6  CLEAN WATER AND SANITATION

COFER WASH
Water Sanitation Hygiene

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COFER WASH is an applied research initiative of seven academic institutions in Switzerland and two in Ivory Coast and Ethiopia. The project aims at developing solution-oriented educational tools for schools, universities and practitioners in Sub-Saharan Africa.
WASH for Schools
We develop visual primary school materials «WASH Learning KITS» and e-lessons for a playful learning experience for primary and secondary school pupils.

WASH for Universities
We elaborate theoretical background materials for WASH technologies, guidance materials and technical toolboxes for students and professors.

WASH for Professionals
We launch a Certificate of Advanced Studies in WASH to develop practical skills of professionals to provide drinking water, sanitation and hygiene for vulnerable populations.

Piloting & validation
We test and evaluate all developed tools, kits and practical training materials in partnering schools, universities, and in the CAS.

Dissemination
We build and disseminate evidence regarding the project impact to make the program’s positive outcomes available to a wider audience.
CAS Wash
Certificate of Advanced Studies
in Water Sanitation and Hygiene for
humanitarian and developing contexts

The Certificate of Advanced Studies (CAS) is a postgraduate academic qualification. CAS courses offer specialized knowledge and enable students to acquire additional qualification in a certain subject area. The Water, Sanitation and Hygiene CAS will enhance the professional development of interested participants. CAS courses are offered as part-time studies while working and are considered a higher continuing education program.
WASH for Schools and Universities - 2018 -

- Initial review of needs and conditions of schools and Universities
  - Scoping mission at Ivory Coast (April 2018)
  - Phone calls and questionnaires with partner (e.g. Parfait Kouame)
- Review of educational platforms to share information with Global South
  - Decision taken to use Moodle: world’s largest eLearning suite for free
- Hardware to provide e-contents and evaluate feedback (data collection)
  - Moodle-Box combined with smartphones, tablets

Mirko Winkler, April 2018

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WASH for Schools and Universities
- Moodle Box -

- **Raspberry Pie Hardware (~USD 90)**
  - Small, robust, mobile, and powerful (220V, 110V, battery, solar panel)
  - Free software: Linux and Moodle
  - Multi functional (e.g. providing news, regulations, used for robot controller etc.)

- **Wi-Fi Access Point**
  - Serves up to 30 users in classes or communities
  - Without or with open internet (= everybody connected can access the web)
  - Download documents or complete courses for offline use
WASH for Schools and Universities
- Work in Progress -

- Preparation of WASH-related contents for primary and secondary schools as well as Universities (work in progress) -
  - Addressing schools with “kits for kids” and students with compendia, e-learning
  - Reviewed educational tool and documents becoming part of, e.g.
    - Manuals (UNICEF), Terre des Hommes Blue Schools, Sustainable Sanitation and Water Management (SSWM), Swarowski Water Schools etc.

- Workshop with stakeholders of Ivory Coast in January 2019
  - In-depths discussion on needs and expectations, contents, curricula in education
WASH for Schools and Universities
- Outlook 2019 -

- WASH contents structured and prepared step-by-step with partners
  - Determine topics and identify needs of information levels
  - Define content for Moodle courses
  - Setup the course including Quizzes, Feedback, forums, …

- Students visit with a Moodle Box test case (Abidjan, Taabo), summer 2019
  - Several Moodle boxes set-up and tested at schools / universities

- Events to demonstrate our showcase in Abidjan
  - Taking part at “eLearning Africa” and “Moodle Mood” in Autumn 2019