



## Sustainable Sanitation Newsletter

Newsletter on Sustainable Sanitation

By the GIZ Sector program "Sustainable Sanitation"

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Dear Readers,



Being part of the global movement to providing universal access to sustainable water and sanitation services by 2030, we need to challenge the status quo: What do we need to change in our approaches and way of thinking to accelerate sanitation provision and achieve universal coverage by 2030?

Zooming from the global agenda into the WASH Sector, the Kampala WASH Symposium recognised the critical need for WASH projects to engage the broader system beyond a single project and emphasized the importance of whole-system approaches, with governments at the core of the system, in contributing to the SDGs.

The Symposium, which took place from 20-23 June 2016 in Kampala, Uganda, successfully brought together sector experts from Africa and around the world and two major networks – the Sustainable Sanitation Alliance (SuSanA) and Sustainable WASH.org.

The need to work towards an "enabling environment" and engage with the different elements and actors of a national system to accelerate universal service provision was one of the key messages of the Symposium.

With German development cooperation's longstanding experience in supporting national systems strengthening for over a decade in a number of countries, GIZ can make an important contribution towards this endeavor.

Enjoy reading the outcomes of the Kampala WASH Symposium and the updates from our bilateral water and sanitation programmes in Africa, Asia, the Middle East and other parts of the world!

Kind regards,  
Arne Panesar

GIZ Sector Program Sustainable Sanitation  
[sanitation@giz.de](mailto:sanitation@giz.de)

### Contents

- Kampala WASH Symposium focused on WASH sustainability through whole system approaches
- Knowledge exchange meeting for GIZ water and sanitation programmes held in Kampala
- Two SFD workshops have taken place at the Kampala WASH Symposium
- Good-practice catalogue on rural sanitation published by GIZ Water Programme in Morocco
- New framework helps to assess the scaling-up potential of sanitation technologies
- Improving Faecal Sludge Management in Kampala by boosting private sector

### special announcement

["SFD-it's use and potential in the sanitation sector"](#). Join our meeting in Stockholm, 26 August 2016.

### Links

["City-wide sanitation services: recent thinking and experiences"](#)

Join our session at World Water Week 2016

["Equitable access to water and sanitation: sustainable growth for all"](#)

Join our session at World Water Week 2016

["WASHoholic Anonymous - Confessions of Failure and how to Reform"](#)

Join our session at World Water Week 2016

["Opportunities & Limitations of Market-based Programming to Address Humanitarian WASH Needs"](#)

Join our session at World Water Week 2016

["Upscaling the WASH-Nutrition Nexus for Sustainable \(Body\) Growth"](#)

Join our session at World Water Week 2016

["Smart Enforcement: the Key to Sustainable Urban Sanitation"](#)

Join our session at World Water Week 2016

engagement

- Baseline study with AkvoFlow in eight municipalities
- Climate-friendly sanitation services in peri-urban areas of Lusaka, Zambia
- Mobile app for household data collection in Lusaka developed
- School-based monitoring system for WASH scaled up by Department of Education
- Kick Off Workshop of the household sanitation programme “Bakana Kwes” took place in Yei, South Sudan
- Investment in sanitary pad machine to improve the life of menstruating girls and women
- Pushing forward the menstrual hygiene agenda
- Starting soon: New GIZ programme “Sanitation for Millions”
- TOI TOI and DIXI GmbH, one of the largest supplier of mobile sanitary solutions world-wide, has developed a composting toilet
- New Urban Sanitation Massive Open Online Course (MOOC) to start on 17 October 2016
- Study assesses costs of WASH-related targets of SDG 6
- Terra Preta Sanitation conference took place in Goa, India

## Uganda

### Kampala WASH Symposium focused on WASH sustainability through whole system approaches



From June 20-23 2016, the Kampala WASH Symposium took place in Uganda. Supported by GIZ, UNICEF, IRC, Aguaconsult, the Ugandan Ministry of Water and Environment, the Sustainable Sanitation Alliance (SuSanA), Global Water Challenge, Sustainable WASH.org, USAID and the Water and Development Alliance, the symposium focused on WASH sustainability through whole systems approaches.

