

**Consortium for  
Education and Research  
in Water, Sanitation and Hygiene**

**Claudio Valsangiacomo  
Mirko Winkler  
Argaw Ambelu**



**Swissuniversities  
Development  
and Cooperation  
network**



# 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



**n | w**

Fachhochschule Nordwestschweiz  
Hochschule für Life Sciences

Swiss TPH

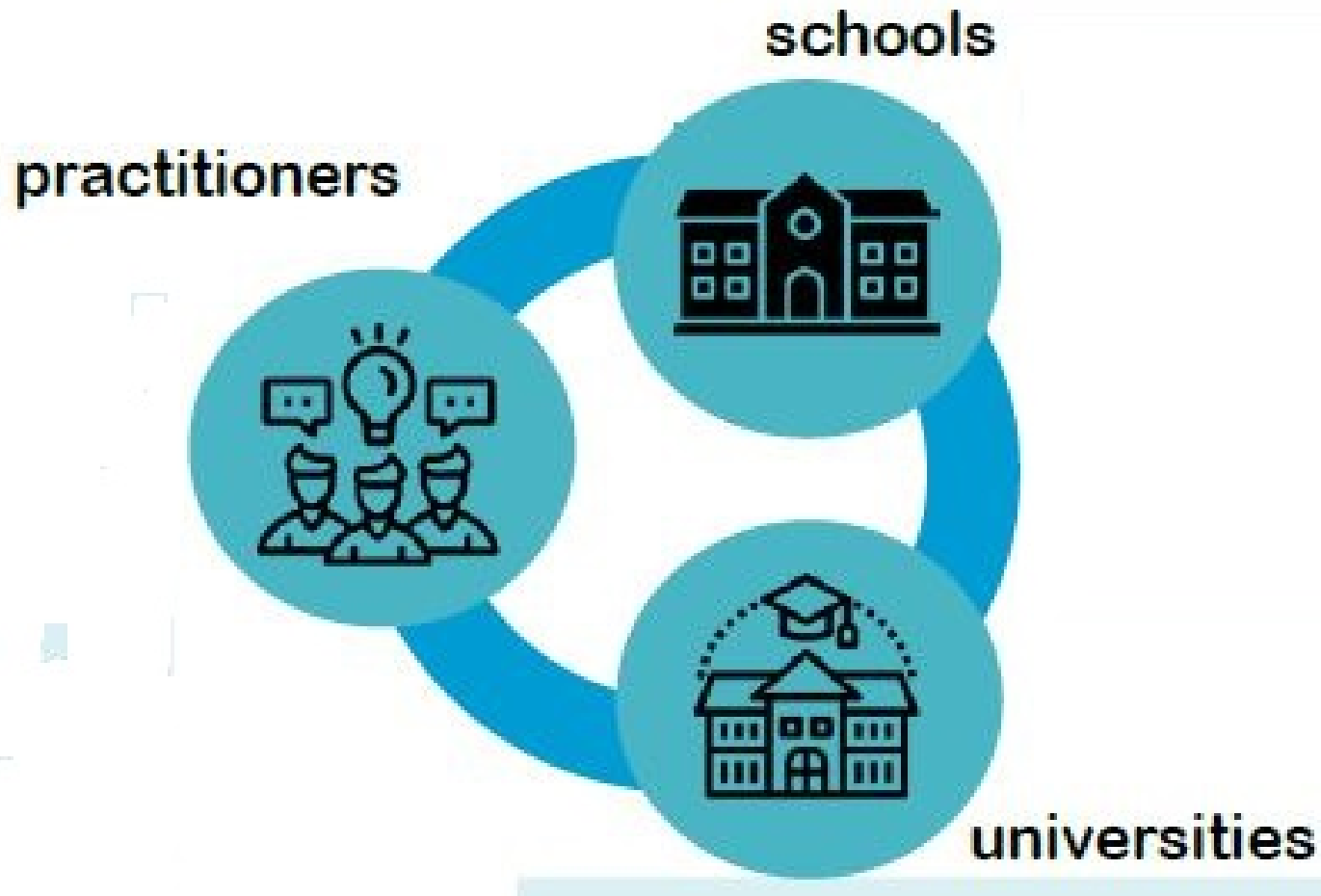




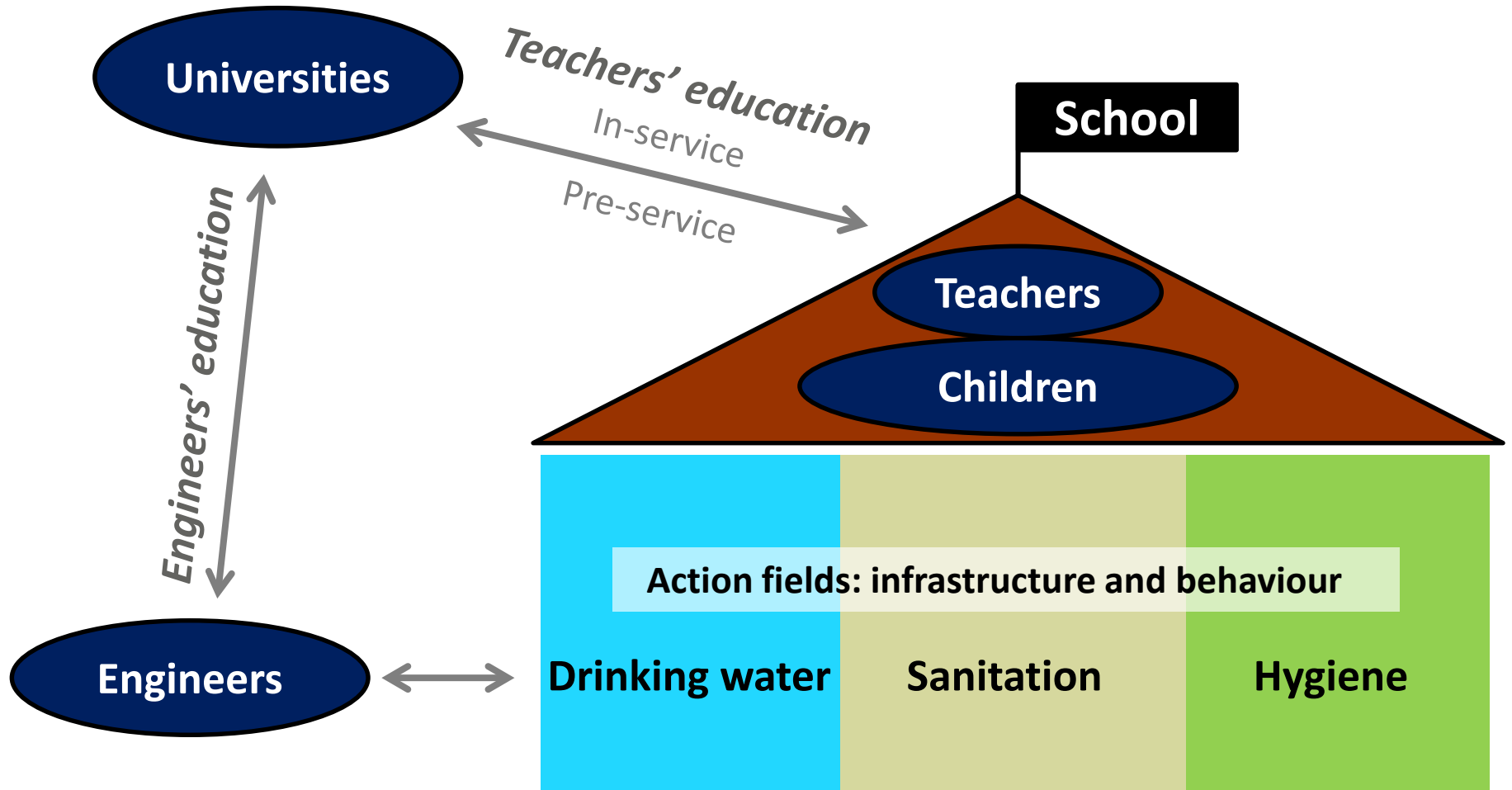
**COFER WASH** is an applied research initiative of seven academic institutions in Switzerland and two in Ivory Coast and Ethiopia. The project aims at developing solution-oriented educational tools for:

