



## Sustainable Sanitation Newsletter

Newsletter on Sustainable Sanitation  
By the GIZ Sector program "Sustainable Sanitation"

Issue no. 50  
February 2017

Dear Readers,



If we don't have a word for a problem, it is difficult to address and solve it. The "WASHaLOT" could therefore be a helpful word! The picture above shows Daniela Krahl (BMZ) and I using a WASHaLOT, a group handwashing facility.

This facility not only allows groups of pupils to regularly wash their hands, but also allows educators to address the topic of cleanliness and sanitation infrastructure in schools on a different level. It can support the process of breaking the taboo around sanitation by reducing the dropout rate among girls from schools due to lack of sanitation. [Here](#) is a link with more information.

This newsletter focuses on "gender and sanitation" and I am happy that we can present to you a number of gender-related contributions from a range of projects where a gender sensitive approach has been implemented. Another great piece of good news is about the new graphic generator, which helps you create a Shit Flow Diagram (SFD) Graphic. Through the input of data in an automated way, we have come one step closer towards a "computer game for sanitation systems thinking." See below and have fun testing and using it to promote more holistic sustainable sanitation approaches in cities.

It is time to celebrate! This is not only the 50th newsletter brought to you by the GIZ-Sanitation Program, but this year as well, we celebrate the 10th Anniversary of the Sustainable Sanitation Alliance. We started celebrating the anniversary during an extended core group meeting in Eschborn, Germany on the 17th of January 2017. The theme of the anniversary was, "10 years SuSanA: How the changed sanitation paradigm contributes to the Sustainable Development Goals." I want to sincerely thank everyone who joined the anniversary in Eschborn and online through our live stream. Stay tuned! More information, presentations and photos from the event will be made available soon here.

Enjoy reading this newsletter and Happy 2017 from the Sector Program

### special announcement

[For more information about SFD methods and tools.](#)

Please give us your comments, feedback and ideas on the revised SuSanA vision document [here](#).

### Audio, photos and videos

[SFD Meeting at Stockholm Water Week 2016 – Session 1](#)

[SFD Meeting at Stockholm Water Week 2016 – Session 2](#)

[SFD Meeting at Stockholm Water Week 2016 – Session 3](#)

[Voices on SFD](#) (Short-Interview series on SFDs)

[Here](#) you will find the pictures of the SuSanA anniversary celebrations that took place in Eschborn.

[22nd SuSanA Meeting at Stockholm Water Week 2016 – Session 1](#)

[22nd SuSanA Meeting at Stockholm Water Week 2016 – Session 2](#)

[22nd SuSanA Meeting at Stockholm Water Week 2016 – Session 3](#)

"Sustainable Sanitation" team!

Kind regards,  
Arne Panesar

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

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## Germany

### SuSanA 10th Anniversary Celebration



SuSanA celebrated its 10th Anniversary at the GIZ Headquarters in Eschborn, Germany on the 17th of January 2017. The theme of the anniversary was, "10 years SuSanA: How the changed sanitation paradigm contributes to the Sustainable Development Goals"

Present at the event were key-donors, core group members and active SuSanA partners. A variety of speeches and presentations on the last ten years of SuSanA's work were held, one or two anecdotes were highlighted and SuSanA's milestones and impacts on the field of sustainable sanitation was carved out. During the celebration, the final draft of the updated SuSanA Vision Document 'SuSanA Vision 2030: Contribution to Agenda 2030 for Sustainable Development' was for the first time, presented to the public. This document contains views on

[22nd SuSanA Meeting at Stockholm Water Week 2016 – Session 4](#)

[22nd SuSanA Meeting at Stockholm Water Week 2016 – Session 5](#)

[22nd SuSanA Meeting at Stockholm Water Week 2016 - Flickr Photostream](#)

## Upcoming events

17.02.2017 – 18.02.2017  
[23rd SuSanA Meeting](#)  
Chennai, India

19.02.2017 – 22.02.2017  
[FSM4 – 4th International Faecal Sludge Management Conference](#)  
Chennai, India

25.02.2017 – 27.02.2017  
[WasteSafe 2017: 5th International Conference on Solid Waste Management in South Asian Countries](#)  
Khulna, Bangladesh