The symposium brought together the

21st SuSanA meeting and the 2016 WASH Sustainability Forum.

More than 200 practitioners as well as experts from both the public and private sector and academia attended the Symposium to explore methods for evaluating the context in which WASH interventions occur and how the whole system can be engaged with to ensure that services last over time.

GIZ contributed two case studies that were presented at the Symposium: the Sanitation Sector Reform in Kenya presented by the Water Services Trust Fund and solid waste management system change in the capital city of Uganda as a potential model for the sanitation sector presented by the Kampala Capital City Authority. Both case studies explored how different aspects of whole system approaches were accomplished and how they can serve as examples.

On June 23, GIZ's Reform of the Urban Water and Sanitation Sector Programme (RUWASS) organised a field trip of the whole sanitation value chain: emptying, transport, treatment and reuse of faecal sludge. It included an emptying session with a manual gulper as well as the visit of the Lubigi Sewerage Treatment Plant and a briquette production plant.

- Contact: [Dieter Anders](#) (GIZ) and [Arne Panesar](#) (GIZ)
- Full documentation soon available [here](#) and [here](#).
- [Find more information about the Kampala WASH Symposium and the 21st SuSanA meeting on the SuSanA Discussion Forum](#)

top

## Uganda

### Knowledge exchange meeting for GIZ water and sanitation programmes held in Kampala

[Documentation of the CSE Workshop on Mainstreaming Citywide Sanitation: Opportunities and Challenges for Excreta Management](#)

[SuSanA Case Study “Upscaling Basic Sanitation for the Urban Poor \(UBSUP\)”](#)

[Documentation of the International conference on innovations in sustainable water and wastewater treatment systems \(ISWATS\)](#), Pune, India

## Audio, photos and videos

[Recording of the SuSanA webinar “Opportunities and challenges of achieving WASH behaviour change”](#)

[Recording of the SuSanA webinar “Collaborative monitoring, a prerequisite to achieve universal access to WASH”](#)

[Recording of the SuSanA webinar “Of Faeces and Icebergs – Sanitation, Organizational Neurosis and Change”](#)

## Upcoming events

11.7. – 15.7.2016  
[39th WEDC International Conference](#)

18.7. – 22.7.2016  
[6th Africa Water Week](#)

26.8.2016  
[SFD – it's use and potential in the sanitation sector](#)

27.8.2016  
[22nd meeting of the Sustainable Sanitation Alliance \(SuSanA\)](#)

29.8. – 2.9.2016  
[Stockholm World Water Week](#)

9.10. – 13.10.2016



On 24 June 2016, following the Kampala WASH Symposium, GIZ's Reform of the Urban Water and Sanitation Sector Programme (RUWASS) organised a one day knowledge exchange and learning meeting in Kampala for German

bilateral water and sanitation programmes.

The meeting was attended by GIZ colleagues from Kenya, Tanzania, Uganda, Zambia, Zimbabwe, Bolivia, India and the sector programme sustainable sanitation.

The meeting focused on the conclusions of the first up-scaling readiness assessments (Tanzania, Bolivia), and experiences with town and city sanitation planning from Uganda and India as well as Faecal Sludge Management.

The meeting highlighted several synergies of new and existing approaches and useful collaboration opportunities between GIZ programmes.

[top](#)

- Contact: [Dieter Anders](#) (GIZ)
- [Presentations of the meeting are available in DMS](#) (for GIZ colleagues only)

## Uganda

### Two SFD workshops have taken place at the Kampala WASH Symposium



Two SFD (so-called Shit Flow Diagrams) workshops were held at the Kampala WASH Symposium, on June 24 2016. One workshop, organised by GIZ (on behalf of the SFD Promotion Initiative) introduced the overall SFD approach to its participants. Starting with the background (why is there a need for SFDs?) it gave an overview of the

options of application, the methodology itself and the tools already available and upcoming. The workshop's highlight was an exercise in which participants were supported to make an SFD themselves within the session.

