

The WASH Kit

Proven Solutions for Safe Sanitation and Hygiene

Manual





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What is the WASH Kit?

The WASH Kit brings together practical solutions to water, sanitation, and hygiene (WASH) challenges that have proven effective in projects implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in the last years.

The solutions cover the areas:

- Diagnosis, planning, monitoring
- Construction and maintenance
- Awareness raising and knowledge sharing

The solutions can be applied separately or in combination in various sectors beside sanitation, e.g.:

- Climate
- Agri-food
- Health
- Urban planning
- Governance
- Gender
- Education/TVET
- Transitional development assistance

A tool finder app helps to easily select the appropriate solution for a project context.





Why use the WASH Kit?

- Effectiveness and quality – all solutions have been successfully applied in numerous projects implemented by GIZ in the last years
- Flexibility – suitable solutions of the WASH Kit can be applied to your project in a modular way
- Time & cost efficiency – standardised materials, sample TORs and guidelines save time and resources
- Know-how – experience and knowledge gained in multiple implementations on the ground was documented and curated
- Quick orientation – through the tool finder, suitable solutions can be easily identified





Key Impacts of the WASH Kit

The solutions brought together in the WASH Kit address a range of topics around water, sanitation and hygiene. They...

- contribute to the achievement of various SDGs, especially SDG 6
- promote hygienic and safe conditions for learning, working, and living by reducing infection risks
- advance gender equality
- foster work capacity through training and education measures
- strengthen partner capacities and the partner system through training measures and the development and implementation of standards, norms, and policies, among others
- make cities and communities more sustainable and resilient.





How to use the WASH Kit



- Starting point: Improving WASH services is one of your project's objectives. You know about the project needs and the available resources.
- [Access the WASH Kit](#) on the website of the Sustainable Sanitation Alliance (SuSanA)
- A browser-based [Tool Finder](#) will help you select the most suitable solution for your project context.
- For initial information, each solution is presented through a brief overview in form of a **one-pager** (see pages 9 onwards of this manual)
- Having identified the solution that meets your project's objectives, context, and resources, the WASH Kit offers standardised materials, sample TORs, guidelines and more based on project experience to save time and resources during implementation.





WASH Kit Tool Finder

The browser-based [Tool Finder](#) helps you identify the most suitable solutions of the WASH Kit for your project by a series of questions.

Steps of the Tool Finder to identify suitable solutions

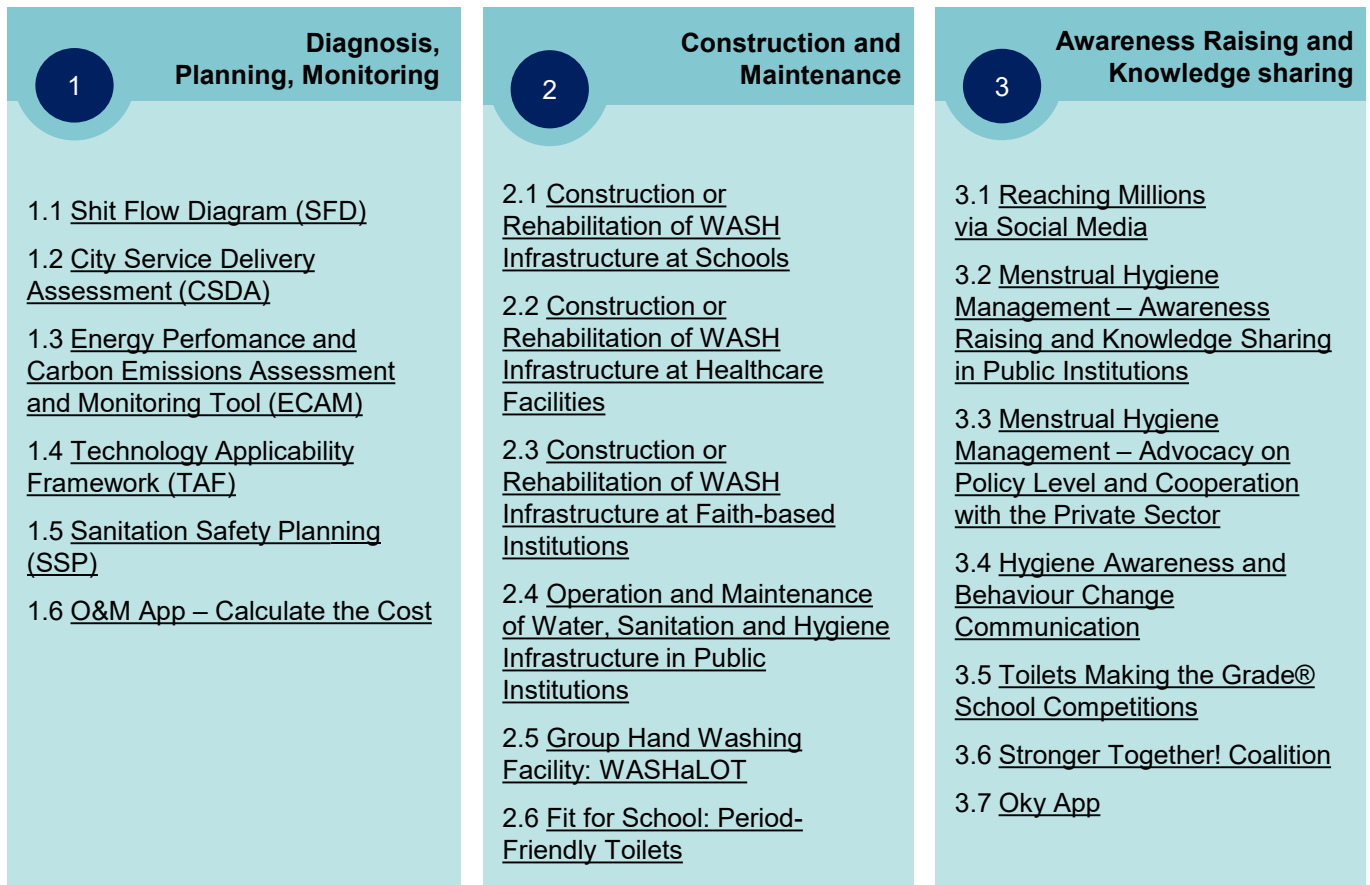
Step 1: Topics	Which topics should the solution address?
Step 2: Activities	Which activities are you planning to implement?
Step 3: Instruments	Which instruments do you consider for your project?
Step 4: Final products	Which type of final product do you wish to achieve?
Step 5: Target groups	Which target group do you wish to reach?
Step 6: Available budget	What is your available budget for the specific solution?
Step 7: Required time and complexity	What is your available timeframe and what grade of complexity are you able to handle to implement the solution?
Step 8: Markers	Which OECD DAC cross-cutting marker do you wish to address?





