

# Transforming Environmental Crises into value-chains

**Seaweed invasions to social positive impact, value-add products, and carbon sequestration**



**CLIMATE CHANGE is having irreversible effects.  
The Caribbean can take advantage of it!**



# Sargassum: the coastal communities are the ones suffering the most

Sargassum  
invasions  
directly affect  
the coastal  
ecosystems,  
marine  
species,  
human health



# Sargassum consequences have a wide reach

THE WHITE HOUSE  Administration [Priorities](#) [COVID Plan](#) [Briefing Room](#) [Español](#) [MENU](#)

JULY 25, 2022

## President Joseph R. Biden, Jr. Approves U.S. Virgin Islands Emergency Declaration

[BRIEFING ROOM](#) [PRESIDENTIAL ACTIONS](#)

Governor Bryan Declares State of Emergency To Mitigate Impact of Sargassum Inundation on Territory



ENERGÍA ELÉCTRICA

### ¡Más apagones! Fuera de servicio generadora Itabo por sargazo

Diario Libre 18 / 06 / 2019, 12:11 PM

Home / Economía

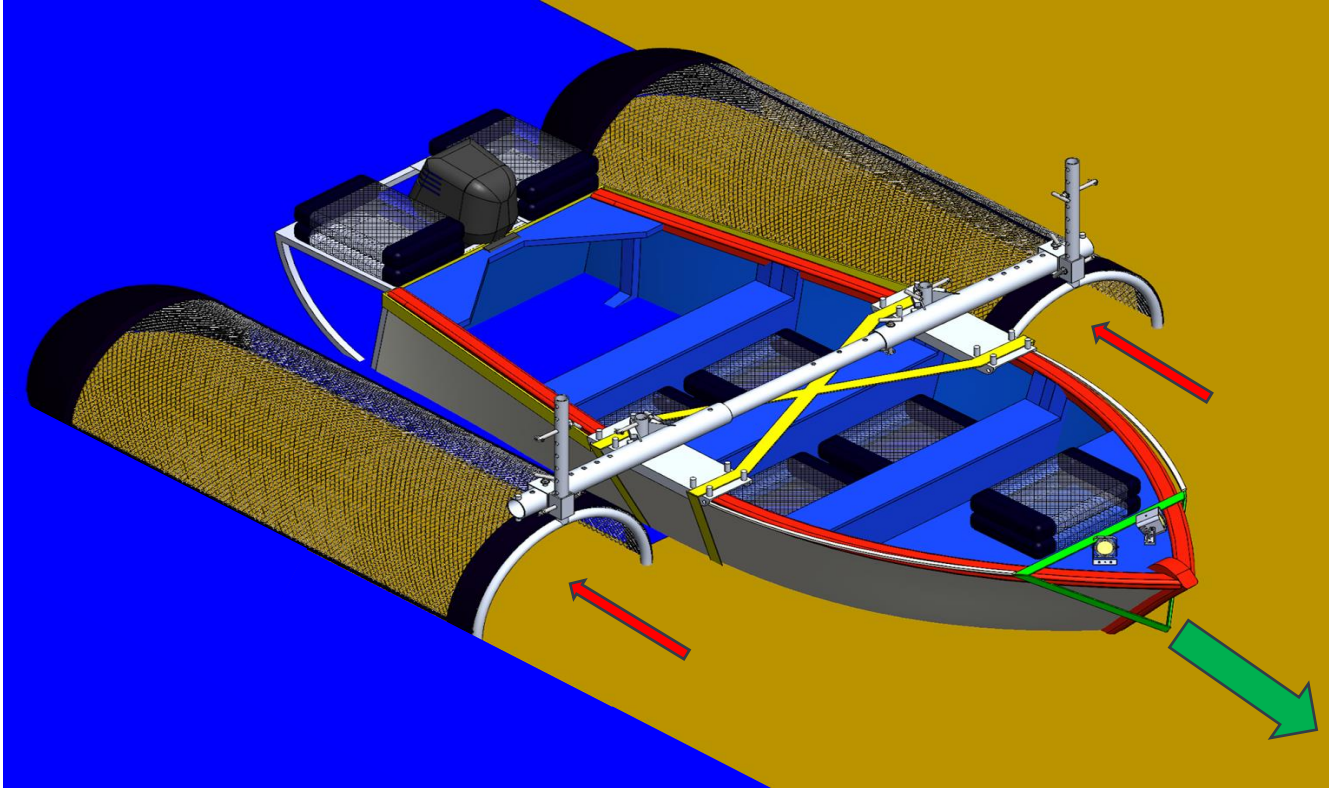
### Paralizan operaciones de las plantas Itabo I y II por "golpe de sargazo"