19.03.2017 – 23.03.2017  
[4th Arab Water Week](#)  
Dead Sea, Jordan

22.03.2017  
[World Water Day](#)  
Global

23.04.2017 – 25.04.2017  
[3rd International Conference & Exhibition on Sustainable Water Supply and Sanitation](#)  
Cairo, Egypt

09.06.2017  
[WASRAG's World Water Summit 9](#)  
Atlanta, USA

27.08.2017 – 01.09.2017  
[World Water Week 2017](#)  
Stockholm, Sweden

the shift from the MDGs to the SDGs, continuing challenges and new opportunities for SuSanA, Sanitation interlinkages across the SDGs and SuSanA's objectives and goals.

- Contact: [Arne Panesar](#) (GIZ)
- SuSanA [Website](#) and [Forum](#)
- [Further information on the event](#)

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30.10.2017 – 03.11.2017  
[Amsterdam International Water Week](#)  
Amsterdam, Netherlands

## Kenya

### Seven Decentralised Treatment Facilities ready for sludge!



Access to sanitation in Kenya is a major challenge. Only 30% of the population have access to improved sanitation systems. In Kenya's urban areas, 16% are connected to sewers. The remaining 84% resort to other means of Faecal Sludge Management (FSM).

To tackle the FSM challenges in Kenya's urban areas, a different approach was needed. The Program "Up-scaling of Basic Sanitation for the Urban Poor" (UBSUP) was developed with the purpose of offering sustainable sanitation to residents of low income urban areas. The UBSUP approach ensures a complete sanitation value chain by providing and promoting basic sanitation technologies and services from improved toilets to safe transport and decentralised treatment for the collected faecal sludge.

One focus of the program is the implementation of Decentralised Treatment Facilities (DTFs) which are small scale decentralized wastewater treatment plants catering to sludge from dry and wet toilets. The main objective of the DTFs is to treat and reduce the pathogen levels in the effluent to a standard that is environmentally safe. The design promotes resource oriented sanitation, incorporating components for processing sludge by-products.

To date, UBSUP has successfully completed seven Decentralised Treatment Facilities (DTFs) catering to 80,000 beneficiaries. Before the construction of the DTFs, an environmental and social impact assessment was required to ensure the involvement of the community. Both genders were equally represented in the decision making process and their opinions played a role in the acceptance of the DTFs in the various town and communities. Now that the DTFs are currently undergoing the commissioning phase, the UBSUP programme has taken measures to promote gender balance in the operation and maintenance of the infrastructure.

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- Contact: [Alexandra Dubois](#) (GIZ), [Charlotte Nyatichi](#) (GIZ), [Doreen Mbalu](#) (GIZ)
- [For more information about UBSUP](#)
- [SuSanA online discussion forum thread](#)

## Indonesia

### UNICEF-GIZ 5th WASH in Schools International Learning Exchange (ILE) in Jakarta



On 14 - 18 November 2016, 160 experts from 16 Asian countries came together in Jakarta to exchange their experiences regarding innovative WASH in Schools (WinS) approaches. This year's 5th WASH in Schools International Learning Exchange (ILE) was hosted by the Indonesian Ministry of Education and Culture with support

from UNICEF and GIZ.

The conference concluded with a general agreement among participants that WinS goes beyond building toilets and providing water supply. Ensuring WinS

requires clear arrangements for cleaning and maintenance, providing supplies, changing hygiene behaviours, along with monitoring, financing, and coordination at each level. Moreover, political will and leadership from the education sector are key ingredients, as is the involvement of parents and communities. While the issues are broad and approaches to addressing them depends on the context of the respective countries, future ILEs will continue to provide concrete ideas for enhancing the effectiveness of WinS.

A comprehensive conference report covering the discussions and teachings is foreseen to be released in early 2017 by the GIZ Sector Programme Sustainable Sanitation.

[top](#)

- Contact: [Bella Monse](#) (GIZ)
  - [UNICEF-GIZ ILE WinS Background note](#)
- 

## Uganda and India

### Genderised WASH in health care facilities



The overall data collected and assessed by an interdisciplinary two-year (2014-2016) research project on genderised WASH in health care facilities, funded by the Swiss Network for International Studies (SNIS), Geneva, has led to the formulation of needs-based, gender-sensitive, technically appropriate and socially acceptable solutions to the problems

identified at the health care facilities.

