

Fleet modernisation: What do we finally need for a successful realisation?

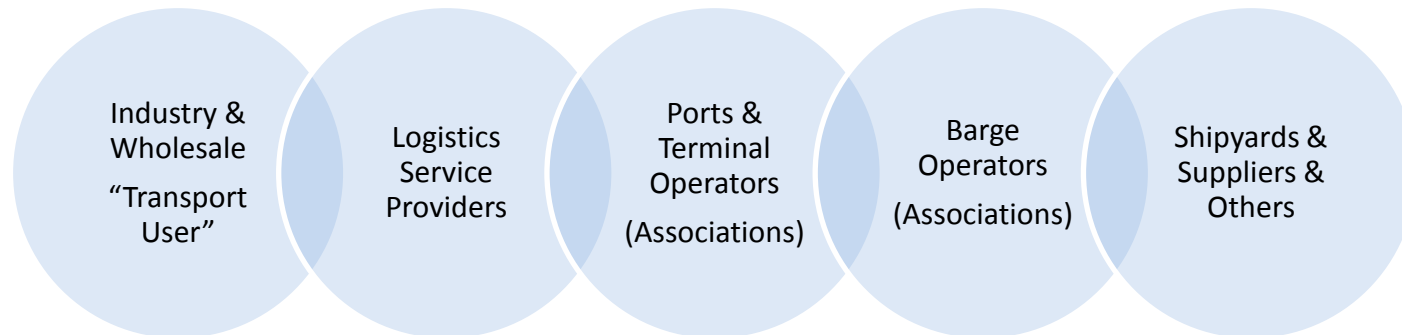
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Pro Danube International – an active partner

Platform of private companies with strategic economic interest in better framework conditions and higher public investment in the Danube transport & logistics system



- Established autumn 2011 by companies & associations
- Non profit association based in Vienna
- Network of currently more than 130 companies
- **More than a lobbying organization as we initiate and execute projects**

Four major priorities along concise strategy

- **Engagement for better waterway maintenance & execution of TEN T bottleneck projects**
 - Push governments & administration for minimum standards in waterway maintenance (2,5 m fairway depth at LWRL)
 - Engage in permanent monitoring of infrastructure maintenance & proposing improvements
 - Promote quicker implementation of TEN T projects (2,5 m draught according UNECE/AGN)
 - Support waterway administrations to use EU programs in financial period 2014-2020
- **Promotion of investment in Danube ports**
 - Promote ports as hubs for regional development strategies & cross-border initiatives
 - Support public and private stakeholders in port development programs/projects
- **Elimination of administrative barriers**
 - Identification of barriers and engagement in dialogue with administrations/policy makers to achieve elimination/reduction
 - Harmonizing administrative procedures - “Same River – Same Rules” initiative of PDI
- **Support to modernization of Danube fleet**
 - Propose & implement EU funded initiatives and projects for higher efficiency of operations & environmental performance
 - Promote development of long-term public funding schemes for fleet renewal
 - Promote & support implementation of LNG as fuel as well as cargo for Danube navigation

Starting point for fleet modernization

- Challenge is to optimize existing fleet with regard to energy-efficiency, emissions, propulsion, safety of navigation and operational costs, but:
 - *“Not everything which is technically feasible is economically viable”*
- Important preparatory step: EC/DG Regio commissioned study: **„Innovative Danube vessel“ (12/2013):**
 - *“Dedicated shallow draft vessels are less effective than most of existing vessels and result into higher transport costs”*
 - *“Innovation in shipbuilding cannot compensate minimum standards of waterway infrastructure, we need both!”*
 - Deployment of a certain number vessels with proposed innovations still open
- **H2020 PROMINENT: vessel greening technologies – concepts & pilot actions**
- **LNG Masterplan for Rhine/Meuse-Main-Danube**
- **Innovation Agenda / Platina 2**

