

Danube Transnational Programme

GRENDEL “Green and efficient Danube fleet”

DTP2-052-3.1-GRENDEL

Know-how transfer event on the modernisation of Danube vessels fleet
Charlotte SIOT

Project co-funded by European Union Funds (ERDF, IPA)



Fields of action for Danube fleet modernisation

Use of alternative fuels

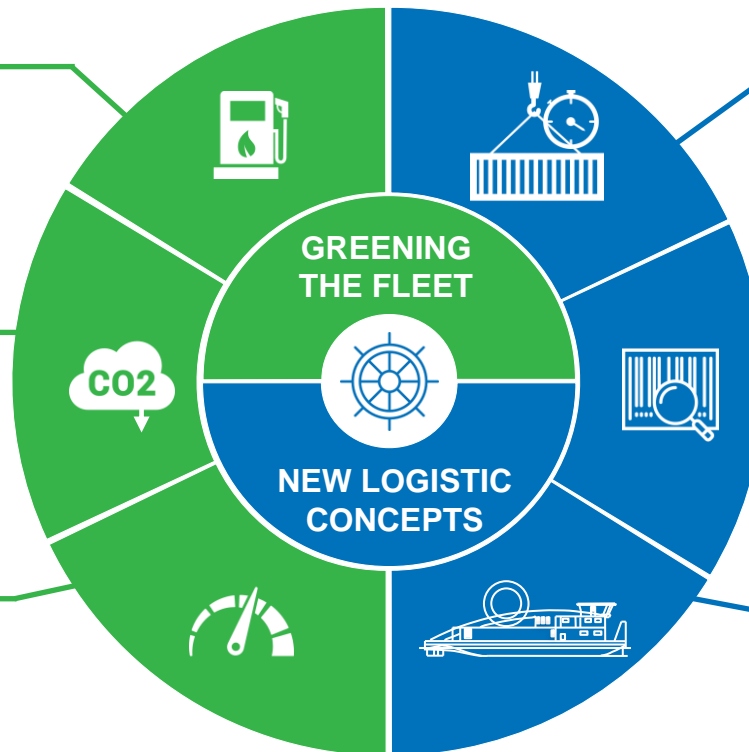
LNG/CNG • Bio-fuels •
Methanol • Ethanol •
Hydrogen • GTL

Air pollutant emissions reduction

Alternative technologies •
After-treatment • New engine
concepts and optimisation

Energy consumption reduction

Energy-efficient navigation •
Energy efficient ship design •
Hybrid/diesel-electric propulsion
• Electric propulsion



New logistics concepts

Synchromodality • DINA •
Advanced RIS • Digital market
places for cargo flows

New cargo flows

Find your (water)way • New
market segments:
(containerised) LNG as cargo
| steel & cars | continental
cargo flows

New vessel concepts

Optimal cargo load •
Automation of navigation /
vessel-trains

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GRENDL: Project key facts



FUNDED PARTNERS

- Fleet owners & operators
- Innovation & technology organisations
- IWT development agencies
- Education institutes
- Ship design experts
- River commission (Danube Commission)



ASSOCIATED STRATEGIC PARTNERS

- Ministries & their implementing bodies
- Other fleet owners & operators



1.8 MEUR

- ERDF contribution: 85%
- IPA contribution: 85%
- State contribution: up to 15%
- Own contribution: up to 15%



