

MOOC on Water, Sanitation and Waste

Free online courses - A digital reality to educate tens of thousands

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Eawag: Swiss Federal Institute of Aquatic Science and Technology

MOOCs = Massive Open Online Courses

3000-30'000
(~unlimited)
participant numbers

free

constantly online



5 weeks programme
Statement of
Accomplishment



English (and French) spoken language

- Subtitles in: English, Spanish, French, (Hindi)

Goal



Provide access to high quality WASH-education **for free on any device, at any time, from any place.**

MOOC series Sanitation, Water and Solid Waste for Development



MOOC I:
Introduction to Household Water Treatment and Safe Storage

*Dr. Richard Johnston &
Dr. Sara Marks*



MOOC II:
Planning & Design of Sanitation Systems and Technologies

Dr. Christoph Lüthi



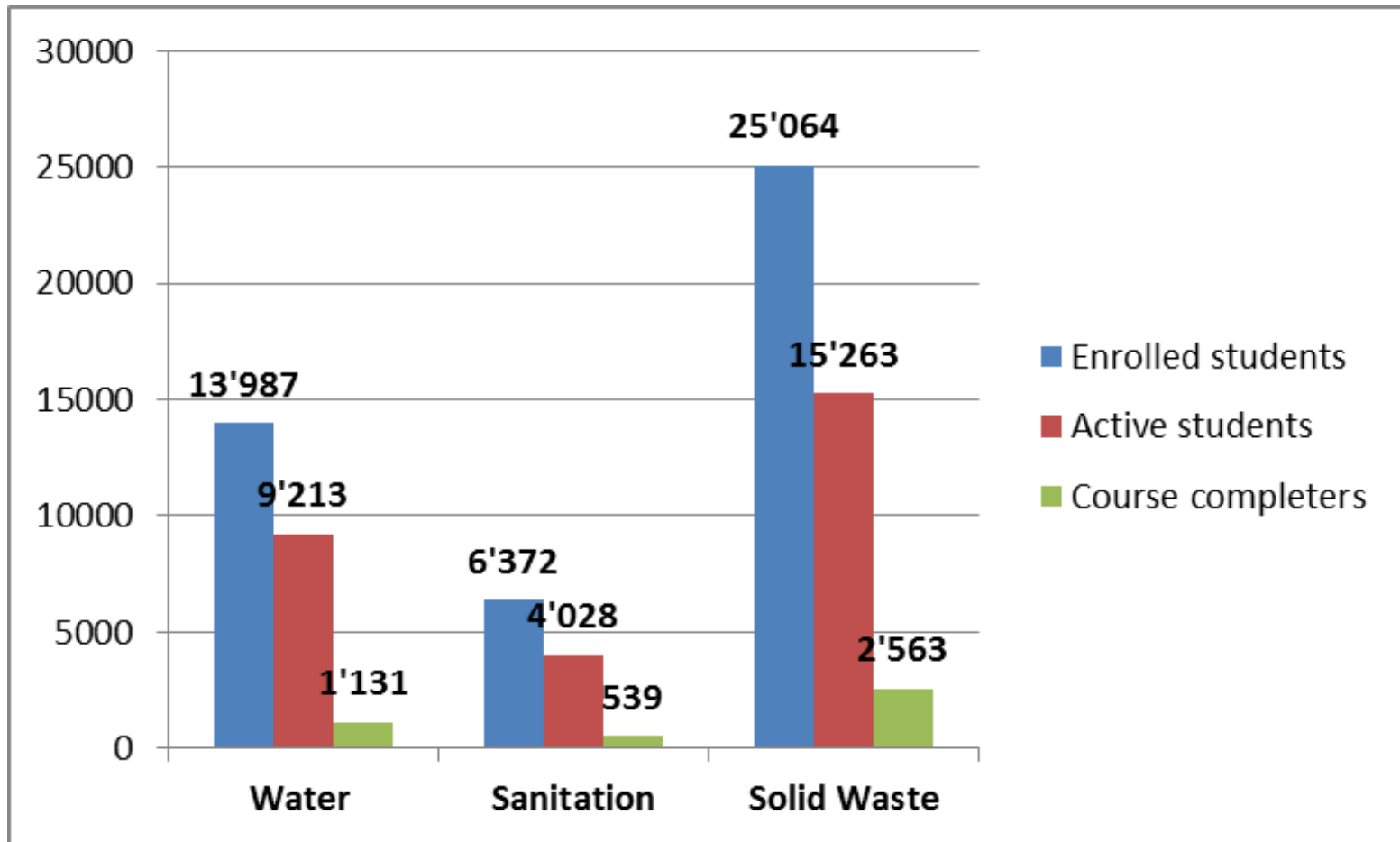
MOOC III:
Municipal Solid Waste Management in Developing Countries