JULIO 24TH, 2018 ECONOMÍA, NOTICIAS

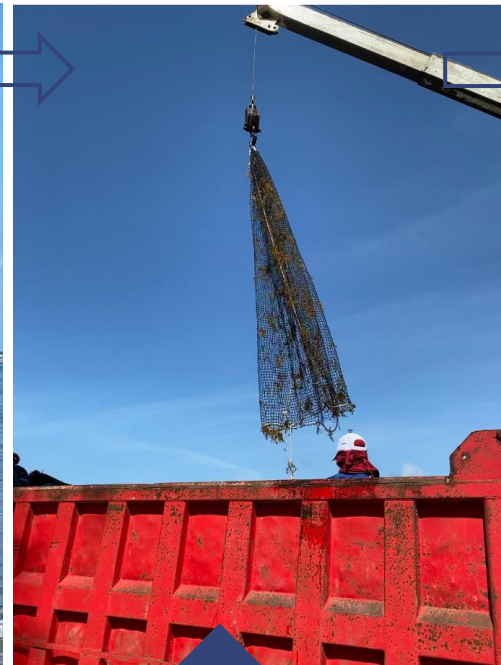
# Leveraging the **Caribbean's Resources** to drive socioeconomic development and a sustainable operation



# LITTORAL COLLECTION MODULE (LCM): most cost-effective harvesting system



# The most cost-effective environmental sanitation operation taking waste to value



**60 tons/day/boat  
capacity**

**60% revenue**

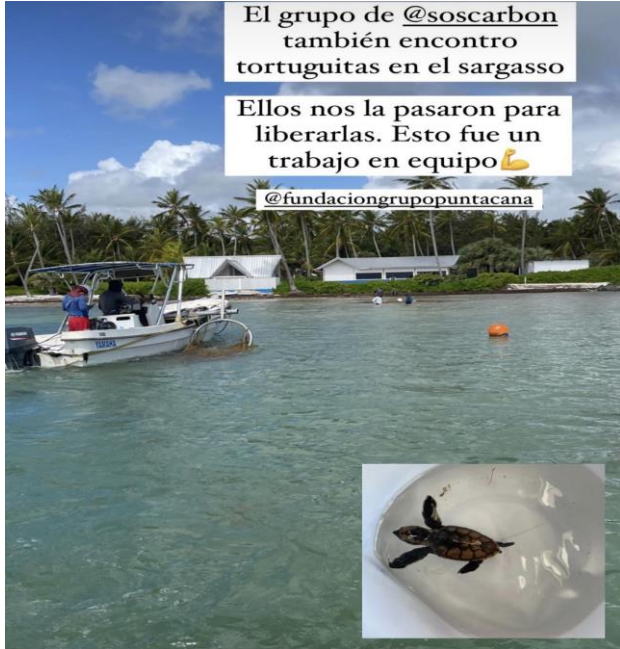
**<2-4 weeks lead**

**>10 jobs/system**

# Environmental sanitation operation validated to work effectively in any site



# Environmental and social responsibility for a sustainable Blue Economy



Marine ecosystem protection



Integration & empowerment of the local communities  
80 fishermen trained up to date

# Collaboration and ensuring most environmentally safe operations



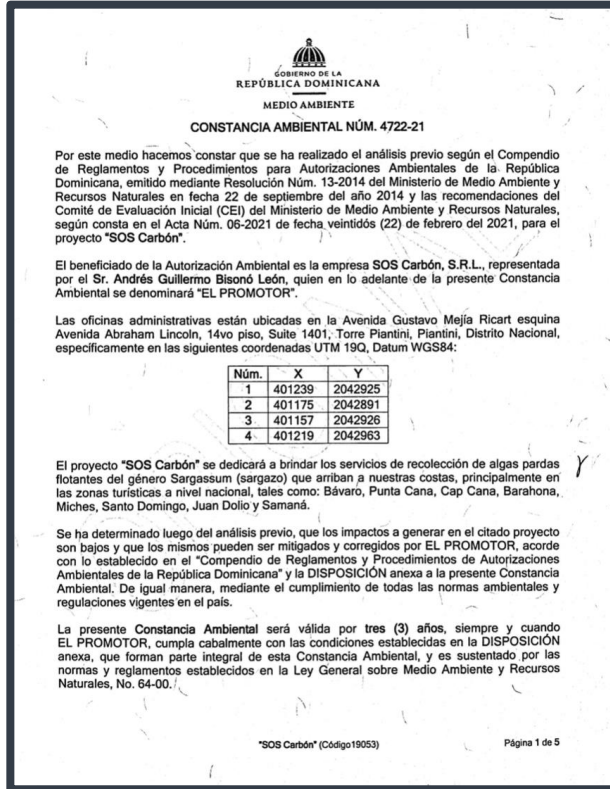
Oversight from personnel to ensure NO bycatch



