



# HAROPA PORT

Le Havre  
Rouen  
Paris

## HAROPA PORT decarbonization strategy

### IAPH Japan Seminar

*9<sup>th</sup> of July 2024*



# 01

HAROPA PORT  
1<sup>st</sup> port of France  
A port complex  
of excellence

## Le Havre

Port of call for the world's largest container vessels

Maritime gateway

**102.2 Mt**

of river - maritime traffic

#1 port of France

#4 North - European port

**2.6 M TEUs**

of maritime containers

#5 North - European port

## Rouen

Port specialized in breakbulk and dry bulk

#1 port for grain in Western Europe

## Paris

Wide network of 7 multimodal platforms and 91 urban ports

Spearhead of last - mile logistics

Paris-  
CDG



Paris-  
Orly



**RUNGIS**

World's largest fresh produce market

**HAROPA  
PORT**

Merger in June 2021

- Competitiveness
- Decarbonization
- Digitalization
- Resilience

**HAROPA PORT,**  
the single port authority of the Seine axis

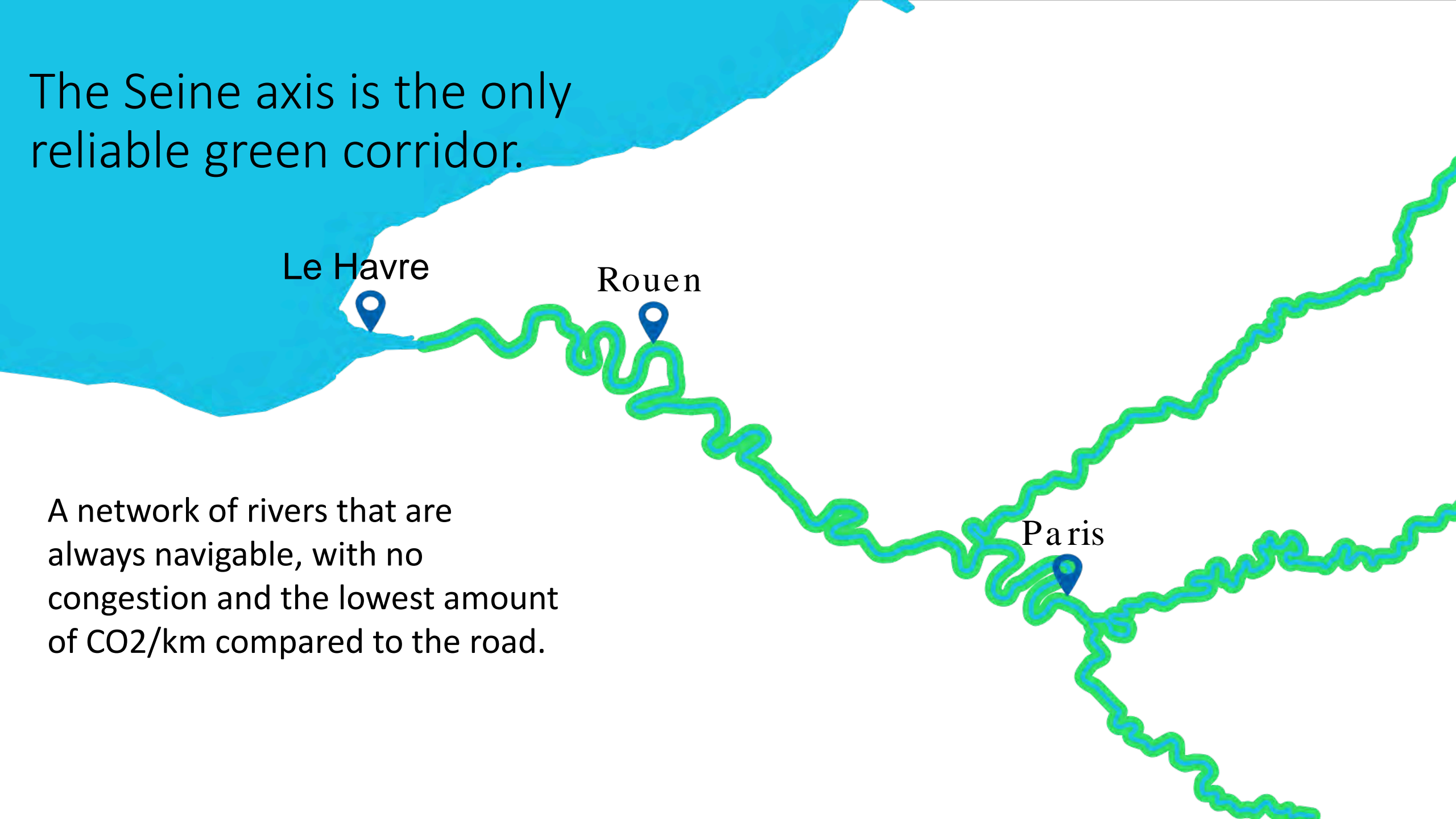
The Seine axis is the only reliable green corridor.