WASH Kit Solutions

The graphic below provides an overview of the WASH Kit's three pillars: understanding challenges, improving infrastructure, and promoting knowledge and behaviour change. The links lead directly to the solutions.





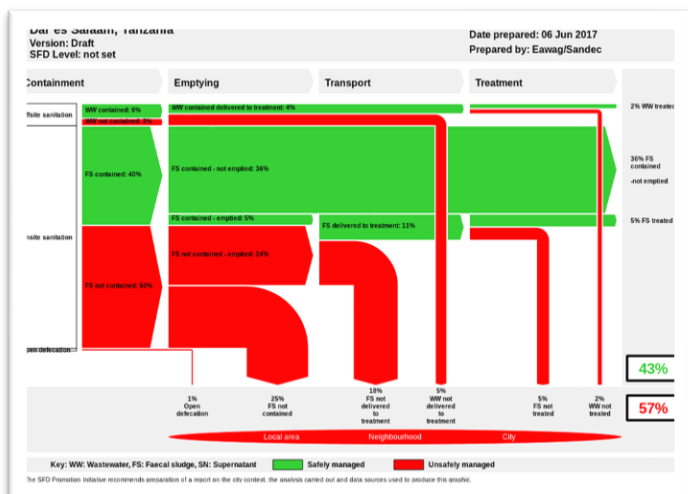
WASH Kit One-Pagers

On the following pages, you will find one-pagers for each of the nineteen solutions included in the WASH Kit, providing an overview and key information for each solution.



Shit Flow Diagram (SFD)

A tool to visualise the current sanitary situation in cities and municipalities



SFD of Dar es Salaam

Brief description

The SFD is a digital assessment tool to visualise the sanitary situation, in particular the flow of wastewater and faecal sludge, in a specific city by creating a graphic and a short report.

[LINK TO DIGITAL TOOL](#)

Services

- Engage in dialogue and raise awareness about sanitation in a city with key stakeholders.
- Identify targeted needs for improved sanitation services.
- Decision-making related to urban sanitation planning and investments.
- Support the design process of a measure or project.
- Monitor the sanitation situation at city/municipality level.
- Support national (sector) policy development.

Target group

The tool is aimed at sanitation experts, policy makers (at local and national level), civil society and technical and financial cooperation actors.

Time and costs

The creation of an SFD takes between 1 and 6 months, depending on its complexity. Depending on the SFD level and the place of implementation, the costs vary from € 15.000 for a simple SFD to €50,000 for the most comprehensive SFD-level.

