



Towards City-Wide Sanitation: Growing a Transformative Sanitation Service in Haiti



WHAT WE'RE UP AGAINST

The world is experiencing an unprecedented sanitation crisis with more than half of the world lacking access to a toilet that safely manages human waste. As water sources have become increasingly polluted from human waste, the earth's soil nutrients have rapidly been declining, leading to extreme vulnerability to climate-related risks, reduced agricultural production, poverty and malnutrition.

In Haiti, only 32% of the population has access to improved sanitation and less than 1% of wastes are safely treated, leading to one of the highest rates of childhood diarrhea globally.

As cities expand at staggering rates, it's critical that the sanitation sector develops innovative approaches that work in dense urban areas to avoid exacerbating the toil of preventable waterborne disease.

SOIL is scaling our off-grid sanitation solution across urban communities in urban Haiti.



Get in touch Email: development@oursoil.org
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ABOUT SOIL

Since 2006, SOIL has been expanding access to safe, affordable, and dignified sanitation services in some of Haiti's most vulnerable urban communities. SOIL currently provides lifesaving sanitation to over **22,500 people** through our household sanitation service and safely treats 100% of the waste collected from the households; in turn transforming the waste into **375+ metric tons** of nutrient-rich compost annually through our ecological waste treatment.

IMPROVED SANITATION

22,500+ PEOPLE

WITH ACCESS TO SOIL'S DIGNIFIED, GROWING URBAN SANITATION SERVICE.

PUBLIC HEALTH

1,500+ TONS OF WASTE

REMOVED ANNUALLY FROM DENSE URBAN NEIGHBORHOODS, PREVENTING THE SPREAD OF WATERBORNE DISEASE.

ECONOMIC GROWTH

87+ STAFF

PROVIDED WITH DIGNIFIED LIVELIHOODS IN THE FORMAL SANITATION SECTOR.

CLIMATE MITIGATION

3,000+ TONS OF GHGs

MITIGATED ANNUALLY BY KEEPING FECAL SLUDGE DRY AND APPLYING OUR AEROBIC COMPOSTING PROCESS TO ALL COLLECTED WASTE.

SOIL'S AWARD WINNING SERVICE

provides safe hygienic, climate-resilient, and dignified urban sanitation services and has received recognition from:



SOIL'S ECOLOGICAL SANITATION SERVICES REDUCE GREENHOUSE GAS EMISSIONS BY **0.63 METRIC TONS OF CO₂e PER HOUSEHOLD PER YEAR.**



SOIL'S COMPOSTING PROCESS EMTIS UP TO 92% LESS GREENHOUSE GAS EMISSIONS THAN TRADITIONAL WASTE TREATMENT SYSTEMS.



CAPTURING NUTRIENTS FROM HUMAN WASTE RECYCLES & RETURNS THEM TO THE SOIL



AT ITS CURRENT SCALE, SOIL'S SANITATION SERVICE SAVES 70 MILLION GALLONS OF WATER/YEAR COMPARED TO FLUSH TOILETS.



SOIL'S FLAGSHIP SERVICE, **EKOLAKAY**, PROVIDES DESIRABLE AND AFFORDABLE HOUSEHOLD SANITATION SERVICES DESIGNED TO MAXIMIZE CLIMATE RESILIENCE AND ADAPTATION ACROSS THE ENTIRE SANITATION VALUE CHAIN.

HOW IT WORKS



Customers in SOIL's service zones pay a small monthly fee for a household container based sanitation (CBS) toilet



Containers of waste are collected weekly and brought to one of SOIL's waste treatment facilities.



All waste is treated and transformed into compost in a process that respects World Health Organization standards.



SOIL's compost is sold to support agriculture, reforestation, and climate change mitigation efforts in Haiti.



EKOLAKAY HAS GROWN FROM A PILOT PROJECT IN 2013 TO A SERVICE WHICH NOW REACHES OVER **22,500** URBAN RESIDENTS WITH SAFE AND DIGNIFIED ACCESS TO HOUSEHOLD SANITATION.

WHAT'S NEXT

SOIL AIMS TO REACH **15%** OF THE URBAN POPULATION OF CAP-HAITIEN, HAITI, IN THE COMING YEARS.

How SOIL Partners in the Carbon Market

Similar organizations, despite their proven carbon mitigation efforts, struggle to compete in the traditional carbon offset market due to the prohibitive costs involved. An alternative approach is **direct climate partnerships**, exemplified by SOIL's collaborations with Global Water Intelligence.



This method allows companies to mitigate emissions by partnering directly with the source of carbon mitigation, ensuring that 100% of funds support mitigation efforts. This approach enhances the impact of carbon offset projects and supports broader social and environmental outcomes, presenting a more cost-effective solution for meaningful contributions to global climate goals.

For inquires about a direct climate partnership with SOIL contact info@oursoil.org