



Swissuniversities  
Development  
and Cooperation  
network

A group of approximately 15 children, mostly girls in school uniforms, are standing in a line outside a concrete structure. Some are looking towards the camera, while others are looking away. The ground is reddish-brown dirt. The image is partially obscured by a light blue diagonal banner at the bottom.

Consortium for  
Education and Research  
in Water, Sanitation and Hygiene

**swissuniversities**



# THE WATER AND SANITATION BUSINESS



 **HSR**  
HOCHSCHULE FÜR TECHNIK  
RAPPERSWIL  
FHO Fachhochschule Ostschweiz

**PH Zug**  
Pädagogische Hochschule Zug

**unine**  
UNIVERSITÉ DE  
NEUCHÂTEL  
CHYN  
Centre d'hydrogéologie  
et de géothermie

University of Applied Sciences and Arts  
of Southern Switzerland

**SUPSI**

**eawag**  
juatic research 

**CSRS**  
Centre Suisse de Recherches  
Scientifiques en Côte d'Ivoire



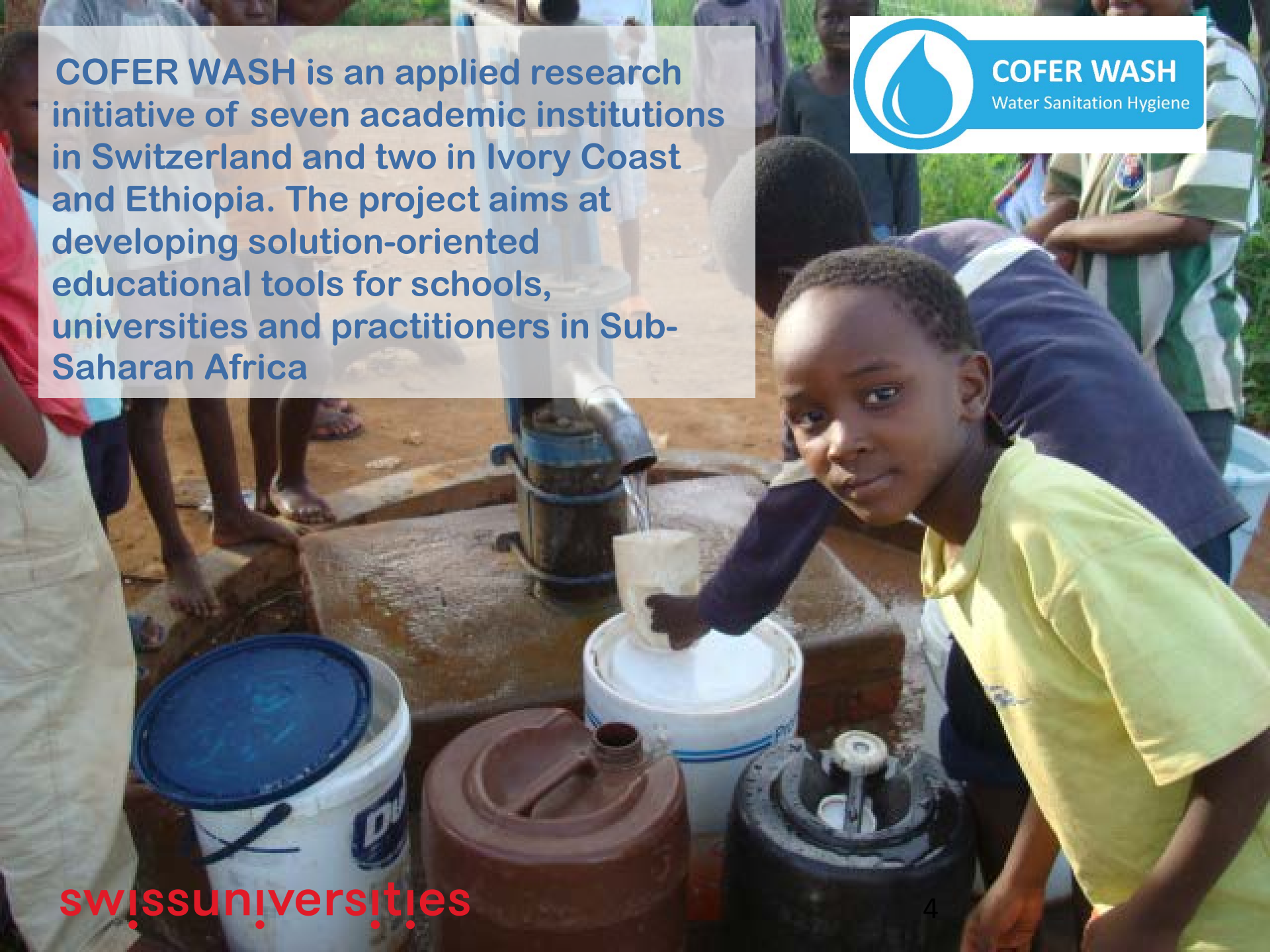
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Fachhochschule Nordwestschweiz  
Hochschule für Life Sciences