The results from three different assessment tools were shared with the corresponding stakeholders from the medical departments, management and health authorities and are the basis of two policy briefs for decision makers in India and Uganda. A video and an academic article are in production as further project outcomes. The publications will be relevant for health care managers, health authorities, and the local communities. They will be made accessible to relevant actors at local, regional and national levels.

[top](#)

- Contact: [Christoph Luethi](#) (EAWAG)
  - [Website Strategic Environmental Sanitation Planning](#)
  - [More information on the research project](#)
- 

## Kenya

### First Water Week held in Kenya



In recognition of the global shift from Aid to Trade, sustainable financing and development, the Kenyan Ministry of Water and Irrigation together with the Water Services Trust Fund (WSTF), KEWASNET, KEWI and other collaborating institutions organised the 1st Annual Kenya Water Week 2016 (KEWAWK) to provide a dynamic water business and innovation networking

opportunity for key public and private water sector players with the ultimate result of matching sector challenges to solutions.

The conference brought together government institutions, water utilities, research and academic Institutions, private sector, non-governmental organisations among others from around the world. During the conference, WSTF launched the first edition of Maji Insight. Maji Insight is WSTF's annual publication highlighting the progress and impact of the work of the water and sanitation institutions in various counties across the country.

[top](#)

- Contact: [Simon Okoth](#) (Waterfund Kenya), [Doreen Mbalo](#) (GIZ)



- [Link to conference website](#)
- [Link to Water Services Trust Fund \(WSTF\)](#)

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## Jordan

### Developing gender-sensitive prototypes and extracurricular activities for improved water and hygiene management in public schools



In light of the Syrian refugee crisis and the increased number of Syrian students in the Jordanian educational system, the Jordanian government introduced a second shift of classes in 98 schools affected by the influx of refugees. Some of these schools had previously been run as all girls' schools only. Opening a second shift of classes for both boys and girls has

consequently resulted in increased dropout rates, particularly among girls, as there has been a lack of gender-separated toilets due to the co-ed schooling.

On behalf of BMZ, the GIZ project "WASH+" develops prototypes for water-efficient and low-maintenance sanitary facilities in these schools. The project always takes gender sensitivity into account. All designs consider gender-separated toilets according to WHO guidelines, accessibility of restrooms from inside the school building and the extension of restrooms to adapt to increasing student numbers.

Complementary to the rehabilitation of sanitary facilities, the project develops extracurricular activities in sports, arts/culture, science/environment and WASH. In all activities, both girls and boys are encouraged to jointly participate. The WASH activities, particularly topics like menstrual hygiene management, are challenging to implement, as they are highly culturally sensitive.

To solve this problem, the WASH activities are integrated into the sports, arts and environment activities and developed jointly with the Ministry of Education. This allows for the integration of rather sensitive issues into the daily routine of school children and thus achieves gender-related positive results without necessarily putting a strong gender label on them.

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- Contact: [Ismael Nouns](#) (GIZ)
- [GIZ WASH+ Project Website](#)
- [GIZ WASH+ Factsheet \(PDF: 0.3 MB\)](#)
- [GIZ Toolbox - Promoting equal participation in gender in sustainable sanitation \(PDF: 3.5 MB\)](#)

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## Europe, the Caucasus and Central Asia

### Manual for gender trainings for rural communities available



Conducting gender trainings promotes gender-responsive, result-oriented planning, implementation, monitoring and evaluation of activities, programmes and policies in the water and sanitation sector, among others.

WECF has developed a manual for such gender training for rural communities that is available for

download. The collection of exercises for the training of trainers provides instructions for practical and interactive gender trainings. Exercises include role plays, open discussions, mini-lectures, brainstorming sessions and working in small groups. Through these tools, participants are encouraged to reflect on the dominant role of women in water and sanitation at the household level and on male and female behaviour that is often rooted in gender stereotypes. This can in turn trigger a change in mind-set and lead to inclusive planning for water and sanitation in upcoming programmes, which entails including women's perspectives.

The manuals which can be found in the links below in English and Russian can be used to develop short-term (up to 5 hours) or long-term training modules (up to 3 days).