- Professionals in Sub-Saharan Africa
- Schools
- Universities

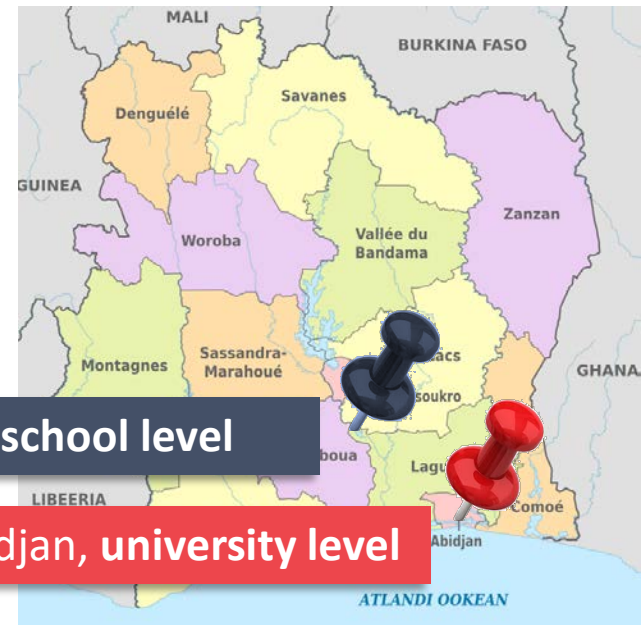
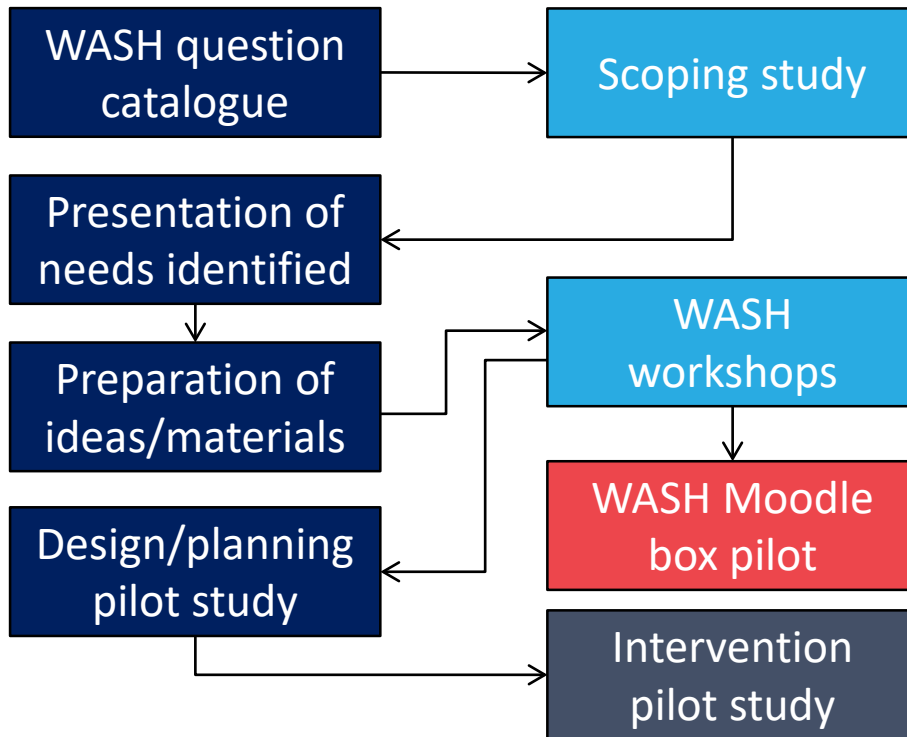
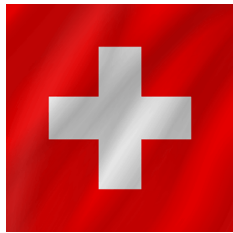




