

Operational Collaborative Tool of Ongoing Practices in Urgent Sanitation







Date: 30.09.2024 I Presenter: Claire Papin Stammose

Agenda

- 5 min introduction by GWSC
- 10 min background of the project
- 10 min presentation of OCTOPUS
- 20 min presentation of training modules
- . 10 min QA



Development of the OCTOPUS platform

- Implemented partners UPM and Solidarites international
- Developped in partnership with DPHE Bangladesh
- Implemented in close collaboration with Sanitation actors from Cox's Bazar
- Supported and facilitated by the Global Water and Sanitation Center
- Funded by Bill & Melinda Gates Foundation (BMGF)





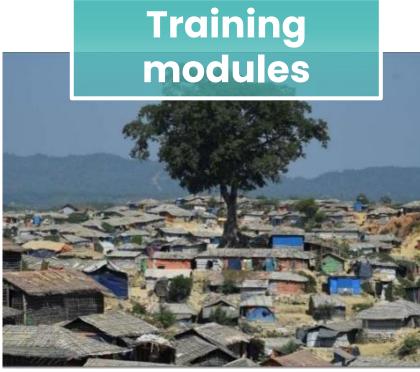




ACTIVITIES













SETTING UP THE PANEL OF EXPERTS

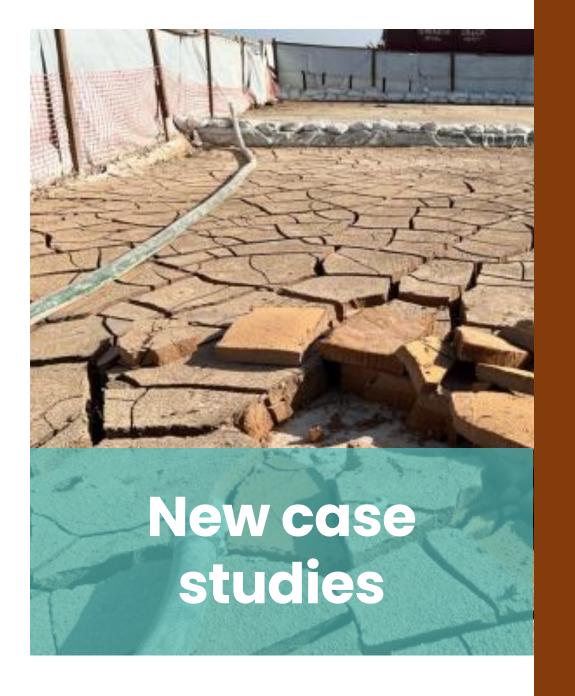
- Identification of 31 experts from Bangladesh and international humanitarian Sanitation Community
- Definition and validation of terms of reference for panel of experts

REVISION OF CASE STUDIES

- Definition of modalities of the revision process
- Facilitation of 4 panels of experts' meetings
- Revision of 8 case studies







Revision of OCTOPUS template

- OCTOPUS template has been reviewed by the technical team
- OCTOPUS template has been modified and improved
- Modifications have been implemented on the platform with support of IT company

Development of new case studies

- Specific focus on Cox's Bazar with consultation of Sanitation Cluster and joint field visits
- Development of case studies from other humanitarian contexts (Lebanon, Syria, Kenya, South Soudan)





OCTOPUS available on SANIHUB



Publish Case Study

23 Case Studies







Anaerobic Faecal Sludge Treatment Plant



OCTOPUS Implemented by: Bangladesh Red Crescent Society, Swedish Red Cross,

Case Study International Federation of Red Cross and Red, Crescent Societies





Description of the emergency context

Currently, there are 929,606 Rohingya refugees residing in 33 congested camps that have been officially designated by the Government of Bangladesh. This population surge occurred as a result of the extreme violence outbreak in Myanmar's Rakhine State on August 25, 2017, which led to an estimated 687,000 Rohingya refugees crossing the border into Cox's Bazar, Bangladesh. The Rohingya refugees have repeatedly sought refuge in Bangladesh due to ongoing persecution. Previous significant influxes occurred following acts of violence in Rakhine State in 1978, 1992, 2012, and once again in 2016. However, the largest and most rapid refugee influx from Myanmar into Bangladesh began in August 2017. Operating within highly congested settings, such as the Rohingya camps, WASH actors face numerous challenges in implementing effective faecal sludge treatment processes that can efficiently remove pathogens. These challenges primarily stem from space limitations, which impose constraints on the inclusion of appropriate, safe, and sustainable processes for treatment.



