



# **Danube Ports Network – DAPhNE**

WP 5: Port development

Activity 5.3: Port IT Community System

**RGO Communications Ltd.**

**Darko Herak**

**Kick-off meeting**

**February 20th, 2017, Budapest**

## SUMMARY

- **Introduction: RGO Communications Ltd.**
  - Expertise & products
  - Relevant projects
- **Activity 5.3: Port IT Community System**
  - Focus, objectives, duration & budget
  - Deliverables & outputs
  - Project team & partners involved
  - Description of pilot action
- **Questions & discussion**



## INTRODUCTION

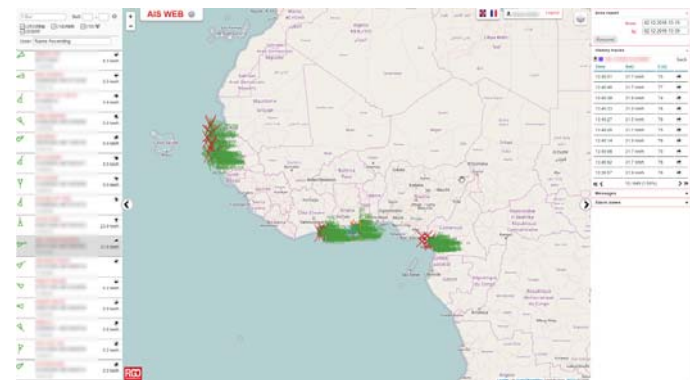
# **RGO COMMUNICATIONS LTD.**

## Expertise & products

- **Founded in 2008**
- **Key expertise:**
  - RIS
  - System integration
  - Software development
  - Project management
  - Consulting
  - System design
- **Full AIS monitoring solution (AtoNs inclusive)**
- **dGPS**
- **RIS applications:**
  - ERI
  - NtS
  - Hull DB
- **Lock Management System - LMS**
- **Port Information Systems**
- **Voice VHF**

## Relevant projects

- **NEWADA duo (EU funded, SEE programme)**
- **Pilot Implementation of RIS on the Lower Odra River, Poland (EU funded)**
- **Technical Assistance for Master Plan of the Sisak New Port (EU funded, IPA)**
- **RIS Implementation in Serbia (EU funded, IPA)**
- **CoPo project (EU funded, HU-HR, Cross Border Cooperation, IPA)**
- **Technical assistance and supervision for installation of equipment and integration of navigation monitoring system on the Danube River in Serbia**
- **Port monitoring software in four African countries**
- **Full RIS setup on the Sava river**
- **Upgrade and maintenance of the Croatian maritime AIS system**







## ACTIVITY 5.3: PORT IT COMMUNITY SYSTEM

# FOCUS, OBJECTIVES, DURATION & BUDGET



## Focus & objectives

- **Focus:**
  - simplification of the work flow within the ports with the help of a modular port community system
- **Objectives:**
  - elaborate a model architecture of a modular PCS system
  - plan and implement a pilot in 3 ports along the Danube
  - enable step-wise and customized approach towards individual ports within this project as well as after project lifetime





## Duration & budget

| <b>Act.5.3 Port IT Community System PCS</b> |                |
|---|----------------|
| <b>Start:</b>                               | 01.06.2017     |
| <b>End:</b>                                 | 31.12.2018     |
| <b>Responsibility:</b>                      | ERDF PP11: RGO |
| <b>Activity budget:</b>                     | 316,271.00 EUR |



## ACTIVITY 5.3: PORT IT COMMUNITY SYSTEM

# DELIVERABLES & OUTPUTS



## Deliverables

| <b>Deliverable</b> | <b>Deliverable description</b>   | <b>PP in charge</b> | <b>Due date</b> |
|--------------------|--|---------------------|-----------------|
| <b>D.5.3.1</b>     | Study visit in the Rhine region  | RGO                 | August 2017     |
| <b>D.5.3.2</b>     | Report on the study visit  | RGO                 | September 2017  |
| <b>D.5.3.3</b>     | Input collection form for the PCS  | RGO                 | January 2018    |
| <b>D.5.3.4</b>     | Monitoring report for the pilot action   | RGO                 | December 2018   |
| <b>D.5.3.5</b>     | 2 pre-feasibility studies regarding PCS on the lower Danube- Romania:<br>-Galati/ Braila/ Tulcea ports<br>-Constanta ports | APDM<br>MPAC        | December 2018   |



## Outputs

| Output no. | Output name & description  | PP in charge              | Due date      |
|------------|--|---------------------------|---------------|
| 5.2        | <p><b>Model architecture for port community system</b></p> <ul style="list-style-type: none"> <li>• help for preparation of the model is the study visit carried out in the Rhine region</li> <li>• inputs for this output: D.5.3.1, D.5.3.2, D.5.3.3</li> </ul>   | RGO                       | July 2018     |
| 5.3        | <p><b>Port Community System implemented in min. 3 Ports</b></p> <ul style="list-style-type: none"> <li>• demonstrates how different instances of a port community system will be implemented in specific sections along the Danube river</li> <li>• efforts made will be reflected in D.5.3.4</li> </ul> | RGO, VP, a.s,<br>EHO, PGA | December 2018 |