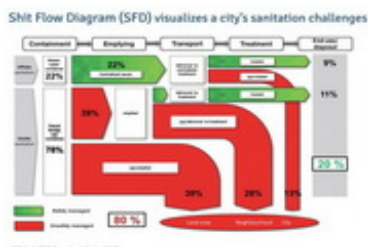
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- Contact: [Claudia Wendland](#) (WECF)
- You can find the manuals for download here: [in English](#) (PDF) and [in Russian](#) (PDF)

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## Global

### SFD Graphic Generator is now available online!



A Shit Flow Diagram (SFD), also referred to as excreta flow diagram, is an easy-to-understand advocacy and decision-support tool that summarizes and presents what happens to excreta in cities and towns. It consists of a graphic that visualizes excreta flows, the assessment of the service delivery in the city concerned and a complete

record of data sources used, forming a concise SFD Report. After piloting the tools and methods for the SFD production over the past year, the SFD Promotion Initiative has launched the SFD Graphic Generator. Making your own SFD graphic has become easier and quicker! The online tool permits for the creation of SFD graphics in a two-step approach. The SFD helpdesk, formed by experts from the project teams, is available to assist and provide you with guidance during the whole process of preparing SFDs. How to make your own SFD graphic using the SFD online tools was represented in a webinar on January 18th 2017 and a recording of the webinar can be found [here](#).

[top](#)

- Contact: [Cecilia Rodrigues](#) (GIZ)
- [SFD Graphic Generator](#)
- [SFD Helpdesk](#)
- [SFD Website](#)

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## Afghanistan

### Faecal sludge management situation visualised with the Shit Flow Diagram (SFD)



The lack of reliable data and the rapid growth of urban settlements make it difficult to provide an overview of current faecal sludge management practices and challenges. A Shit Flow Diagram (SFD) was developed by the BMGF-financed SFD-promotion initiative and is a tool that has been proven to work in such an environment.

Shit Flow Diagrams, also referred to as excreta flow diagrams are an easy-to-understand advocacy and decision-support tool that summarizes and presents what happens to excreta in cities and towns.

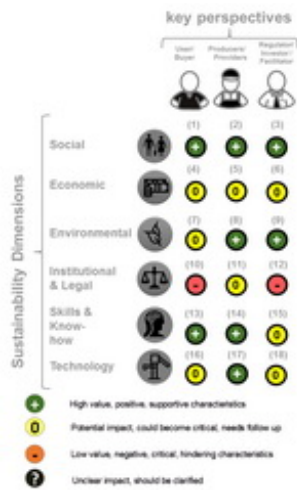
The first SFD was developed for the capital city of Afghanistan, Kabul, on the basis of Key-Informant-Interviews conducted with a wide variety of experts and resource personnel in the sector. It was presented at the 1st Afghanistan Conference on Sanitation (AFCOSAN). The approach will be adopted for other cities in Afghanistan to serve as an advocacy tool for the promotion of sustainable sanitation.

[top](#)

- Contact: [Farhad Safi](#) (GIZ)
  - [Official website](#)
  - [Programme Website](#)
  - [SFD Website](#)
-

## Afghanistan

### Simplified method to assess scaling-up potential



Urban sanitation is a major challenge in Kabul where low urban densities call for innovative sanitation solutions. Potential groundwater pollution puts the main water sources of millions of citizens at risk. The financial burden of household sanitation in a generally weak socio-economic environment and unclear legislation provide the context in which potential sanitation solutions take place.

The Technical Applicability Framework (TAF-Method) developed by SKAT, Switzerland was adopted and modified by the GIZ Sector program on Sustainable Sanitation to assess the scaling-up potential of a decentralised wastewater treatment concept (DEWATS) developed by the German NGO BORDA.

DEWATS was first introduced in Afghanistan in 2012 and its potential to be used on a large scale was assessed with the simplified TAF Method. This approach was presented in a webinar on November 16th, 2016 which is available for streaming.

top

- Contact: [Younes Hassib](#) (GIZ)
- [Webinar](#)
- [Website](#)
- [Links to Technology Applicability Framework \(TAF\)](#)

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## Eastern Europe, the Caucasus and Central Asia

### School toilets: Quality, not quantity matters!



When school toilets are accepted, sanitation conditions that offer comfort, cleanliness, absence of smell and privacy for the pupils follow. This matters equally for boys and girls. Girls, however, suffer more from inadequate sanitation conditions of unhygienic pit latrines in schools and thus benefit to a greater extent from a school sanitation intervention.

