

SMART WaSH solutions in times of Corona

Part 3

Ideas to reach SDG6 and other water related SDGs

Webinar May 6th, 2020

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Challenges

- **2.1 Bln people without safe drinking water**
Broken piped systems, unsafe sources, recontamination in storage
- **Leave no one behind**
Reach the poorest, the remote rural areas
- **Sustainable services**
Broken handpumps lack of management
- **Corona crises**
Lock down, limited movement,..

Ideas

1. Household Water Treatment
2. Family Based Management
3. Innovation in technology
4. Scale up self-supply / farm wells
5. Focus on the 3 Ts

Household Water Treatment

- Most cost-effective (intermediate) option for safe water at point of use
- Of all HWT options, filters are most effective because of consistent use
- Now there are many effective attractive affordable options
- Cost safe water with sustainable HWT \$1-\$2/ person/year

Challenges

- Awareness, need for large scale campaigns. Example Tunsai filters, Cambodia
- Build up commercial supply chains of range of affordable filters.
- Payment systems for those who can not pay in 1 time
- Support for the poorest

Family Based Management

Example Zambia

- Rope pumps are installed at premises of a family
- Condition to get subsidy is that the pump generates income

Results

- Over 95% of pumps are functioning
- Families with a pump share (free) water with average of 50 people
- So family owned becomes community served.



Innovation in technology

If cost of wells, pumps etc. reduce by 50%, more people can be served

- Cost can reduce with “new” technologies like manual drilling, EMAS and rope hand pumps, recharge to avoid dry wells, etc.
- Produce technologies locally. Example a local produced SHIPO drill set is 4 times cheaper than importing a similar drill set.

Challenges

- Awareness, need for examples
- Build up commercial supply chains of SMARTechs
- Payment systems for those who can not pay in 1 time
- Support for the poorest



Promote self supply, farm wells

Water for domestic and productive use is essential for rural development

- All farmers in Europe started with a well and hand pump
- In USA 45 million hand pumps were sold to farmers
- Same logic goes for Africa
- If cost of water technologies reduce, more small farmers can afford it

Challenges

- Create awareness, create demand
- Build up commercial supply chains of affordable technologies
- Payment systems for those who can not pay in 1 time
- Support for the poorest



Focus on 3 Ts

- Key for action mentioned above are the 3 Ts
- 1 Training, 2 T..... 3 T
- Need for large scale capacity building on all topics and all aspects
- A kind of Marshall plan for capacity building?

What can SMART Centres do for you?

Trained entrepreneurs can

- Drill wells
- Produce, install, repair pumps
- Produce washbuckets, washstations
- Train in Tippy Tap, Dip Tap etc.
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- Available as we speak
- No imports needed
- SMART Centre for monitoring/guidance/quality control

