



BRETAGNE ATLANTIQUE



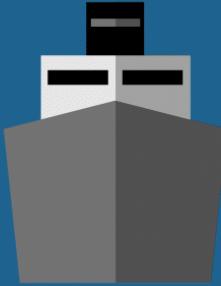
SMARTDEC

Smart clusters for Maritime Decarbonisation



EUROMARITIME / Janvier 2024

Transport Maritime: Principal vecteur du commerce mondial



LE TRANSPORT MARITIME



Le transport maritime représente **90%** du trafic mondial de marchandises.

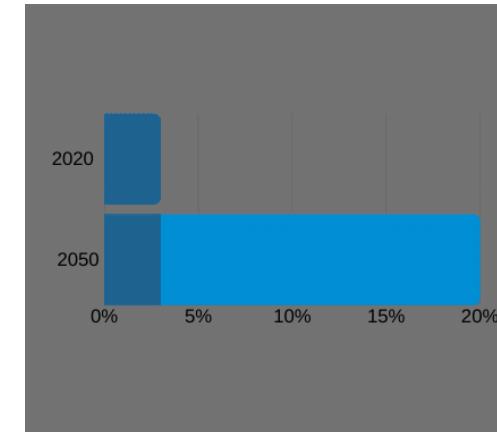
10,7 Milliards de tonnes de marchandises ont été transportées par voies maritimes. Cela représente une croissance annuelle de **4%**



10,7

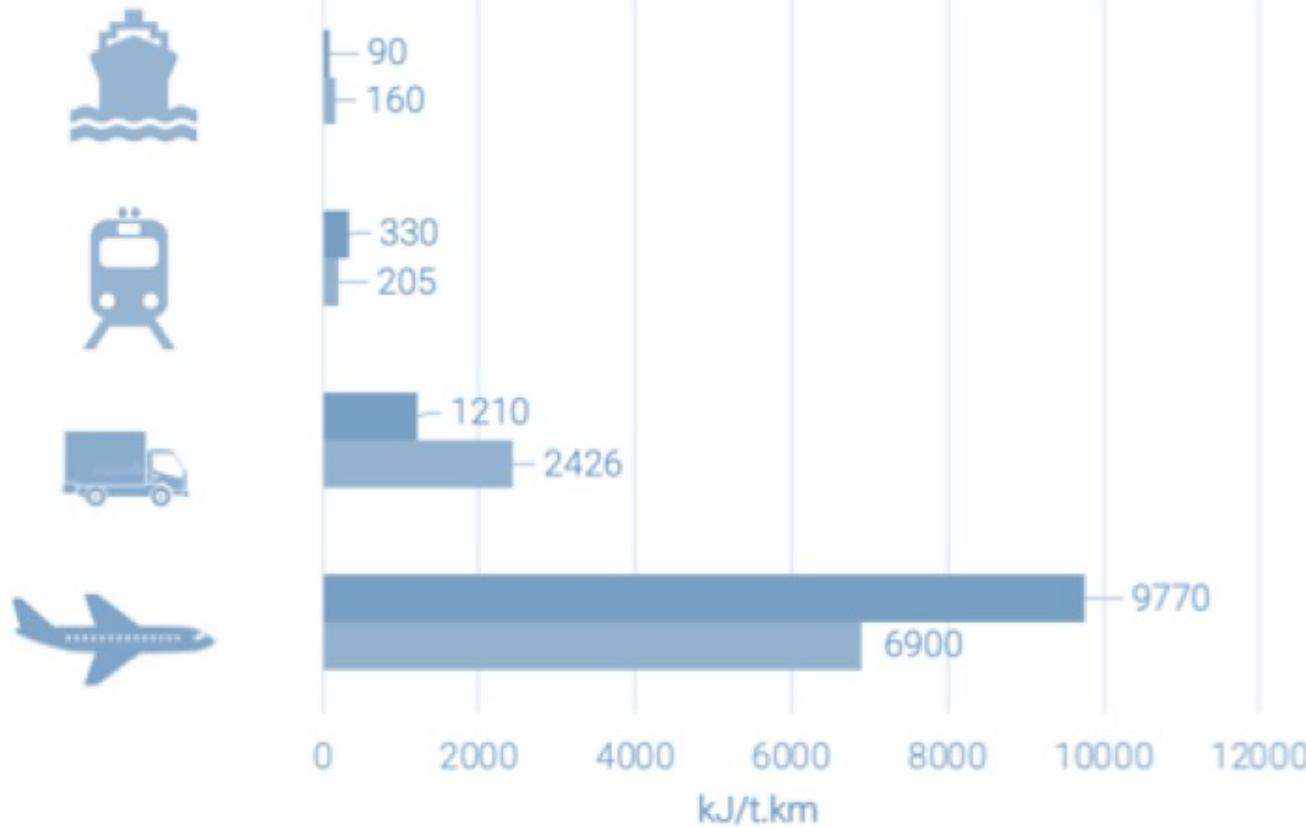
Le volume de marchandises pourrait croître de **35% à 40%** d'ici 2050. Cela représente plus de **14 milliards de tonnes de marchandises..**

