24th FLORENCE RAIL FORUM

ARNO TREUR

26th OF APRIL







YOUR TAILOR MADE ROADS







MODERNISATION AND GREENING OF THE FLEET







GREENING OF THE FLEET

A lot is happening as a sector in transition



HIGH AWARENESS/WILLINGNESS

Barge owners are willing to invest



CSRD FOCUSES ON CO2 REDUCTION

Concentrating on industry/charterer



CONSUMER NEEDS & ENTREPENEURS

A task for NPRC to connect the two parties



RETROFIT TO NEW STAGE V ENGINES

Currently underway at maximum capacity in Dutch shipyards often running on **HVO**



VESSELS ARE DESIGNED CLIMATE-ADAPTIVE

First zero-emission vessels in service, technically possible!





GREENING OF THE FLEET

The keys to success



STRONG COLLABORATIONS

Between barging entrepreneurs, cooperation & charterer



LOCAL AUTHORITIES SUPPORTING PIONEERS





SUSTAINABILITY - ZERO EMISSION

Also, many bottlenecks & high risks



LONG-TERM COMMITMENT

Barge owners can only invest with long-term responsibility in the chain, while 1–5 year contracts are the norm



DEMANDS OF FASTER TRANSITION

Investments are always for a period of 15-20 years, while technological developments & society demand speed



CAPEX FOR ZE = HIGHER (DOUBLE)



OPEX FOR ZE = HIGHER & UNCERTAIN



RISK OF HIGHER CAPEX/OPEX WITH BARGE OWNER

Has no influence on demand for zero-emission transport in the chain

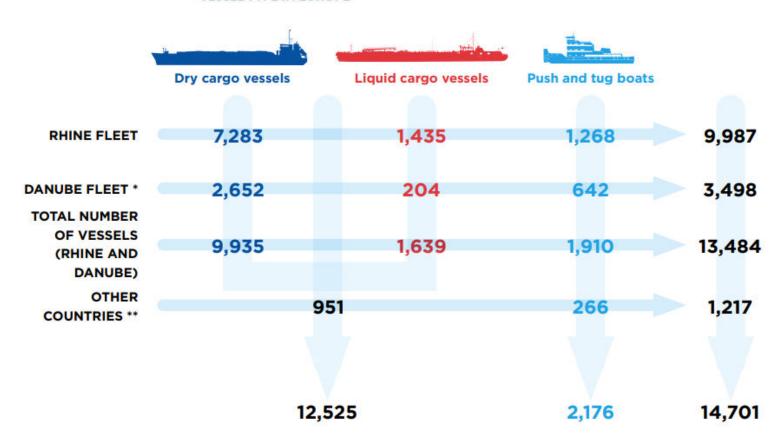




EUROPEAN INLAND FLEET

Source: Marketobservation CCNR/EC 2023

TABLE 1: SIZE OF FLEETS (NUMBER OF INLAND VESSELS) PER MACRO-REGION AND VESSEL TYPE IN EUROPE



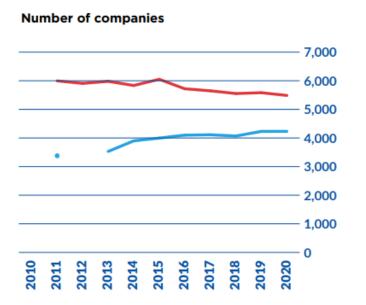


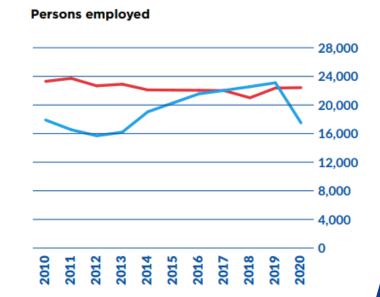
EUROPEAN IT COMPANIES & EMPLOYMENT

FIGURES 1 AND 2: **DEVELOPMENT OF NUMBER OF COMPANIES AND EMPLOYMENT IN FREIGHT AND PASSENGER TRANSPORT IN THE INLAND WATERWAY TRANSPORT SECTOR IN EUROPE**

Freight transport

Passenger transport





Source: Marketobservation CCNR/EC 2023



The IWT sector is dominated by SMEs



5,486 IWW freight companies in EU with a total employment of 22,417 persons



INVESTMENT MATERIALISING EU GREEN DEAL

To reach emission reduction goals of the IWT sector needs



FINANCIAL GAP TO BE BRIDGED TOWARDS ZERO EMISSION

Of inland vessels, based on an average price scenario of 5.22 billion, to speed up the deployment and close the gap between investment and operations



MAKING THE BUSINESS CASE

Through supportive state aid guidelines, higher thresholds and extended catalogues of eligible costs (CAPEX & OPEX)



TAILOR MADE & DEDICATED FUNDING

Combining national and EU funding schemes for:

- Engine renewals;
- Innovative vessel design reducing energy consumption & making fleet resilient towards climate change;
- Retrofitting of engines of existing vessels with electric drive/propulsion (exchangeable for future green solutions).