Le Havre

Rouen

Paris

A network of rivers that are always navigable, with no congestion and the lowest amount of CO<sub>2</sub>/km compared to the road.





### France's leading seafront

Capitalize 2/3 of French foreign trade



### Ranking of port activities

- #1 port in France for container traffic
- #1 port in France for Ro-Ro activities
- #1 port in Europe for exporting grain



**#16** best-connected port in the world  
according to:

*The United Nations Conference on Trade and  
Development (UNCTAD) 2020 ranking based on a  
sample of over 900 international ports*

# Le Havre

Our maritime front and port  
of call for the world's largest  
container ships

# Rouen

Western Europe's leading  
port for grain and a port  
specialising in general cargo

# Paris

A network of 70 urban ports  
and the springboard for last  
mile logistics



Trading area of  
**200 M consumers**



**60%** of national river freight  
transported on the Seine axis

# An energy transition engaged

## An environmental incentive strategy

- **Environmental Shipping Index (ESI)**: award given by HAROPA PORT for the most environmentally-friendly vessels in terms of IMO regulations on polluting emissions
- **World Ports Climate Action Program (WPCAP)**: an initiative involving 13 ports around the world to fight climate change and accelerate the energy transition in ports
- **Ambition 2040**: carbon neutrality, making the transport offer and connections of the Seine axis ports greener

Several decarbonization projects will be launched along the Seine axis:



By 2025 on 5 multimodal platforms  
**Multi -energy fueling station projects**



By 2030 in the port of Le Havre  
**France KerEAUzen project**

By 2027 in the port of Le Havre  
**Salamandre project**

By 2025 in Gennevilliers  
**Biomethanization project**

- 1.3 Mt

of **CO2** each year thanks to hydrogen and decarbonization projects by 2027

20 MW

of **solar energy** production on HAROPA PORT territory by 2025



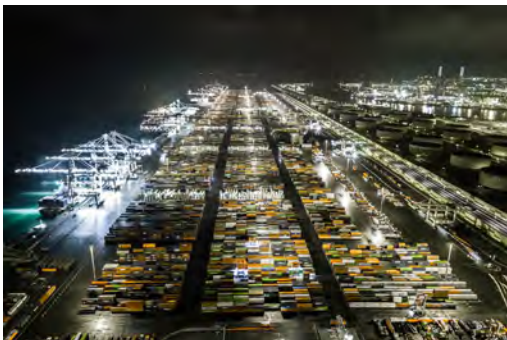


# HAROPA PORT : Electrification of berths



Electrification of inland waterway docks :  
13 stations fully operational – Target : 89  
operational in 2025 along the Seine River

Electrification of the cruise Terminal in  
HAROPA PORT | Le Havre in progress –  
Target : 3 electrically connected berths  
between 2024 and 2026



