



HAL
open science

TRAFIC - Marine TRANsportation, port Frequentation and environmental Inequalities in the Caribbean

Eric Foulquier, Iwan Le Berre, Laurence David

► **To cite this version:**

Eric Foulquier, Iwan Le Berre, Laurence David. TRAFIC - Marine TRANsportation, port Frequentation and environmental Inequalities in the Caribbean. International Symposium of Labex DRIIHM - 2019 Inter-Disciplinary Research Facility on Human-Environment Interactions, Oct 2019, Lyon, France. 2019. <halshs-02320491>

HAL Id: halshs-02320491

<https://shs.hal.science/halshs-02320491v1>

Submitted on 18 Oct 2019

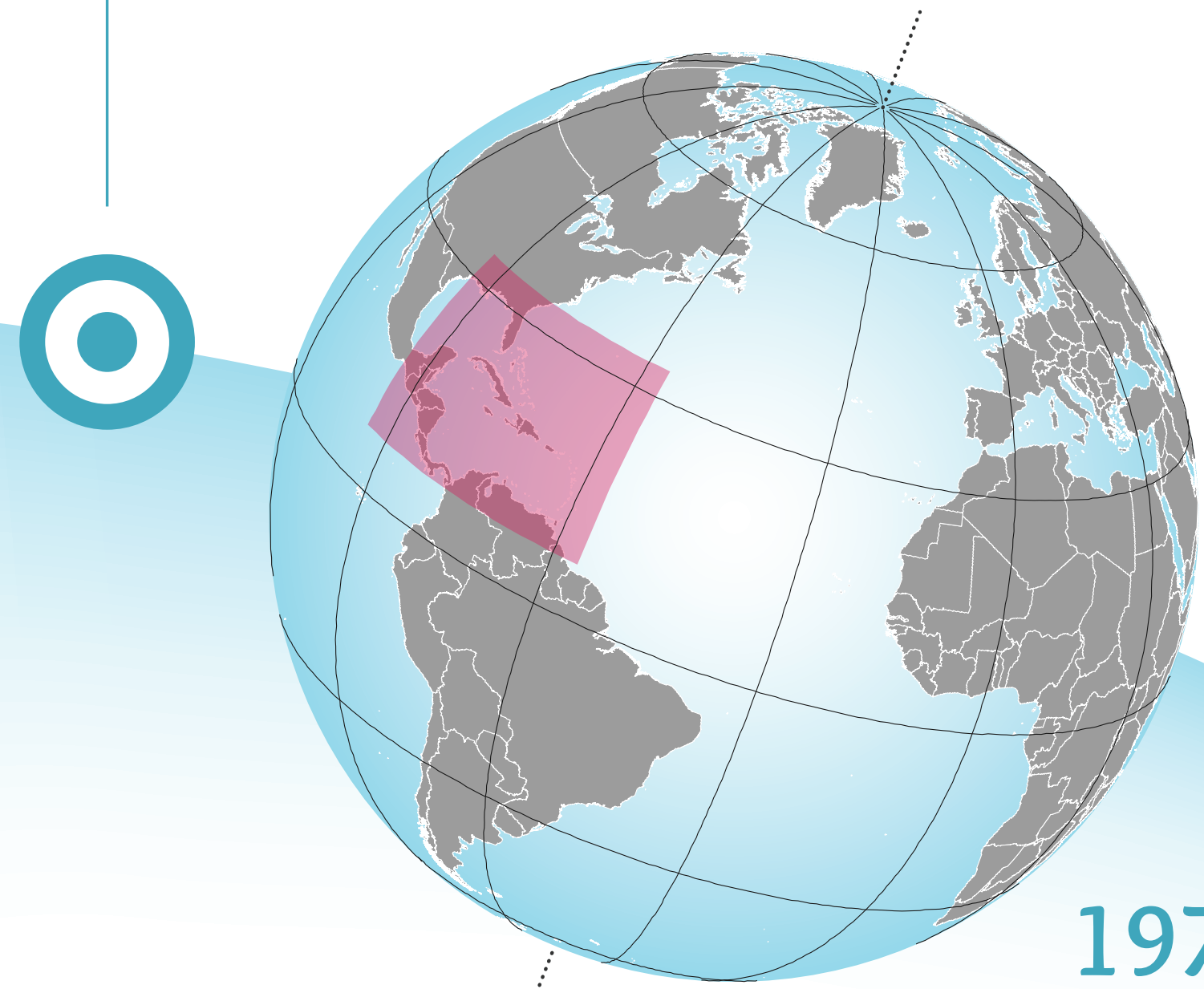
HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



