



Professor Elizabeth Tilley

«Knowing that so much of the world suffers from poor health because of easily preventable diseases is what motivates my work; I do not find it acceptable that humans on our planet still die from diarrhea or poor air quality.»

Global Health Engineering

Institute of Design, Materials and Fabrication

We look at big, persistent and globally-relevant problems from a truly novel, interdisciplinary perspective. We unite expertise in engineering, economics, psychology, data science, and sociology. Though we develop and assess technology, our interest is in improving health. In order to rapidly reach scale, we conduct all of our work in-country, together with the relevant users, policy-makers and researchers who are ultimately able to adopt or promote large-scale innovation.

Focus

- Waste fraction separation and valorisation
- Excreta management and nutrient recovery, especially phosphorus
- Mental health impacts of technology and behavior change interventions for use

Tools and methods

- Incentive-driven, economic field experiments
- Qualitative methods derived from geography and sociology
- In-situ, appropriate technology development and piloting under resource constraints

Further details online:
www.ghe.ethz.ch