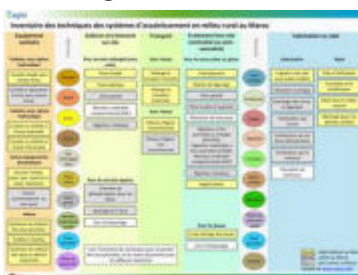
The second workshop was an invitation only session, organised by GIZ and the Kampala Capital City Authority, introducing the draft SFD of Kampala to the city's stakeholder. The number of participants and the variety of stakeholders within the workshop as well as the feedback regarding the usability of the SFD in further processes can be considered as a remarkable success.

[top](#)

- Contact: [Susanne Bieker](#) (GIZ)
- [SFD-Presentation](#)

## Morocco

### Good-practice catalogue on rural sanitation published by GIZ Water Programme in Morocco



The GIZ Programme on Integrated Water Resources Management in Morocco is assisting the Government of Morocco in the preparation of a National Programme on Rural Sanitation. As part of this endeavour, pilot projects have been implemented and a good-practice catalogue on solutions for rural sanitation with about 30 technical data sheets has been

compiled with practitioners' information on different types of rural sanitation and reuse technologies. The catalogue is available in French.

[top](#)

- Contact: [Christine Werner](#) (GIZ)
- Contact: [Mohammed el Ghali el Khyati](#) (GIZ)
- [Catalogue on rural sanitation solutions](#)

## [IWA World Water Congress & Exhibition 2016](#)

17.10.2016 – 20.10.2016

[Habitat III - United Nations Conference on Housing and Sustainable Urban Development](#) in Ecuador

29.11. – 1.12.2016

[7th Rural Water Supply Network \(RWSN\) Forum](#)

February 2017

[4th International Faecal Sludge Management Conference \(FSM4\)](#)

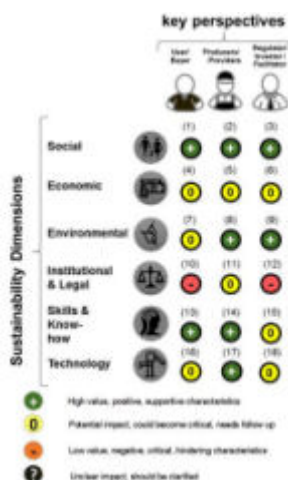
## Jobs

[Intern \(m/f\) in the Sector Program Sustainable Sanitation](#)

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## Afghanistan

### New framework helps to assess the scaling-up potential of sanitation technologies



Whether or not an innovation works in a given context depends on a number of criteria. The Technical-Applicability-Framework (TAF) developed by SKAT (Switzerland) helps to better understand these criteria and assess the scaling-up potential of WASH technologies. It was tested on DEWATS – decentralized wastewater treatment solutions – developed by the German NGO BORDA on facilities in Kabul, Afghanistan.

top

- Contact: [Younes Hassib](#) (GIZ)
- [More information about the Technical-Applicability-Framework \(TAF\)](#)
- [More information about DEWATS](#)
- [Report “Recommendations concerning the scaling-up-potential of BORDA-DEWATS wastewater treatment in the urban context of Kabul, Afghanistan”](#) (PDF, 0.5 MB)

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## Uganda

### Improving Faecal Sludge Management in Kampala by boosting private sector engagement



The Resource Recovery and (Safe) Reuse (RRR) Project Phase II implemented by GIZ's Reform of the Urban Water and Sanitation Sector Programme (RUWASS) and co-funded by the Swiss Development Cooperation (SDC) is supporting Kampala Capital City Authority (KCCA) to improve Faecal Sludge