Oversight at disposal and drying sights



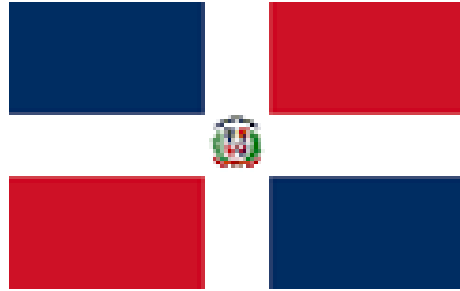
# Environmental Sanitation Operations



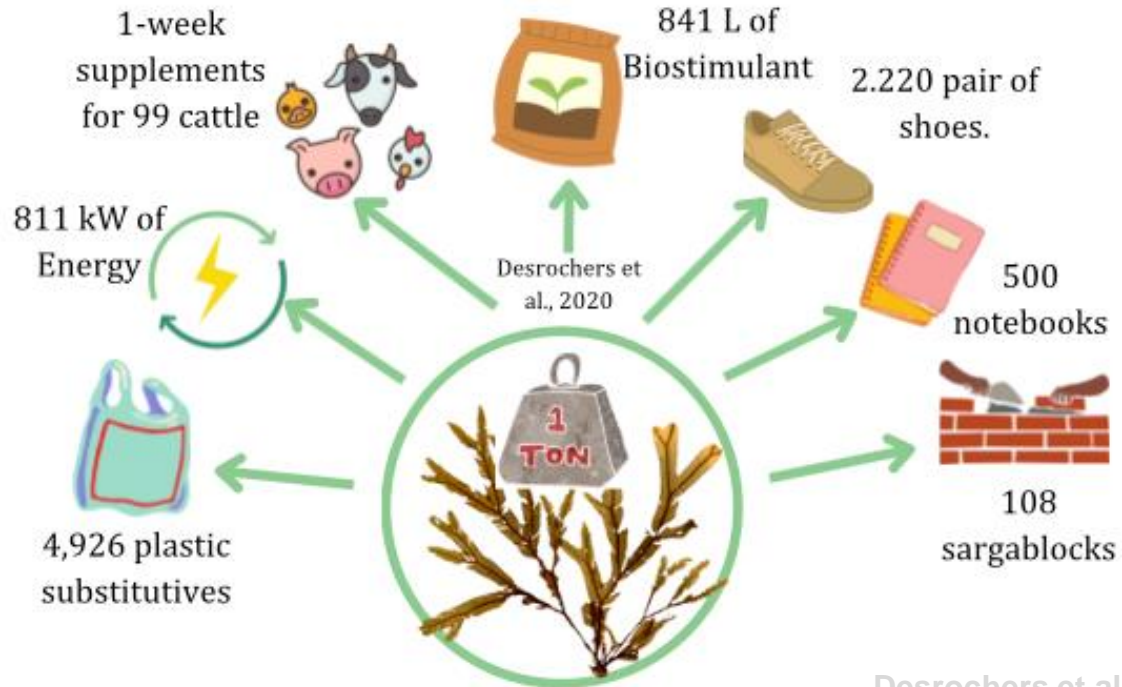
Only ENVIRONMENTAL  
 PERMIT for  
 SARGASSUM  
 HARVESTING



# Caribbean operations and collaborations



# Local and Global Opportunities: New Industries



Desrochers et al



# Transforming sargassum into value-chains



First 40' container of sargassum shipped from the Dom. Rep. to Finland. Shipped 5 containers in 2022.

Tweet by deputy minister of the Environmental Ministry

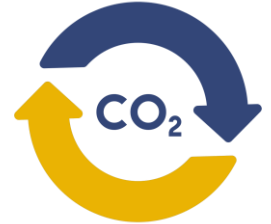


**Jose R Reyes** @JoseRamonReyesL · 17h  
 Ya está saliendo el primer contenedor cargado de sargazo con destino a Finlandia 🇫🇮, esperemos obtener resultados satisfactorios para poder encontrarle utilidad a esas macroalgas marinas que están afectando nuestras costas. Gracias @sos\_carbon @grupo\_puntacana



38 81 430

# Sustainable Business Models providing a social & environmental positive impact



Sargassum  
Invasions

Littoral Collection  
Module (LCM)