When the budget is however limited, it is more important to construct fewer high quality school sanitation facilities and to ensure their proper Operation and Maintenance than to construct the recommended number of toilets (25 girls per toilet, 25 boys per toilet/urinal) at a lower quality and without appropriate operation and maintenance.

A study was recently done. For more information please click on the link below.

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- Contact: [Claudia Wendland](#) (WECF)
- [Comparison of Pupils' Acceptance of Conventional and Ecological Sanitation in Rural Schools \(PDF\)](#)

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## Tajikistan

### Construction of UDDTs in Women Development Centers (WDC) to increase equitable access for girls and woman



The Women Development Centers (WDC) in Northern Tajikistan, in the target areas of the NGO called ASDPNau are united not only by increasing access to education and development for girls and women but also through economic or income-bearing activities, but other socio-



cultural events in which the participation of women in different sectors is meant

to focus on communities. The WDCs are of high importance for women and girls to break the cycle of poverty.

Water and sanitation are important prerequisites in the WDC and need to be in good condition. ASDPNau, with the support of WECF and NatraCare, implemented UDDTs equipped with hygiene rooms with warm water for ablution. The locally made solar collector is installed in the toilet room to provide warm water. The rooms are equipped with a device for anal cleansing, which is very important for hygiene in the Islamic culture.

top

- Contact: [Claudia Wendland](#) (WECF)
- [Equitable Access to Education and Development for Girls and Women: Improving women's and girls' hygienic situation in rural Tajikistan through implementing UDDT in schools and women development centers \(WDC\) \(PDF\)](#)

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## Zambia

### GIZ working with NWASCO towards a more institutionalized gender monitoring system



GIZ has supported gender equality and women's rights for more than two decades in Zambia and particularly the water sector with varying foci, instruments and methodologies. With the recent adoption of a Human Rights Based Approach (HRBA), gender equality and rights are poised to play an even more significant role in the GIZ water programme and its key partner institutions such as the National Water Supply and Sanitation Council (NWASCO).

Within the context of internal and external mainstreaming, commercial utilities follow

national guidelines and subscribe to various policy provisions for gender mainstreaming. NWASCO has also developed a Gender mainstreaming criteria and a HIV mainstreaming checklist, which highlights the nature and areas of importance for mainstreaming efforts.

NWASCO has for some years been collecting sex disaggregated data, and pays special attention to monitoring cross-cutting issues. Current on-going activities involve upgrading of the NWASCO Information System (NIS) to include the quantitative gender indicators to make institutionalised reporting more sustainable. The first phase which has been completed involved identifying critical indicators and their inclusion in sector reports. The second phase covers the planned upgrading of the NIS system to include among other things gender specific indicators to aid more institutional reporting and monitoring.

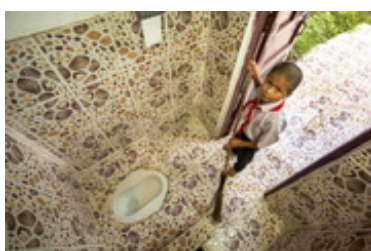
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- Contact: [Trevor SurrIDGE](#) (GIZ)
- [National Water Supply and Sanitation Council](#)

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## South-East Asia

### A new and innovative Wash in Schools (WinS) approach to O&M



In the framework of the SDGs, all schools should reach basic WASH services by 2030. While in the past, progress was determined by the mere number of toilets, SDGs now take functionality and usability into account as well as availability of consumables like soap. To ensure functional facilities and good hygienic conditions in schools

over a long period, Operation and Maintenance (O&M) is crucial. In line with this,



the Regional Fit for School Programme/Sector Programme Sustainable Sanitation (SV NaSa) presented a newly developed O&M tool during a workshop of the Internationale Learning Exchange 2016 (ILE). The ILE is an annual event in South-East Asia with the goal to strengthen awareness and commitment in addressing the problems of water, sanitation and hygiene behaviour in schools.

