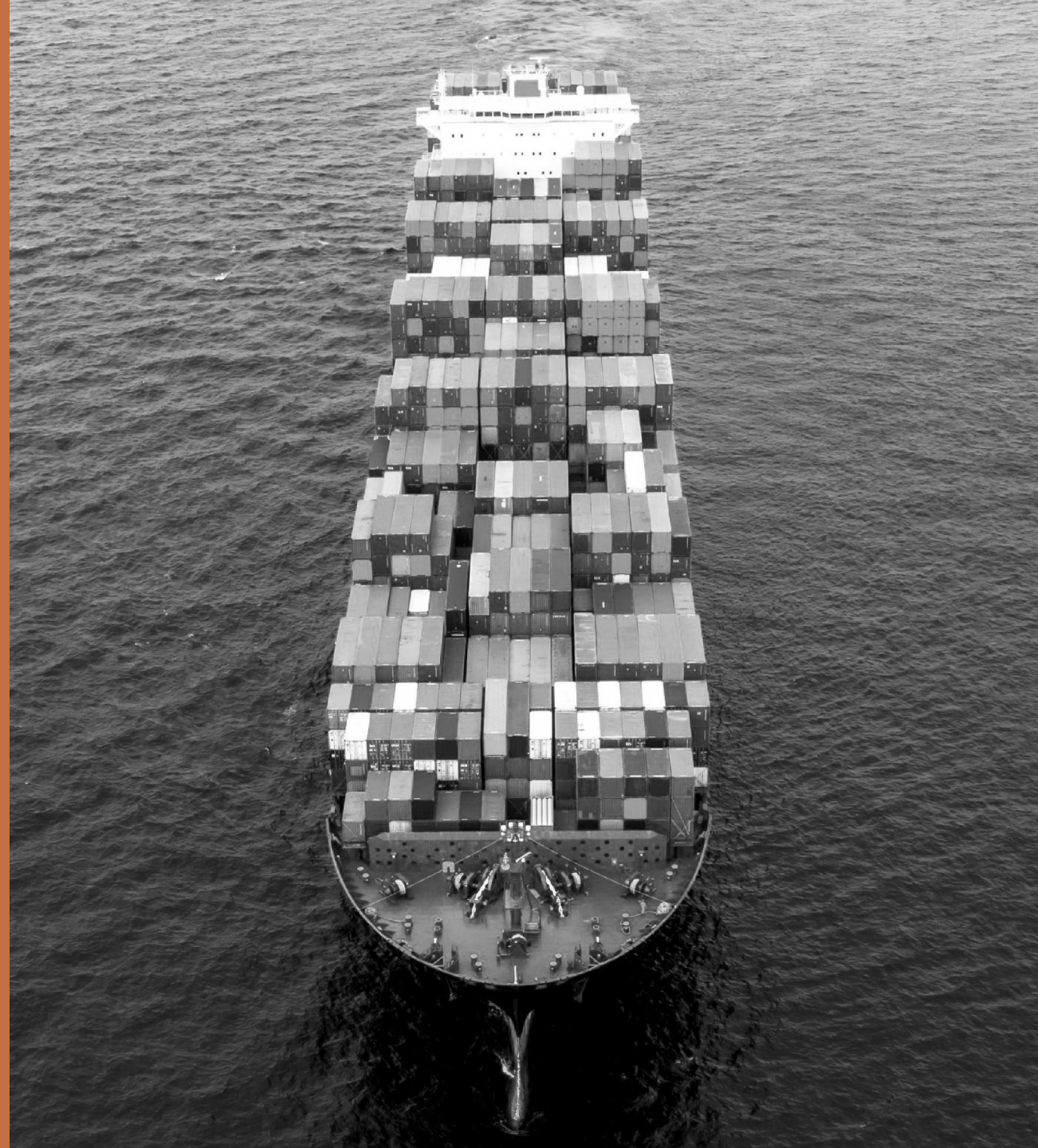


HSL
TECHNOLOGIES



HYDROGEN
STORED AS
LIQUID

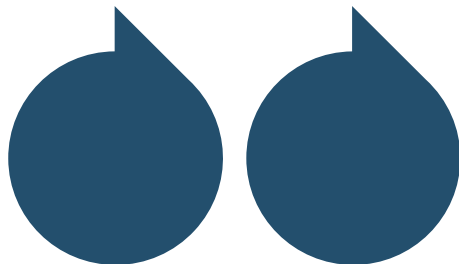
hsl.tech





Hydrogen (H₂)
is a key element in the energy
transition...