HAL Authorization

Background



1975 • 2035

The contribution of global shipping to GHG emissions has grown steadily since the 1970s.

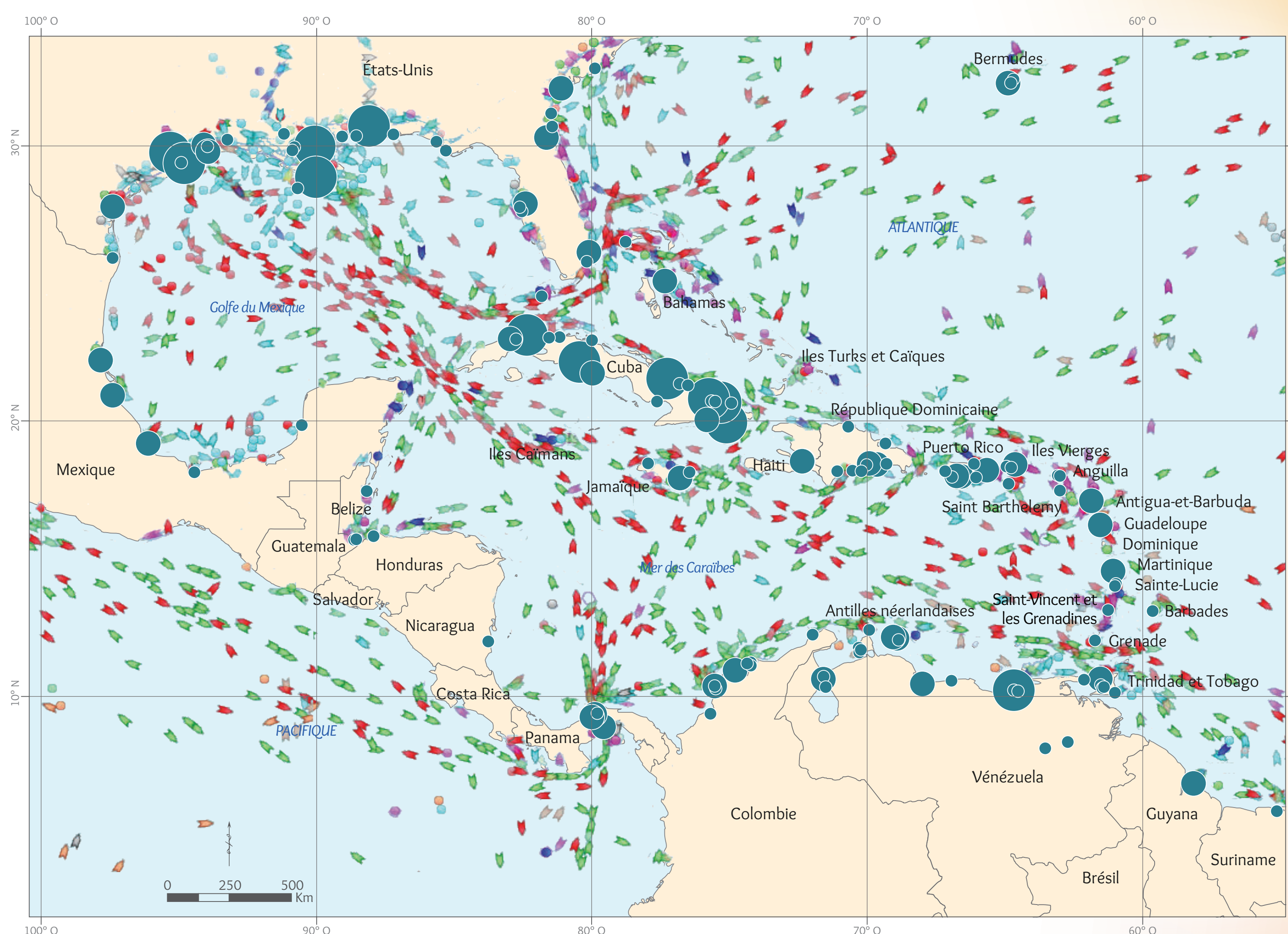
In contrast to international recommendations on climate change, the outlook for 2035 shows exponential growth in emissions in absolute terms.