Electrification of the container Terminals –  
Target : on shore power supply operational  
from 2028

# 02

## HAROPA PORT THE Green Corridor Toward Zero emission logistic





# Onshore power supply for river and maritime berths



2023-2025 Waterway berths: gradual deployment of 89 electric terminals for barge operators along the Seine axis

2024-2026 Le Havre cruise terminal: electrification of 3 berths underway

From 2028 Container terminals: operational onshore power supply

# 03

## HAROPA PORT

Fostering logistic through  
inland navigation







# Urban river logistics is booming

## A sustainable strategy

A reliable and sustainable alternative to facilitate urban distribution

3x less  
of CO2

- **Logistical efficiency** and **low carbon footprint** ensured for unloading in the heart of the city
- **Flexible delivery** from your platforms **to a dense network** of 91 urban ports and 7 multimodal platforms in Île-de-France
- **Use of clean vehicles** for the last kilometer(s)
- **Innovative sector** : self- unloading barges , electrical distribution terminals for river boats at the quay, LNG-NGV fueling stations, etc. **which represents** :

10  
MT

50%  
river traffic in  
IDF

of annual river  
traffic intra-IDF

## Several players have adopted urban delivery



Since 2012

XPO for Franprix

Deliveries by barges after road transport, prepared from their warehouses, centralized at the port of Bonneuil and transported to the port of La Bourdonnais.

Since 2019

Fludis for Lyreco

Deliveries by its warehouse boat associated with electric bicycles for the last kilometer, prepared on board and transported from the port of Austerlitz to the port of Gros Caillou.



Since the end of 2022

Box2Home for IKEA

Deliveries by boats and electric vehicles, prepared at the Gennevilliers distribution center to be transported in suitable containers to the port of Bercy.





# Actor of the energy transition

## Supporting and encouraging the energy transition :

A Seine Axis program to provide OPS for fluvial units along the Seine for freight and cruise

Multi-energy distribution stations for trucks on our main platforms

A first H2 powered freight boat dedicated to urban logistics in the Greater Paris Metropolis

A tailor-made program for the electrification of the tourist fleet's stopover sites in Paris and a support for shipowners to facilitate the greening of their fleet.



# Urban logistics and last -mile logistics: “Les amarres”

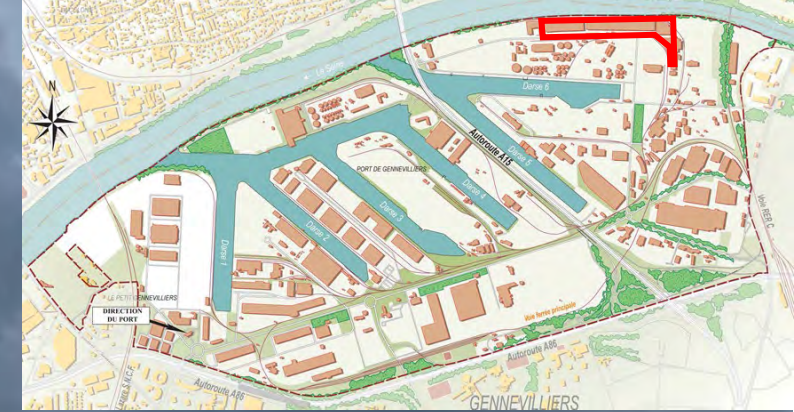
“Les amarres”, a hybrid project proposed by a collective led by Sogaris, was chosen by HAROPA PORT following a call for projects launched in 2022 to redevelop part of the former Magasins Généraux (general shops) in the Port of Austerlitz. Scheduled for completion in 2026, the site will combine river-based urban logistics, the social economy, recreational functions and workspaces.