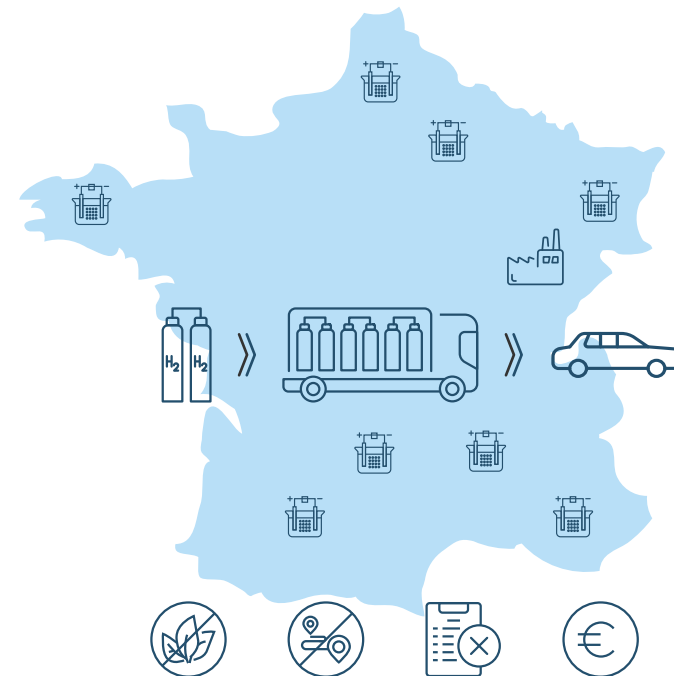
*« H₂ could meet up to 24% of the world's
energy needs by 2050 »*



(Bloomberg NEF 28.5.2020)