Issues related to ship emissions are now the top environmental priorities for European ports.

1996 • 2016

2019

AIS data help to reconstitute the spatiotemporal organization of marine traffic and port frequentations. They reveal the nature and the density of marine traffic in the Caribbean région.



Vessel location by AIS positioning data, April 18, 2019 at 16:07

(source Marine Traffic)

AIS

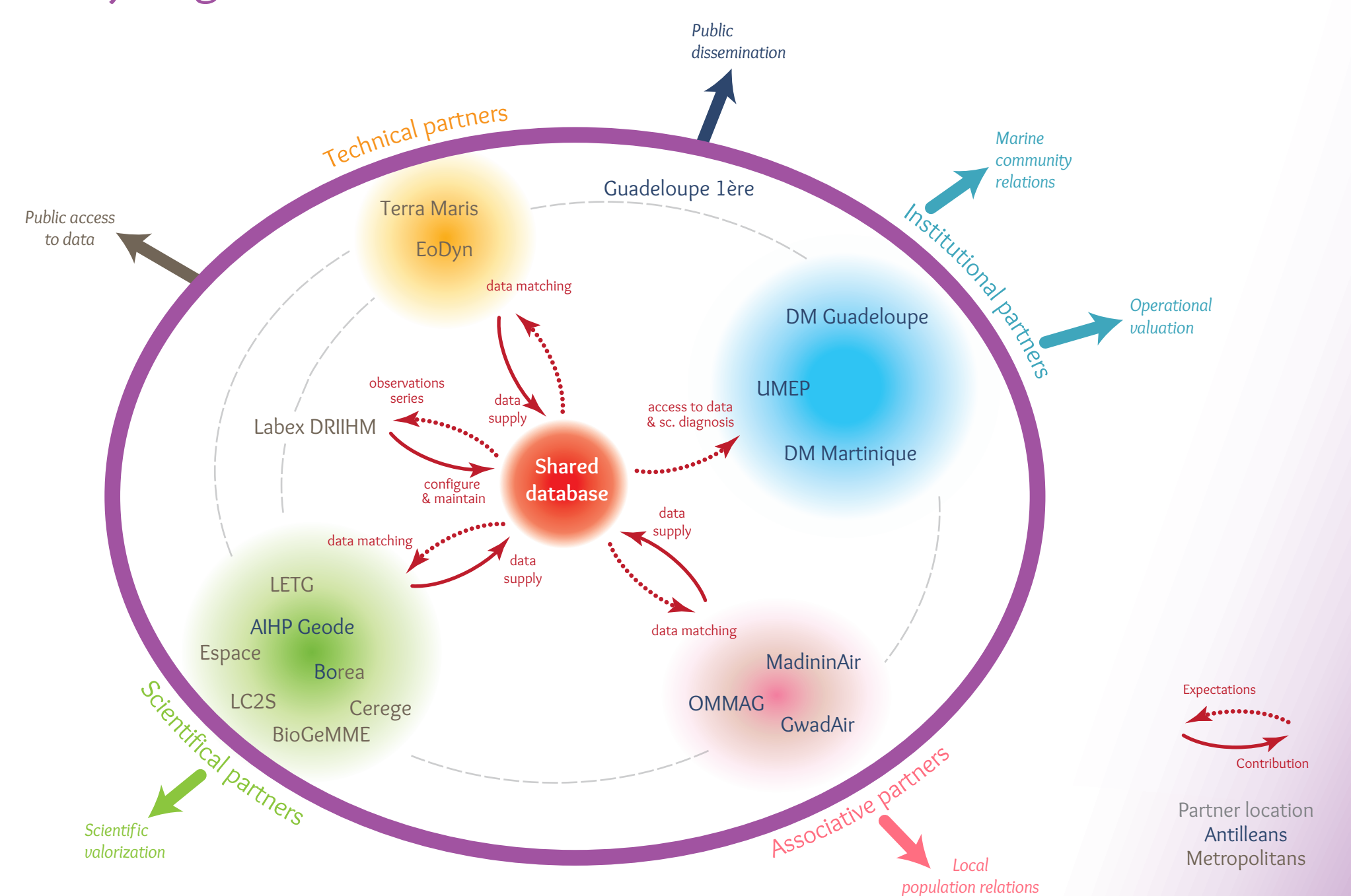
Legend for vessel types: Tanker (red), Cargo (green), Fishing vessel (orange), Tugboat (blue), Passenger vessel (purple), Recreational craft (pink).