Dr. Christian Zurbrügg



MOOC IV:
Faecal Sludge Management

Dr. Linda Strande



Course numbers as of Sept. 2016

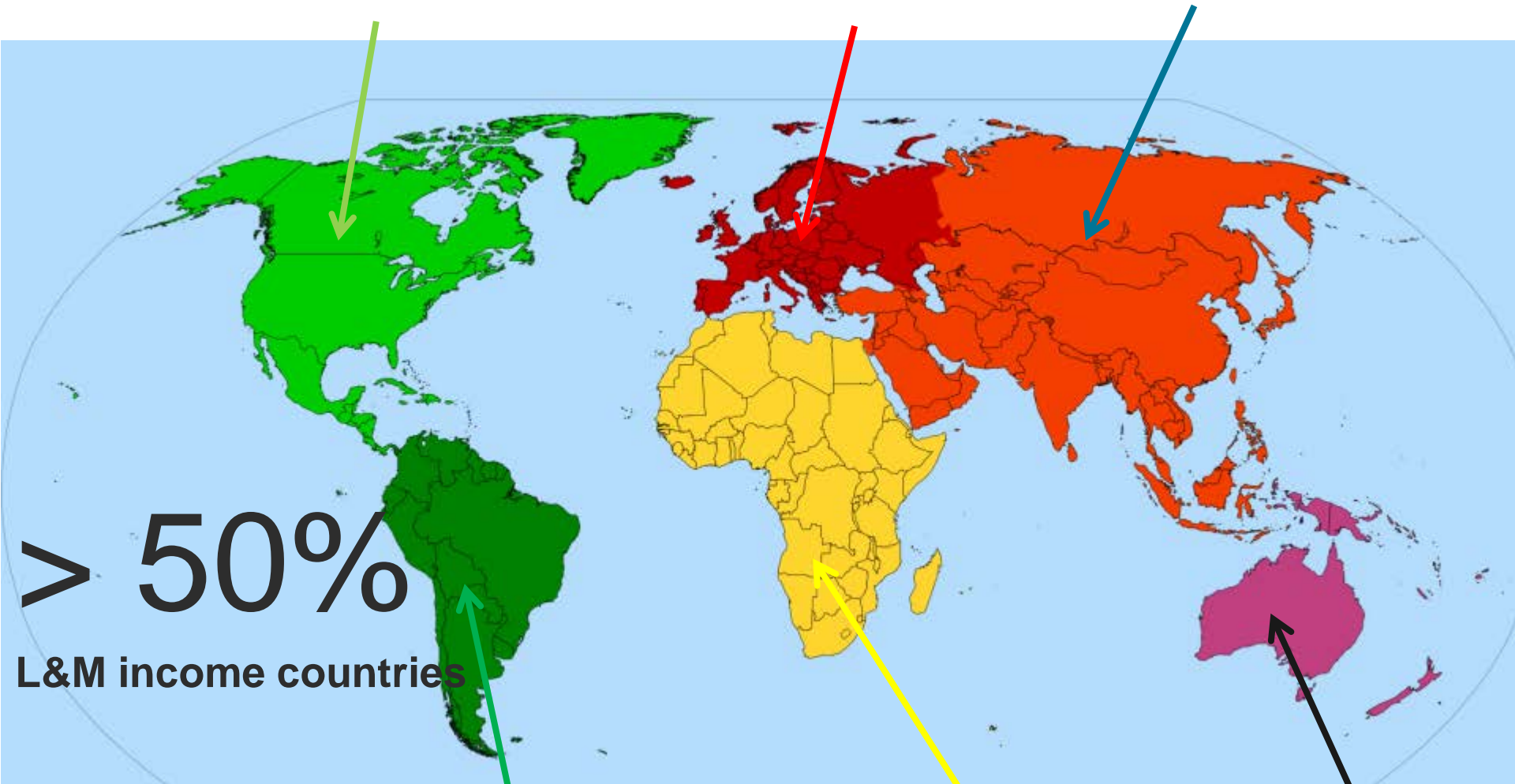
Reach per continent - Solid Waste MOOC

(~25'000 learners, ~2'500 completers)

North America = 21%

Europe = 17%

Asia = 25%



> 50%

L&M income countries

South America = 22%

Africa = 14%

Oceania = 1%

Sanitation Course Syllabus

WEEK 1:

City sanitation > Planning & programming >
Political economy > Assessment frameworks

WEEK 2:

Sanitation products > Functional groups >
Technologies (1)

WEEK 3:

Sanitation systems > Technologies (2)

WEEK 4:

Case studies from Africa, Asia and Latin
America

WEEK 5:

Urban sanitation planning & assessment tools

Programming
Sanitation value chain
Technology portfolio
Case Studies
Planning

Other Opportunities

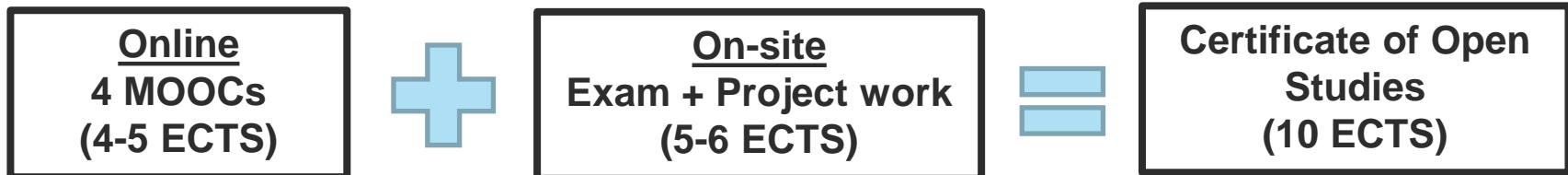
SPOCs = Small Private Online Courses

Provide **tailor-made WASH-education** to selected groups via MOOC platforms.



COS = Certificate of Open Studies

Provide **combined (online and on-site) WASH-education** with a **recognized certificate**.



Flipped classroom

- Blended learning
- Learners watch videos at home or in class
- Teachers use class to discuss videos and do an exercise



Example:

- University of Ibadan, Nigeria
- University of Dar es Salaam, Tanzania
- University of Malawi, Malawi

