



ECOLOGICAL SANITATION IN HAITI: TRANSFORMING A PUBLIC HEALTH PROBLEM INTO AN ENVIRONMENTAL SOLUTION

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Eat



Excrete



Compost



Grow



EcoSan
Cycle

Why is urban sanitation so hard?



Photo credit: SOIL

Rapid urbanization

January 12, 2010



Rapid urbanization

December 12, 2012



Image © 2013 DigitalGlobe

Photo credit: Ayiti Kale Je

Traditional technologies



Onsite sanitation



Sewers

Why is urban sanitation so hard?



Space and high groundwater



Photo credit: Erin Strain (for SOIL)

Flooding risk

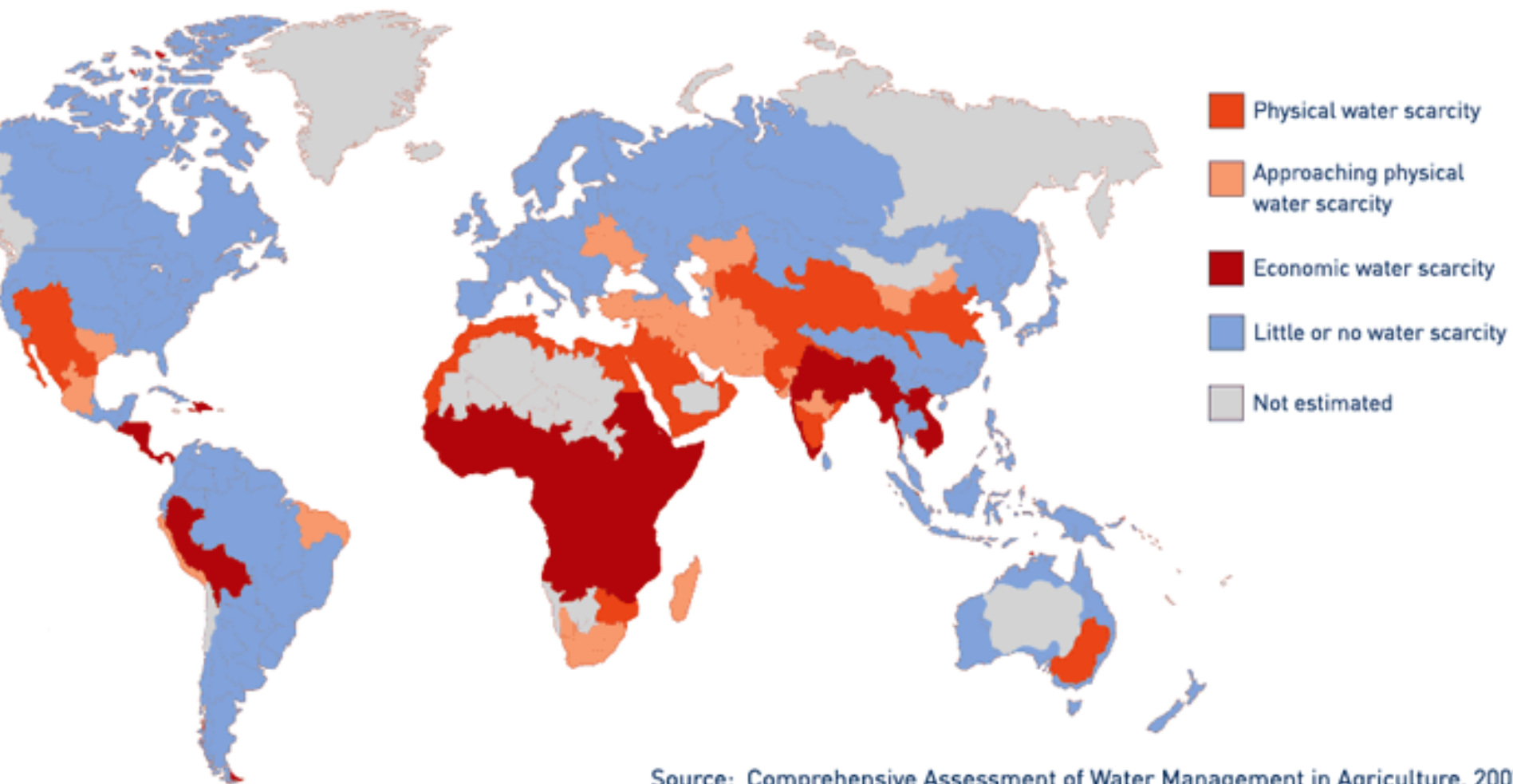


Informality



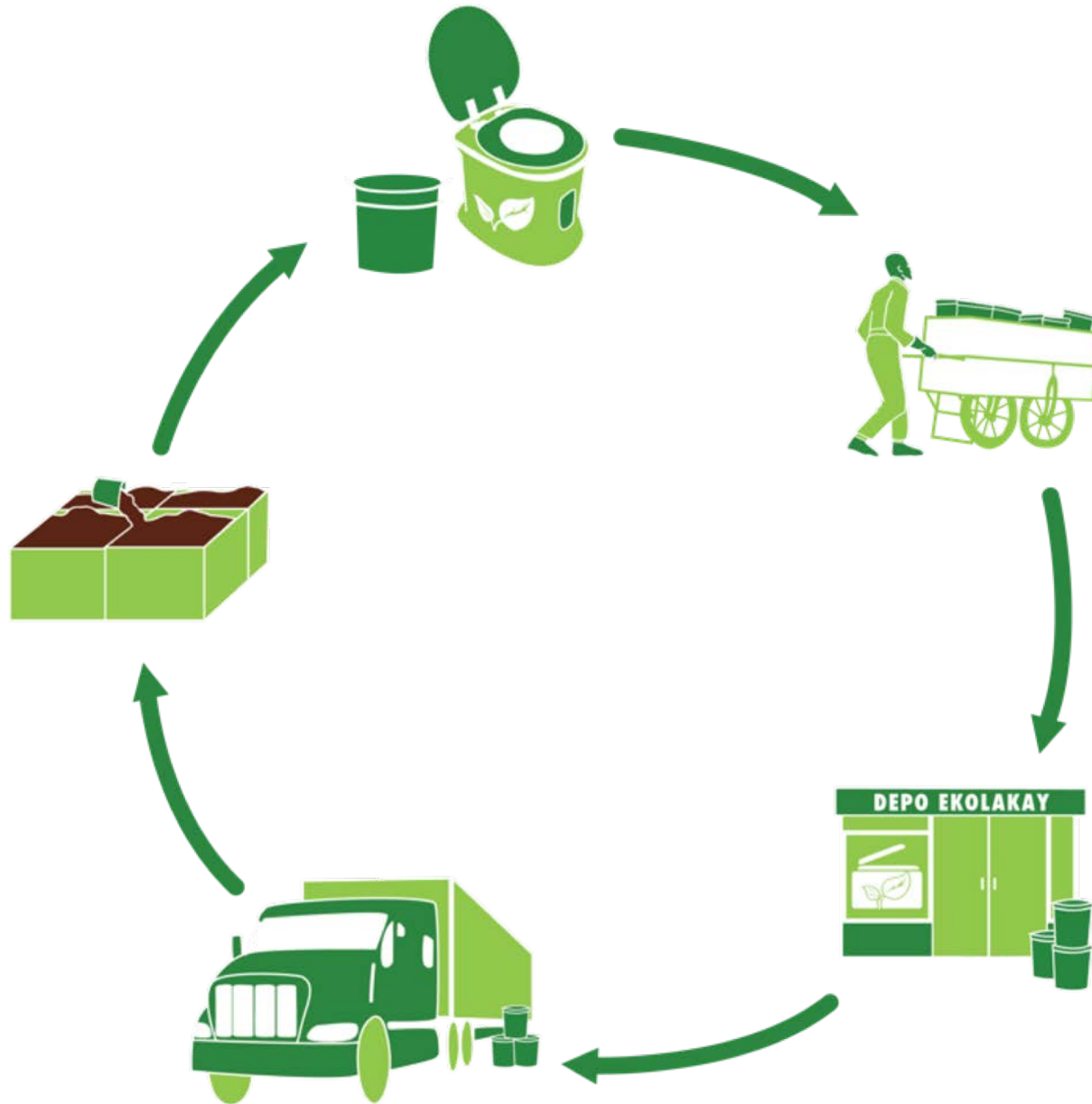
Photo credit: Slum Dwellers International