Management (FSM) in Kampala through the creation of an enabling environment that boosts private sector engagement in the sanitation sector. Various FSM measures are going to be tested in five wards of the city over a period of nine months. Activities include: city zoning into faecal sludge collection zones, faecal sludge transfer stations and gulper promotion, establishment of a sanitation services call centre, service level agreements with and performance-based subsidies for private cesspool emptiers and sanitation marketing.

top

- Contact: [Janka Rokob](#) (GIZ)
- [KCCA \(2015\): Framework Conditions for Private Service Delivery in Faecal Sludge Management in Kampala](#)
- [KCCA \(2015\): Inventory for Formal and Informal Faecal Sludge Emptiers and the Resource Recovery and Reuse \(RRR\) Private Sector in Kampala](#)
- [KCCA \(2016\): An Inventory of Community Toilets - Kawempe Division](#)
- [KCCA \(2016\): An Inventory of Community Toilets - Rubaga Division](#)

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## Burkina Faso

### Baseline study with AkvoFlow in eight municipalities



As part of the activities of GIZ's new Water and Sanitation Programme in Burkina Faso, a baseline study has been launched in 8 municipalities in May 2016. The data will be collected by municipal technicians through AkvoFlow – a smartphone-based field survey tool. The results of this baseline study will be used to update

the communal development plans and develop communal strategies to promote hygiene, sanitation and faecal sludge management.

[top](#)

- Contact: [Wilhelm Kohlbus](#) (GIZ)
- [Project website](#)
- [Survey results](#)
- [More about Akvo Flow](#)
- [Documentation of the baseline study \(in French\) \(ZIP, 2.7 MB\)](#)

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## Zambia

### Climate-friendly sanitation services in peri-urban areas of Lusaka, Zambia



Starting in October 2016, GIZ's water sector reform programme in Zambia will provide additional technical assistance (TA) on sanitation to the Lusaka Water and Sewerage Company (LWSC). The new TA project is part of the greater scheme of the Lusaka Sanitation Programme (LSP), a 200 million USD

infrastructure investment funded by four development banks.

The project, funded by the German Climate and Technology Initiative (GCTI), will support the development of the urban sanitation subsector and establish the prerequisites for increased access to climate-friendly sanitation. It covers the development of climate-friendly Faecal Sludge Management (FSM) systems, stakeholder coordination, capacity building and environmental health monitoring and enforcement.

A recent study trip to GIZ's Upscaling Basic Sanitation for the Urban Poor (UBSUP) programme in Kenya has informed the planning process of the GCTI project including the innovative use of ICT tools.

[top](#)

- Contact: [Conrad Thombansen](#) (GIZ)

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## Zambia

### Mobile app for household data collection in Lusaka developed



GIZ is supporting the Millennium Challenge Account-Zambia (MCAZ) and Lusaka Water and Sewerage Company (LWSC) with an ICT tool to

carry out the Socio-Economic Census of Households in Mtendere, Lusaka. This is a requirement for the 32.4 million USD MCAZ-funded water and sewerage network project in that area. For this purpose, a mobile app for the household data collection has been developed and 40 enumerators will collect the data of over 10,000 households within 45 days. This is the first module of the 'Sani-App' which will be used to track and monitor sanitation access in peri-urban Lusaka.

[top](#)

- Contact: [Conrad Thombansen](#) (GIZ)

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## Philippines

### School-based monitoring system for WASH scaled up by Department of Education





As part of GIZ's Fit for School programme in the Autonomous Region in Muslim Mindanao (ARMM), the Department of Education is scaling up a WASH in Schools monitoring system based on the Three Star Approach. The school-based monitoring system follows a step-wise approach for schools to meet national WASH

standards. Through a mobile app, schools fill in a WASH survey and receive direct feedback about the next steps to take to realize national standards. This way, schools can take simple and feasible actions to improve WASH without significant external resources. The system particularly emphasizes functionality and regular cleaning and maintenance of facilities. The information which is input into the system will be linked to an accreditation system to provide performance-based incentives to School Heads to improve their WASH status and to publicly recognize the efforts made by school communities to reach national standards for WASH in Schools.