Si rien ne change, en 2050, le transport maritime pourrait représenter 17% des émissions totales de CO₂.





Un paradoxe



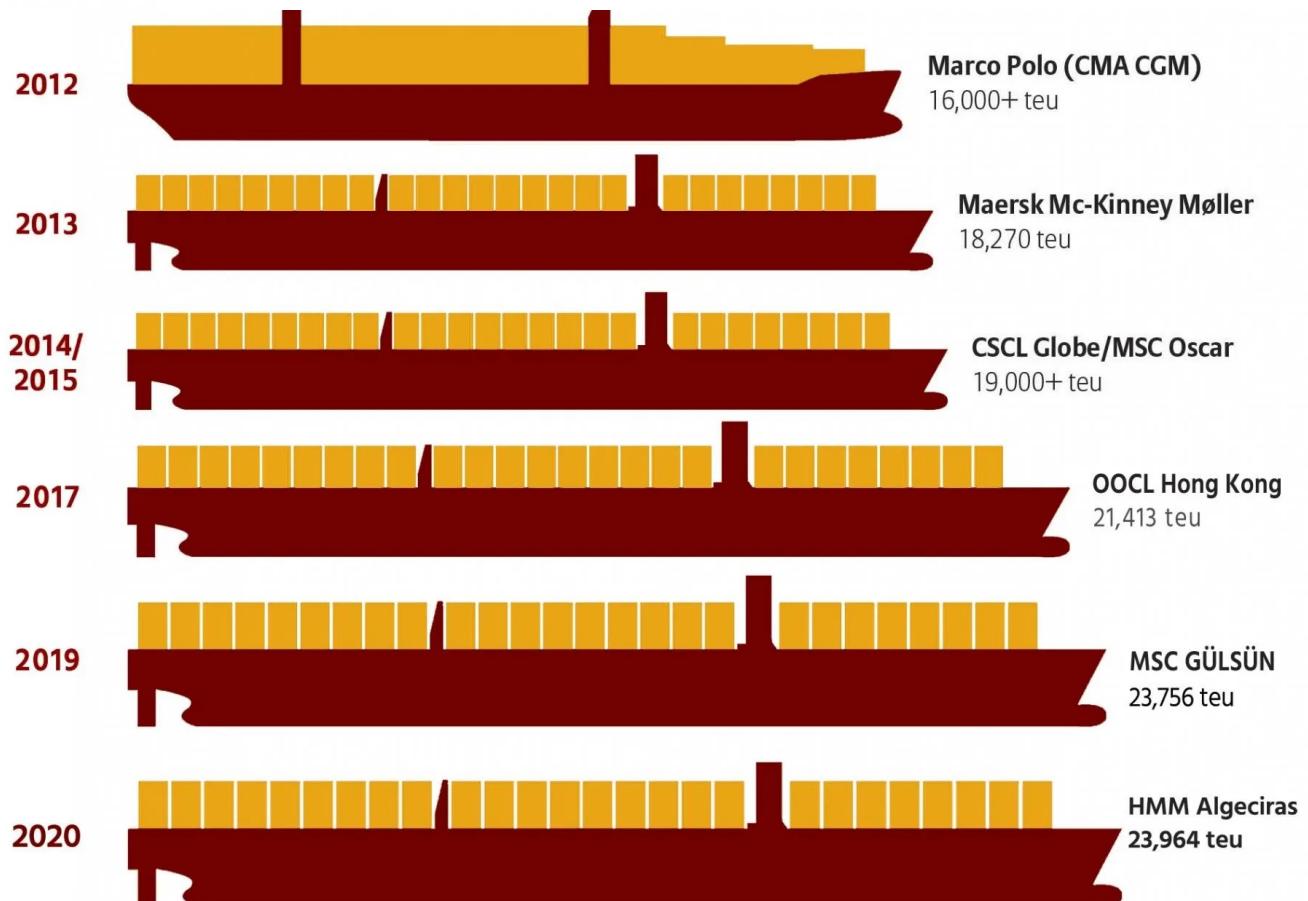
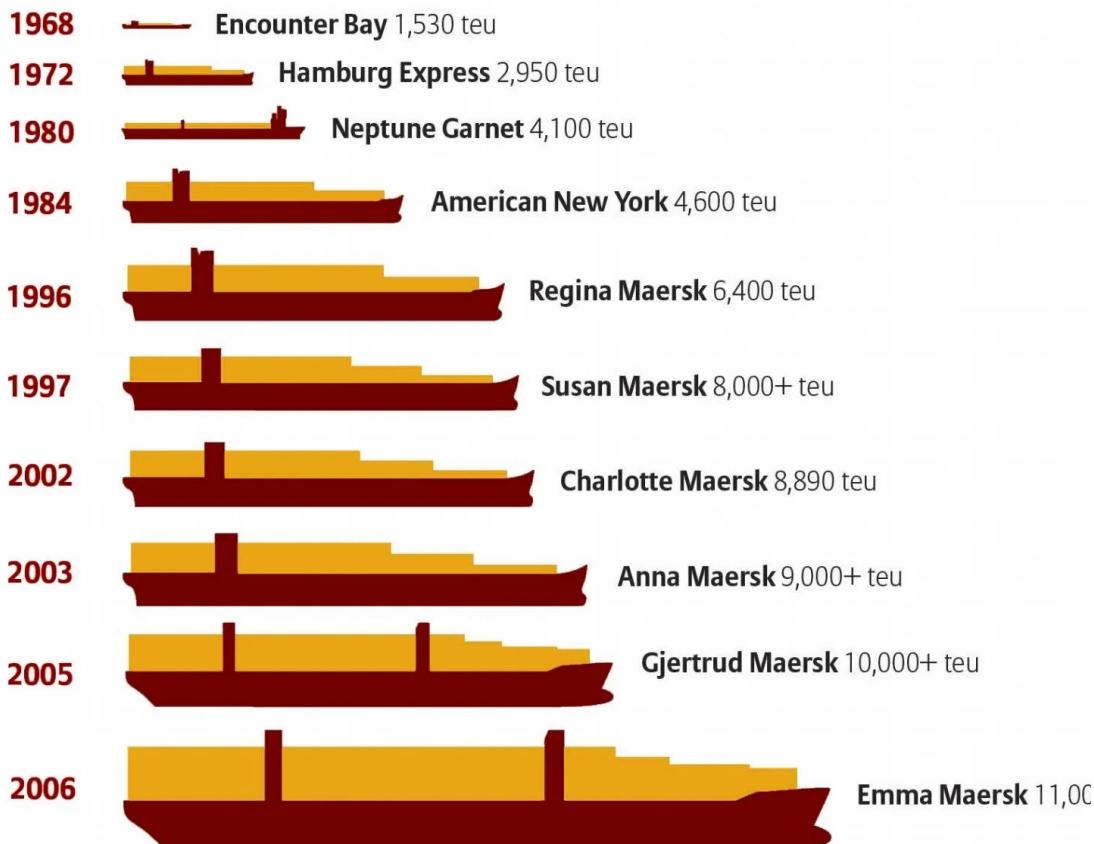
Energie consomée vs. poids x distance (Source MEET2050)

