

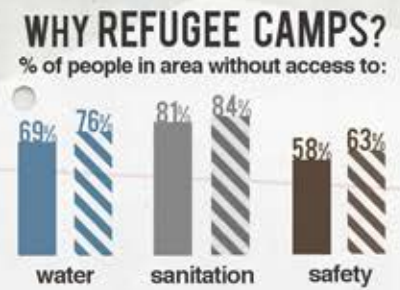
A BETTER WORLD FOR THE OVERLOOKED

"I GET UP 2 HOURS EARLIER ONLY TO QUEUE UP WITH HUNDREDS OF REFUGEES TO WASH UP IN TIME FOR SCHOOL. THE TAPS TRICKLE SLOWLY AND THE BATHROOM IS ALWAYS CHOKED. I DON'T LIKE IT HERE."

- Rahel, 9

W
WHY

slums
refugee camps



WHY SANITATION?
255 highest no. of refugees per toilet
51 average no. of refugees per toilet

WHY ZA'ATARI?
67% of refugees need to share a cubicle with 180 others

za'atari camp

ACTIVITIES	
ENVIRONMENT	
INTERACTIONS	
OBJECTS	
USERS	REFUGEES

G
GOALS & MOTIVATIONS

improper sanitation not only stimulates spread of pathogens and diseases, but also directly increases chances of sexual attacks on women and children.

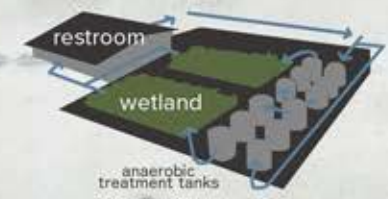
this inhibits not only education, safety and livelihood, but also the freedom of every single refugee.

we aim to alleviate this infringement of basic human rights by overcoming this obstacle.

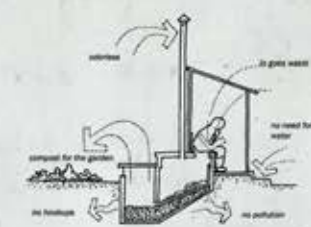
P
PRECEDENCES



VENTILATED PIT LATRINE
natural ventilation system but difficult to build



LIVING MACHINE
natural plant-based filtration but costly

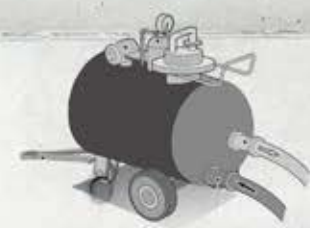
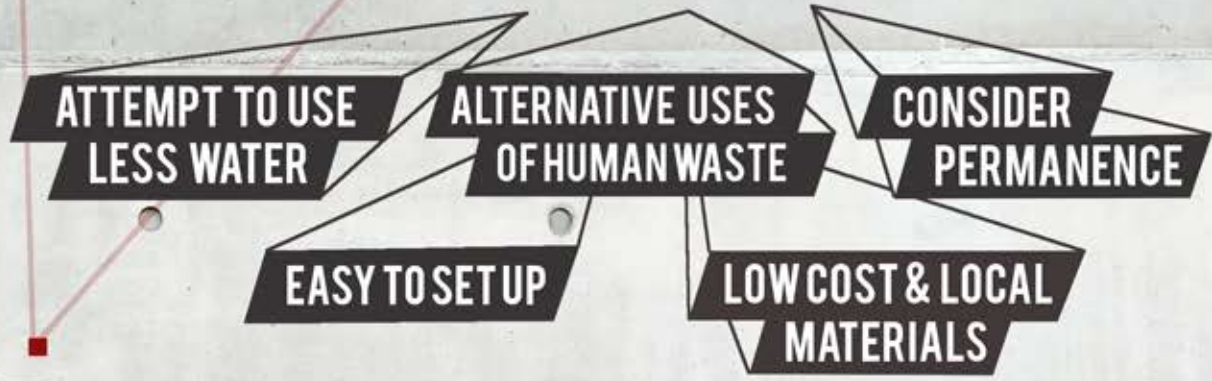


ECOLOGICAL DRY TOILET
natural ventilation system but difficult to build



UNBATHROOM
portable cardboard toilet but lacks a disposal system

S
STRATEGIES



VACUTUG
system to empty septic tanks but needs some manual regulation

D
DESIGN BRIEF

to design a product or system that allows refugees to use toilets safely without contamination issues, spread of disease, smell or improper disposal of waste. we intend to explore possible ways human waste could benefit the camp, in the areas of energy, ecosystem and sustainability.