Ports of the Caribbean

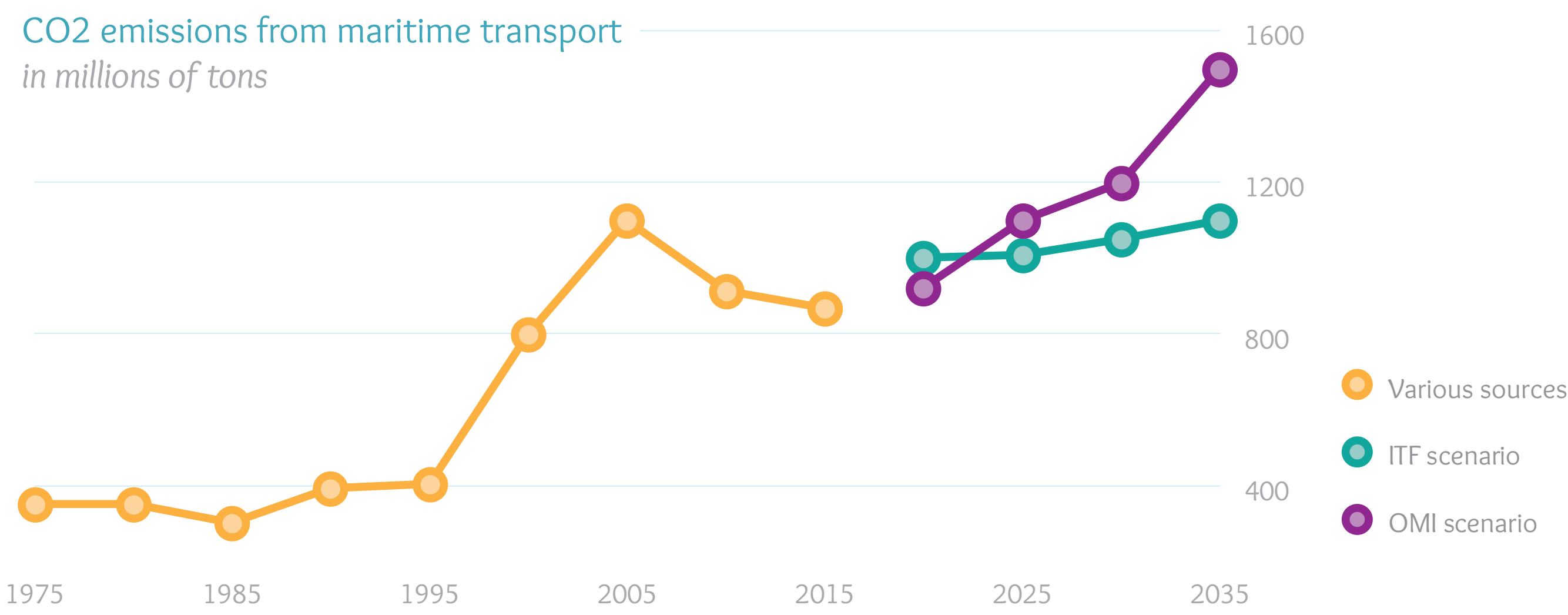
Legend for port sizes: LARGE (big blue circle), MEDIUM (medium blue circle), SMALL (small blue circle).

