

GREEN DANUBE

**Integrated transnational policies and practical solutions
for an environmentally-friendly Inland Water Transport system
in the Danube region**



GREEN DANUBE

08 June, Budapest

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



PERSPECTIVES



- Inland Waterways Transport (IWT) will grow with about 80% until 2040 compared to 2010
- In the year 2020 the average emission level of air pollutants of inland navigation vessels will in many cases be higher than that of trucks
- It is imperative to control the negative impact of emissions

GREEN DANUBE addresses
the issue of
**Inland Waterways Transport
(IWT)** pollutant emissions
along the Danube



GENERAL INFORMATION

- **GREEN DANUBE DTP 1-043-3.1**
- **Priority Axis 3:** Better connected and energy responsible Danube region
- **Specific Objective 3.1:**
Support environmentally–friendly and safe transport systems and balanced accessibility of urban and rural areas
- **Duration:** 30 months (January 2017–June 2019)
- **Total Budget:** 1.586.244 EURO
- **ERDF Contribution:** 1.267.897,40 EURO
- **IPA Contribution:** 80.410 EURO



Danube Transnational Programme



Priority Area 3: Better connected and energy responsible Danube region

Project: **GREEN DANUBE**
Total Budget: 1 586 244 EURO
ERDF: 1 267 897,40 EURO
IPA: 80 410 EURO
ENI: 0 EURO
Co-finance: 237 936,60 EURO

Start date
01-01-2017
End date
30-06-2019

A stream of cooperation

 **Interreg** 
Danube Transnational Programme
GREEN DANUBE
Programme co-funded by the European Union

Integrated Transnational policies and practical solutions for an environmentally-friendly Inland Water Transport system in the Danube region

CONSORTIUM: 10 PPs+6 ASPs of 7 countries



Partners (PPs)

LP- CERONAV – Romanian Maritime Training Centre,

1. Pro Danube Management GmbH – AT
2. Black Sea - Danube Association of Research and Development – BG
3. Inland Navigation Development Centre Ltd – HR
4. Development Centre for Ship Technology and Transport Systems – DE
5. National Association of Radio Distress-Signalling and Infocommunications – HU
6. The Regional Environmental Centre for Central and Eastern Europe – HU
7. Danube Delta National Institute – RO
8. Association of Cross Border Cooperation „Lower Danube” – RO
9. Danube Competence Centre – RS

Associate Strategic Partners (ASPs)

1. Danube Delta Biosphere Reserve Authority – RO
2. General Directorate for Water – HU
3. Directorate for Inland Waterways – RS
4. Danube Commission – HU
5. Executive Agency Maritime Administration – BG
6. Ministry of Transport – RO



Danube Transnational Programme
GREEN DANUBE

■ Danube Transnational Programme area
Project co-funded by European Union Funds (ERDF, IPA)



CHALLENGES and APPROACHES:

Challenges:

Air pollution in the Danube Region

Different emissions due to different **technologies, fuels** and environmental **policies**

Inadequate information on environment protection

Approaches:

Contribution to limit impact of IWT on the Danube ecosystem by measurements of emissions level and impact analysis

Deploying research focused on green technologies, alternative fuels and sailing behaviour by providing solutions and Policy Agenda

Contribution to raise public awareness on the impact of IWT on the nature by developing Environmental Information Centres

GREEN DANUBE – SPECIFIC OBJECTIVES



SO 1 - Contribute to limit impacts of IWT on the Danube ecosystem

SO 2 - Contribute to emissions reduction in the Danube ecosystem

SO 3 - Raise public awareness

GREEN DANUBE Kick-off , 23 Feb 2017 – Mamaia, Romania

- ✓ 70 participants from relevant organizations and bodies, project partners and associated strategic partners.
- ✓ Representatives of Romanian Ministry of Transport, Romanian Naval Authority, local universities, environmental bodies and NGOs expressed their interest in fighting the environmental pollution in the inland waterways sector.