## ACTIVITY 5.3: PORT IT COMMUNITY SYSTEM

# PROJECT TEAM & PARTNERS INVOLVED



## RGO project team members

- **Nataša Vasilj – Project Manager & Financial manager**
- **Damir Obad – Senior Technical Advisor**
- **Darko Herak – Technical expert**
- **Vedran Bolfek – Developer**
- **Davor Hrg – Developer**

## Partners involved

- **Activity leader:**
  - RGO Communications Ltd. (RGO), Croatia
- **Participating partners:**
  - Ennshafen Port (EHOO), Austria
  - Public Ports, jsc. (VP, a.s.), Slovakia
  - Port Governance Agency (PGA), Serbia
  - National Company The Maritime Danube Ports Administration SA Galati (APDM), Romania
  - National Company Maritime Ports Administration SA Constanta (MPAC), Romania





## ACTIVITY 5.3: PORT IT COMMUNITY SYSTEM

# DESCRIPTION OF PILOT ACTION



## Port IT Community System (PCS)

- **What is a Port Community System?**
- **A new approach to Port Community Systems**
- **Gathering the know-how**
- **Development**
- **Demo phase and follow up**



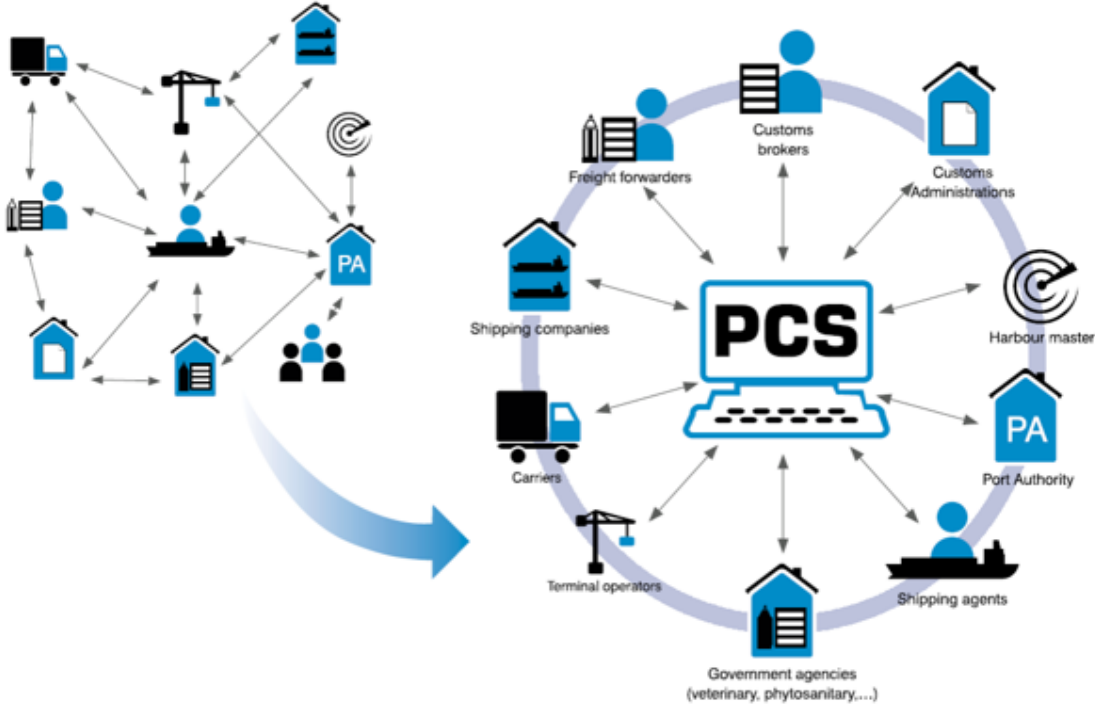


## What is a Port Community System?

- A Port Community System is a neutral and open electronic platform enabling intelligent and secure exchange of information between public and private stakeholders in order to improve the efficiency and competitive position of the sea, inland waterway and airports' communities.
- A Port Community System optimises, manages and automates smooth port and logistics processes through a single submission of data and by connecting transport and logistics chains.



# What is a Port Community System?





## A new approach to the Port Community Systems



- Existing PCS implementations are massive and expensive
- Modular approach to lower the cost for smaller users
- Possibility of development of new modules that would connect to the existing solutions



## Action plan

- **Study trip to a Rhine port**
- **Danube-specific adaptation of the gathered know-how**
- **Creation of the technical and functional specification**
- **Development**
- **Demo phase (3 months)**
- **Monitoring report**
- **Pre-feasibility studies**

## Gathering the know-how and writing the specification

- From an existing Rhine port
- Dialogue with Danube ports PP to identify common ground and Danube-specific procedures
- Writing the technical specification following the know-how gathered from existing PCS system(s), data acquired from the Danube ports PP and the idea of a modular approach





## Development

- **Development of the following modules:**
  - Core module (RGO)
  - Traffic Monitoring module (RGO)
  - Berth Allocation module (RGO)
  - Statistics (Serbian PP)
  
- **Integration of the modules into a single system according to the specification.**



## Demo phase and follow up

- **3 month duration of the demo period**
  - The training held by RGO will mark the start of this period
  - Constant user support provided by RGO during this phase
- **The feedback from the PCS users will be incorporated in the monitoring report (RGO with Danube ports PP)**
- **The pre-feasibility studies (Romanian PP outsource)**



# Questions?





**Thank You for Your attention!**



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