Swiss TPH



**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.

University of Applied Sciences and Arts  
of Southern Switzerland  
**SUPSI**

**unine**  
UNIVERSITÄT  
INTELLIGENTE  
UNIVERSITÄT


**eawag**  
aquatic research **000**

**CHSR**  
Centre for Hydrogeology  
and Geochemistry

**Sanitas**  
Water and Sanitation in  
Developing Countries

## 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.

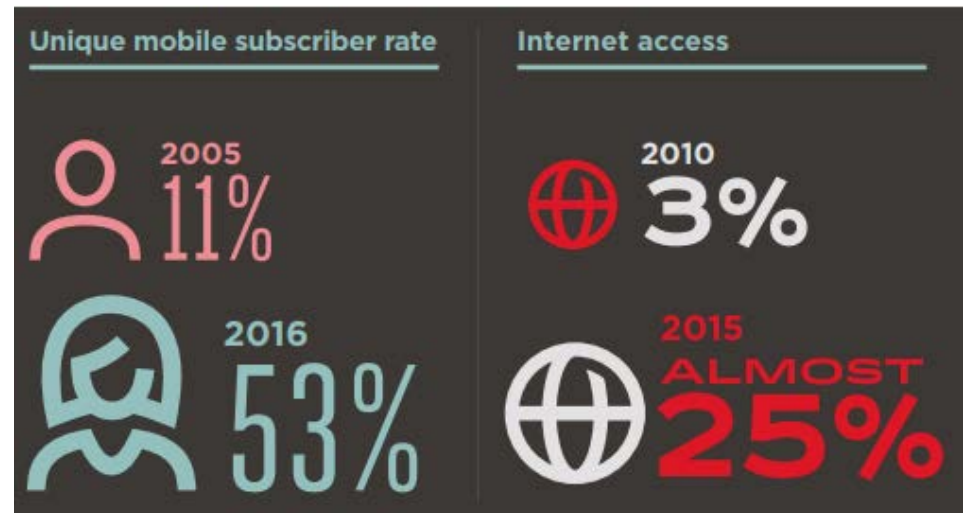
# WASH for Schools and Universities - 2018 -