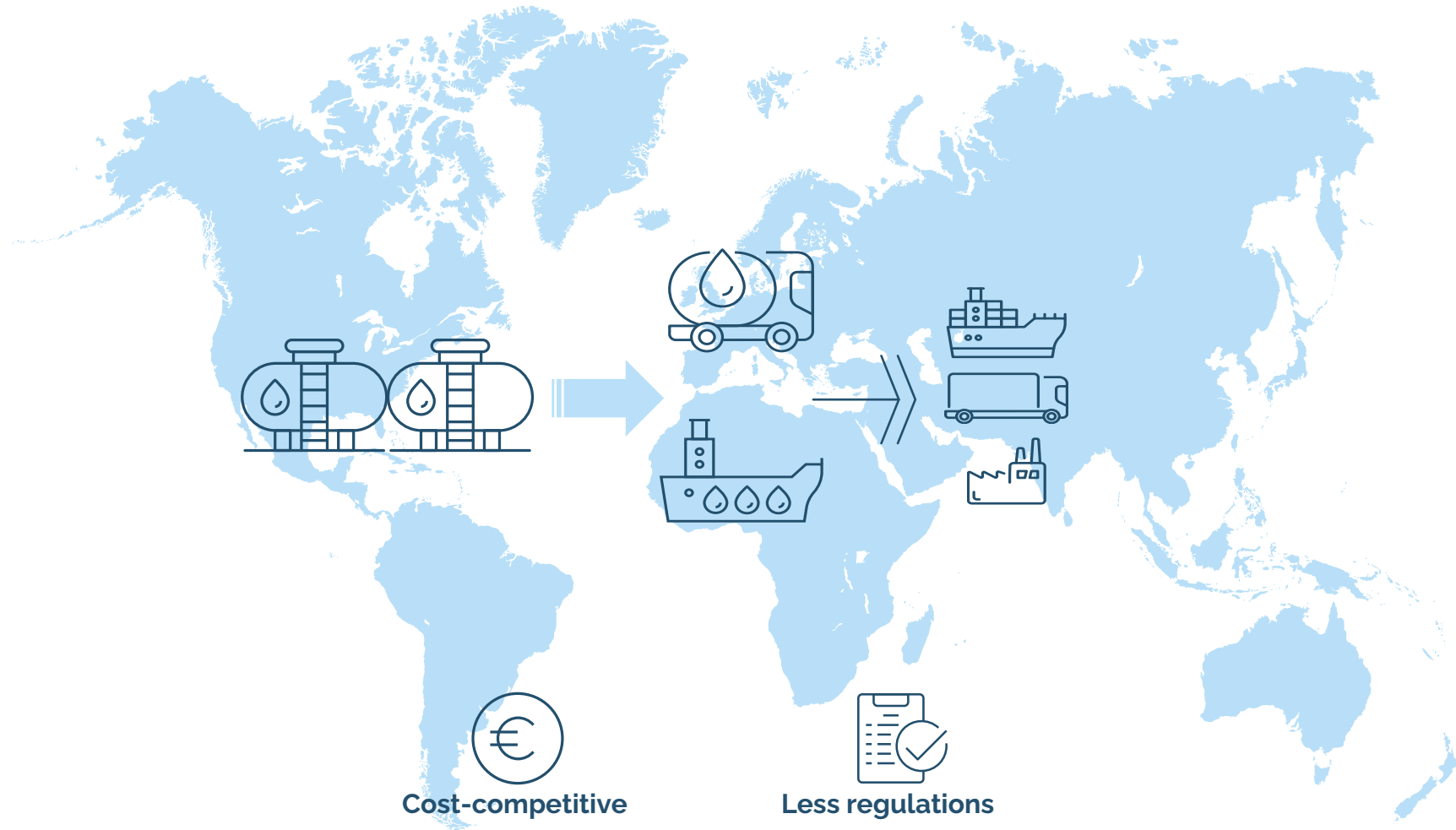
... but its logistics remain
complex and expensive

H₂ transportation is limited to
small distances and little quantities



A NEW WAY TO TRANSPORT GREEN H₂

HYDROGEN STORED AS LIQUID SOLUTIONS ENABLE MASSIVE H₂ LOGISTICS*



* Long distance transportation and long-term storage of H₂

HSL SOLUTIONS TO EASILY STORE & TRANSPORT H₂

HSL Technologies has developed two innovative chemical processes to charge and release H₂ in and out of the carrier.

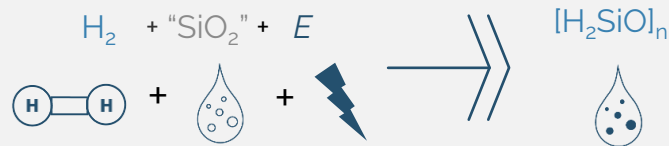


Industrial processes to load the carrier with H₂ and energy

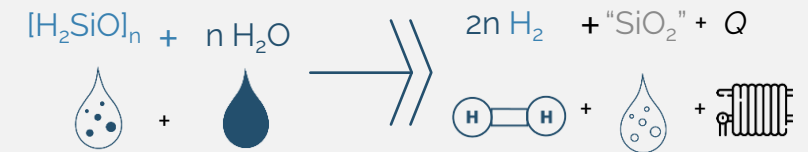
Same logistics as conventional liquid fuels

H₂ is released from HydroSil on demand without energy

Charging reactor



Release reactor



THE MOST COMPETITIVE SOLUTION

HSL
TECHNOLOGIES



Earth friendly



Liquid, Stable, Safe



On demand release without energy input

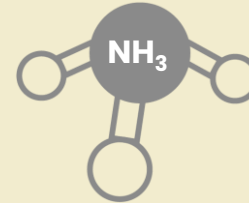
- ✓ Liquid, stable, safe
- ✓ Earth friendly
- ✓ No energy needed to release H₂
- ✓ Non-organic molecule
- ✓ Use of conventional infrastructures