How to contribute to the EU strategy on sustainable and smart mobility





ADAPTATION & ALTERNATIVE ENERGY SOURCES

What is needed?



AVAILABILITY & ROLL OUT OF ALTERNATIVE FUELS

On the entire system of inland waterways



NEUTRAL TECHNOLOGICAL APPROACH

To ensure most suitable & promising technologies being deployed in a safe manner



SUPPORT MEASURES FOR ENERGY TRANSITION

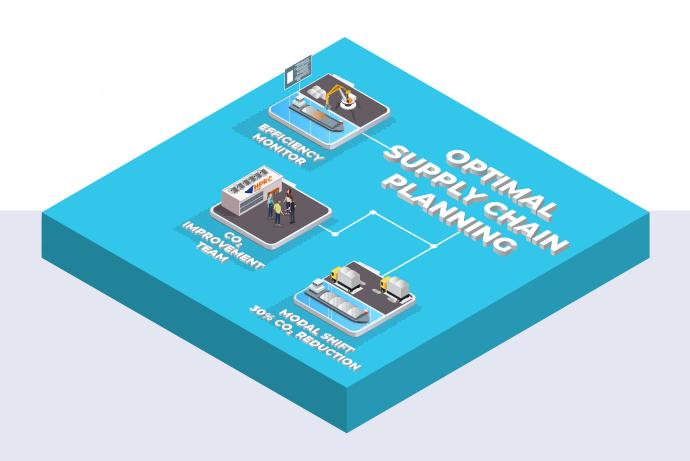
- Low or zero-emission fleet, renewables, infrastructure & superstructure (GBER, Section 7 Aid aligned with CEEAG 2022)
- Facilities & equipment producing, storing & transporting renewables

How to contribute to the EU strategy on sustainable and smart mobility





OPTIMAL PLANNING & MODAL SHIFT





MODAL SHIFT INLAND SHIPPING: WHY?



LOWER LONG-TERM INFRASTRUCTURE COSTS

Current road infrastructure needs to be expanded + (heavier) road transport also does more damage to it; infrastructure costs fall with modal shift.



STRENGTHENS COMPETITIVE POSITION OF EU INDUSTRY

Already under pressure. Efficient logistics processes are proven USPs compared to competition with other world economies



ENERGY EFFICIENT

Contributes to reducing CO2 emissions by up to 30% in the short term and is the best choice in the long term to use as little energy as possible for transport





MODAL SHIFT & EMISSION REDUCTION

Potential of inland waterway transport





MODAL SHIFT INLAND SHIPPIN



MORE ACTIVE POLICY NEEDED

Despite EU ambitions, we do not see major shifts in market share of inland waterway transport in recent years, based on 'soft' policy



RELIABLE INFRASTRUCTURE

With dense network of container terminals & multipurpose bulk terminals



MODAL SHIFT ON AGENDA OF BUSINESS COMMUNITY

As a strategic core value for the future



CLOSE KNOWLEDGE GAP OF INTERMODAL TRANSPORT



ENCOURAGE DATA-DRIVEN CARGO FLOW ANALYSES



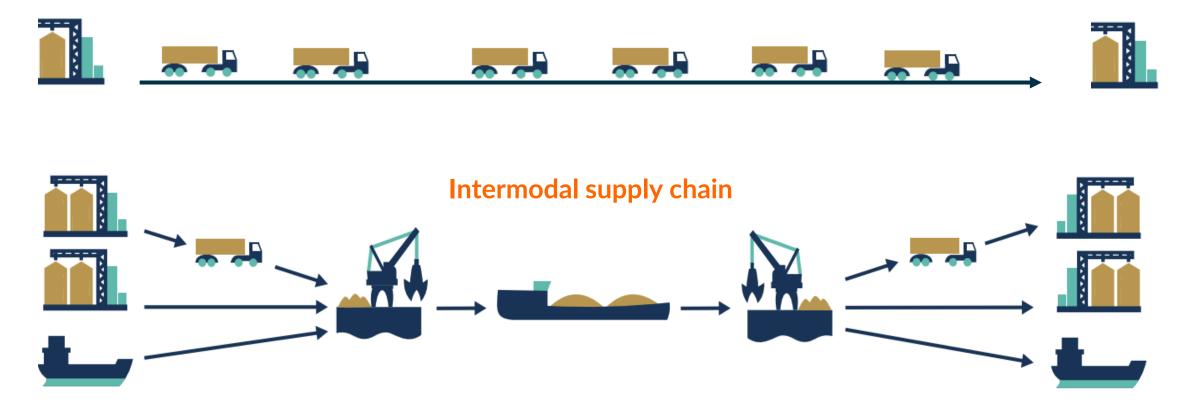
BE ALERT TO POLICY CHOICES





MODAL SHIFT = SUPPLY CHAIN RE-DESIGN = PROCESS TRANSFORMATION

Straightforward supply chain





THANK YOU FOR YOUR ATTENTION



Any questions?



WANT TO KNOW MORE?

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