Links

- [SFD Introduction video](#)
- [SFD Manual](#)
- [SFD Online Training](#)

City Service Delivery Assessment (CSDA)

A tool to assess the environment for city-wide inclusive sanitation

Sewered sanitation				Non-sewered sanitation			
	WC, house connection	Sewerage	Sewage treatment & reuse		Toilet, pit or septic tank	Emptying & transport	Sludge treatment & reuse
Enabling							
Policy, legislation	Red	Yellow	Green	Yellow	Yellow	Red	Red
Planning, budgeting	Red	Green	Green	Yellow	Yellow	Red	Red
Inclusion	Red	Red	Green	Yellow	Red	Red	Red
Delivering							
Funding	Red	Red	Red	Red	Red	Red	Red
Capacity, outreach	Red	Yellow	Green	Green	Green	Green	Green
Inclusion	Red	Red	Green	Red	Red	Red	Red
Sustaining							
Regulation, cost recovery	Red	Red	Red	Red	Yellow	Red	Red
Institutions, service providers	Red	Yellow	Green	Yellow	Yellow	Yellow	Yellow
Inclusion	Red	Red	Green	Red	Red	Red	Red

CSDA "Score Card" Assessment

Brief description

The CSDA is a participatory tool that supports stakeholders in creating a framework for city-wide inclusive sanitation (CWIS) and complements the Shit Flow Diagram assessment.

[LINK TO DIGITAL TOOL](#)

Services

- Initiate discussions with relevant stakeholders on the concept of 'City-Wide Inclusive Sanitation' (CWIS) to explore interest and consensus.
- Conduct qualitative assessments of the policy, legal and institutional framework for implementing CWIS.
- Develop graphics (e.g., a colour-coded scorecard) to guide stakeholders through a systematic process aimed at building consensus and shared understanding.
- Provide an actionable checklist to help stakeholders identify and prioritise key steps to create an enabling environment for improved sanitation.

Target group

The CSDA tool is designed for use by consultants, facilitators or internal specialists to facilitate work with stakeholders at city or community level.

Time and costs

CSDA builds on an established SFD. It can be conducted in combination with the SFD to reduce costs.

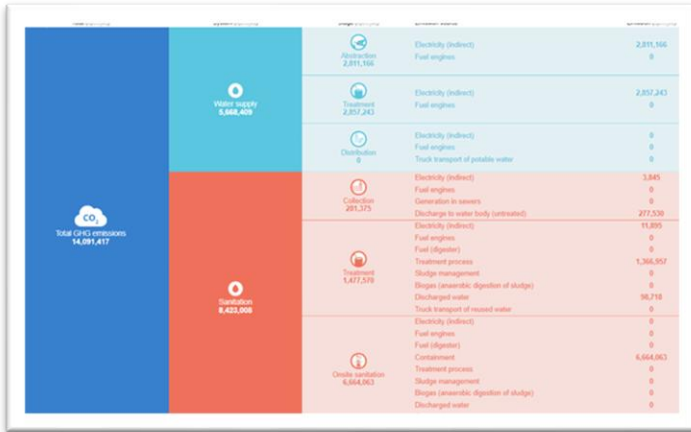
Time: 1 to 6 months.

Costs 15.000-50.000 EUR.

Time and costs vary largely depending on the size of the city and the availability of data and experts.

Energy Performance and Carbon Emissions Assessment and Monitoring Tool (ECAM)

A tool to assess the carbon footprint and energy performance of water and wastewater utilities



Visualisation of ECAM results

Brief description

ECAM is an assessment tool used by water and wastewater utilities to monitor greenhouse gas emissions and energy consumption on a system-wide level.

[LINK TO DIGITAL TOOL](#)

Services

- Make recommendations to utilities on how they can reduce their CO2 emissions and operating costs.
- Track and evaluate improvement measures to ensure their effectiveness in the long term.
- Support access to climate finance.
- Build capacity for data management.
- Support the development of national guidelines and strategies for a more climate-friendly water and wastewater sector.
- Reliably report with accurate data, for example as part of the Nationally Determined Contributions (NDCs).

Target group

ECAM is aimed at utility managers and technicians, consultants, climate experts, scientists and decision makers involved in assessing and improving the performance of water and wastewater systems.

Time and costs

Time: 1 to 6 months.
Costs: 5.000-25.000 EUR

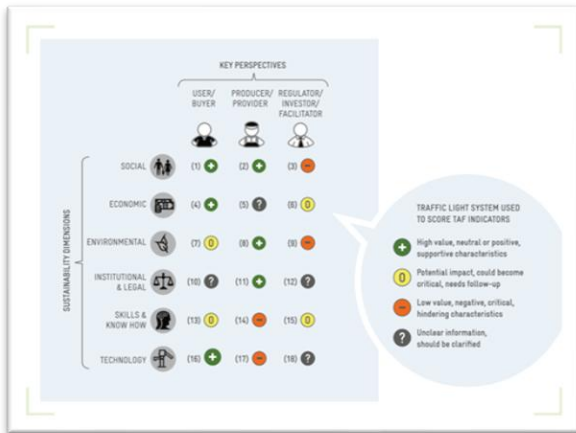
Time and costs vary largely depending on the availability of data, experts and the required accuracy of results.