METHOD

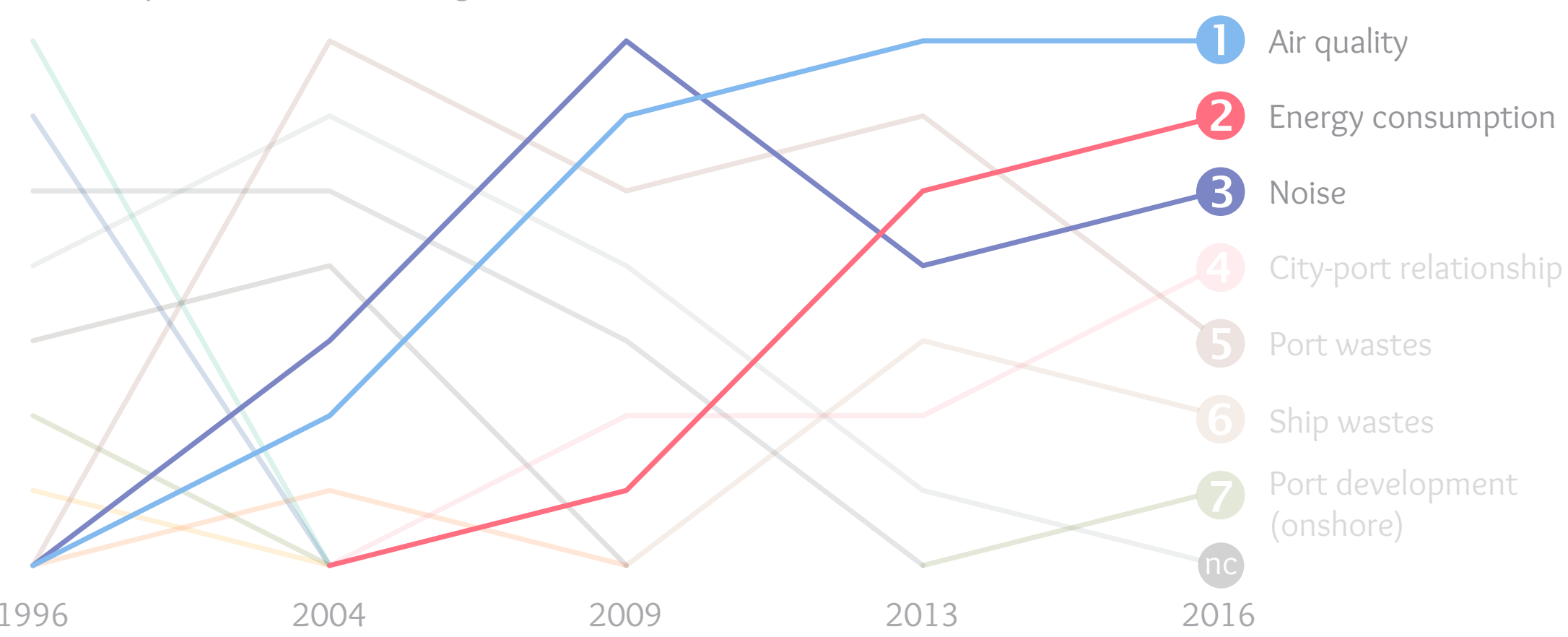
TRAFIC is a collaborative, interdisciplinary and interinstitutional project supported by the Fondation de France (2020-2022). It aims to create a suitable geographic database for analyzing human-environment interactions related to marine traffic.



