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WASCO – St Lucia

CARIBSAN: Context

Research Projects in Guadeloupe & Martinique (ATTENTIVE, 2013-2017)

Wastewater treatment using **constructed wetlands** adapted tropical conditions

(INRAE & Water Offices)

Search a local plant : Heliconia Testing the full-scale technique



Treatment Wetlands in tropical climate

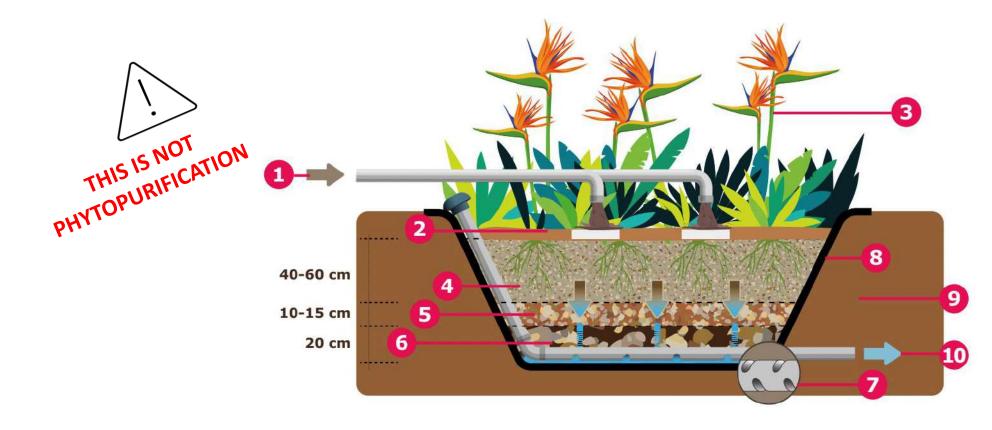
- → Technology particularly adapted to tropical and insular context:
 - ✓ Robustness & climate-resilient
 - ✓ Modularity
 - ✓ Simple maintenance & economic
 - ✓ High pollution treatment rate







Constructed Wetland A Nature-based solution

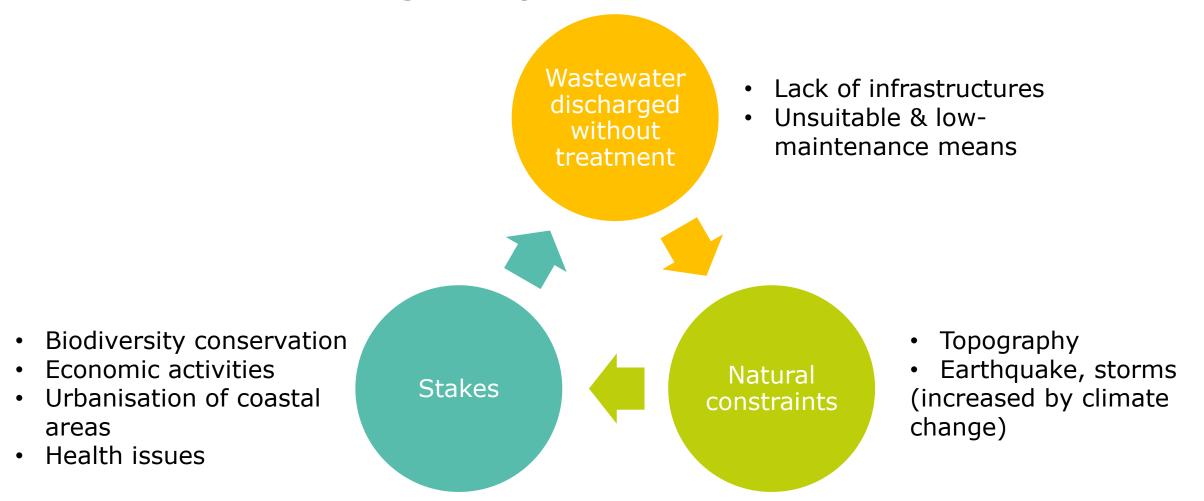


- **1-** influent (raw wastewater screened)
- 2- surface organic deposit (sludge)
- **3-** the stems pierce the organic deposit and prevent from clogging
- 4- filtering layer
- 5- transition layer

- 6- drainage layer
- 7- drainage system
- 8- waterproof liner
- 9- original soil
- **10-** effluent (treated wastewater)

CARIBSAN: a shared Caribbean context

Caribbean territories are fragile ecosystems where wastewater treatment is insufficient



