School of Public Health)

Massive Online Open Programs (MOOPs)

- Combination of MOOCs on methods (epidemiology, biostatistics,...) and public health themes (One Health, mother-to-child health...)
- May give a certificate delivered by one/several universities from the consortium
- Example of a MOOP in Global Health:
 - Concepts et méthodes en épidémiologie (FR; Cnam; FUN) + Fondamentaux en biostatistiques (FR; CVV; FUN)

or:

Health in numbers: Quantitative methods in clinical and public health research (EN, Harvard T.H. Chan SPH; edX)

- 2. Readings in Global Health (EN; Harvard T.H. Chan SPH; edX)
- 3. Improving the health of women, children and adolescents: from evidence to action (EN; London School of Hygiene and Tropical Medicine; Future Learn)
- 4. Global Health at the Human-Animal Ecosystem interface (EN; University of Geneva, Institut Pasteur, University of Montreal, CVV; Coursera)

Points for discussion

- LEGAL: Re-use of existing MOOCs for delivering diplomas or degrees?
- **COUNTY:** How to overcome bandwidth issues in resource-limited countries?
- **EXAM** organization: Online? At the university? Cost of the certificate?