# WASH for schools in Côte d'Ivoire



# WASH for schools in Côte d'Ivoire



Taabo, school level

Abidjan, university level

# WASH scoping study, university level, Abidjan





# WASH scoping study, **school level**, Taabo



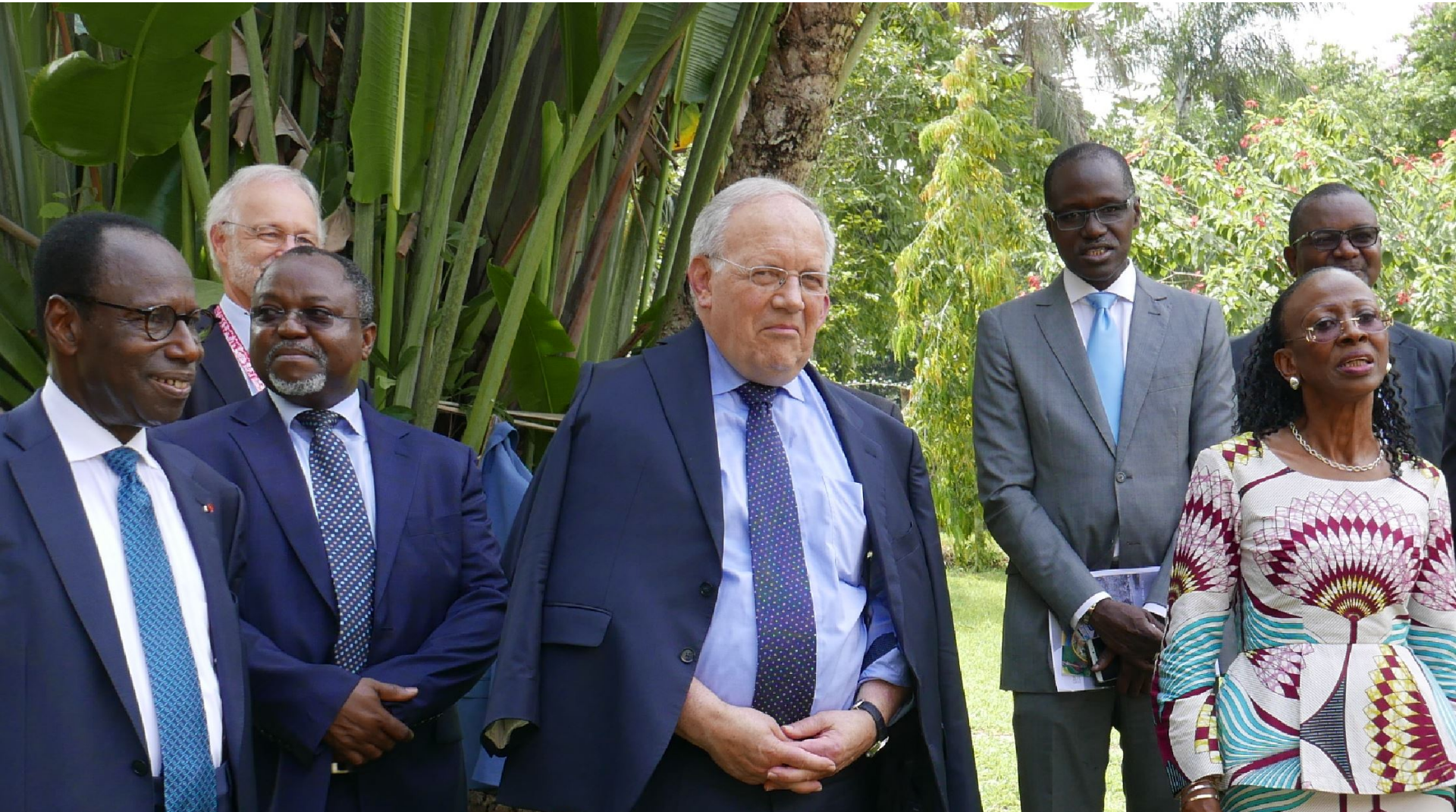


# WASH scoping study, **school level**, Taabo





# WASH scoping study in Côte d'Ivoire





# Presentation of needs and wishes identified at HSR (Hochschule für Technik Rapperswil)





# WASH workshop, **school level**, Taabo



# WASH workshop, **school level**, Taabo





# WASH workshop, **school level**, Taabo





# WASH workshop, university level, Abidjan





# WASH workshop, university level, Abidjan



# WASH Moodle box pilot, university level, Abidjan





# Design/planning pilot study



WASH Taabo  
Version 1\_04.07.2019

n|w Fachhochschule Nordwestschweiz  
Hochschule für Life Sciences

CSRS  
Centre Suisse de Recherches  
Scientifiques en Côte d'Ivoire

Swiss TPH  
Swiss Tropical and Public Health Institute  
Schweizerisches Tropen- und Public Health Institut

