

Safe Water Optimization Tool for Humanitarian Response:

Project Summary

Problem

Failing to ensure water safety can lead to disease outbreaks in emergency situations. Current emergency water treatment guidelines are “one-size fits all” and not based on field evidence.

Proposed Solution

Develop, pilot, and scale a mobile-based platform for water quality monitoring / safety optimization where MSF is providing safe water supply to populations (refugee/IDP camps, outbreak control interventions, health facilities and therapeutic feeding centres).



Potential Impact

- High relevance of waterborne disease issues and MSF’s emergency health response
- Innovative approach using AI to solving specific water and sanitation problems

Viability

- Strong project team; recognized Watsan capabilities and deep MSF experience
- Rigorous approach in Watsan quantitative analysis with web-based AI platform

Risk Mitigation

- Builds upon a pilot in Uganda tested with OCA
- Taps into external expertise: University of Toronto and York University AI and Global Health experts; Environmental Health Forum

Scalability

- Strong linkage to OCA and working group; collaborative approach; field testing

Area/Type: Medical Research and Development; Incubator

Sponsor/Support: OC Amsterdam

Length/Project Status: 2 years; **ON HOLD**