top

- Contact: [Bella Monse](#) (GIZ)
- [Project Website](#)
- [Presentation "3-Star Approach Monitoring: Example DepEd ARMM, Philippines"](#) (PDF; 0.6 MB)

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## South Sudan

### Kick Off Workshop of the household sanitation programme "Bakana Kwes" took place in Yei, South Sudan



On 10th May 2016 the household sanitation programme "Bakana Kwes" was officially launched in Yei, South Sudan.

The programme anticipates the construction of 50 pro-poor facilities for households in urgent need of sanitation and an additional 200 facilities at the household level which will be partly subsidised by the GIZ

technical assistance programme "Development of the Urban Water and Sanitation Sub-sector" (DUWSS).

DUWSS is supporting the water and sanitation supply by providing institutional and capacity development as well as by show-casing and constructing improved sanitation facilities.

top

- Contact: [Anke Peine](#) (GIZ)
- [Factsheet on Sanitation and Hygiene Practices in Yei Municipality](#)
- [Summary of the Kick-off Workshop for the Household Sanitation Programme in Yei](#) (PDF; 0.4 MB)

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## Nepal

### Investment in sanitary pad machine to improve the life of menstruating girls and women



In several Low and Middle Income Countries (LMIC), sanitary products and hygiene facilities for menstruating women and girls are either unavailable or inadequate. To improve the situation in Nepal, GIZ's Support to the Health Sector Programme (S2HSP) has recently purchased a low cost sanitary pad machine developed by Arunachalam Muruganatham (also

known as "the Menstruation Man") to help establish production units in rural communities in GIZ-supported districts in Nepal. This project aims to not only provide women with options to manage menstruation but also empower them

economically.

top

- Contact: [Valerie Broch Alvarez](#) (GIZ)
  - [Article about the S2HSP programme on the BMZ website](#)
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#### Global

### Pushing forward the menstrual hygiene agenda

Recent years have seen innovative solutions from around the world aimed at helping women to have safe periods. These include the low cost sanitary pad machine developed by the Indian Arunachalam Muruganatham (also known as “the Menstruation Man”). Through this machine women can not only gain easy access to sanitary pads at a low cost but also earn money, as it is run by women for women. The “Menstruation Man’s” machine has been replicated many times: as of now, there are 1,300 machines in 27 states in India.

Recently, the machine has also been exported to other parts of the world. GIZ’s Support to the Health Sector Programme (S2HSP) in Nepal, for instance, has purchased the machine with the idea of creating an inclusive business model by establishing sanitary pad production units in rural communities in GIZ-supported districts. Also, the machine has been replicated by Swati Bedekar (based in India) in order to produce machines for Loving Humanity, a UK-based NGO working with Syrian refugees in Za’atari refugee camp, Jordan.

GIZ’s sustainable sanitation programme would like to take this agenda forward and will be supporting and connecting innovative ideas in Menstrual Hygiene Management from across the world via the SuSanA online platform.

top

- Contact: [Arne Panesar](#) (GIZ)
  - [News Article about the Indian Sanitary Pad Revolutionary](#)
  - [Information about Loving Humanity](#)
  - [Link to the SuSanA Discussion Forum](#)
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#### Global

### Starting soon: New GIZ programme “Sanitation for Millions”

To accelerate access to sanitation and water services in the context of the international refugee crisis, GIZ developed the “Sanitation for Millions” Programme. This global programme is awaiting the final approval from BMZ and will be the basis for a multi-donor initiative to address the global challenges of access to water and especially sanitation services. BMZ is expected to support a first phase of three years, promoting access to sanitation services and hygienic conditions for persons especially within countries facing large migration movements.