Links

- [ECAM Library](#)
- [ECAM Manual](#)
- [ECAM Methodology Guide](#)
- [E-learning](#)
- [Introduction video](#)
- [Case Studies](#)

Technology Applicability Framework (TAF)

A tool to assess the sustainable application and scalability of WASH technologies



Visualisation of TAF results

Brief description

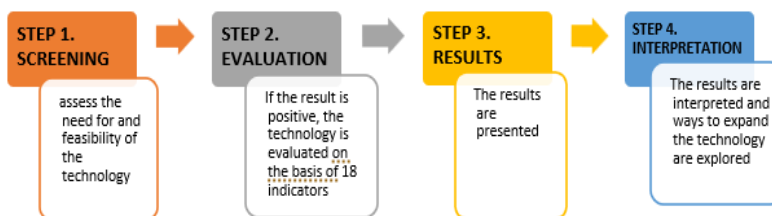
The TAF is a participatory decision-making tool to assess the suitability of a particular water, sanitation and hygiene (WASH) technology for certain framework conditions. It also provides the most important prerequisites for a successful introduction or expansion of the technology.

[LINK TO DIGITAL TOOL](#)

Services

- Discuss, document and share experiences on a WASH technology and approaches to disseminating this technology.
- Assess the potential of a given technology in terms of applicability, scalability, sustainability and uptake in a given context.
- Assess the readiness to deploy this technology on a larger scale, including identifying possible measures to improve uptake.
- Monitor the performance of the technology and its deployment process.

Implementation phases



Costs

All four steps include field work involving all key stakeholders. Each assessment costs around 5.000-10.000 EUR per technology and district plus travel costs.

Target group

Stakeholders involved in the decision to adopt a WASH technology, including representatives of national and local authorities, the project owner and end users such as communities.

Links

- [TAF Introduction video](#)
- [TAF assessment WASHaLOT](#)

Sanitation Safety Planning (SSP)

A tool to coordinate stakeholders to monitor risks along the sanitation chain



Sanitation Safety Planning Manual

Brief description

The SSP tool provides a structure to bring different actors together to assess, manage and monitor health, environmental and climate risks along the entire sanitation chain.

[LINK TO DIGITAL TOOL](#)

Services

- Set priorities and objectives for risk management.
- Ensure the safety of sanitation measures.
- Promote political dialogue and coordinate the efforts of the various stakeholders along the sanitation chain.



Target group

SSP is addressed to local authorities for coordination, monitoring and improvement of services, to service providers for quality assurance and compliance, and to health authorities for monitoring and review of risk-based regulatory measures.

Time and costs

Time and costs depend heavily on local context (size/complexity of the sanitation system, how much data already exists, local salary rates, whether external facilitators are hired, etc.). Costs may range from 50.000-200.000 EUR for settlements from 50.000 to 2 Million inhabitants. Time required may range from 3-6 months in a small town to 9-18 months in a metro-city.

Links

- [SSP Manual](#)
- [SSP Learning Hub](#)
- [SSP – Worked Example: SSP in Newtown](#)
- [SSP in French](#)

O&M App - Calculate the Cost

An app to calculate the operation and maintenance costs of water, sanitation and hygiene infrastructure in schools



Logo of the O&M app

Brief description

The Operations and Maintenance (O&M) app helps with the calculation of operation and maintenance costs for the implementation of water, sanitation and hygiene (WASH) in schools. The app also includes measures for pandemic supply and control.

[LINK TO DIGITAL TOOL](#)

Services

- Support school leaders in calculating the annual costs of operating and maintaining WASH activities and facilities in schools.
- Find information on infection prevention and control (IPC) measures in line with WHO, UNICEF and UNESCO recommendations.
- Get an overview of required resources for operation and maintenance of school sanitary infrastructure at sub-national and even national level.

Target group

Schools, education managers

Time and costs

The app has been developed and applied to a number of settings. To adapt it to a new context, time needed can be estimated with 6-9 months and costs are estimated as 30.000 EUR.

Links

- [Operation and Maintenance app – YouTube](#)
- [Explanatory PPT](#)

Construction of Safe Sanitation Facilities

Set of resources: sanitary infrastructure at schools



Colombian schoolchildren washing their hands.

Brief Description

This set of resources offers essential information and materials for the successful implementation of construction measures to improve the sanitary infrastructure at schools, based on practical experience.