**Study Protocol**  
(Epi & non-clinical studies)

**“Water, Sanitation and Hygiene in Schools in Taabo, Côte d'Ivoire:  
Assessment of Infrastructure, Knowledge and Management Practices”**

<b>Type of Research Project</b>	Research projects (HRO) - Research projects – involving measures or sampling of biological material or collection of health-related data from persons.		
<b>Study acronyme/ID</b>	WASH Taabo		
<b>Protocol Version Nr</b>	V01	<b>Date</b>	4 July 2019
<b>Sponsor Contact</b>	swissuniversities Effingerstrasse 15 PO Box 3001 Bern		
<b>Project Leader / Responsible</b>	Dr. Mirko Winkler (PhD, DTM&H) Swiss Tropical and Public Health Institute (Swiss TPH) Socinstrasse 57 CH-4051 Basel +41 61 284 8339 mirko.winkler@swisstph.ch		
<b>Funding Agency</b>	swissuniversities Effingerstrasse 15 PO Box 3001 Bern		

**EKNZ**  
Ethikkommission  
Nordwest- und  
Zentralschweiz

Dr. Mirko Winkler  
Swiss Tropical and Public Health Institute  
Socinstrasse 57  
4051 Basel

Basel, 24.09.2019 / cb

**Statement of the Ethics Committee Northwest and Central Switzerland (EKNZ) according to HRA Art.51**

**Project-ID** Req-2019-00790

**Project title** Water, Sanitation and Hygiene in Schools in Taabo, Côte d'Ivoire; Assessment of Infrastructure, Knowledge and Management Practices

**Submission Date** 24/09/2019

**Applicant** Dr. Mirko Winkler

**Decision**

The research project doesn't fall under the remit of the cantonal or federal law HRA (Human Research Act), because your project please select an option. Therefore, the EKNZ cannot officially approve your project.

The EKNZ has reviewed the project on 24.9.2019 according to the ICH GCP guideline and confirms, that the project meets all requirements for a Swiss research projects, namely:

- Scientific validity of the research question, appropriateness of the scientific design and conformity to the GCP guideline;
- Favourable benefit-risk ratio;
- Process to obtain informed consent, including the appropriateness of the period for reflection;
- GCP Monitoring (only for clinical trials);
- Professional qualification of the research scientist involved in the project in Switzerland;
- Data protection and procedures to maintain confidentiality of the data and the samples.

Whether the project can be accepted from an ethical point of view, depends on local conditions and is the responsibility of the responsible local ethics committee. Following points could not be assessed by the EKNZ:

- Procedure and documentation for recruitment of study subjects, especially the information sheets and consent forms in the local language;
- The adequacy of the local infrastructure with regards to the best possible protection of the study subjects (material, premises, personnel etc.);
- Professional qualification of the research personnel in the local country;
- Local laws and regulations.

Geschäftsführerin Irene Oberli | Hebelstrasse 53 | 4056 Basel | Tel 061 268 13 50 | Fax 061 268 13 51 | eknz@ebs.ch | www.eknz.ch  
Page 1 / 3

