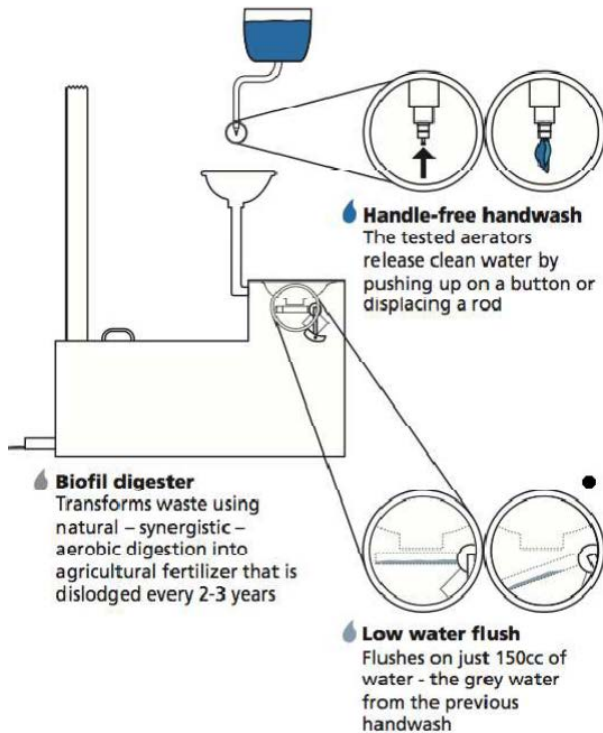


Haitian Health Foundation Improving Sanitation through Sustainable Toilets



Microflush Toilet



The Global Sustainable Aid Project (GSAP) Microflush Toilet was created and field tested by Professor Stephen Mecca, with the help of GSAP's research partners at the S-Lab at Providence College. This toilet is an off-grid, sustainable, low-cost, environmentally friendly, odor- and fly- free toilet that reuses a small amount (1 cup) of "grey" water from a previous user's hand wash to isolate waste and flush the toilet.

With the Microflush toilet, a user's flush of waste falls directly into a filter-digester, where the solids and liquids are rapidly separated. The solids are composted in an aerobic process enhanced by simple earthworms (*e-fetida*) found anywhere in the world. The small filtrate volume is processed naturally in a soak hole – a micro version of a rural leaching field in the US. There is no dislodging of sludge or transportation to a waste processing plant. Every 2 years (based on an average 5-7 person household), the rear cover is removed and organically-rich compost is harvested for use in agriculture.

Haitian Health Foundation (HHF) partnered with GSAP to bring these toilets to Haiti and to

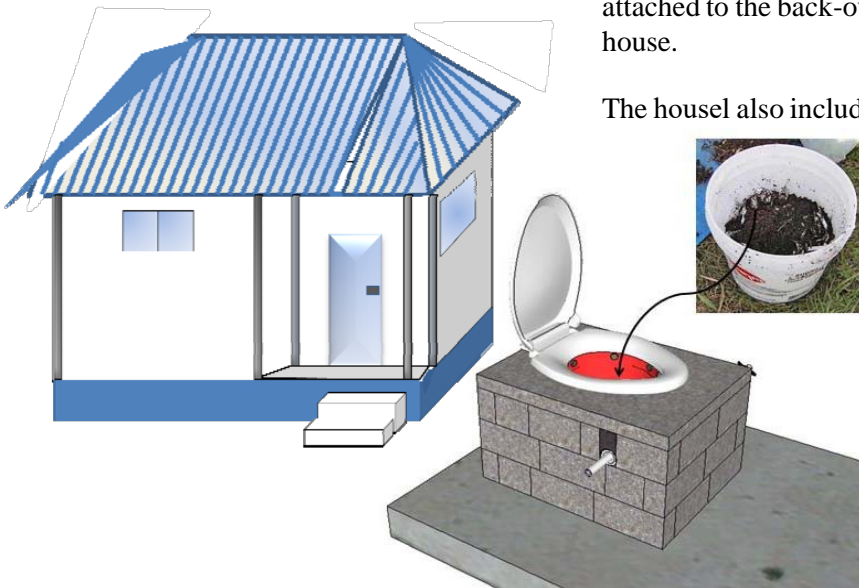
facilitate a unique and financially sustainable distribution system that creates small businesses and jobs in connection with the toilets. The first two Microflush toilets built in Haiti are located at HHF's Center of Hope facility. The construction of these toilets served as training for several members of the Jérémie community.

Instead of building latrines, HHF decided that the construction of new houses would include the microflush toilet, attached to the back-outside wall of the house.



A typical house in the rural villages served by HHF

The house also include a low-cost water filtration system and a 55-gallon water tank, all from recycled materials available locally. The house will have a small system for lighting as well, comprised of two light bulbs with independent switches, powered by a small solar panel.



A newly-completed Happy House