- **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



# WASH for Schools and Universities - Moodle Box -

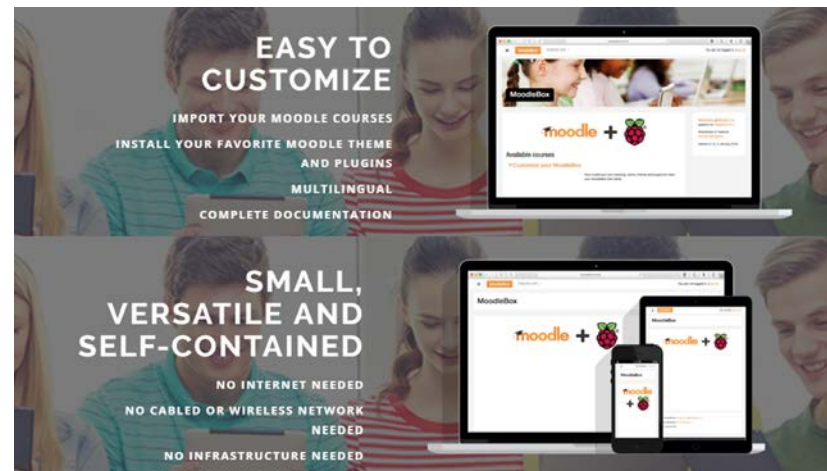


## ■ Raspberry Pie Hardware (~USD 90)

- 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

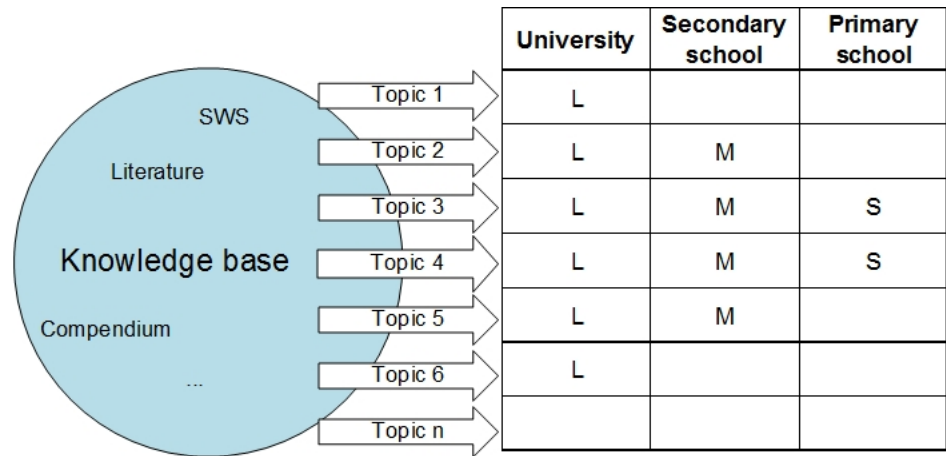
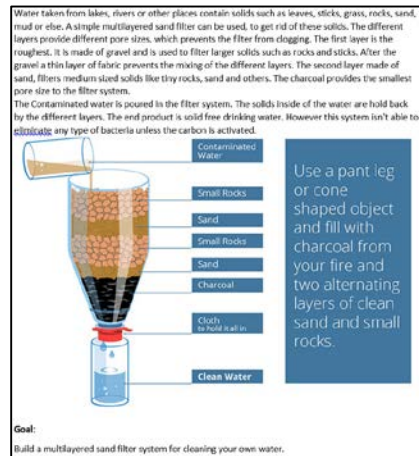
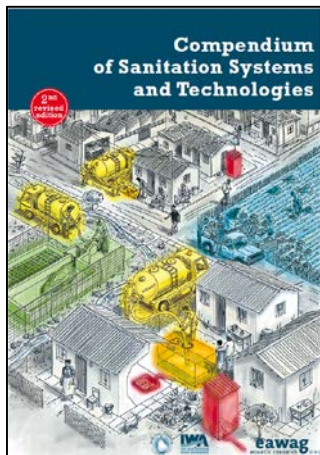




# WASH for Schools and Universities - Work in Progress -



- **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

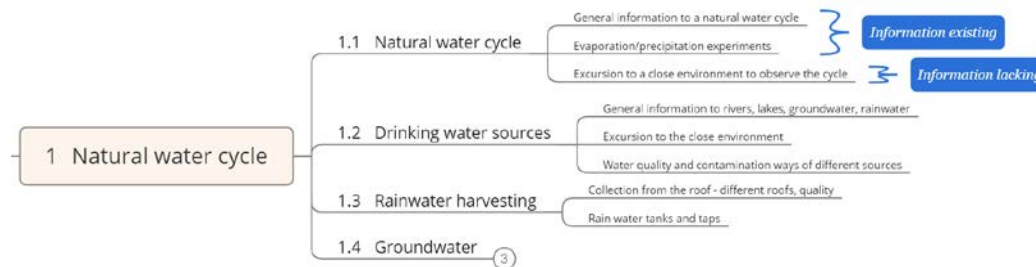


# WASH for Schools and Universities - Outlook 2019 -



## ■ 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