Organizational chart of the partnership relations of the TRAFIC project



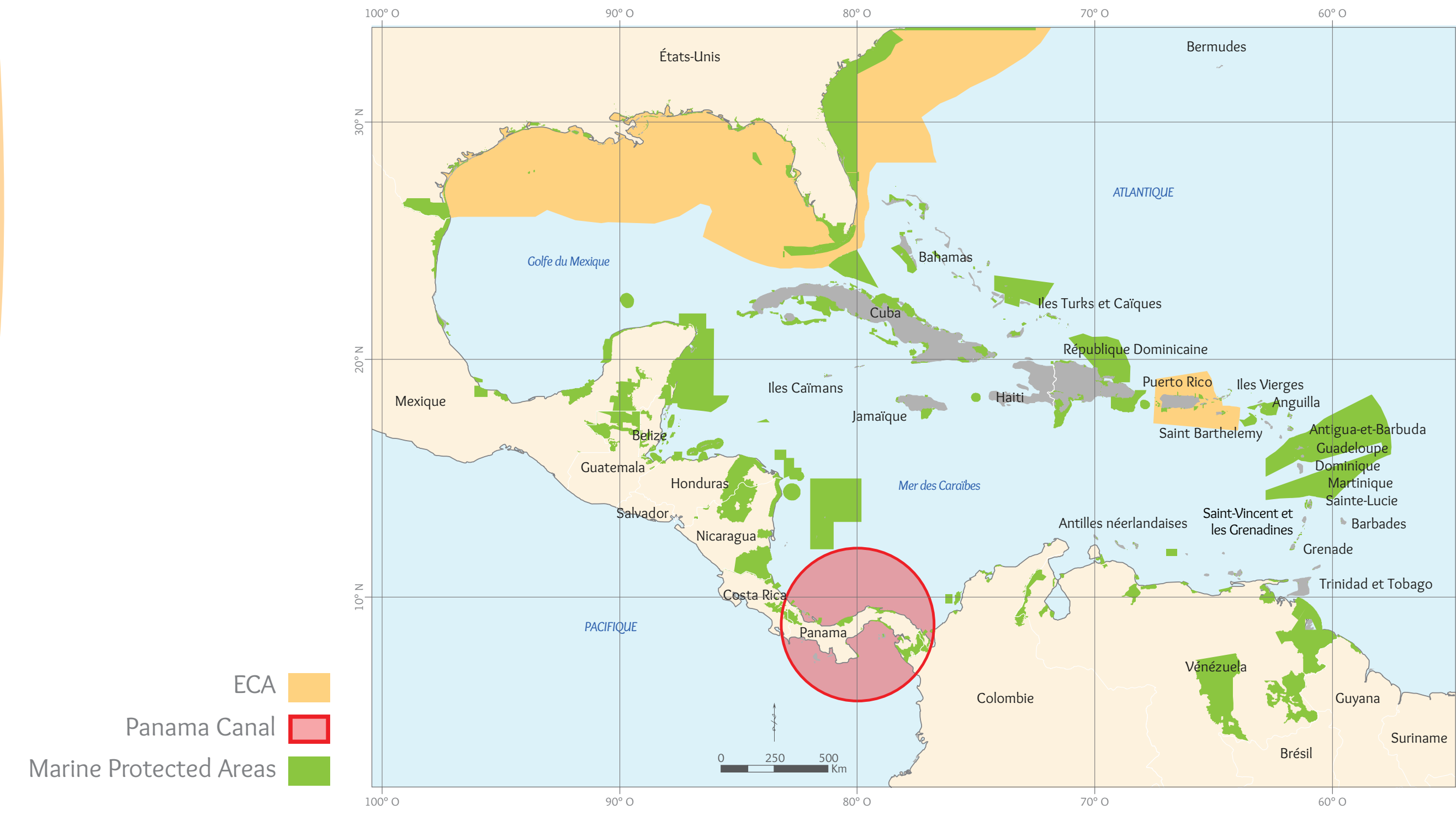
Evolution of the environmental priorities of ESPO ports (European Sea Ports Organisation)



QUESTION ?

Do areas under environmental jurisdiction have an influence on the organization of marine traffic?

- 1997 Creation of Emission Control Area (ECA, Annexe VI Marpol convention)
- 2007 • 2016 Widening of the Panama Canal
- 2010 Creation of the AGOA sanctuary



QUESTION ?

Do level of development and marine traffic generate environmental inequalities ?