WORK PACKAGE 1 – Project Management

- ✓ *D 1.1.1 Project Handbook –Version 1.2*

WORK PACKAGE 2 – Project communication Main Deliverables

- ✓ *D 2.1.1 Website: <http://www.interreg-danube.eu/green-danube>*
- ✓ *D 2.1.2 Communication Plan*
- ✓ *D 2.1.3 Newsletter– 1st edition, June 2017*
- ✓ *D 2.1.4 Social media –<https://www.facebook.com/GreenDanube>*
- ✓ *D 2.2.1 (D 2.2.2 P5) Stakeholder Database final draft ready*

WORK PACKAGE 3 - AIR EMISSIONS ASSESSMENT



- **Act. 3.1:** Set up assessment criteria for selection of the critical environment areas on the Danube
 - ✓ *4 critical areas along the Danube were selected:*
 - ✓ **Danube Delta** - Sulina Channel (RO) **Mm 0 - 34**
 - ✓ **Iron Gates I** (RO-RS) **km 930 - 947**
 - ✓ **Gemenc** (HU) **km 1475 - 1480**
 - ✓ **Engelhartszell** - Confluence of the Danube and Inn river (DE-AT) **km 2200 - 2224**
- **Act. 3.2:** Performance of measurements of air pollutant emissions in the selected areas
 - ✓ *work on measurement methodology*
- **Act. 3.3:** Analysing, interpreting and reporting of the measurements results

 *activity will start on 1st January 2018*
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WORK PACKAGE 3 - AIR EMISSIONS ASSESSMENT

Deliverables



- ✓ *D 3.1.1 List of the assessment criteria for the selection of critical environmental areas on the Danube River – final version ready*
- ✓ *D 3.1.2 Working methodology for performing the measurements in the selected areas – final version ready*
- ❖ *D 3.2.1 (P3) Report on the results of measurements performed in the selected Danube areas – draft of field data recording form*
- ❖ *D 3.3.1 Consolidated report on the measurements results*

WORK PACKAGE 4 - GREEN TECHNOLOGIES



- **Act. 4.1:** Survey on characteristics and operating regimes of IWT vessels passing monitored areas
 - ✓ *collection of data started after having identified the sources*
- **Act. 4.2:** Inventory of innovative technologies and best practices for emission reduction on the Danube
 - ✓ *collection of relevant information in progress*
- **Act. 4.3:** Inventory of existing facilities and future option for supply of alternative fuels
 - ✓ *collection of relevant information in progress*
- **Act. 4.4:** Strategy for emissions reduction by using green technologies

activity will start in March 2018



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WORK PACKAGE 4 - GREEN TECHNOLOGIES

Deliverables and Outputs



- ✓ *D 4.1.1* Technical report on vessels inventory results
- ✓ *D 4.2.1* Technical Report on “Existing green technologies and best practices for reduction of IWT air pollution on the Danube River”
- ✓ *Output 4.1* IWT vessels regime and green technologies database
- ✓ *D 4.3.1* Report on existing facilities for supply of alternative fuels along the Danube
- ✓ *Output 4.2* National workshops for emission reduction strategy
- ✓ *Output 4.3* Strategy for greening the Danube IWT

WORK PACKAGE 5 -EU POLICY SUPPORT



- **Act. 5.1:** Analysis of the existing policy and legislative framework
 - ✓ *preparation of inception report in progress*
 - ✓ *activity started on 1st May 2017*
- **Act. 5.2:** Development of policy agenda on integration project outputs into existing legislative framework
- **Act. 5.3:** Policy Agenda transnational validation