Reliable access to water



Source: Comprehensive Assessment of Water Management in Agriculture, 2007

SOIL's approach to sanitation





How it works



How it works



How it works



How it works



How it works



How it works



How it works



How it works



How it works



How it works



How it works



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How it works



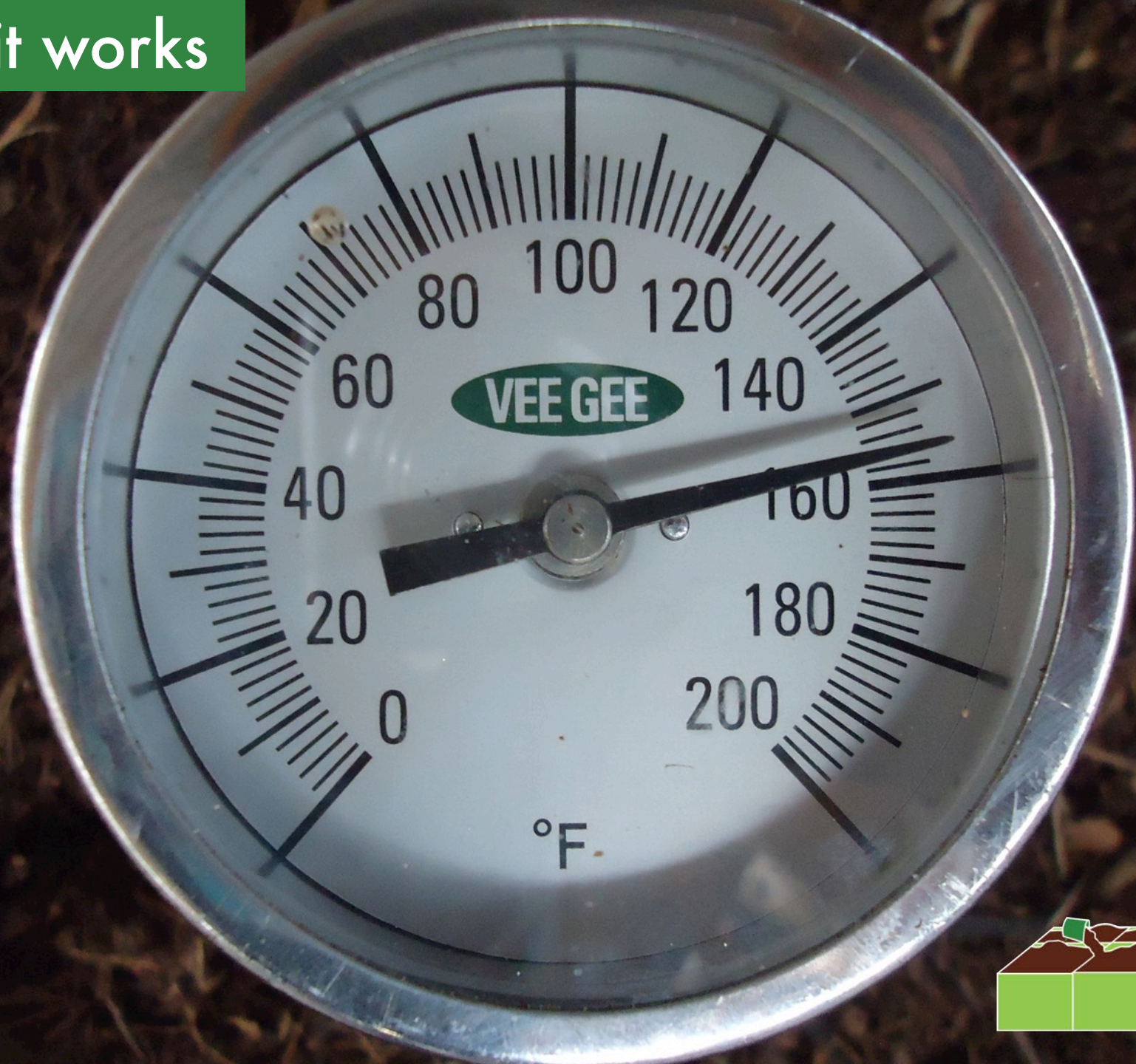
How it works



How it works



How it works



How it works



How it works



How it works



How it works



How it wo



KONPÒS LAKAY

Angrè Òganik
Fabrike an Ayiti Pa:



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Sit entènèt: www.oursoil.org

Azòt (N)	> 2.7%	pH	6.7 - 7.2
Fosfò (P)	> 1.4%	Imidite	> 30%
Potasyòm (K)	> 0.7%	Rapò C:N	<11:1
Kalsyòm (Ca)	> 2.5%	Matyè Òganik (MO)	> 50%
Mayezyòm (Mg)	> 0.8%	Materyèl Inaktif	< 1.5%
Kabòn (C)	> 27%		

Engredyan : Bagas kann, po pistach, dechè moun

Itilizasyon : Melanje $\frac{3}{4}$ tè ak $\frac{1}{4}$ Konpòs Lakay, pou plis enfòmasyon sivouplè rele Biwo SOIL la

Konsèvasyon : Estoke nan yon kote ki fre, pa mete nan soley.



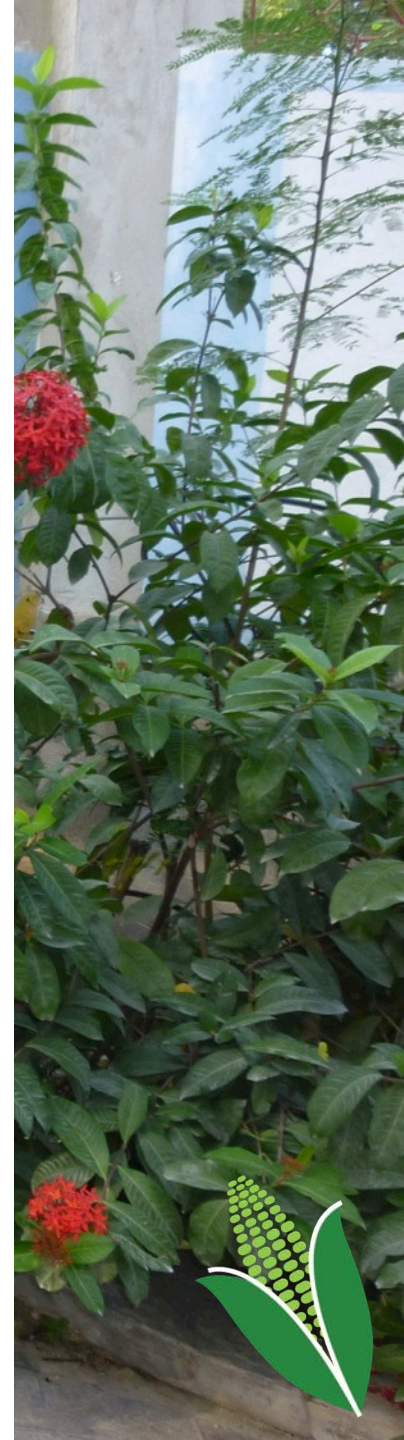
Tanpri
resikle m!

Biwo:

Pil:

Dat Anbalaj:

Pwodwi 100% Ayisyen



How it works



How it works



Why it matters

"We have so many resources being wasted in Haiti – with this toilet we can change that"

Bertony Merzier, Petit Place Cazeau



Get involved

- ✓ Sign up for the monthly newsletter at www.oursoil.org
- ✓ Join the conversation on social media @SOILHaiti
- ✓ Ask questions!