- 1) Service Model
- 2) Licensing Model
- 3) Consulting

R&D, MarketPlace  
Processing



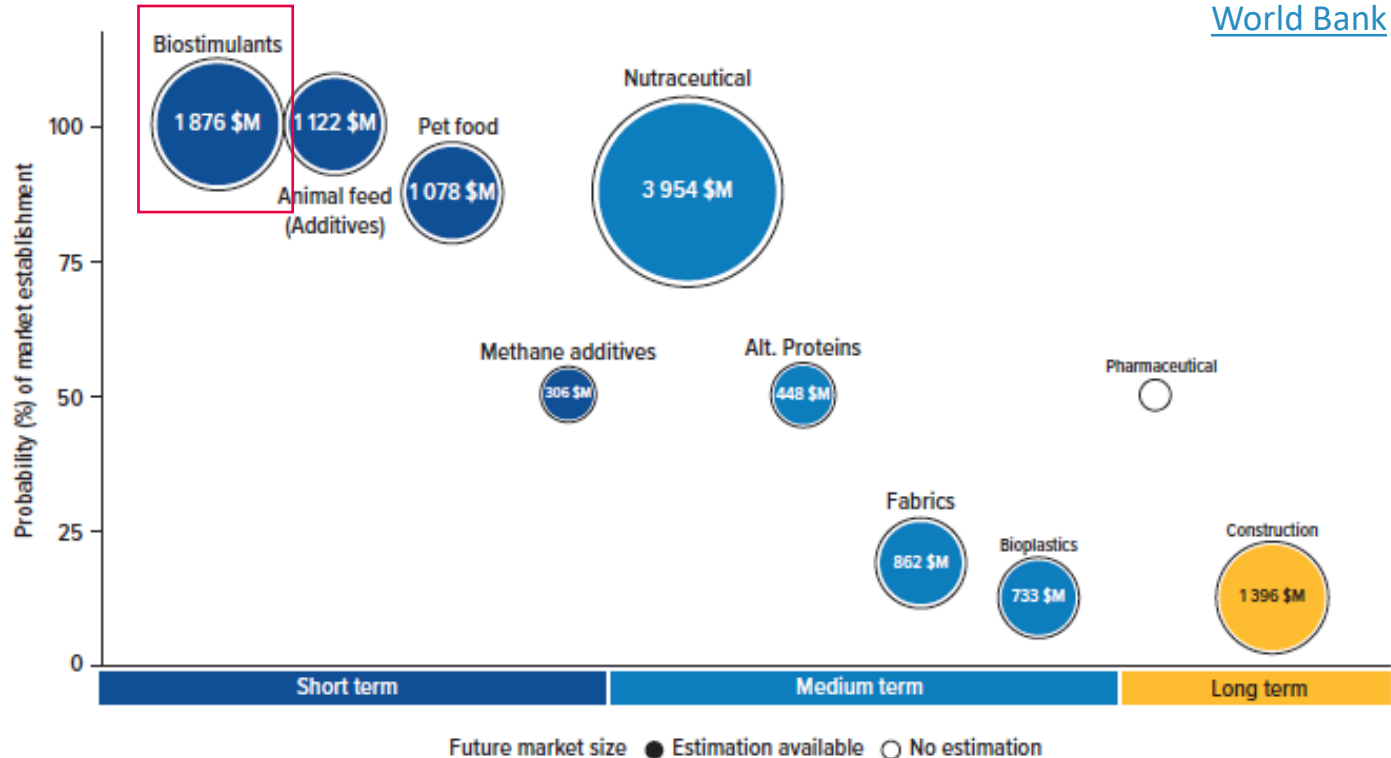
Biostimulant  
production

Carbon Credits

Carbon and  
Methane  
sequestration



# World Bank: Seaweed sector and opportunities



# All stakeholders UNITED.

## SOS Carbon: regional leaders



vicerdo



Vice President of the Dom. Rep. 2021

International Sargassum Conference, Guadeloupe, 2019



Dominican Senate, 2021



Minister of Tourism of Jamaica, 2019



Association of Caribbean States, Cuba 2022

# Developing a **#ChangeMakers** ecosystem



# Let's expand the **ChangeMakers** ecosystem to deploy benefits for all stakeholders



From the local community to international leaders,  
we can all be part of the **ChangeMakers ecosystem**



**UK Ambassador and Team**

**Ex-president Jose M. Figueres,  
Costa Rica**

[andres@soscarbon.com](mailto:andres@soscarbon.com)

Andres Bisonó León



LEGATUM CENTER  
for Development and  
Entrepreneurship at MIT



**THANK YOU**



#SOscarbon

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# SOS Carbon SYSTEM DEPLOYMENT



It only depends how **WE** work through problems...  
...rather transforming them in benefits.