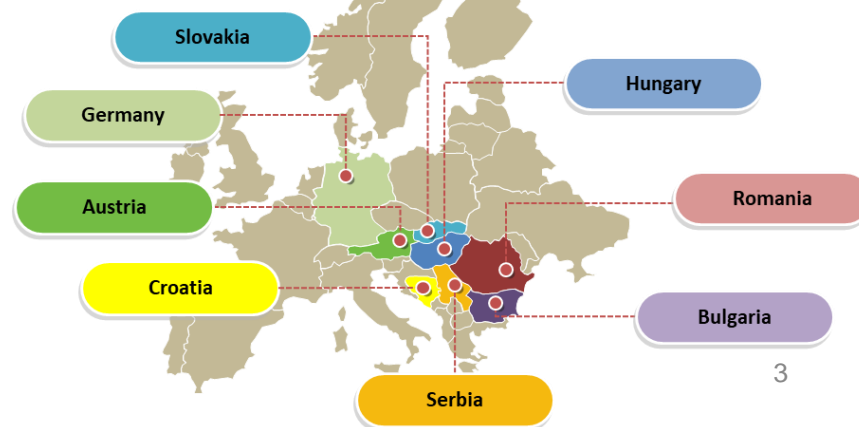
6.2018 - 11.2020

- 30 months of working & cooperation together

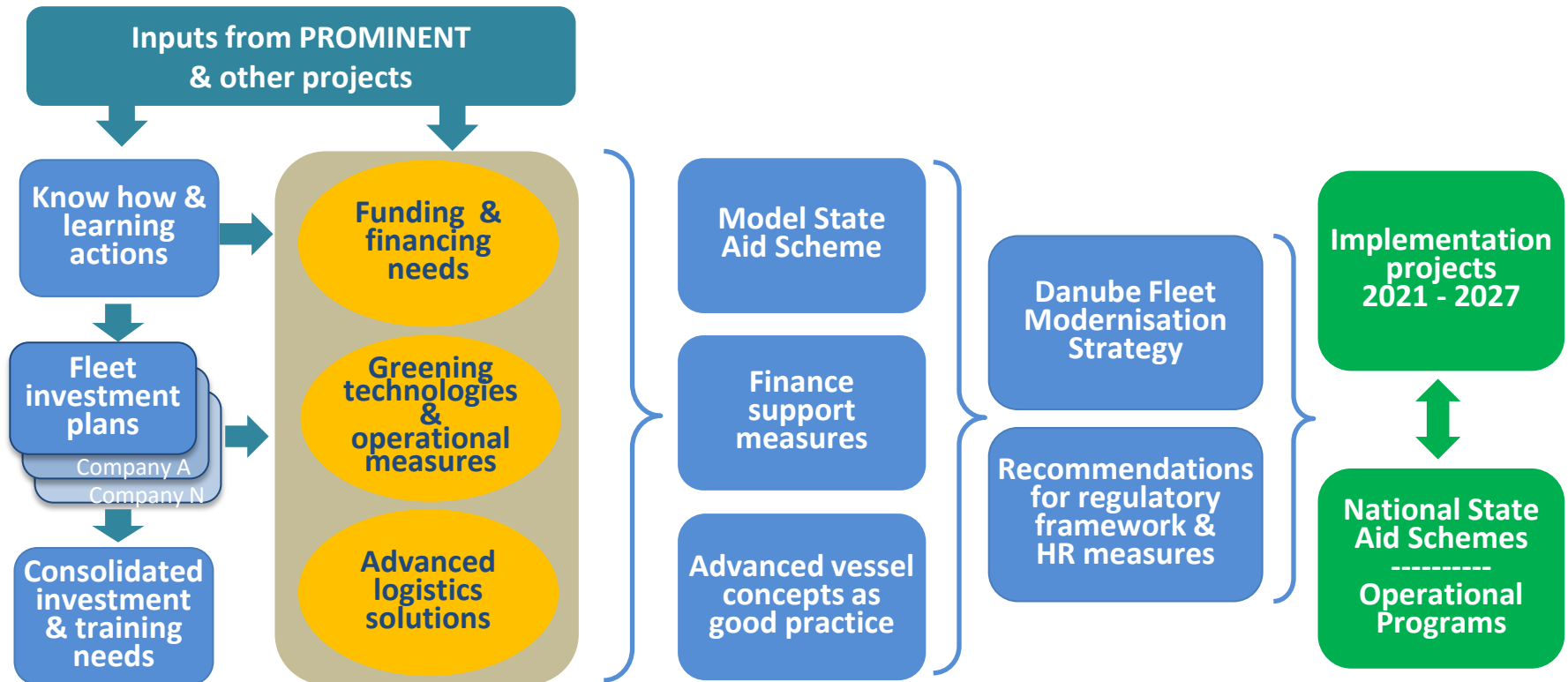


NON-FUNDED STAKEHOLDERS

- Fleet owners & operators
- Logistics service providers
- Technology providers
- Cargo owners



GRENDEL: Work approach



GRENDEL: Outputs



FLEET INVESTMENT PLANNING

Know-how transfer
events

Technological
Factsheets & other
documents

Consolidated
Investment
& Training
requirements

PREPARATORY ACTIONS

Advanced green
vessel &
operational
concepts

Guidelines for
transport &
logistics
management

Support to fleet
owners & operators
(financing
instruments)