# HAROPA PORT

Gennevilliers

A renewed offer for  
last mile logistics



GREENDOCK

A unique logistics project



# Densification and land optimization

**6 hectares plot**

**90 000 sq.m**

**7 levels**

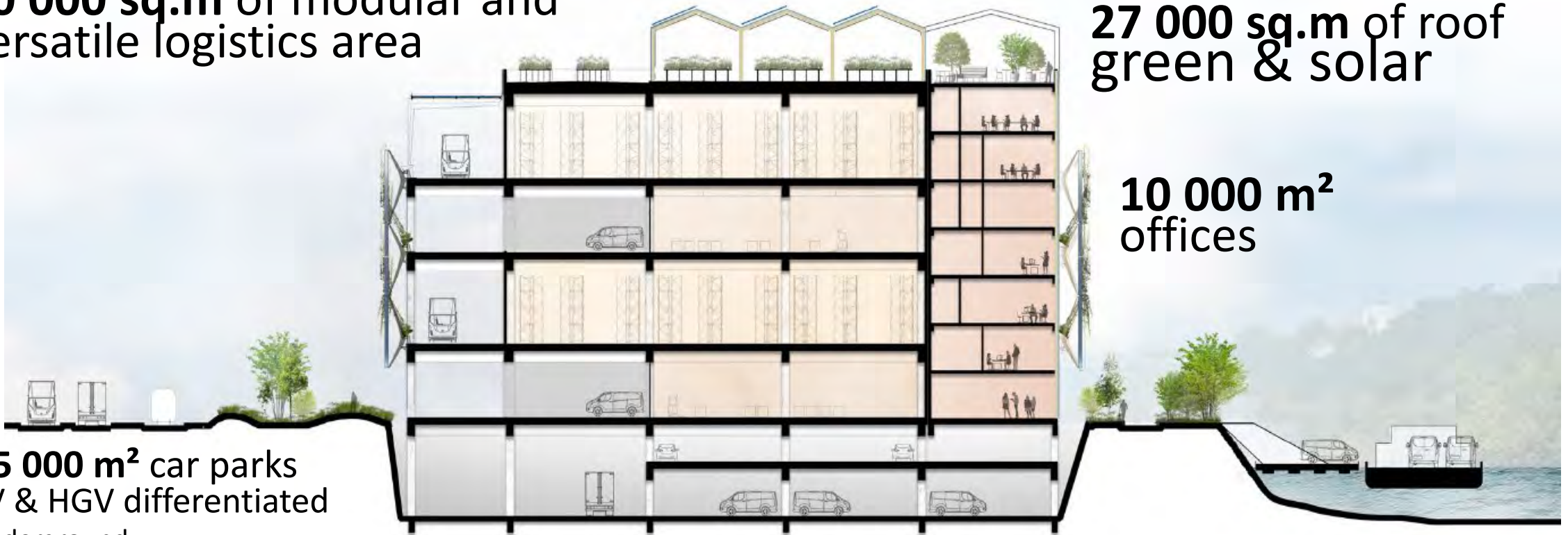
**80 000 sq.m** of modular and versatile logistics area

**27 000 sq.m** of roof green & solar

**10 000 m<sup>2</sup>** offices

**35 000 m<sup>2</sup>** car parks  
LV & HGV differentiated  
underground

**Densification of 143%**



# Unique architecture and landscape integration



# 05

## HAROPA PORT An Ecosystem Industry friendly





# Sustainable, reasoned and resource friendly re-industrialization

- Share resources and infrastructures
- Optimize material and energy flows
- Recover the waste and by-products of some to supply others

# INDUSTRY

## Strategic territory

Carbon capture

Hydrogen

Recycling, wind turbines ...