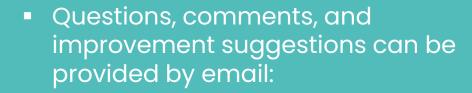








Feedback



octopus@solidarites.org









Operational Collaborative Tool of Ongoing Practices in Urgent Sanitation



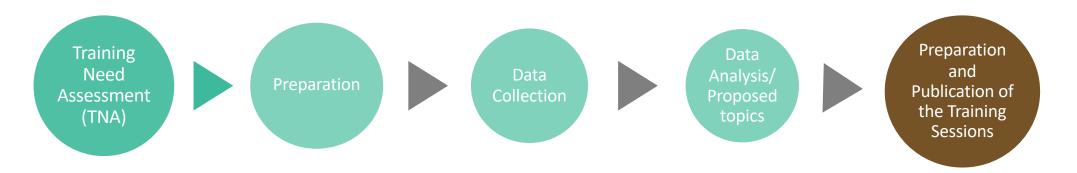




Date: 30.09.2024 I Presenter: Stefanie Abulazm-Thieme

Octopus Training Modules

- Trainings to provide knowledge on faecal sludge management in emergency settings.
- Trainings to enable informed decision-making related to faecal sludge treatment and disposal.

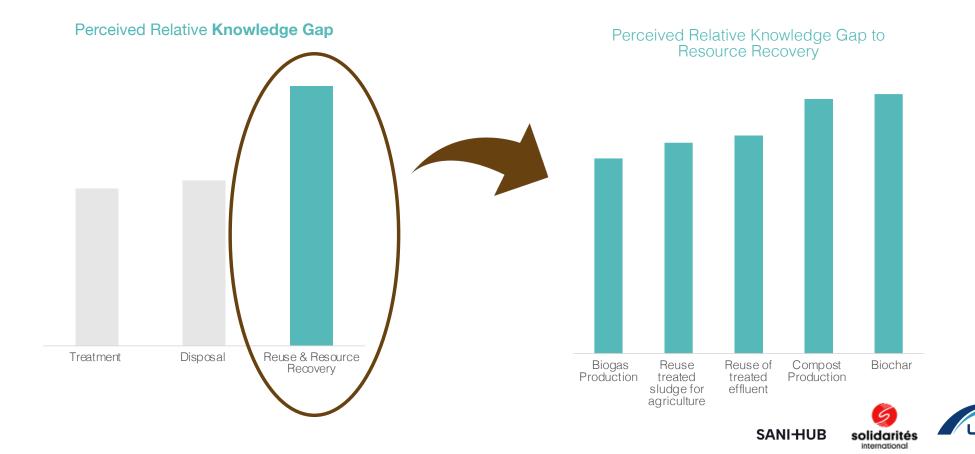




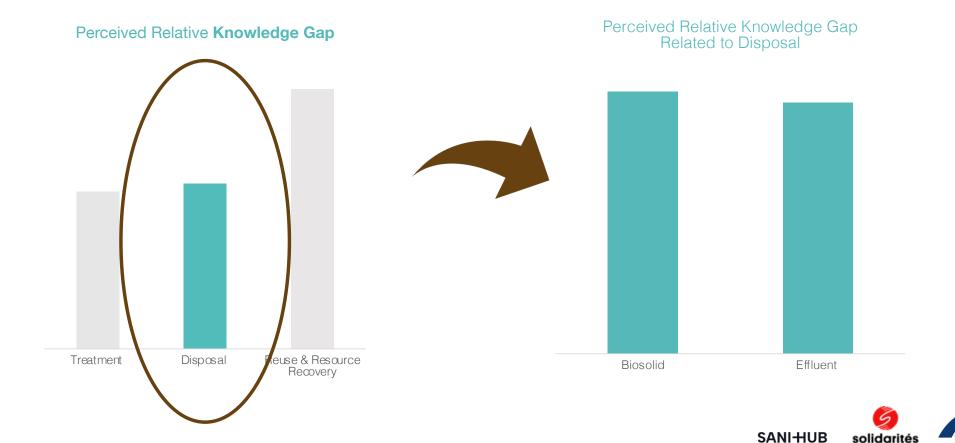




RESULTS OF THE TRAINING-NEEDS-ASSESSMENT



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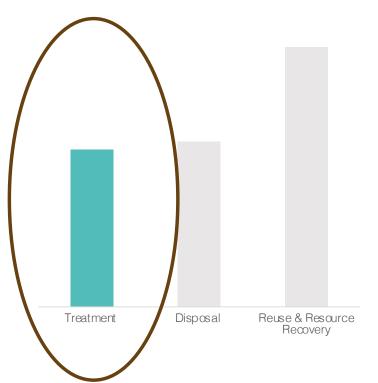


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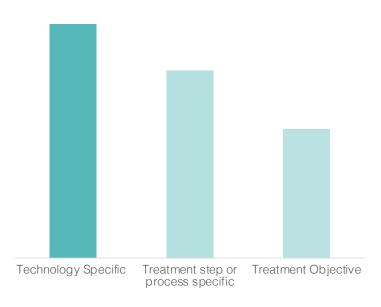