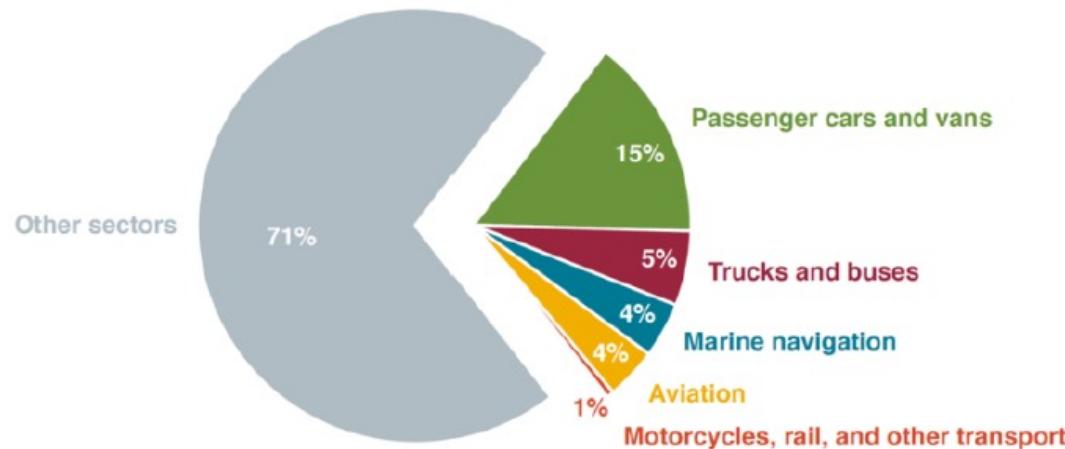
Efficacité inégalée du transport maritime

- Aérien > 50 et 100 fois plus
- Routier > 15 à 20 fois plus
- Rail > 1,5 à 4 fois plus