→ Reduce the impact of wastewater is crucial

CARIBSAN

= CARIBBEAN SANITATION NATURE

→ Promote constructed wetlands for wastewater treatment in the Caribbean























CARIBSAN objectives



CARIBSAN objectives

- Enhance Caribbean cooperation among actors on sanitation
- Promote treatment wetlands for wastewater treatment
- Disseminate knowledge on this technique



INTERREG Programme (European Union)

Objective #7 «Protect and enhance the Caribbean natural heritage through the implementation of joint strategies and tools"



UN Development Programme

Sustainable Development Goal #6 "Clean water and sanitation for all" by 2030

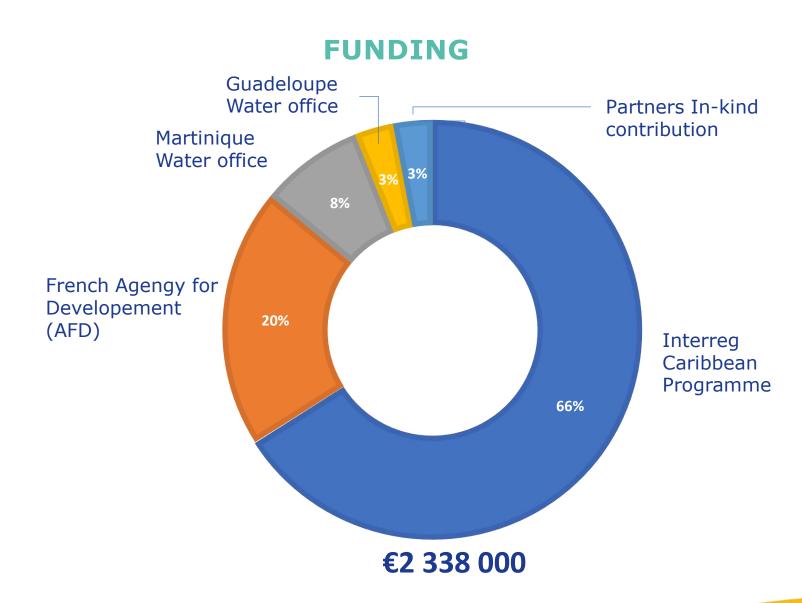
CARIBSAN project

DURATION



Phase 1
September 2021 to June 2023

→ <u>Next phase</u> for building Treatment wetlands (2023 - 2025)



CARIBSAN Workplan



CARIBSAN: Project coordination





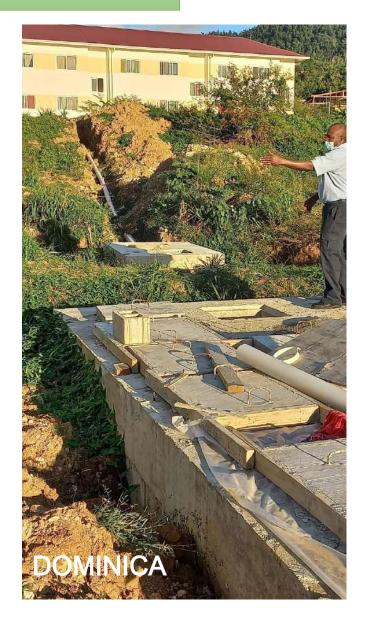


Sign « Together » in French sign language

CARIBSAN: Preliminary studies







CARIBSAN: Capacity building





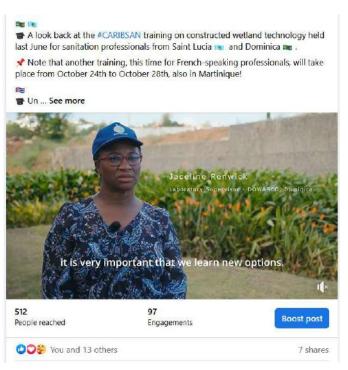




CARIBSAN: Communication











CARIBSAN: Cooperation







What's next?

2 training session in April & May 2023

During 1 week in Martinique with field visits (1 in french, 1 in spanish)



Preliminary studies

Caracterization of waste water in St Lucia, Commonwealth of Dominica

Caribbean conference in June 13 & 14th, Martinique
Presentation of results of Phase 1 and Kick-off meeting for CARIBSAN 2

CARIBSAN 2

Starting in July, 2023 > 2025

- Building Constructed wetlands
- Modelling tool replicable for different territories

THANK YOU MERCI MUCHAS GRACIAS MèSI ANPIL

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