RESULTS OF THE TRAINING-NEEDS-ASSESSMENT







Perceived Knowledge Gap by Sub-Topic of Treatment



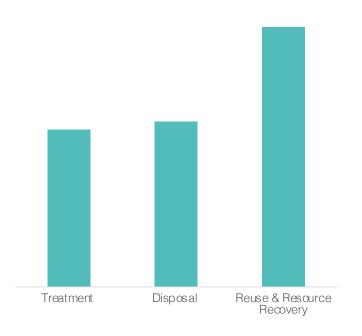




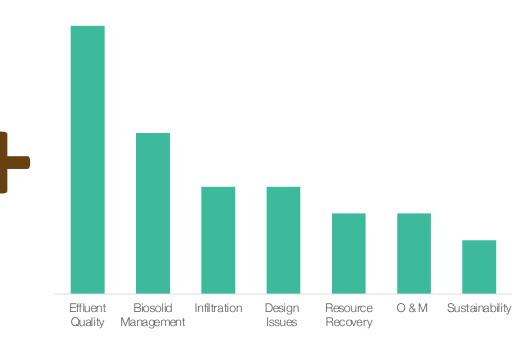


COMBINATION OF TRAINING-NEEDS-ASSESSMENT AND DESK REVIEW

Perceived Relative **Knowledge Gap** based on Training-Needs-Assessment



Main Challenges and Needs based on Desk Review









TRAINING MODULES

• First three training modules, with possibility for additional modules to be published.











LEARNING OBJECTIVES

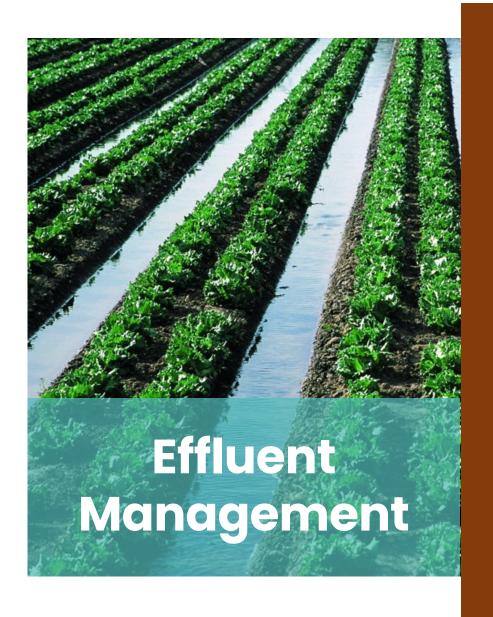
- Introduce the Basics of Anaerobic Digestion and Biogas Recovery.
- Practical Solution during the Stabilisation and Recovery Phase of Emergency Settings.

