

COMING TOGETHER IS THE BEGINNING
WORKING TOGETHER BRINGS THE PROGRESS



E4Danube

On-shore power supply in Danube Region ports

Danube Commission
Meeting of Experts for development of ports and port operations

Robert Rafael
Pro Danube Management GmbH / DPN Technical Secretariat
Online meeting, 30.09.2021

Agenda

- 1) **DPN - Danube Ports Network - Technical Secretariat**
- 2) **E4Danube at a glance**
- 3) **Project Main Objective(s)**
- 4) **Relevance of the project**
- 5) **Background information for funding**
- 6) **Draft Work Breakdown Structure**
- 7) **Any other business**

DANUBE PORTS NETWORK AT A GLANCE

13 DPN Partner Port Organisations (status September 2021)



AT:
 IGÖD – Austrian Public Ports
 (Linz, Enns, Krems and Vienna)
 Port of Enns shafen
 Port of Vienna
 Rhenus Donauhafen Krems

SK:
 Public Ports

HU:
 Hungarian Federation of Danube
 Ports

HR:
 Port Authority Vukovar

RS:
 Port Governance Agency

BG:
 Bulgarian Ports
 Infrastructure Company

RO:
 Maritime Ports
 Administration Constanta
 Maritime Danube Ports
 Administration Galati

UA:
 Ukrainian Sea Ports
 Authority

MD:
 Giurgiulesti International
 Free Port

DPN ADVISORY GROUP

DPN Advisory Group - strategic decision-making body of the DPN

Main tasks:

- Making and implementing decisions about the future direction of the DPN;
- Providing strategic guidance on the scope of work of the DPN (Annual Work Programme) based on proposals of the TS

DPN Advisory Group members



E4Danube at a glance

- The project aims to investigate **the economic viability of on-shore power supply (OPS)** in ports, including the **applicable sourcing options**, as well as the **uptake** by vessels and potential other users in the Danube Region.
- Several important aspects to be considered: environmental, technical, legal and infrastructural requirements along three different **“port types”**:
 - Ports in cities
 - Ports in industrial areas
 - Remote ports
- **“Best-Case” solutions** and applicable pathways for the **deployment of OPS** as well as for a **potential storage of energy** (batteries, hydrogen, LNG, ...) will be analysed.
 - Ports as hubs for energy storage and alternative customer

Project Main Objectives

- E4Danube addresses the Danube ports to provide additional puzzle-stones for the **transition towards a zero-emission transport mode.**
- **Recommendations** for different locations – along the three port types
- To **bring together energy and transport experts** aiming for a sustainable integration of smart and renewable energy storage and management
- To consider the specific needs and **infrastructural requirements** of the ports & also the **alternative customers** (e.g. e-vessels) emerging in the future
- To comply with the **corridor approach**; reflecting possibilities for a harmonised financing, invoicing and payment framework