Liquid Organic Hydrogen Carriers



- ✓ Liquid, stable, safe
- ✗ Earth friendly
- ✗ No energy needed to release H₂
- ✗ Non-organic molecule
- ✓ Use of conventional infrastructures

Ammonia



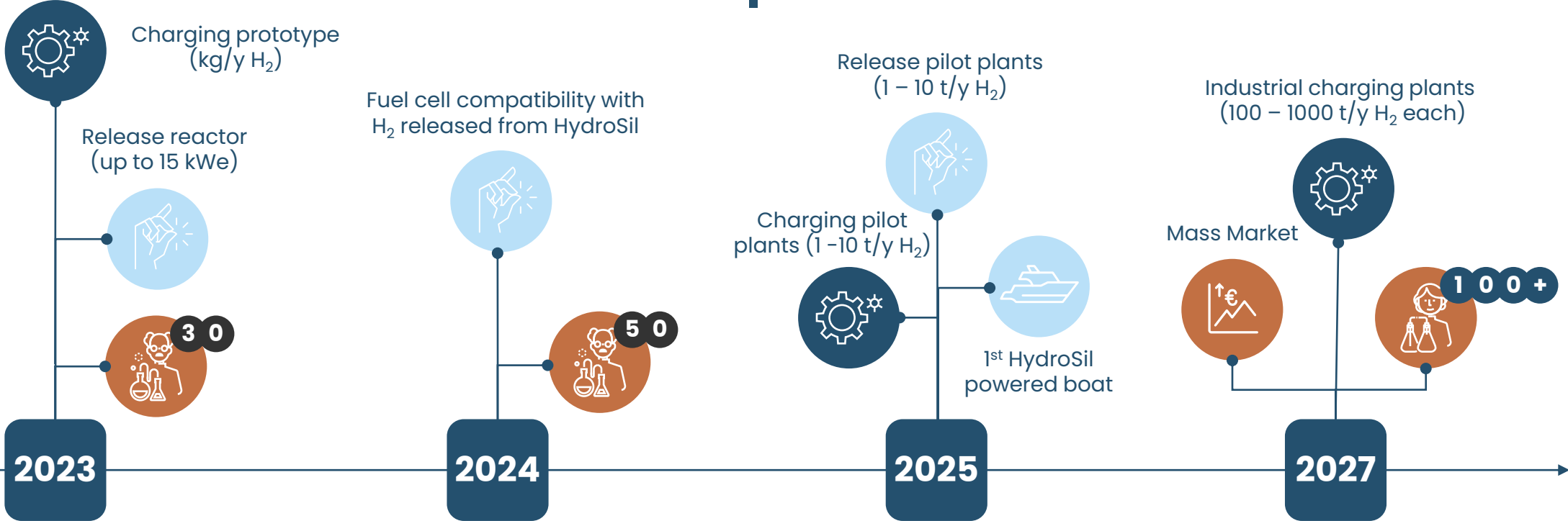
- ✗ Liquid, stable, safe
- ✗ Earth friendly
- ✗ No energy needed to release H₂
- ✓ Non-organic molecule
- ✓ Use of conventional infrastructures

Pressurized/ Liquefied H₂



- ✗ Liquid, stable, safe
- ✓ Earth friendly
- ✓ No energy needed to release H₂
- ✓ Non-organic molecule
- ✗ Use of conventional infrastructures

TIMELINE | FUTURE



From the kg to the ton of H₂ - industrialisation / full-scale

● Release ● Charge

THE COMPANY

Our values:

We **look** for the **simplest** and **fastest** way to get things done with the **maximum** impact.

We **think** big and strive for **excellence**.

We **challenge** the norms and push boundaries.



FOCUS ON CORE TEAM



Pierre-Emmanuel Casanova
CBO



Vincent Lôme
CTO



Corine Dubruel
CEO



Tristan Robino
Industrial director

AWARDED BY



LABELLED BY



ENABLING MASSIVE HYDROGEN LOGISTICS FOR ALL KIND OF APPLICATIONS

Bâtiment Lavoisier
Avenue Louis Philibert
13100 Aix-en-Provence (France)

hsl.tech