How it works

HOUSEHOLD TOILET



Locally
manufacture
d toilet



Customize
d small
primary
transport

WASTE TREATMENT



Multiple
decentralised
depots



Large truck for
secondary
transport



Treatment and
transformation



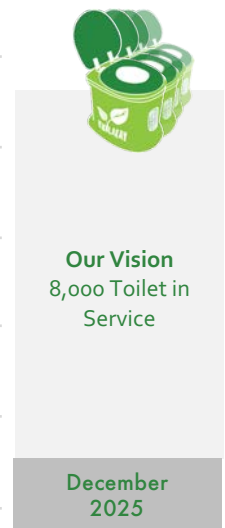
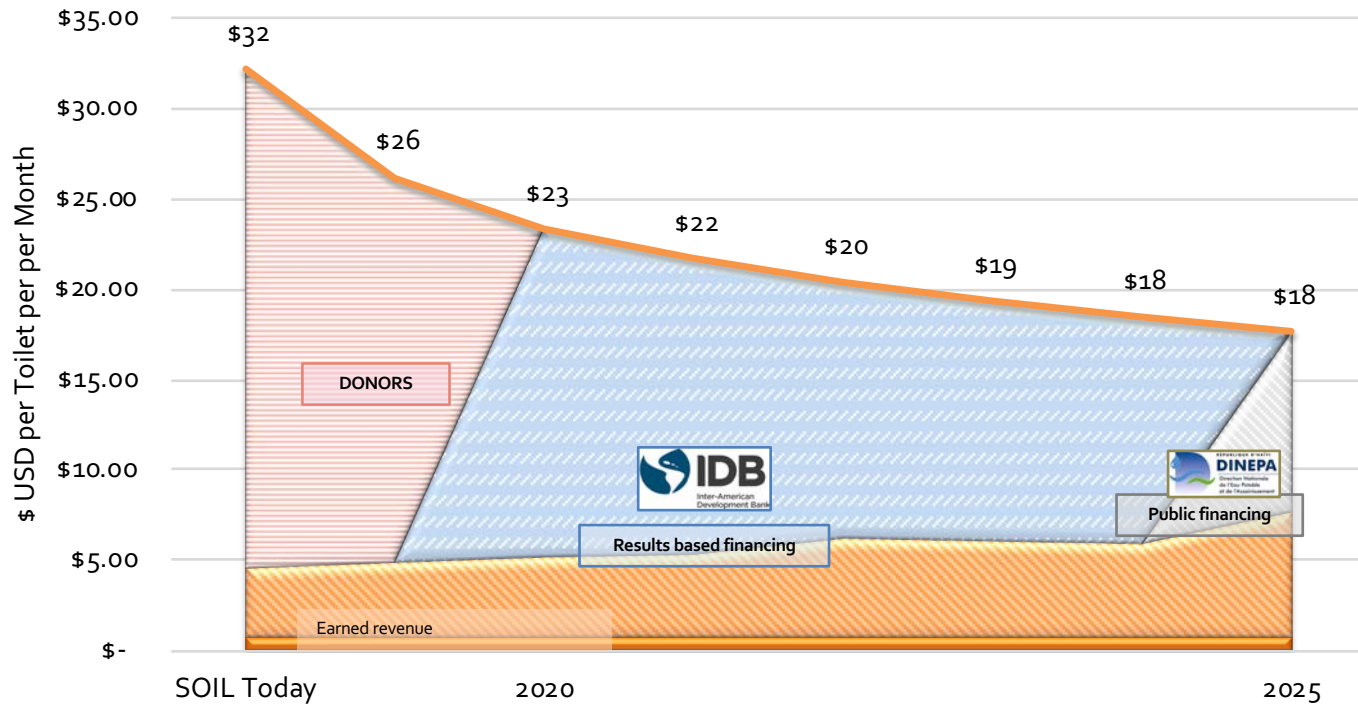
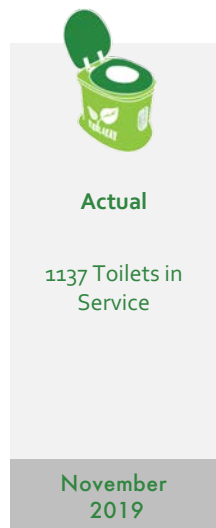
Pathogen
testing of
final
product



Compost
sold
commercially



How it works



Total cost to the public sector 2025 - \$10 USD / household/ month (**\$20 / person / year**)

Social Impacts

JOB CREATION



IMPROVED SECURITY FOR WOMEN & GIRLS



IMPROVED ACCESS FOR PEOPLE WITH DISABILITIES



Environmental Impacts

CLIMATE CHANGE MITIGATION



FOOD SECURITY



DISASTER RISK REDUCTION & CLIMATE CHANGE RESILIENCY



FRESHWATER CONSERVATION



SOIL Team

