INDanube – Centre for innovation transfer in the Danube region

Overview of activities & initiatives

Workshop on modernisation of Danube vessels fleet

Lucia KARPATYOVA
EIBIP

European Inland Barging Innovation Platform

EIBIP is a European platform of regional innovation facilitation centres, to promote the uptake of innovation by the Inland Waterway Transport sector.
INDanube activities vs. policy initiative

GREEN DEAL FOR DANUBE RIVER TRANSPORT

**National Governments of Danube States**
- Reduction Administrative Barriers
- Infrastructure & Maintenance
- State Aid Fleet & Terminal Modernisation

**Vessel & Fleet Operators**
- Fleet modernisation Programmes and Projects

**Ports & Terminal Operators**
- Development Strategy & Action Plan and Implementation projects (Danube port network)

**Danube IWT Users & Logistics Operators**
- MoU - Innovative Danube Logistics / Pilot & Deployment Projects

Existing EU Programmes • National Programmes • Lead Projects • Financing Schemes

EUSDR PA1A • Danube Corridor Plan • Danube Innovation Centre (INDanube - EIBIP)

**GRENDEL**
- Project proposal in 2nd call Danube Transnational Programme
- 06/2018-11/2020

**Interreg**
- Danube Transnational Programme
- DANTE
- 01/2017-06/2019

**Interreg**
- Danube Transnational Programme
- DAPHNE
- 01/2017-06/2019

**Danube IWT Users & Logistics Operators**
- • ENERGY BARGE (DTP) → bioenergy industry
- • AEOLIX (H2020) → freight brokerage platform
- • RIS COMEX (CEF) → RIS for transport / logistics
- • CHEMICAL INDUSTRY (interconnected supply chain from source to end-user → blockchain)

18 April 2018 • Vienna • Workshop on modernisation of Danube vessels
INDanube IWT Innovation Uptake Focus

**Use of alternative fuels**
- H2
- Methanol
- Ethanol
- GTL
- LNG
- CNG
- Hybrid
- Diesel
- Electric
- Bio-fuels

**Air pollutant emissions reduction**
- After-treatment
- Emission & fuel measurements
- New engine concepts & optimisation

**Energy consumption reduction**
- Smart navigation
- Hybrid & electric propulsion
- Energy efficient ship design

**Greening the fleet**
- **New logistic concepts**
- Digitalisation
- Advanced RIS
- DINA
- Digital Inland Navigation Area

**New cargo flows**
- New market segments
- Multimodality

**New vessel concepts**
- Education & training
- Automation

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INDanube services → innovation transfer

INFORMATION SERVICES
Provision of information: innovation radar, public funding / finance advice, regulatory framework advice, good practice examples & lessons learned
Target: vessel & fleet operators

(PROJECT) ASSISTANCE & CONSULTANCY
First level project analysis and support, identification of financing & funding, partners search & consortium formation
Target: vessel & fleet operators

ADVOCACY
Public support and recommendations towards the green IWT regulatory framework, public support schemes and initiatives
Target: national administrations & EC services

COMMUNICATION & DISSEMINATION
Dissemination activities incl. innovation in IWT news, stakeholders events, PR materials, media work, INDanube website updates
Target: IWT stakeholders, media & wider public

USER PLATFORM MANAGEMENT
Preparation & operation of “Green IWT User Platform”: dissemination of good practices, project facilitation & partner matching
Target: transport users & logistics operators
INNOVATION RADAR

The Innovation Radar is a powerful tool mapping future-oriented, emerging and innovative technologies along with technical papers, publications and projects relevant for the inland waterway transport sector.

GREENING TOOL

The Greening Tool is an interactive tool designed for ship owners and policy makers looking for emission and fuel consumption reduction of inland waterway vessels. It contains the most recent information about costs and benefits of available greening technologies for inland shipping.

FUNDING DATABASE

European Funding Database, maintained by EIBIP, is an online tool consolidating public funding opportunities relevant for inland waterway transport (IWT) sector. Through this tool the IWT users can search for various funding opportunities and calls either by country or by pre-defined policy areas.
(Project) Assistance & innovation consultancy

1 Innovation project facilitation
- First level project support for inland waterborne transport stakeholders (email, phone, at dedicated events through specific match-making and consultancy workshops or speed-dating, etc.)
- Initiation and development of R&I cooperation projects potentially leading to a funding application
- Project management consultancy and support

2 Innovation consultancy
- Direct company consulting to prepare pilot innovation projects involving (first) technical consulting (via external experts), dedicated financing and funding consulting
- Phase 1: Involvement of internal expert
  - Collection of basic company & vessel info
  - Identification of innovation needs & form of support
  - General decision making support & preparation of the common approach
- Phase 2: Involvement of external expert
  - Involvement of external experts to detail identified solutions & contact with the technology suppliers
  - Information about the funding & financing options
  - Support with the elaboration of the business plans
(Project) Assistance & innovation consultancy

LNG infrastructure initiative in Slovakia - fuelLCNG
LNG infrastructure for inland waterborne and road transport users, incl. liquefaction unit

LNG infrastructure initiative in Upper Austria
Part of global project investing into the LNG road infrastructure & vehicles as well as LNG terminal / bunkering station in the port of Linz or Enns.

LNG terminal & bunkering stations in Galati & Constanta
Targeting LNG infrastructure in Galati (inland/maritime port) and Constanta.

Enhance the Efficiency of Hungarian RIS Operation
To enhance traffic management services, modernise on-shore RIS services and improve the quality of fairway information services data

Polish IWT fleet modernisation initiative
Retrofitting of Polish/German fleet making use of LNG as well as transporting LNG on inland waterways

“Dunajbus” Slovakia
“Green” waterborne public transport in Bratislava (Slovakia) and neighbouring cities/villages along the Danube to solve heavy traffic problems of commuters

Pro-Danubia - Association of municipalities for public transport on the Danube

LNG infrastructure related initiatives
various start-up initiatives related to the LNG as fuel & cargo covering the activities related to the bunkering infrastructure as well as storage

Mediation of financing advise
Supported stakeholders: X-Tank Refining, CFR, GSP Logistics, GSP Shipyard, COMVEX etc.
Communication & dissemination ...

**Fact sheets for tools** (Greening tool) & **databases** (Funding DB & Innovation Radar) & **selected technologies** (along with the EU-wide strategy)

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**Brochure**

**eNews**

**INDanube website**