WORK PACKAGE 5 -EU POLICY SUPPORT

Deliverables and Outputs

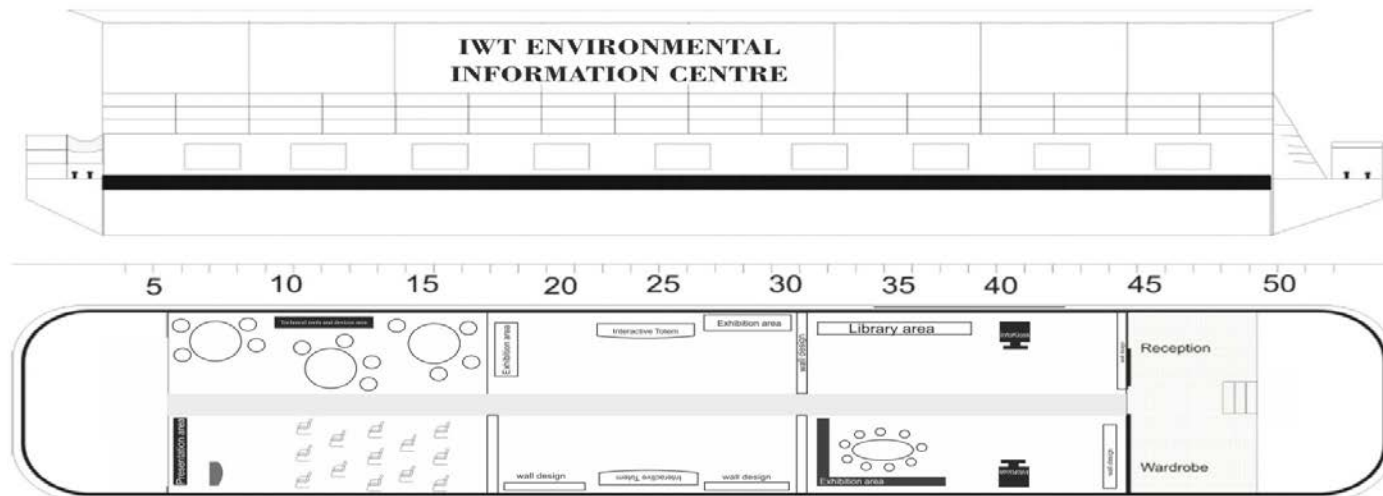


- ✓ *D 5.1.1* Report on the analysis of policies and legislative framework
- ✓ *D 5.2.1* Draft policy agenda
- ✓ *Output 5.1* Policy Agenda in support of European legislation
- ✓ *D 5.3.1* Summary conclusions of the National Policy Validation Workshops
- ✓ *Output 5.2* National validation workshops for Policy support
- ✓ *D 5.3.2* Summary conclusions of the International Policy Workshop
- *Output 5.3* International Policy Workshop with decision makers

WORK PACKAGE 6-RAISING PUBLIC AWARENESS



- **Act. 6.1:** Joint development of an IWT Environmental Information Centre (EIC) concept
 - ✓ *IWT EICs will be located in Romania, Croatia, Serbia*
 - ✓ *Mobile centre in Hungary will cover also Austria, Germany and Bulgaria*
 - ✓ *Existing ITC – InfoDanube developed in NELI and HINT projects will be reconsidered and equipped for environmental issues*



WORK PACKAGE 6-RAISING PUBLIC AWARENESS



- **Act. 6.1:** Joint development of an IWT Environmental Information Centre (EIC) concept

Equipment and multimedia elements



InfoKiosk



Interactive presentation system

WORK PACKAGE 6-RAISING PUBLIC AWARENESS



- **Act. 6.2:** Set up of IWT Environmental Information Centres within existing ITCs
 - ✓ *Procurement of equipment in progress*
- **Act. 6.3:** Transnational pilot actions and campaign with newly developed IWT EICs
- **Act. 6.4:** Strategy for set up of a IWT EICs platform
 - ❖ *Activities will start later this year*

WORK PACKAGE 6-RAISING PUBLIC AWARENESS

Outputs



- ✓ *Output 6.1* Concept and set up of IWT EICs
- ✓ *Output 6.2* Transnational pilot actions to test IWT EICs
- ✓ *Output 6.3* Transnational Strategy for cooperation platform



FURTHER READING:

<http://www.interreg-danube.eu/green-danube>
<https://www.facebook.com/GreenDanube/>
<https://www.facebook.com/InfoDanube>
<http://www.infodanube.ro>
<https://www.facebook.com/INDanube/>
<https://www.linkedin.com> Danube Knowledge Network



Thank you!



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