[LINK TO RESOURCES](#)

Services

- Construct or rehabilitate sanitary facilities, including accessible and gender-equitable toilets and hand-washing facilities.
- Consider international minimum quality standards and local contexts.
- Contribute to gender equality by addressing the needs of women and girls.
- Contribute to the inclusion of people with reduced mobility by ensuring accessibility.
- Reduce school absenteeism and drop-out rates among female pupils due to menstruation.

Target Groups

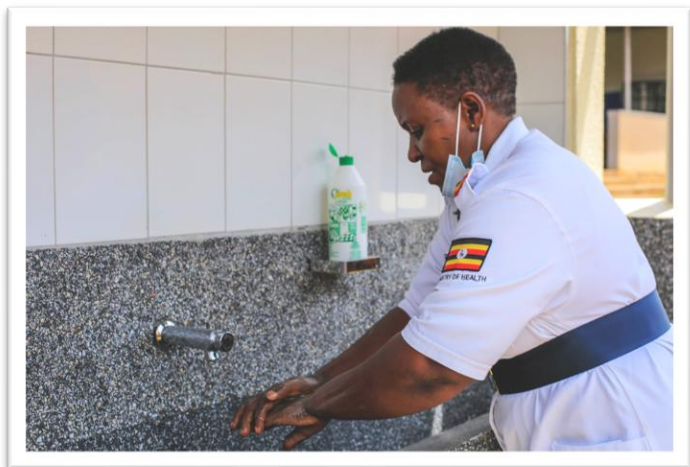
- Direct beneficiaries: people who use sanitary facilities at schools
- Indirect beneficiaries: in particular, families who benefit from the improved hygiene behaviour of direct beneficiaries

Time and Costs

- Significant cost variations between countries
- Minor renovation work: approx. 6 months, around 10.000 Euro
- Average construction: minimum 1 year, over 100.000 Euro

Construction of Safe Sanitation Facilities

Set of resources: sanitary infrastructure at healthcare facilities



An employee at a health centre in Uganda washes her hands.

Brief Description

This set of resources provides essential information and materials for the successful implementation of construction measures to improve the sanitary infrastructure in healthcare facilities, based on practical experience.

[LINK TO RESOURCES](#)

Services

- Construct or rehabilitate sanitary facilities, including accessible and gender-equitable toilets and hand-washing facilities.
- Consider international minimum quality standards and local contexts.
- Contribute to gender equality by addressing the needs of women and girls.
- Contribute to the inclusion of people with reduced mobility by ensuring accessibility.

Target Groups

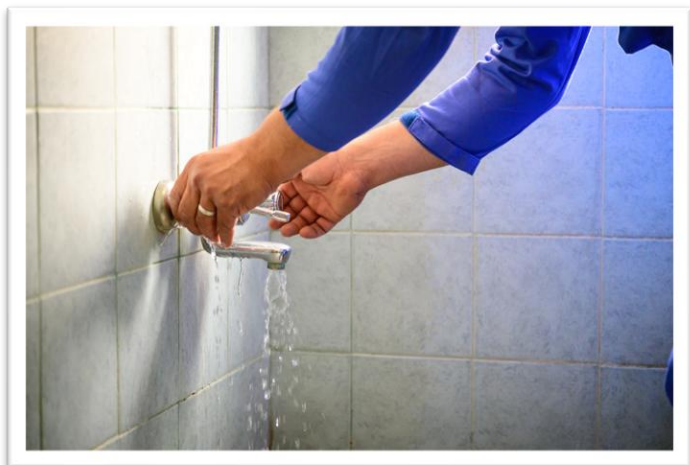
- Direct beneficiaries: People who use sanitary facilities in healthcare facilities
- Indirect beneficiaries: General population benefitting from the improved hygiene behaviour of direct beneficiaries

Time and Costs

- Significant cost variations between countries
- Minor renovation work: approx. 6 months, around 10.000 Euro
- Average construction: minimum 1 year, over 100.000 Euro

Construction of Safe Sanitation Facilities

Set or resources: sanitary infrastructure in faith-based institutions



Working tap in a faith-based facility in Jordan

Brief Description

This set of resources offers essential information and materials for the successful implementation of construction measures to improve the sanitation infrastructure in faith-based facilities, based on practical experience.

[LINK TO RESOURCES](#)

Services

- Construct or rehabilitate sanitary facilities, including accessible and gender-equitable toilets and hand-washing facilities.
- Consider international minimum quality standards and local contexts.
- Contribute to gender equality by addressing the needs of women and girls.
- Contribute to the inclusion of people with reduced mobility by ensuring accessibility.

