



**Study of holopelagic Sargassum responsible of massive beachings: Valorization & Ecology on Caribbean coasts**

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# Plan

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- ▶ The consortium;
- ▶ Aims;
- ▶ Objectifs;
- ▶ Management of the project;
- ▶ Research questions addressed;
- ▶ Results expected;
- ▶ Added value/dissemination/perspective for development

# The consortium – 14 partners

## ▶ 10 Academic partners:

LEMAR-UBO (Brest), MIO-IRD (Marseille),  
BOREA-UA (Guadeloupe), BOREA-Ucaen,  
L3MA-UA (Martinique), Ifremer (Martinique)  
IRDL-UBS (Lorient), LBCM-UBS (Vannes),  
UWI-The Barbados, CINVESTAV-Merida (Mexico)

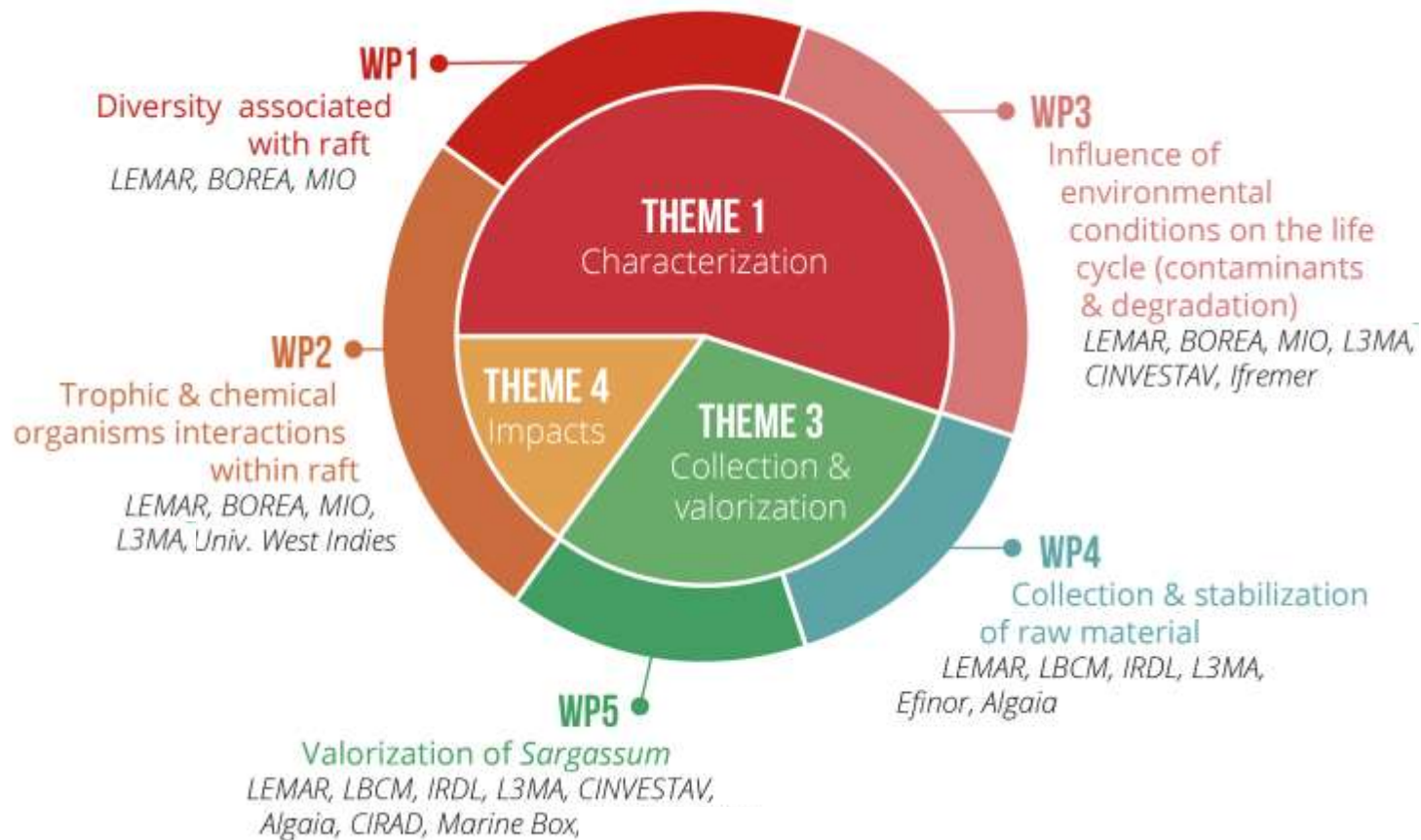
## ▶ 4 industrial partners:

EFINOR (La Hague), ALGAIA (Saint Lô)  
CIRAD (Martinique), TMB (Martinique)

# Aims of the study

- ▶ To better know the diversity and the functioning of floated *Sargassum*, along the drift of the rafts to their beaching
- ▶ To understand the capacity of *Sargassum* to live in pelagic life, to concentrate some contaminants and to study the degradation process in beached *Sargassum*
- ▶ To collect and valorize the huge biomass of *Sargassum* in 2 sectors of applications: agriculture (biopesticides) and biomaterials (cardboard)