KEY TOPICS

- Basics of Anaerobic Digestion
- Digestion Technologies and Types
- Process Parameters
- Biogas Installation Planning
- Operation and Maintenance
- Sanitation Biogas Plants in Rohingya Refugee Camp







LEARNING OBJECTIVES

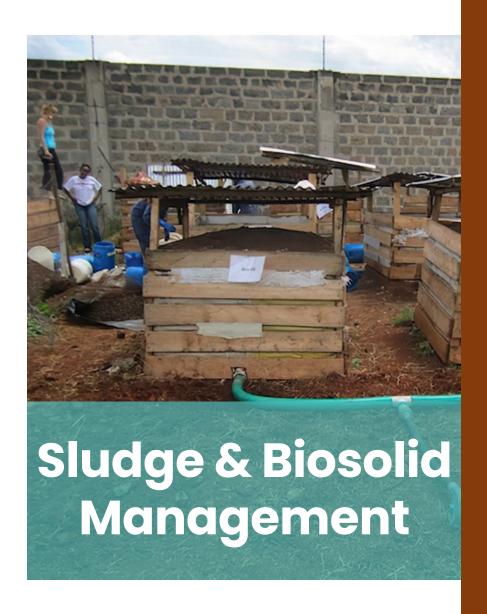
- Introduce the Basics of Effluent Management following Primary Treatment.
- Provide an Overview of Treatment
 Options for Effluent Instead of Direct
 Release into the Environment.

KEY TOPICS

- Overview of Post-Treatment Techniques (i.e., Planted Gravel Filter, Trickling Filter)
- Advanced Technologies (as part of the Reinvented Toilet Challenge)
- Effluent Irrigation
- Effluent Infiltration







LEARNING OBJECTIVES

- Provide an Overview of Appropriate Sludge and Biosolids Management Practices.
- Provide Practical Solutions that ensure Safe and Responsible Handling up until Safe Disposal or Reuse.

KEY TOPICS

- Pretreatment and Treatment Options
- Reuse of Sludge (with Focus on Agricultural Purposes)
- Burial or Disposal of Sludge (i.e., Deep Row Entrenchment)
- Burning of Sludge (i.e. Pyrolysis)





KEY FEATURES

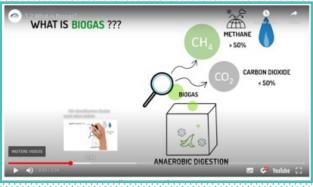


Functionalities & Elements

Case Studies / Real-Life Examples



Explanatory Videos



Further Reading Material

Further Reading: • Results of faecal sludge analyses in Kampala, Uganda - Pictures, observations for 76 samples. (Link)

- observations for 76 samples. (Link)

 The Characterization of Faeces and Urine: A Review of the Literature
- Technology. (Link)

 Database for the physicochemical composition of (treated) lignor
- macroalgae, various feedstocks for biogas production and bioch
- Sampling for Faecal Sludge and Other Liquid Wastes in Emergence
- Methods for Faecal Sludge Analysis p. 257 268 (Link)

Quizzes and Exercises

Quiz									
Biog	as Sanitation > 1 Basics of Anaerobic Digestion > 1.4.1 Biodegradability of various feedstock								
	is the main factor used to assess the suitability of organic waste for a ct on biogas production potential?								
0	A) Total Solids (TS)								
0	B) Volatile Solids (VS)								





Progress Tracking and Certification

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Participatory Contribution

How to OCTOPUS



- Share your experiences and knowledge
- Add case studies to the platform

Use our training on "How to OCTOPUS"

Training Resources

SANIHUB

 Add trainings and training resources by contacting octopus@solidarites.org



THE WEBSITE







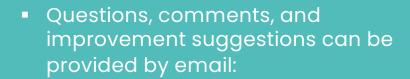
Click the following link: https://sanihub.info/courses/







Feedback



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