The GIZ sector programme “International Water Policy” is currently preparing the ground for a swift start of the implementation by identifying GIZ water programmes that see possibilities to incorporate components within their existing programmes to improve hygienic behaviour and access to sanitation in schools, and increase the access to public toilets in cooperation with mosques, churches and municipalities.

top

- Contact: [Ulrike Pokorski da Cunha](#) (GIZ) and [Maarten van der Ploeg](#) (GIZ)
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#### Germany

**TOI TOI and DIXI GmbH, one of the largest supplier of mobile sanitary solutions world-wide, has developed a composting toilet**



In March 2016, the GIZ Sector Programme Sustainable Sanitation was invited by the TOI TOI and DIXI GmbH to visit their manufacture in Gerstungen, Germany.

In Gerstungen, the TOI TOI and DIXI GmbH, which is part of the ADCO Holding, is producing polyethylene toilet cabins by means of the rotation moulding process and designing and creating service vehicles with tanks for sewage and water as well a space to transport toilet cabins.

Recently, the TOI TOI and DIXI GmbH has developed a composting toilet that is going to be field tested soon.

top

- Contact: [Arne Panesar](#) (GIZ)
- [More information about TOI TOI & DIXI](#)
- [More information about the rotation moulding process \(only in German\)](#)

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## Global

### New Urban Sanitation Massive Open Online Course (MOOC) to start on 17 October 2016



Eawag-Sandec in collaboration with École Polytechnique Fédérale de Lausanne, the World Bank Global Water Practice and the World Health Organisation are launching a revamped online course covering the issue of citywide inclusive sanitation. Building on Eawag's Compendium of

Sanitation Systems and Technologies as well as different sanitation planning approaches, it will include recent developments such as sanitation safety planning, shit flow diagrams (SFDs) and feature best practice examples of urban sanitation practice.

The 5-week course is free of charge and participants receive a Statement of Accomplishment after successful completion. The course will be simultaneously running in English and in French with Spanish and Hindi subtitles. To sign up, visit: [www.coursera.org](http://www.coursera.org).

top

- Fabian Suter (Eawag-Sandec): [fabian.suter@eawag.ch](mailto:fabian.suter@eawag.ch)
- Website: <http://www.eawag.ch/mooc>

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## Global

### Study assesses costs of WASH-related targets of SDG 6



A study by the Water and Sanitation Program at the World Bank assesses the global costs of meeting the water, sanitation, and hygiene related targets of Sustainable Development Goal 6. It finds that current levels of financing can cover the capital costs of achieving universal basic service for drinking water, sanitation, and hygiene by 2030, provided resources are targeted towards the needs. Achieving a higher level of service, however, requires additional financing on the order of three times current spending. The study stresses that besides capital inflows, it is important to strengthen

institutions and regulations in order to achieve sustained universal coverage.

top

- Contact: [William Kingdom](#) (Worldbank) and [Guy Hutton](#) (UNICEF)



- [The Costs of Meeting the 2030 Sustainable Development Goal Targets on Drinking Water, Sanitation, and Hygiene](#)

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## Global

### Terra Preta Sanitation conference took place in Goa, India

The second international conference on Terra Preta Sanitation took place from 18-21 November 2015 in Goa, India. Organised by the Hamburg University of Technology and the Birla Institute of Technology & Science—Pilani, some 80 participants from all over the world presented in their research on e.g. Terra Preta soils and fertility, Terra Preta sanitation systems and design, carbon composting of biowaste and excreta, lactic acid fermentation and constructed wetlands.

[top](#)

- Contact: [Torsten Bettendorf](#) (TUHH)
  - [Conference Website](#)
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GIZ is a partner of the [Sustainable Sanitation Alliance](#) (SuSanA) - a loose network of 271 organisations active in the field of sustainable sanitation.



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- Using AkvoFlow – a smartphone-based field survey tool © GIZ Burkina Faso
- Zambian sanitation sector stakeholders visit decentralised wastewater treatment plant in Nakuru, Kenya © GIZ Zambia
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