Framework conditions for innovation in Danube IWT

OBSTACLES: Infrastructure & “structural” shortcomings

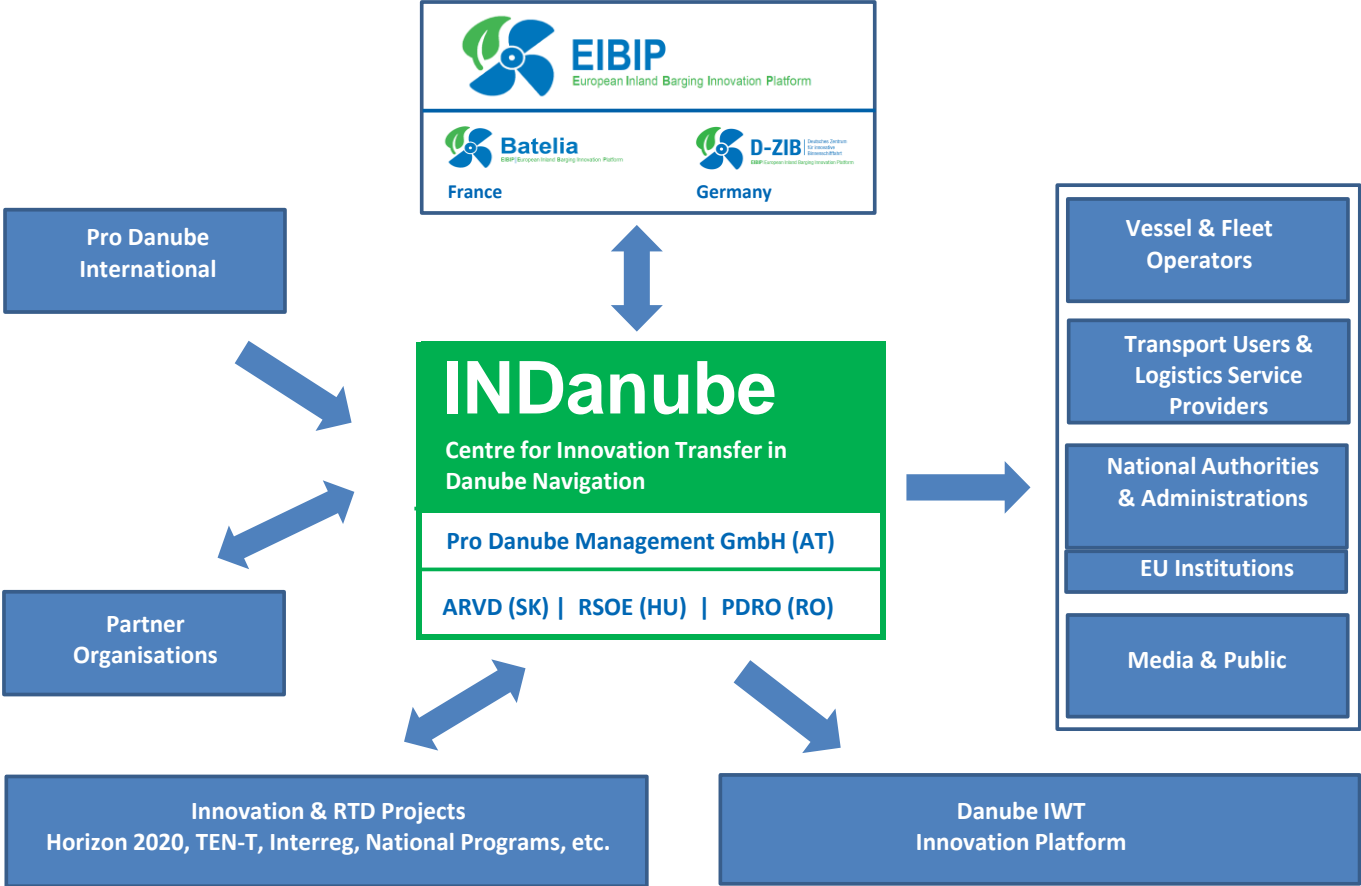
- Deficiencies in fairway maintenance → financial losses for IWT sector
- Reduced transport volumes (changes in industry structure, lack of infrastructure investments & maintenance, reduced trust from transport & logistics users, unfulfilled service requirements)
- Barging companies deprived of profit → no investments → lack of access to finances
- No public support schemes for innovation & investment
- Lack of know-how for project development (commercial / EU funding)
- Insufficient political awareness on needs / economic potential of IWT (infrastructure investment priorities in rail/road)

OPPORTUNITIES

- Awareness of the European Commission on existing problems and economic potential of IWT & need to act -> part of EU funding schemes
- Important lead projects already exist (e.g. PROMINENT; LNG Masterplan) as well as policy platform EUSDR PA1A
- RIS (partially) implemented in all Danube countries
- Creation of EIBIP (European Inland Barging Innovation Platform / INDanube innovation (transfer) centre)

