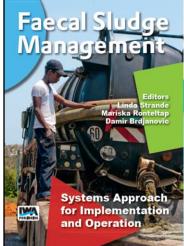


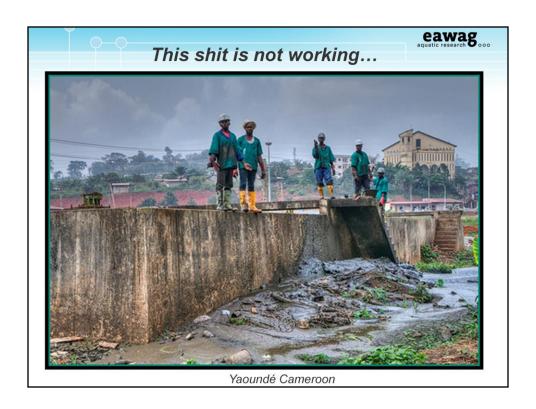
FSM – Faecal Sludge Management: Systems Approach for Implementation and Operation



FSM 3 - Hanoi



Dr. Linda Strande Sandec: Department of Water and Sanitation in Developing Countries 22 January 2015



Historically, waterborne, sewer based systems have been seen as the most viable, longterm solution to fulfill sanitation needs

But this is obviously not working, and we see the result of this everywhere...

this is a facility in Yaounde, a city of 2.5 million people where there is not a single functioning WWTP



In the last 10 or 15 years, worldwide the focus has started to shift, and people are starting to consider onsite or decentralized technologies as not only being long-term viable options, but possibly the most sustainable alternative

The reality is, that billions of people in Africa, Asia, and Latin America are currently served by onsite sanitation technologies

Management of FS from these systems, is obviously going to remain an in issue in the future

Onsite sanitation technologies can be the most sustainable option, IF they are managed properly, throughout the entire FSM service chain



Although we have a vision of onsite being the most sustainable, the current reality, is that untreated sludge is just going directly into the environment

thinking beyond providing toilets at the household level!!

Household level cannot afford emptying

If they can afford, truck cannot access

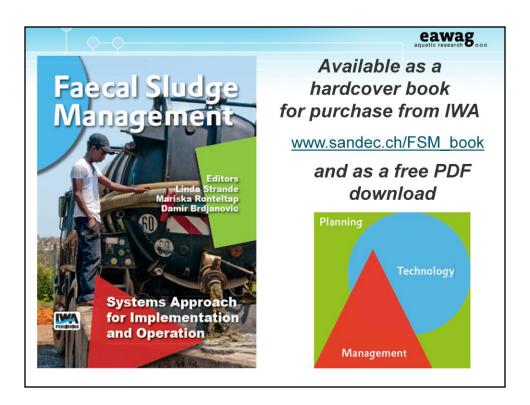
If they can afford and truck can access, then there is no treatment facility, or if there is, truck cannot afford to transport it accross town

FSM is about managing interactions at every step in the chain!!

As a result, raw sludge is pervasive in the environment, sanitation is not being achieved, even if access to «improved» sanitation is being provided

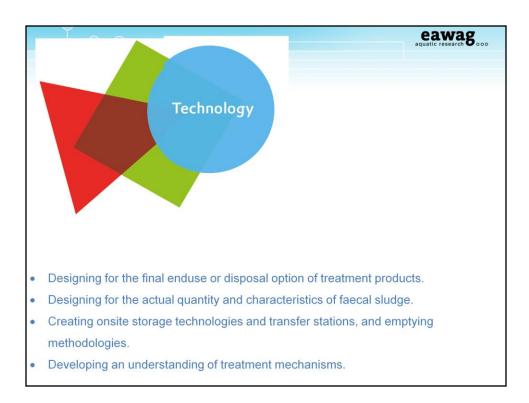


These are currently the major roadblocks to sustainable FSM They are also included in Chapter 18 of the book



This is our new textbook which presents an integrated approach to FSM

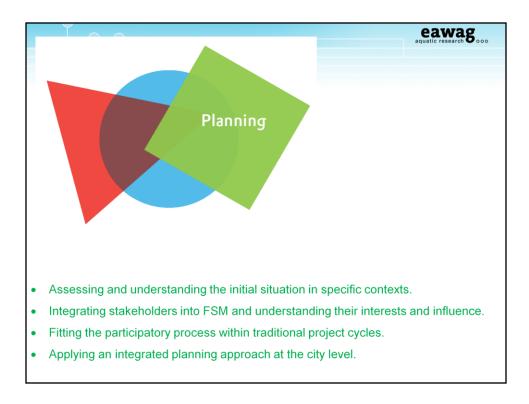
One of the key points of the book is that technology solutions cannot exist in isolation, sustainable solutions will only be developed with an approach that employs integrated planning, management and technology



These are some of the key objectives of each of the sections also included in chapter 18

Incorporating management concerns from the beginning of the project planning. Setting up legal and regulatory frameworks for FSM and introducing enforcement mechanisms.

Considering different models of financial transfers.



FSM Planning Scheme "From A to Z").

