



MARITIME CONNECTIONS

Elimination of obstacles to innovative shipping and facilitation of a modal shift in transport



CLEAN SHIPPING

SMART SHIPPING

SEA RIVER SHIPPING

Offshore energy to "X"

Acceleration of competence development in environment-friendly and low-carbon shipping

Lead the way in advanced, digitised and autonomous maritime/nautical operations in harbours and offshore

Acceleration of competence development in environment-friendly and low-carbon shipping

- Demo of offshore hydrogen production from renewable energy combined with storage & bunkering

Sustainable fuels (SF)

- Pilot projects regarding the use of hydrogen in combustion engines.
- Logistics, incl. offshore storage and bunkering of SF for shipping.
- R&D and pilot projects regarding the use of SF (excl. hydrogen) in fuel cells
- Fully electric or hybrid propulsion in shipping;
- Exploring the potential of wind energy for fishing vessels.

Making shipping more sustainable (incl. nautical aspects in harbours)

- System for compensating peak power consumption
- R&D and pilot projects regarding optimisation of the design (incl. hull) of vessels.
- Pilot projects regarding Carbon Capture on vessels
- Piloting shore power
- Reducing the spread of invasive species. Supporting the market uptake of fouling release coatings; exploration of sound-based systems

(Semi-)autonomous shipping:

- R&D and pilot project regarding (semi-)autonomous inland shipping and maritime operations (incl. offshore wind farms)
- Demonstration of shore control capabilities

Advanced, nautical aspects for harbours, islands and offshore installations:

- Mitigation of the impact of offshore wind farms on radar systems
- Offshore mooring & transshipment

SMARAGD

SSAVE

SSN

- Detailing of shipping routes and conditions for sea river shipping
- Economic and environmental decision model for vessel guidance
- Optimisation of the design of estuary vessels