EIBIP /INDanube – an important policy instrument

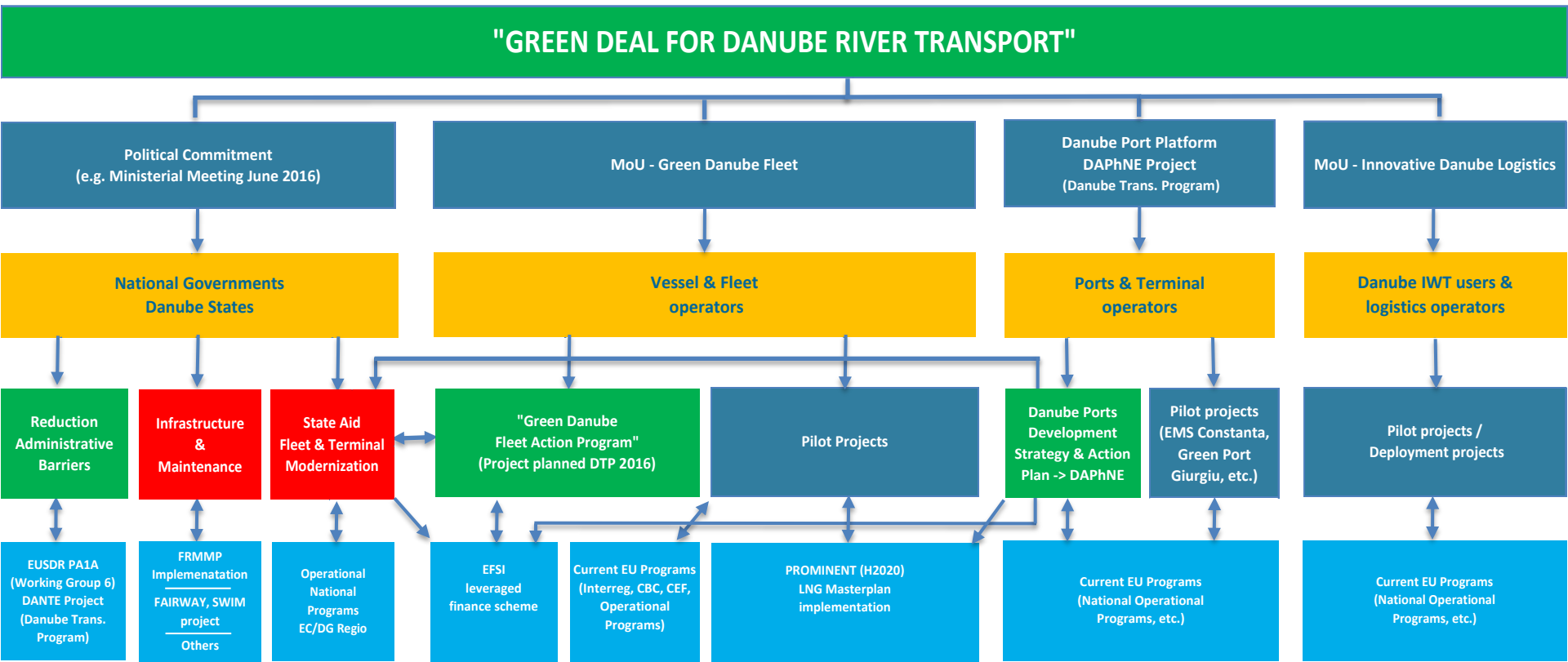
INDanube - Centre for Innovation Transfer in Danube Navigation Organisational Structure



INDanube – Facilitator for innovation in Danube IWT

Innovation actions contributing to the results			
No.	Innovation action	Actions EIBIP:	Ambition in 2020
I	The rapid uptake of alternative fuels such as LNG/ CNG, GTL, Renewables	Facilitate and promote 25 – 30 vessels sailing with LNG or other alternative fuels.	10% of the fuel consumption of the inland fleet replaced by alternative fuels as an ambition
II	The significant reduction of energy consumption	At least two concepts of innovative vessel designs implemented and one concept of energy-efficient navigation deployed	-5% reduction of energy consumption per tkm by IWT
III	The significant reduction of pollutant emissions from ships such as NOx, particulate matter	At least three concepts of pilots with emission-reducing equipment implemented	-20% reduction of NOx and PM
IV	The introduction of new vessel / inland waterway based logistic concepts to attract new markets	The development of three new logistic concepts, focussed on the TEN-T network.	8% modal share of IWT (now: 6,7% for EU-28 (Eurostat, 2013))

A new policy initiative proposed – The Green Deal



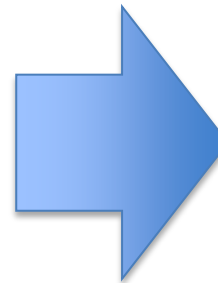
EUSDR PA1A & Danube Corridor Plan & Danube Innovation Centre (INDanube / EIBIP)