Relevance of the project

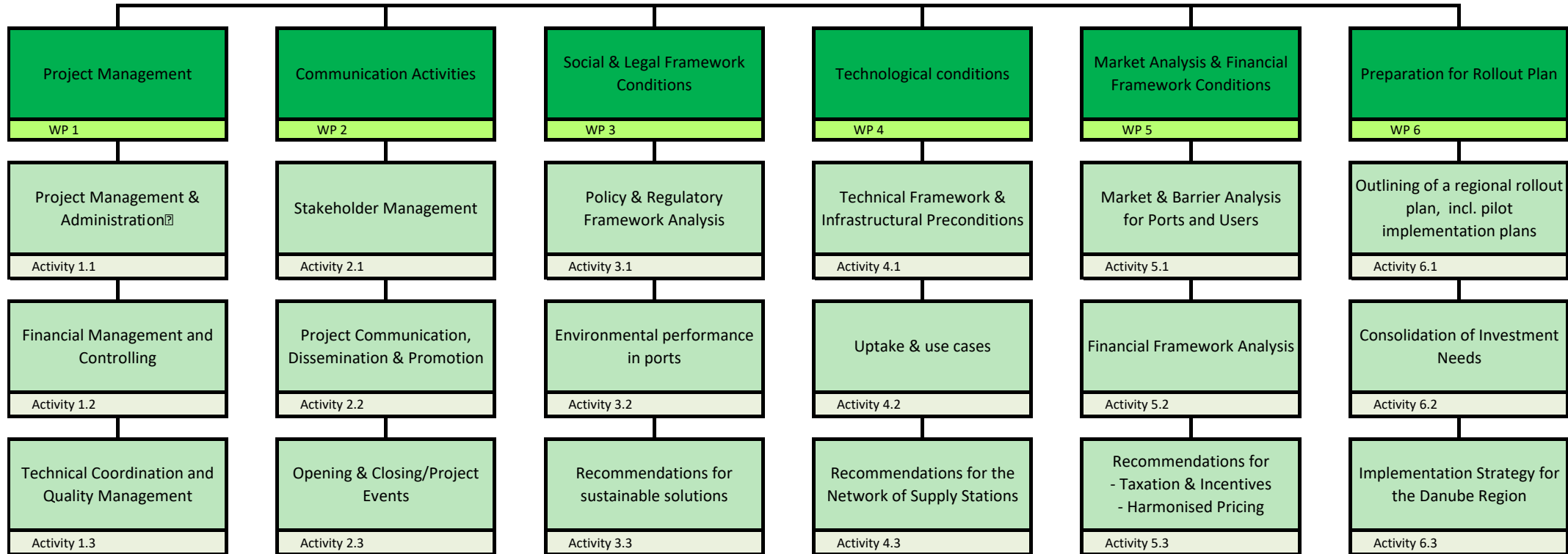
- The **European Green Deal** – aiming to zero net emissions of greenhouse gases by 2050 and Europe to be the first climate-neutral continent
- **EU Strategy for the Danube Region**
 - Priority 1: A Smarter Danube Region
 - Priority 2: A greener, low-carbon Danube Region
- **NAIADES III** action plan - to boost the role of inland waterway transport in our mobility and logistics systems.
 - Flagship 5: Developing inland ports as multimodal alternative fuels infrastructure hubs
 - Actions 17: Study to support the greening of inland ports 2021
 - Action 18: Revision of the Alternative Fuels Infrastructure Directive and a roll-out plan with funding opportunities and requirements

Background information & challenges - funding

- **CEF II – HORIZON EUROPE – National Programmes**
- **ERDF - Interreg** - Interregional and cross-border cooperation
 - The **funding rate** at each *Interreg programme level* is set at a **maximum of 80%** of the funds to be provided by the EU, with up to 85% for outermost regions.
- **Relevant excerpt - DTP Programme 2021-2027:**
 - Priority 2: A greener, low-carbon Europe
 - PO2 (ii) Promoting renewable energy
 - Focus 1: Increasing the share of renewable energy in the Danube region
 - Focus 2: Decreasing carbon intensity in the power and transport sectors
 - Related types of possible actions:
 - Reduction of GHG emissions in the transport sector: introduction of alternative fuels and new technologies (e.g. electric vehicles) in transportation, support shift to more environmentally friendly means of transportation, especially in public transport and freight transport, coordination between energy providers in relation to infrastructure elements of Danube Region relevance

Proposed Work Breakdown Structure

E4Danube - On-shore power supply in Danube Region ports Draft WBS



Questions & feedback



CONTACT & FURTHER ENQUIRIES

DPN TECHNICAL SECRETARIAT

Hosted by  **pro DANUBE**
MANAGEMENT GMBH

Robert RAFAEL

General Manager
Pro Danube Management GmbH

Grünbergstraße 15, Stiege 1, 5th Floor, 1120, Vienna/Austria
M +43 699 161 396 14
E rafael@prodanube.eu W www.prodanube.eu



DPN ADVISORY GROUP

Captain Béla SZALMA

Chairman DPN Advisory Group
President Hungarian Federation of Danube Ports (HFIP)

Forgách u. 9/B. 2nd Floor, 1139, Budapest/Hungary
M +36 (1) 210 9808 T +36 (1)2109808
E : elnok@hfip.hu W www.hfip.hu