Target Groups

- Direct beneficiaries: people who use sanitary facilities in faith-based institutions
- Indirect beneficiaries: general population benefitting from the improved hygiene behaviour of direct beneficiaries

Time and Costs

- Significant cost variations between countries
- Minor renovation work: approx. 6 months, around 10.000 Euro
- Average construction: minimum 1 year, over 100.000 Euro

Sustainable Operation and Maintenance

Set of resources: sanitary infrastructure in public institutions



Technical training course for basic sanitation skills in Jordan

Brief Description

This set of resources provides essential information and materials on the operation and maintenance of sanitary facilities in public institutions, based on practical experience.

[LINK TO RESOURCES](#)

Services

- Ensure the longevity of sanitary infrastructure through proper operation and regular professional maintenance.
- Reduce operating costs through constant monitoring and proper management of sanitary infrastructure.
- Conduct trainings in basic sanitation skills in the private sector to create opportunities for professional improvement.
- Reduce environmental pollution.
- Adapt to climate change through more efficient water use.

Target Groups

- Staff in public institutions
- Service providers in the private sector
- Government agencies
- Staff of local authorities
- Users/ visitors
- Communities

Time and Costs

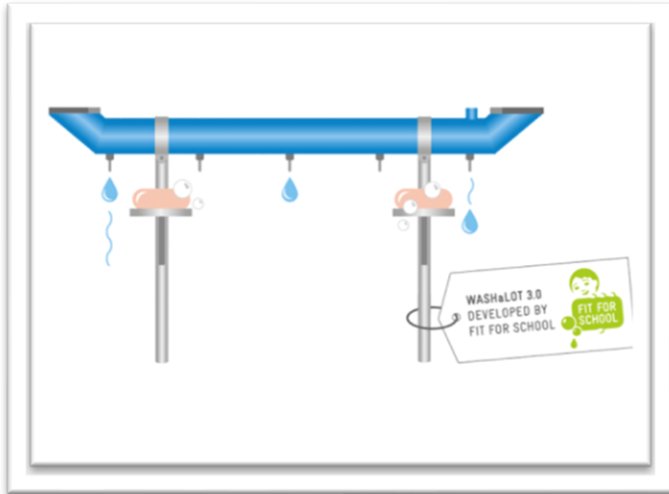
Time and costs vary strongly, depending on the context.

Time: 1-8 months

Costs: 2.000-40.000 EUR

Group Hand Washing Facility: The WASHaLOT

A cost-effective and resource-saving hand washing system



Example of a WASHaLOT

Brief description

The WASHaLOT is a group hand washing system that has been developed for schools and public places in water-scarce regions. It can work even where there is no piped water and enables several people to wash their hands at the same time, effectively and in a water-saving manner.

[LINK TO INFORMATION](#)

Services

- Schools: Enable pupils in regions with limited access to water and sanitation infrastructure to wash their hands easily and hygienically, reducing the spread of diseases.
- Community centres and public facilities: Provide a simple, cost-effective solution to give communities in densely populated or rural areas access to hygienic handwashing facilities.
- Aid organisations and NGOs: Improve hand hygiene quickly and efficiently, especially in emergency situations or refugee camps where access to water is limited.

Target group

Projects and institutions in the education, health or WASH sector, with activities in schools, community centers or in disaster relief and refugee camps where access to water is limited.

Time and costs

The purchase and maintenance costs are relatively low, depending on the context.

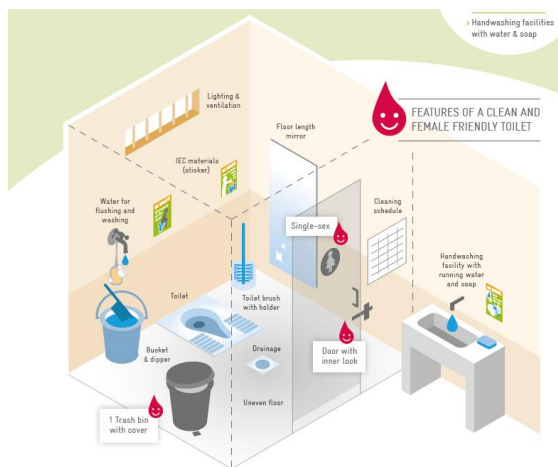
Time: 1-3 months
Costs: 500-3.000 EUR

Links

- [WASHaLOT – Sanitation for Millions](#)
- [WASHaLOT and MOCHs](#)

Fit for School: Period-Friendly Toilets

A school-based approach to improve Menstrual Hygiene Management



Brief description

The Fit for School regional programme presents a modular and culturally adaptable intervention package for Menstrual Hygiene Management (MHM) in schools.