The new tool is a very simplified costing framework. It consists of three steps: defining needs, calculating costs and mapping resources. Therefore, the tool helps to discover the needs and their related costs. Those steps are crucial, since cost estimations forms the bases for budget allocation and resource mobilization.

It is important to mention that the O&M tool calculates the cost for a desired O&M status. Other than studies, where you go to schools and ask the principle how much money they had spent for WASH during the last year, the new tool is taking a look into the future to estimate how much resources should be arranged to keep the system running.

The use of the tool during the workshop illustrated that O&M and related roles and responsibilities have to be defined for each country context. Furthermore, the tool showed that the choice of new infrastructure should be based on resources available for investment and O&M of that infrastructure. Last but not least, it underlined that short term solutions needed to be found on school level, while long term solutions have to take place on a higher level such as allocating sufficient budget and procedures for O&M within government systems.

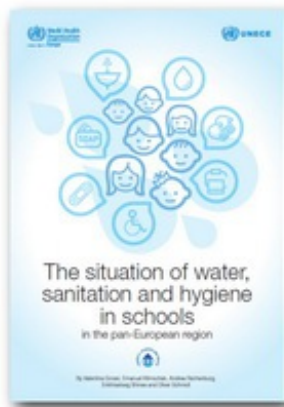
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- Contact: [Bella Monse](#) (GIZ)
- [Fit for School Website](#)

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## Global

### **The situation of water, sanitation and hygiene in schools in the pan-European region**



Adequate access to water, hygiene and sanitation (WASH) is every human's and child's right. Ensuring WASH accessibility in schools is encompassed in the 2030 Agenda for Sustainable Development and is a priority area under the Protocol on Water and Health to the 1992 Convention on the Protection and Use of Transboundary Watercourses and International Lakes. This publication summarizes the status of WASH in schools in the pan-European region. Available evidence was retrieved from scientific literature, national and international surveys and a desk review of case studies. The data show general progress in WASH policies and targets, but a

concurrent lack of translation of this progress into efficient improvement of WASH in schools. Gaps and challenges are found as a result of non-comprehensive standards, inefficient coordination and inadequate surveillance and monitoring indicators. Further, neglected disparities and inequalities are observed through the region. WASH conditions do not reflect policies' aspirations and are not adequate to pupils' needs, affecting their health, well-being and performance at school. The main challenges across the region are related in particular to inadequate cleanliness and provision of consumables, as well as maintenance of sanitation facilities and accessibility to safe drinking-water. Policy-making needs to be supported by evidence-based information, especially on neglected topics such as menstrual hygiene management.

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- [The situation of water, sanitation and hygiene in schools in the pan-European region](#)

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## Global

### **The digitalisation of sanitation**

In 2016 the Toilet Board Coalition ran a



Feasibility Study to explore the potential role of mobile and digital applications to drive efficiencies and consumer demand in sanitation business models operating in low income markets. The following questions were at the centre of our inquiry:

- How are sanitation businesses operating in low-income markets using mobile and digital applications in their businesses today?
- How are sanitation businesses and entrepreneurs thinking about next generation opportunities for mobile and digital applications

for their businesses in the future?

- What is needed to build the ecosystem for the digitisation of sanitation for the low income markets?
- Is there commercial interest and demand from large industrial operations to become buyers and investors into the system?

The study engaged twelve small and medium sized businesses engaged in the sanitation sector across low-income markets, with experts from multinational corporations, development organisations, and specialists from across the mobile for development, smart cities and internet of things sectors.

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- [The digitalisation of sanitation](#)
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GIZ is a partner of the [Sustainable Sanitation Alliance](#) (SuSanA) - a loose network of 289 organisations active in the field of sustainable sanitation.

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## Registration information

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- Closing of the 1st Kenya Water Week © WSTF
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- Participants in a gender training © WECF
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- Presenting the SFD during AFCOSNA-I ©GIZ
- TAF-Scorecard developed for the DEWATS in Kabul, Afghanistan ©GIZ
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- UDDT in the WDC © ASDPNau
- Woman running a water kiosk © NWASCO
- Young boy cleaning the toilet © Regional Fit for School Programme

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