REGULATION & STRATEGY

Public
consultations

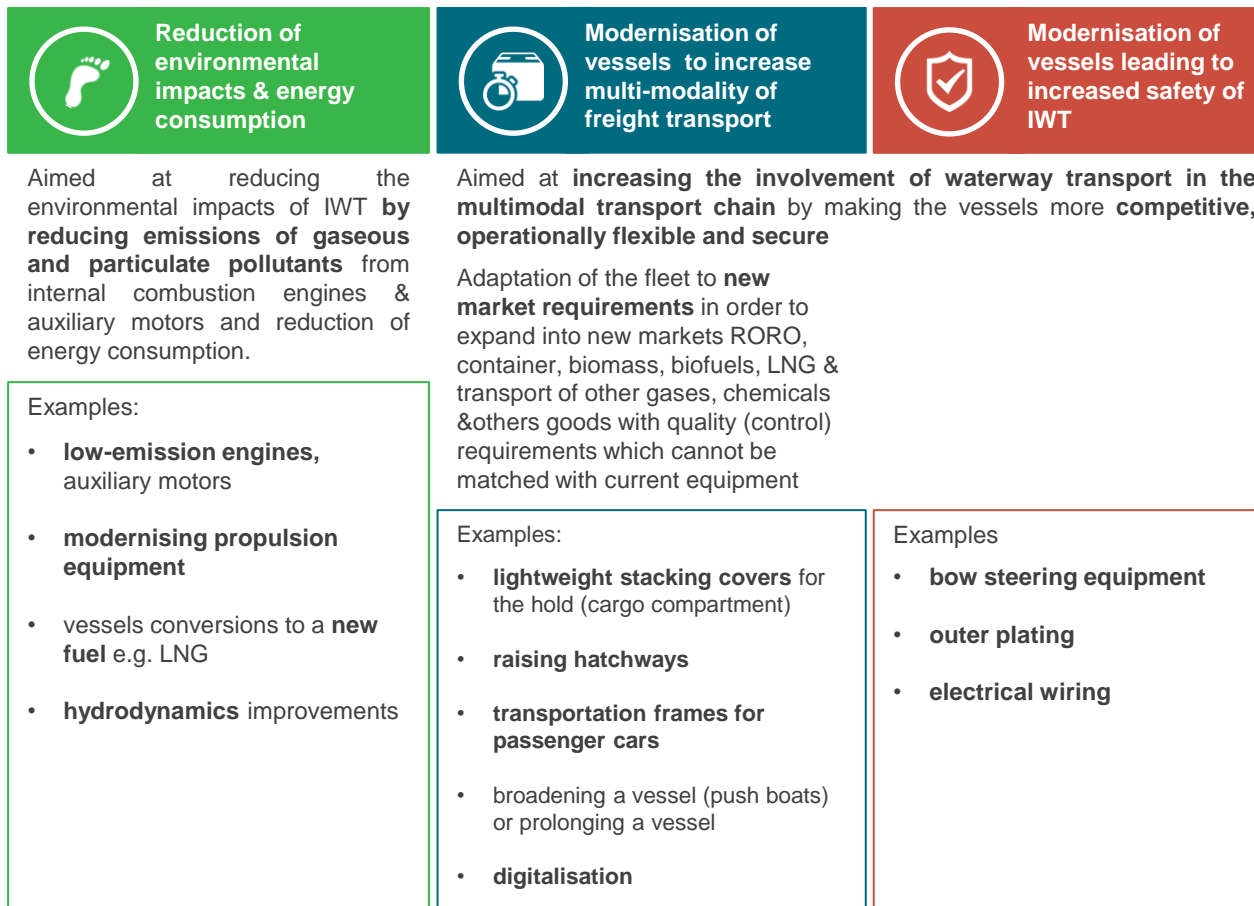
Model State Aid
scheme & other
public support
measures

IWT Fleet
Modernisation
Strategy &
Recommendations

GRENDEL: State Aid schemes (starting point)



CZ state aid scheme



GRENDEL: State Aid schemes (timeline)



Preparatory works:

- Inventory on past, existing & upcoming State Aid measures
- 2 State Aid workshops (first one on 26.03.2019)
- „State Aid meetings“ with European Commission services
- Analysis of impact and compatibility of proposed State Aid measures

Model State Aid scheme
& public support measures

available on 30.04.2020

- ***Model which considers investment priorities of Danube inland waterway transport sector***
- *With a summary on other innovative financial instruments*

Draft State Aid scheme
developed based on the
model prepared

ready on 30.11.2020

- *Will be prepared by **at least one** participating state*

Objective that the Model State Aid scheme will be implemented in as many Danube states as possible with the support of EU funds.



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General Secretary

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GRENDEL “Green and efficient Danube fleet”

Towards modernisation & greening of Danube inland waterborne sector and strengthening its competitiveness

www.interreg-danube.eu/grendel