# The industrial-port zones of Normandy committed to decarbonization

## 01

### The ZIBAC project and the SOCRATE program

- Develop low-carbon industrial-port zones
- Illustration of the desire of Seine Axis industrialists to take up the challenge of ecological transition

## 02

### The development of renewable energy production

- Photovoltaic / Offshore wind / Low-carbon hydrogen
- Seine axis: Valley of new fuels

## 03

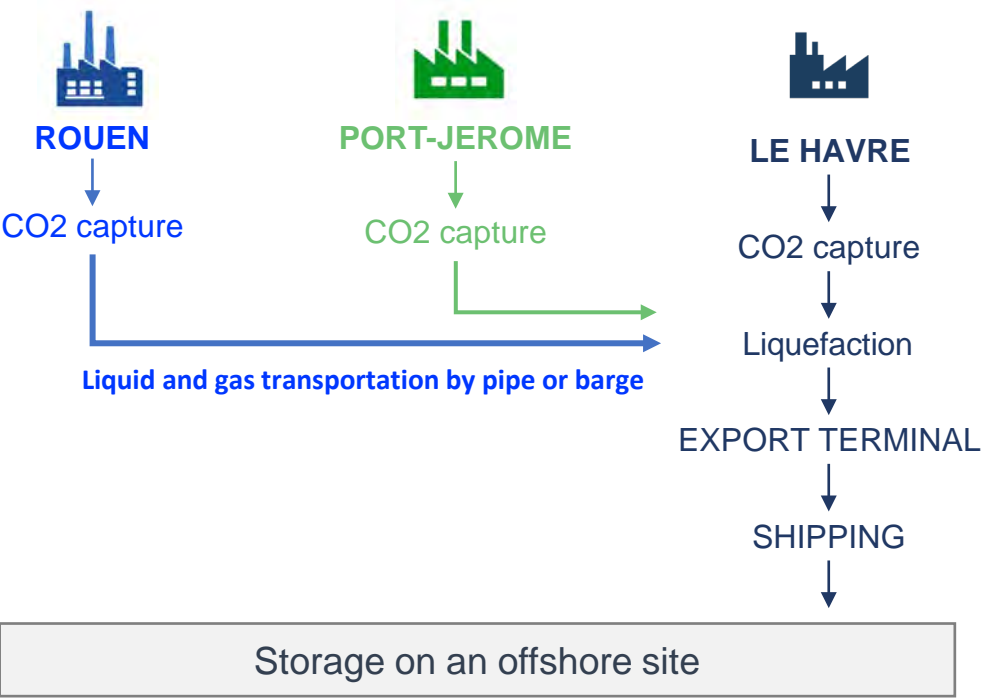
### Carbon Capture Use and Storage (CCUS)

- Capture CO<sub>2</sub>, store it, prepare it, liquefy it, bury it
- Reduce basin emissions by up to +3MT per year (equivalent to 500,000 inhabitants)

# Supporting the decarbonization along the Seine axis



**HAROPA PORT | Le Havre:**  
**CO2 HUB for the mutualization of liquefaction infrastructures dedicated to export**



Action	Process
"Carbon Capture, Utilisation & Storage (CCUS)" <b>Study</b> , 2021	<ul style="list-style-type: none"> <li>Launch of collective work including major industrial actors and infrastructure managers</li> </ul>
<b>Memorandum of Understanding (MOU)</b> Signed by 5 major industrial sites of the Seine Axis & Haropa Port	<ul style="list-style-type: none"> <li><b>MoU 2021 being signed in October 2021 during visit of the Minister of transport</b> between Total, Yara, Borealis &amp; Air Liquide</li> <li><b>HAROPA PORT</b> is included in the MOU with a special status</li> </ul>
<b>Engineering studies</b> launched and under progress	<ul style="list-style-type: none"> <li>Studies of CO<sub>2</sub> capture facilities,</li> <li>Shared infrastructure studies (purification, liquefaction, storage and transport of CO<sub>2</sub>),</li> <li>Conclusion of contracts with maritime transport operators and CO<sub>2</sub> geological storage operators.</li> </ul>

**Target for HAROPA PORT :**  
 to capture 1.5 Mt of CO2  
 by 2028 and 2030



# 26th of July







# HAROPA PORT

Le Havre  
Rouen  
Paris

Thank you for your attention