# Intervention pilot study, **school level**, Taabo





# Intervention pilot study, **school level**, Taabo

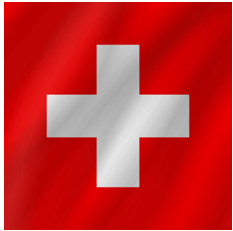


Intervention pilot study, **school level**, Taabo





# WASH for schools in Côte d'Ivoire



WASH question catalogue

Scoping study



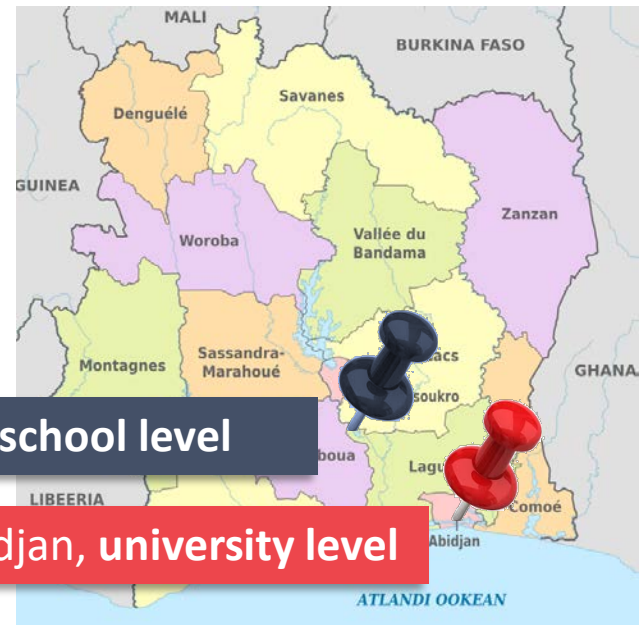
Source: <https://earthlymission.com/knights-of-the-round-ping-pong-table/>

pilot study

Intervention pilot study

Taabo, school level

Abidjan, university level



## CAS WASH

Certificate of Advanced Studies  
in Water Sanitation and Hygiene  
for humanitarian and developing  
contexts



**eawag**  
aquatic research ooo

**unine**  
UNIVERSITÉ DE  
NEUCHÂTEL

Welcome

Description

Programme

Registration

Team

### Welcome

This course is designed to empower practitioners with an understanding of the fundamentals of the WASH sector, both in the humanitarian and development context. It introduces students to the core principles for planning, designing and implementing activities to improve sustainable and equitable access to domestic water supply and sanitation services and to improve hygiene behaviours.

### Programme

#### Programme and Dates

- Module 1: **Drinking water and health**, 22–28 September 2019, Lugano-Canobbio
- Module 2: **Environmental sanitation**, 30 September–5 October 2019, Dübendorf
- Module 3: **Sustainable water supply**, 1–7 June 2020, Neuchâtel

### CONTACTS

**SUPSI, Centre for Development  
and Cooperation**  
Campus Trevano – Via Trevano  
CH-6952 Canobbio  
T +41 (0)58 666 62 62  
[dc@supsi.ch](mailto:dc@supsi.ch)





**Argaw Ambelu**

Argaw Ambelu is a full professor of Environmental Health at [Jimma University](#). He is working on WASH and Environment Project and consultant to different organizations on WASH and Resilience Measurements. He is supervision more than 10 PhD students on WASH and Environmental Contamination Remediation.

[Connect with Argaw Ambelu](#)



**Jamie Batram**

Jamie Bartram is Don and Jennifer Holzworth Distinguished Professor at the University of North Carolina at Chapel Hill where he is also director of the [Water Institute](#). He was formerly coordinator of water sanitation hygiene and health at the World Health Organization's headquarters.

[Connect with Jamie Batram](#)



**Marc-André Bünzli**

Marc-André Bünzli is an environmental hydrogeologist head of the Expert Group WASH of the [Swiss Humanitarian Aid](#) unit, the operational arm of the Swiss Agency for Development and Cooperation and vice-president of the scientific committee supervising the hydrogeological mapping of Chad.

[Connect with Marc-André Bünzli](#)



**Sergio Gelli**

Sergio Gelli works for the International Committee of the Red Cross- [ICRC](#), as the Energy Initiatives Senior Advisor to the Board of Directors. Before joining the ICRC and covering roles of progressive responsibilities in the field and at Headquarters where he was until 2018 Deputy Head of the Water and Habitat Unit he worked for various organisations as Consultant in Public Health engineering in the Humanitarian Sector.

[Connect with Sergio Gelli](#)



**Jürg Utzinger**

Jürg Utzinger is the Director of the [Swiss Tropical and Public Health Institute](#) and Professor of epidemiology at the [University of Basel](#). He is an expert on the epidemiology and control of neglected tropical diseases and health impact assessment of large infrastructure projects. He is engaged in transnational global health research consortia with ongoing collaborative projects in Côte d'Ivoire, China and elsewhere in Africa and Asia.











**COFER WASH**  
Water Sanitation Hygiene

Scuola universitaria professionale  
della Svizzera italiana

**SUPSI**

**eawag**  
aquatic research ooo

**unine**  
UNIVERSITÉ DE  
NEUCHÂTEL

Advanced Studies+  
Continuing education



**swissuniversities**