INDanube Work Programme – Fleet related activities

Green Deal Pillar	Results	Related actions and tasks	Deadlines & Milestones	Target groups
MoU – Green Danube Fleet	<ul style="list-style-type: none"> • Signature of an MoU after consultation with the industry stakeholders • Establishment of LNG Platform Danube • Participation and organization of relevant IWT events • Facilitation of LNG projects in the Danube Region • Facilitate Greening Danube Fleet platform project in DTP Call 2016 	<ul style="list-style-type: none"> • Initiate a dialogue with key stakeholders • Facilitate LNG/alternative fuel as part of overall Danube IWT Innovation Strategy • Win commitment of major fleet/vessel operators for elaboration of a strategy for greening the Danube fleet – “Green Danube Fleet Strategy” • Promote need for Green Danube Fleet initiative and its deployment • Facilitate pilot projects as part of Green Danube Fleet Strategy • Support fleet/vessel operators in fleet greening measures by setting up EU/national funded project applications and towards other financial support schemes on national and/or EU level • Disseminate benefits and good practice of fleet greening to Danube fleet operators • Establish a concept to promote the uptake of on-board emission monitoring systems at Danube operators as part of the Green Danube Fleet Strategy • Apply for Danube fleet platform project in DTP Call 2016 	<ul style="list-style-type: none"> • MoU: 2016 • Further: based on the MoU • DTP Call 2016 	<ul style="list-style-type: none"> • Vessels & Fleet Operators • Transport Users & Logistics Operators

Conclusions

- Fleet modernization must be embedded into comprehensive policy initiative providing framework for innovation, therefore **“Green Deal for Danube River Transport”**
- **INDanube** & partner organizations will facilitate innovation projects based on findings of European RTD & innovation lead projects in close connection to EUSDR / PA1A
- A comprehensive **European IWT Innovation Agenda** and the necessary **coordination platform** needs to be set up in close cooperation of :
 - IWT sector organizations
 - EC Services
 - Member States



The stakeholders know WHAT to do – concrete solutions must be delivered in order to :

„BRING INNOVATION INTO THE DANUBE SECTOR“

Thank you for your attention!

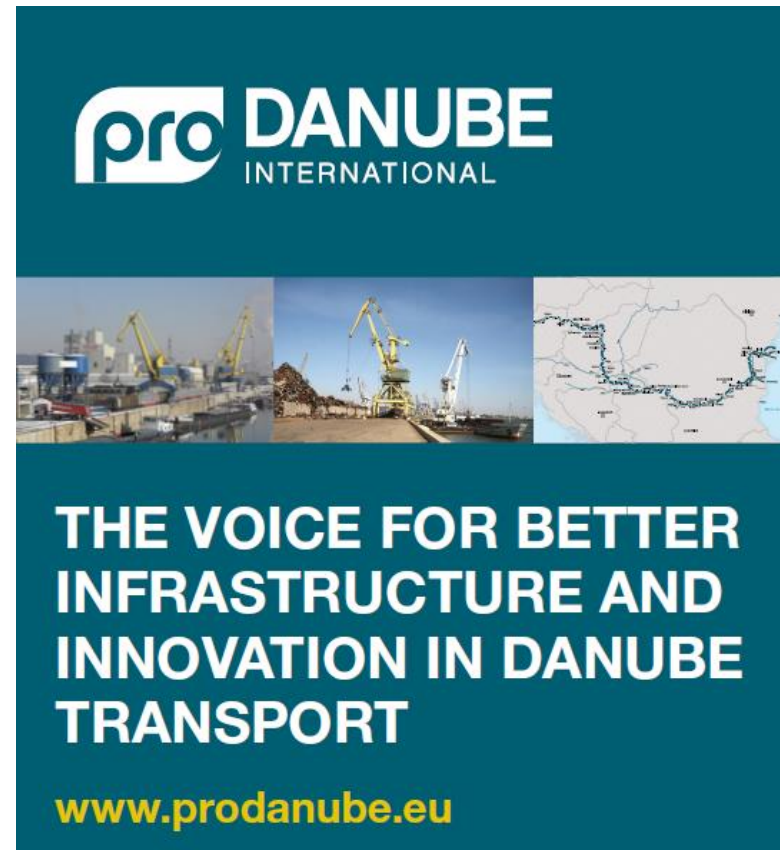
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The image shows a promotional banner for Pro Danube International. At the top, the logo features the word "pro" in a white lowercase font inside a dark teal rounded square, followed by "DANUBE" in large white uppercase letters and "INTERNATIONAL" in smaller white uppercase letters below it. Below the logo is a horizontal strip of three images: a port with yellow cranes, a construction site with a yellow crane, and a map of the Danube river basin. The bottom half of the banner is a solid dark teal background with the text "THE VOICE FOR BETTER INFRASTRUCTURE AND INNOVATION IN DANUBE TRANSPORT" in white uppercase letters. At the very bottom, the website "www.prodanube.eu" is written in yellow lowercase letters.