Transport Maritime: Evolution des vecteurs

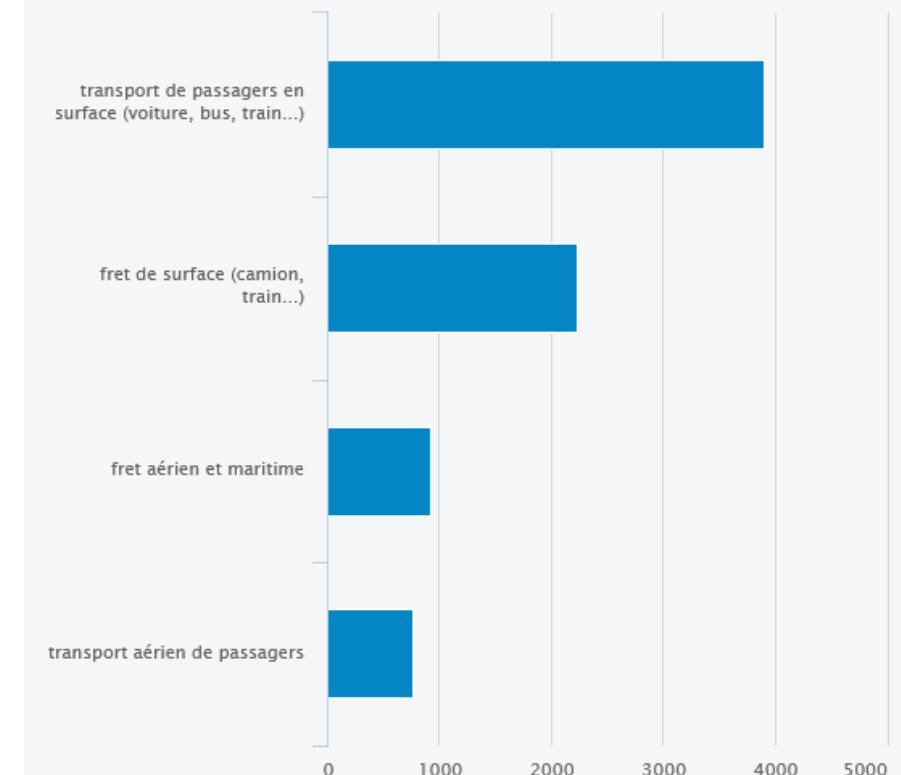
Evolution of Container Ships



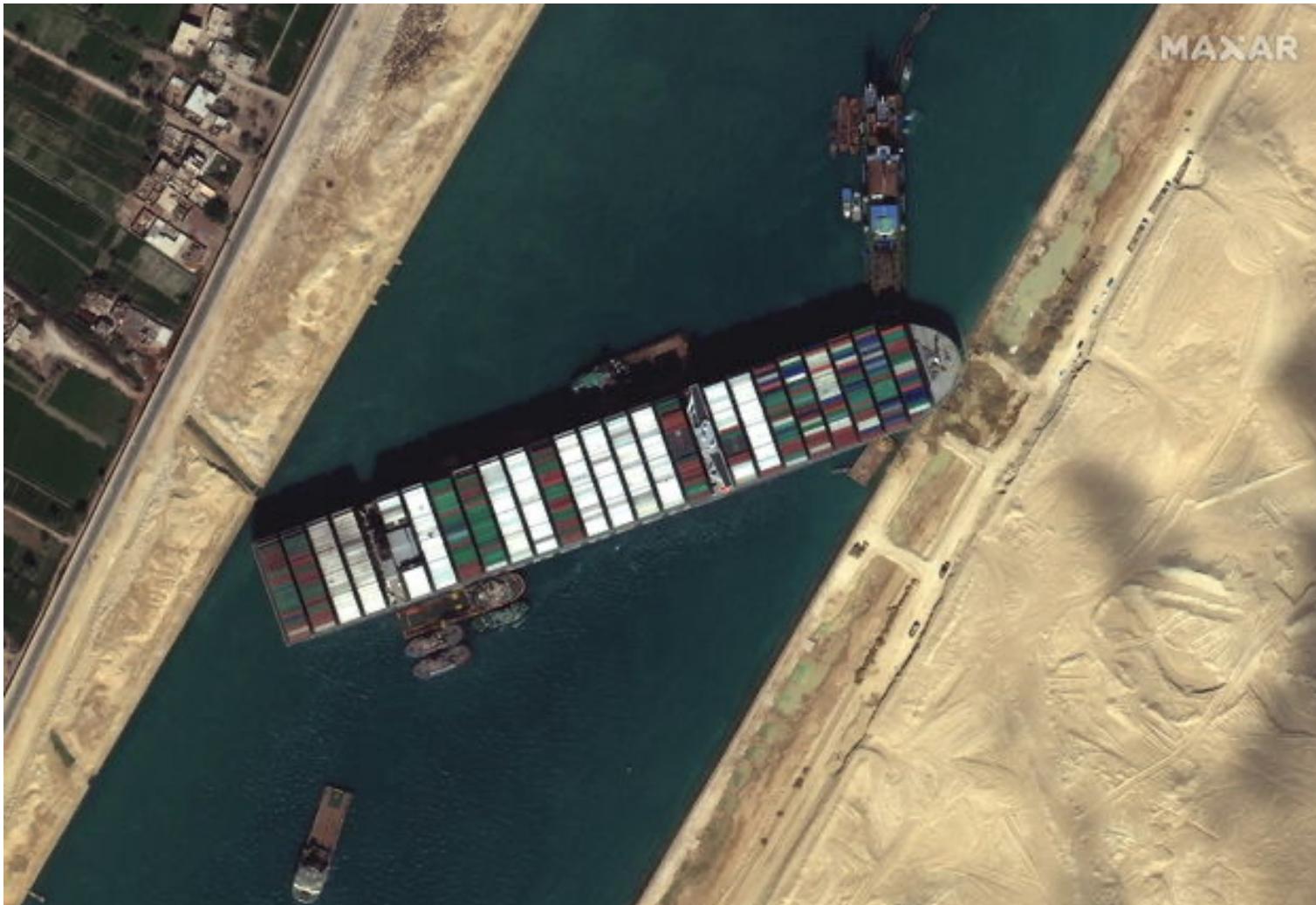


Emissions de CO₂ : la voiture, de loin le transport le plus polluant

En millions de tonnes de CO₂ produit par chaque catégorie pour les transports nationaux et internationaux



Source : [ITF Transport Outlook 2017](#)





BRETAGNE ATLANTIQUE

+4°C in 2100



- 28 Mds Tons (1994)



+ frequent + intense

+ 1m in 2100

ATLANTIC STRATEGY
Supporting the Atlantic Action Plan



Framework

Supporting the acceleration of technologies to meet the neutrality target will require a reduction of 50% in emissions by 2050.

Making the blue economy carbon neutral

PILLAR 1

Port as Gateways and hubs for the blue economy

Ports as hubs for business

Use ports as hubs for other industries such as offshore renewable energy and aquaculture

Green Ports

Development of best practice guideline in areas of port sustainability and alternative fuels

Connectivity

Connecting short-sea shipping routes in the Atlantic area
Develop a programme of actions to support existing routes and foster new shortsea shipping routes

Digitalization

Create a digital transport forum that can help facilitate green ports and connectivity

Framework

+4°C in 2100



- 28 Mds Tons (1994)



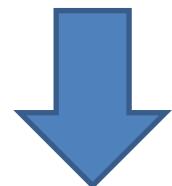
+ frequent + intense



+ 1m in 2100

Considering that are :

- Decarbonation is a major issue
- hardly solved at a world Level, but rather at European and fringe level (facing same troubles)
- Clusters :
 - Favour collaboration networks built around the industries of the future
 - Accelerate transformation and drive system-level innovation at scale.
 - Are engines of economic growth.