Features of a clean and period-friendly toilet

[LINK TO CONCEPT](#)

Services

- Improve MHM through better information, period-friendly sanitation facilities, MHM supplies and monitoring systems.
- Support teachers and school health personnel with capacity building, clear roles such as MHM focal persons, and practical tools for guiding students.
- Encourage peer-to-peer education, involvement of male students and improved awareness around menstruation.
- Support education authorities, NGOs and WASH actors working to promote inclusive, gender-sensitive school environments.

Target group

Schools, education sector stakeholders, school health personnel, teachers, students, school management, WASH actors and organisations working on menstrual health, sanitation, hygiene and inclusive education.

Time and costs

Materials are available free of charge, some of them are available in different languages.

Implementation time and costs vary depending on the context.

Links

Fit for School: [FIT RESOURCES | Fit for School](#)

Reaching Millions via Social Media

Sensitisation and knowledge spreading with local influencers and a media package



Reaching the young with key messages on WASH

Brief description

Young people can be reached with key messages around water, sanitation and hygiene (and in other sectors) through a team of a local Goodwill Ambassadors, a professional film maker, a storyteller and local film teams. Until 2026, the approach has been applied by nine GIZ projects in nine countries, reaching more than 15 million people.

[LINK TO INFORMATION](#)

Services

- Engage media personalities as Goodwill Ambassadors and use social media to reach a wider audience.
- Launch a social media campaign (e.g., #NepalsMenstrualMovement) including several posts with information and education materials.
- Produce a documentary film with the Goodwill Ambassador as a presenter and, e.g., the award-winning German filmmaker Dirk Gilson, to guide production with local film-teams. The aim is e.g. to showcase challenges and changes for girls and women in rural Nepal as well as education and advocacy efforts by local organizations and the Campaign-Team as a whole.
- Reach a high number of young people with your messages via modern media.

Target group

- Projects and partners aiming to reach young people with key messages around WASH (and beyond)

Time and costs

Duration: 4 to 9 months, depending on setting and goals

Costs: 35.000 to 75.000 EUR per campaign, varying by location, duration and intensity

Menstrual Hygiene Management

Set of resources: awareness raising and knowledge sharing in public institutions



Knowledge transfer about safe menstrual hygiene in Pakistan

Brief description

This set of resources provides essential information and materials to impart knowledge and raise awareness on safe menstrual hygiene management, enabling girls and women to deal safely with their menstruation without taboos, shame and stigma.

[LINK TO RESOURCES](#)

Services

- Raise awareness and knowledge about menstruation and how to deal with it safely, especially in contexts where menstruation is taboo and stigmatized.
- Establish networks to embed improvements in menstrual health in the long term.
- Create a supportive environment in which menstruation does not lead to health, social or economic disadvantages.
- Reduce school absenteeism and drop-out rates among schoolgirls due to their menstruation.

Target group

- In schools: teachers, children and young people
- In healthcare facilities: Medical staff, patients
- In faith-based organisations: religious leaders, religious communities

Time and costs

Time and costs depend on the context and scope.

Measures can start from one-day trainings at less than 1000 EUR.

Menstrual Hygiene Management

Set of resources: anchoring at political level and cooperation with the private sector



National MHM workshop in Pakistan

Brief description

This set of resources offers practical information and materials on how to anchor the topic of menstrual hygiene management (MHM) at a political level as well as possible forms of cooperation with actors from the private sector and civil society.

[LINK TO RESOURCES](#)

Services

- Strengthen policy frameworks for menstrual health and hygiene by applying practical guidance, minimum standards, and advocacy approaches.
- Integrate menstrual health into public policies and sector strategies across WASH, health, education, and gender.
- Foster partnerships with private sector actors to improve access to menstrual health products and services.
- Promote multi-sector collaboration through evidence-based approaches and stakeholder engagement.

Target group

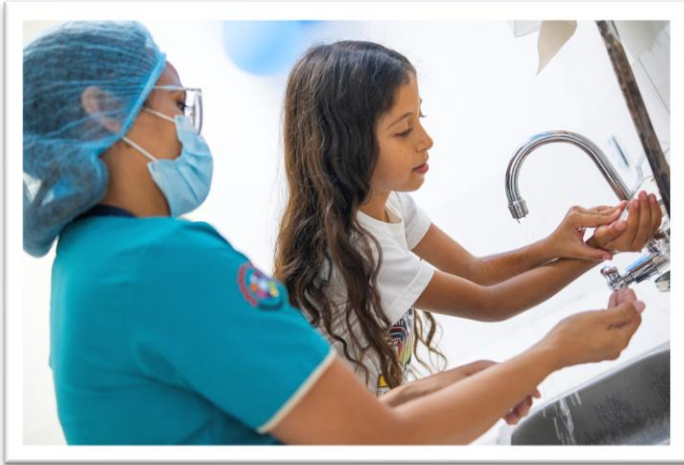
- Political level: relevant actors (e.g. ministries, parliaments, religious or political leaders)
- Private sector: relevant actors from the private sector, e.g. companies that manufacture hygiene products

Time and costs

Estimated time and implementation costs are highly context-specific and depend on factors such as scope, stakeholder engagement requirements, and the activities selected. Given the broad range of potential interventions covered by this resource set, providing reliable time and cost estimates is not feasible without a defined implementation context.