# Management of the project



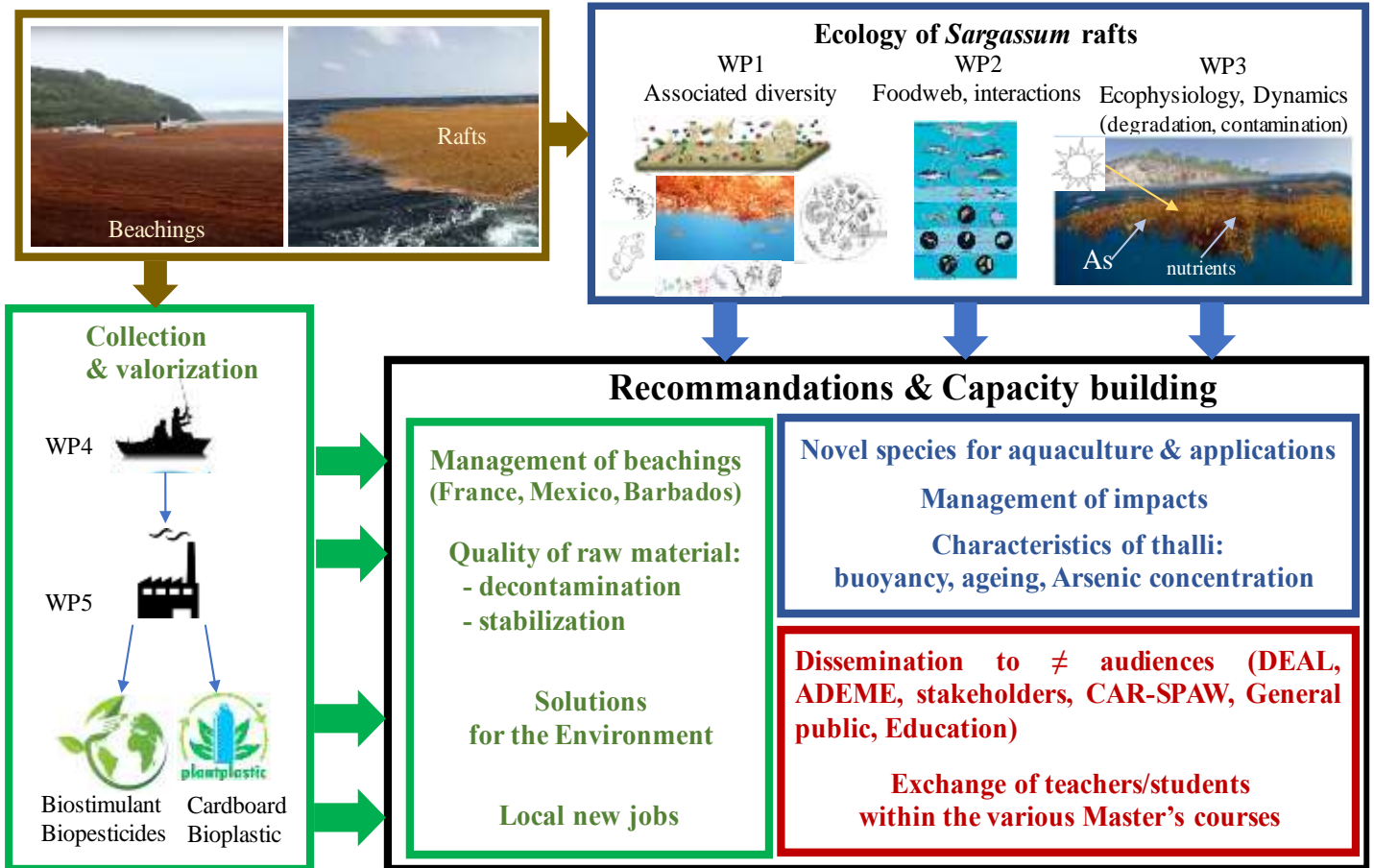
# Research question addressed

- ▶ Which organisms live with *Sargassum*? How this diversity varies along the tropical Atlantic Ocean and throughout the degradation processes?
- ▶ What is the biochemical composition of *Sargassum*? Which adaptative strategies the species developed to persist in pelagic life? What is happened during the degradation of the beached *Sargassum*?
- ▶ Which environmental parameters influence the capacity of the alga to develop rafts and mostly, to concentrate arsenic along rafting ?
- ▶ How to collect and how to find a value from this huge biomass of *Sargassum*? Two sectors of applications are prospected with an innovative biorefinery model: agriculture and biomaterials

# Results expected

- ▶ Fundamental results (WP1,WP2,WP3)
- ▶ Applied results (WP4,WP5)
- ▶ Creation of a network: Project linked to 2 others projects: ORIGINS, FORESEA,  
+ CORSAIR?  
=> ANR awarded
- ▶ Diffusion to several audiences: Master students, young public but also Institutions and general public

# Added value/dissemination/ perspective for development





# Funding Agencies

- ▶ **Fundamental research:**
  - ANR
  - CR 971
  - CT Martinique
  
- ▶ **Applied research:**
  - ADEME
  
- 2 partners on their own fundings



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Thanks for your attention