SMARTDEC

Objectives

SMARTDEC aims to develop an Atlantic network for an efficient implementation of decarbonisation solutions for maritime transportation.

- Develop a platform to support technology adoption and transnational cooperation by providing the tools, knowledge and structure,
- Develop common strategies and boost the innovation capacity,
- Provide cost-benefit and social analysis on clean technologies,
- Share best practices and tackle problems jointly with the preparation of future pilots.



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Partner	Role
Pôle Mer Bretagne Atlantique (FR) Forum Oceano (PT) Clúster Marítimo Marino de Andalucía (SP)	Clusters
Atlanpole (FR) Bilbao Port lab (SP)	Business support (business networks)
Irish Maritime Development Office (IMDO) (IR) – Marine Institute University of Aveiro (PT)	Technological/academic
CPMR (FR)	Capitalisation, policy makers interface
Regional council of Brittany - FR, Regional council of Pays de la Loire - FR, Donegal county council - IR CCDR for Lisbon & Tagus Valley region – PT SURFRIDER - EU	Associated partners



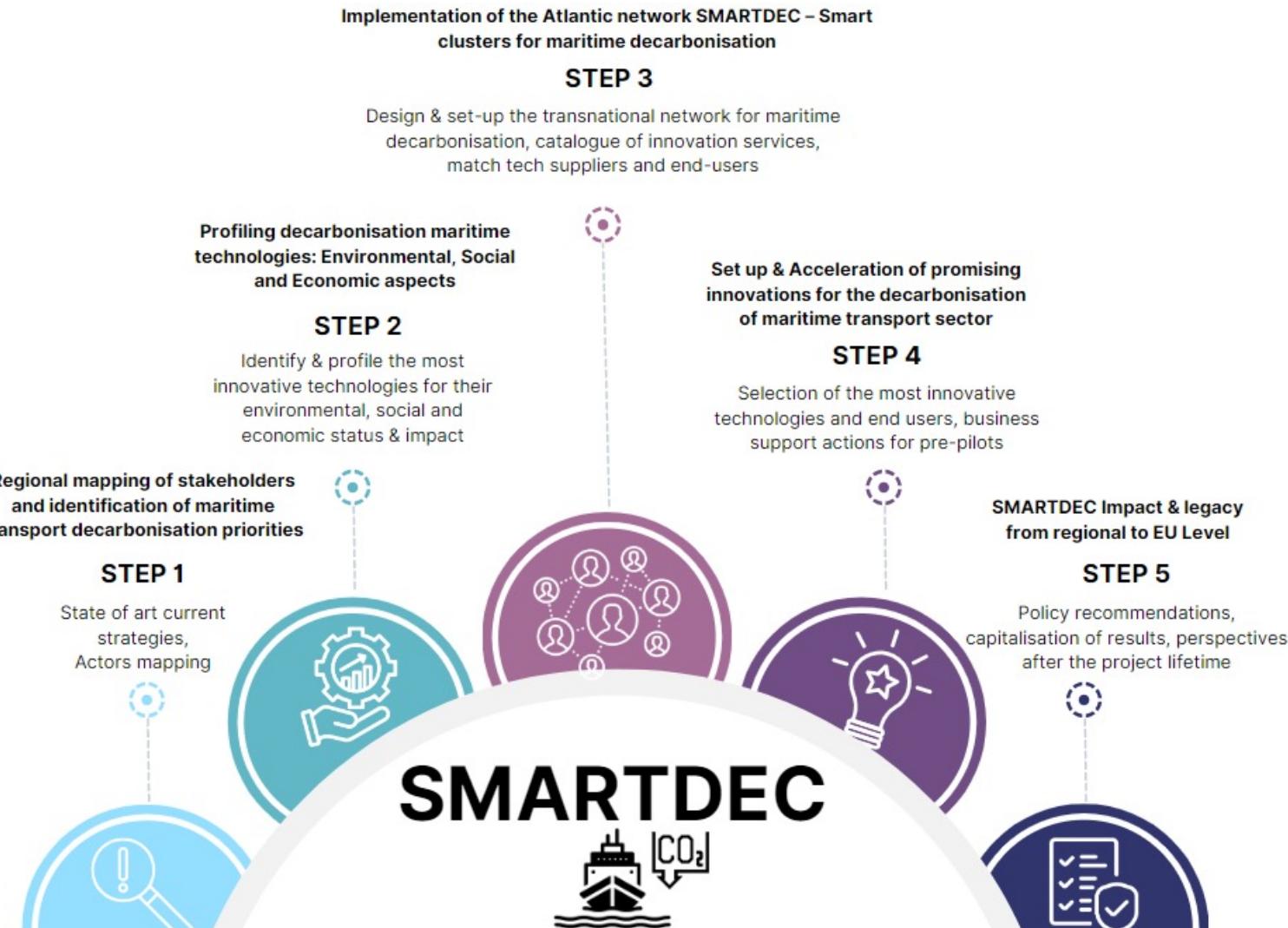
Consortium



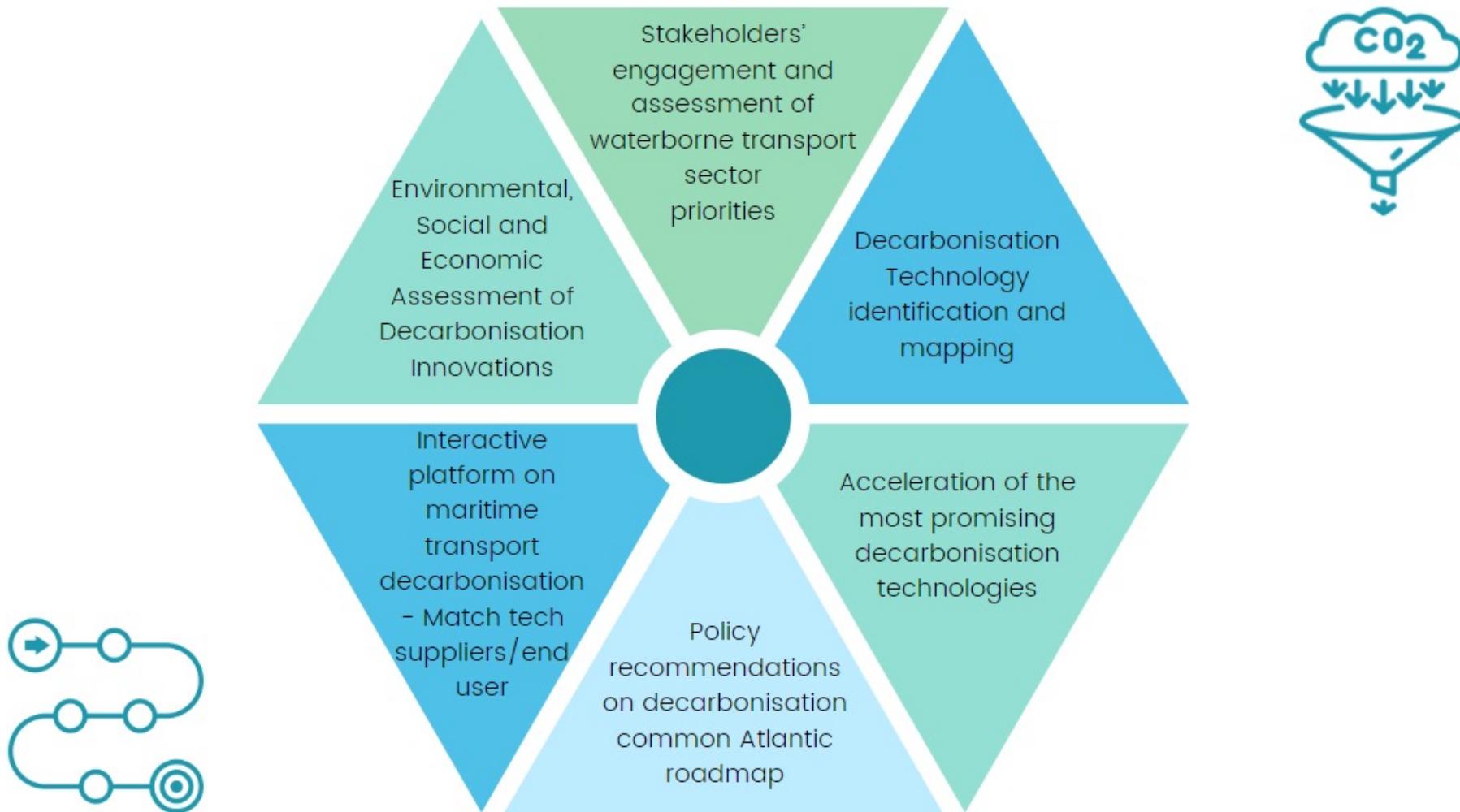


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Work structure



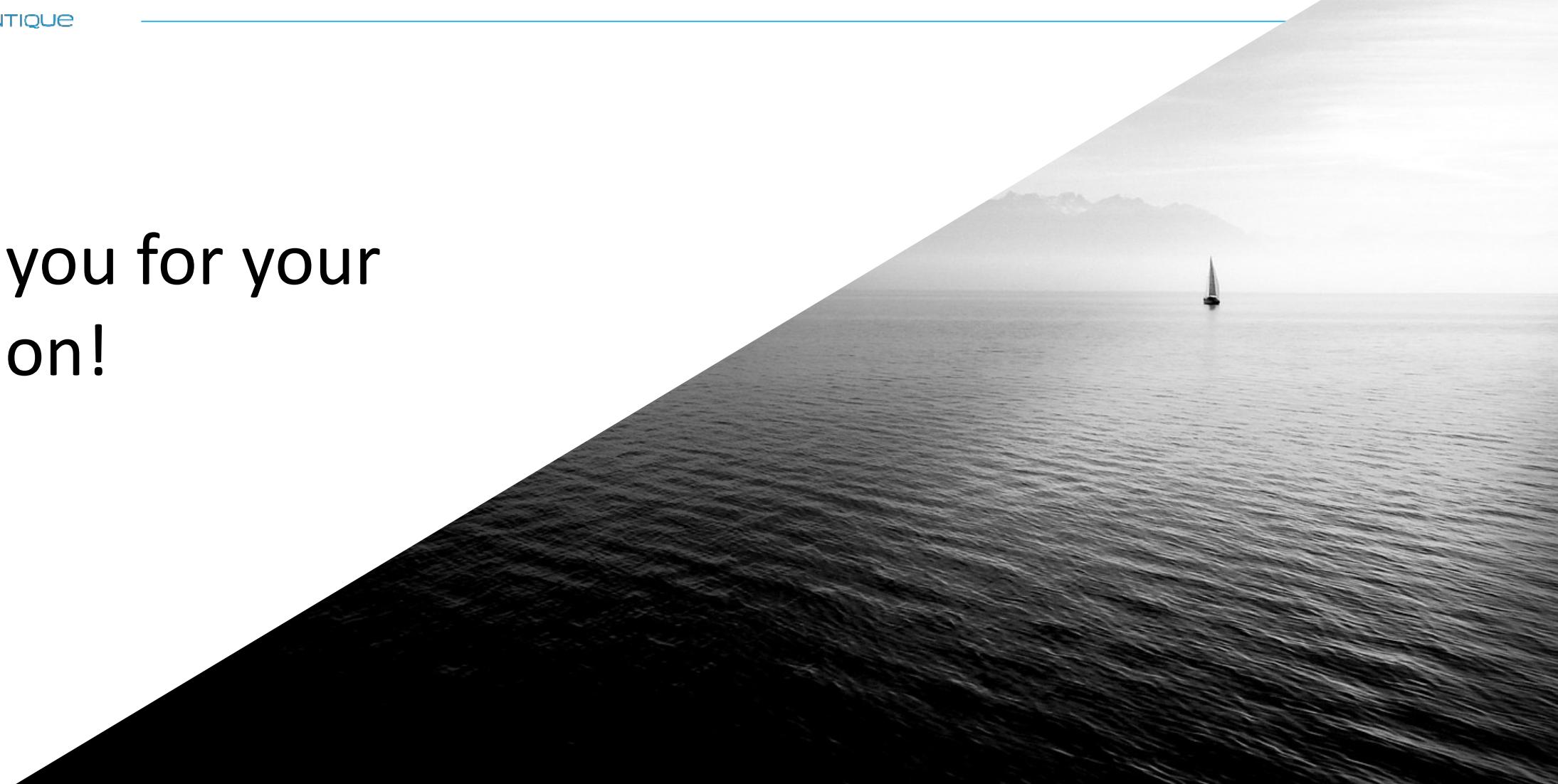
Expected outcomes





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Thank you for your
attention!





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