Hygiene Awareness

Set of resources: hygiene awareness and behaviour change communication



A girl in Colombia learns the practice of safe hand hygiene

Brief description

This set of resources provides information and materials on measures to embed safe hygiene practices in everyday life.

[LINK TO RESOURCES](#)

Services

- Improve hygiene awareness through targeted communication materials and evidence-based behaviour change approaches.
- Engage communities effectively with participatory, context-specific communication and outreach strategies.
- Support the design and implementation of hygiene promotion campaigns using practical tools, guidance, and proven methodologies.
- Address behavioural barriers and motivators to encourage lasting adoption of healthy hygiene behaviours.

Target group

- In schools: teachers, children and young people
- In healthcare facilities: medical staff, patients
- In faith-based organisations: Religious leaders, religious communities

Time and costs

Time and costs depend on the context and scope.

Measures can start from one-day trainings at less than 1000 EUR.

Toilets Making the Grade®

A school competition for self-driven water, sanitation, and hygiene Improvements



Winner team celebrating at Toilets Making the Grade in Uganda

Brief description

As part of Toilets Making the Grade, children and young people work in teams with other school stakeholders to develop solutions for the sanitary situation at their school. A jury assesses the concepts and implementation. The school competitions were developed by the German Toilet Organisation.

[LINK TO INFORMATION](#)

Services

- Improve school sanitation and hygiene conditions through guided self-assessment and locally developed solutions.
- Empower students, teachers, parents, and school staff to work together on sustainable WASH improvements with minimal external support.
- Strengthen awareness, skills, and behaviour change by engaging school communities in a participatory and action-oriented competition framework.
- Promote better operation and maintenance of WASH facilities while supporting compliance with national and international school sanitation standards.

Target group

- Schoolchildren, young people and other school stakeholders
- Local authorities and other jury members

Time and costs

- Duration: 6 to 18 (or more) months, depending on number of school-years to be covered
- Cost: 75.000 to 200.000 EUR per TMG® competition – depending e.g. on number of schools, duration

Links

- [Toilets Making the Grade | German Toilet Organization e.V.](#)

Stronger Together! Coalition

Coalition to strengthen local and national women's networks to empower women professionals in the water sector



Stronger Together! logo

Brief description

Women's networks play an important role in supporting women in the water sector and bringing the topic into relevant forums. With the Stronger Together! Coalition, there are structures for coordination, advocacy and joint activities of women's networks and partners.

[LINK TO COALITION](#)

Services

- Support existing local and national women's networks by promoting coordination and networking with the Stronger Together! Coalition.
- Strengthen the representation of female professionals in relevant forums.
- Strengthen the resources of women's networks.
- Address barriers for female professionals by raising awareness among employers.

Target group

Women's networks in the partner country, women in national, cross-border and local partners (organisations, ministries and authorities, commissions)

Time and costs

In addition to working hours, financial support for identified networks and the provision of safe spaces (costs for regular meetings) as well as travel and event costs to enable the participation of women in relevant sector events are also possible.

Oky App

A free app to support young girls with their menstruation and health



Oky app logo

Brief description

Oky is a mobile app that helps girls around the world track their periods and learn more about their physical health. The app provides youth-orientated information on menstrual health and wellbeing, packaged in a fun and safe user interface.

[LINK TO APP](#)

Use cases

- Girls can easily track their menstrual cycle and receive notifications when their next period is expected to start.
- The app offers customised advice on menstrual hygiene, physical changes and general well-being, especially during puberty.
- Especially in regions with limited access to health education, girls receive important information that is culturally adapted to the country context.
- The Oky app code and content is open source, so the use case can be customised to the specific situation or even country context.

Target group

- Girls aged 10 to 19, especially in regions with limited access to information on menstrual health and hygiene.
- Boys can find interesting and informative facts about puberty and other topics relevant to adolescent boys in the encyclopedia.
- Oky provides parents with information about the changes in their adolescent daughters.
- Teachers, health workers or community members can use Oky's encyclopedia to access the latest evidence-based information on menstruation, puberty and reproductive health.

Time and costs

- The app is available free of charge in the App Store.
- Costs will arise if the customisation of the app to a new country context is planned.
- Possible advertising and training costs must also be considered.



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GIZ is responsible for the content of this publication.

