

Danube Inland Ports

Danube Ports Information System: next steps

DAPhNE Final Event

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2017



DAPHNE STARTS

▶ JAN 2017 – JUN 2019

A.O. PCS APPLICATION PILOT & TESTING AT DANUBE PORTS

DAPHNE PCS APPLICATION

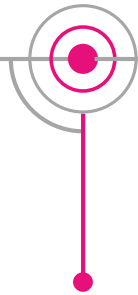
▶ SPECIFICATION

(CORE MODULE - LOGIN, CARGO MODULE, TRACKING AND TRACING)

2018



Q1-2019

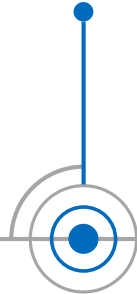


DAPHNE PCS APPLICATION

▶ TESTING

(CORE MODULE - LOGIN, CARGO MODULE, TRACKING AND TRACING)

Q3-2019



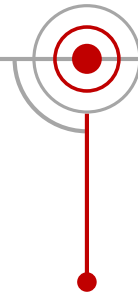
DANUBE PORT SYSTEM

▶ CORRIDOR APPROACH

KICK OFF MEETING: AUG/SEP 2019

INVITEES: PORTS & PORT AUTHORITIES (?)

Q4-2019



PROJECT PROPOSAL

▶ AREAS TO BE AGREED

FUNDING OPTIONS: CEF 2019 (?)

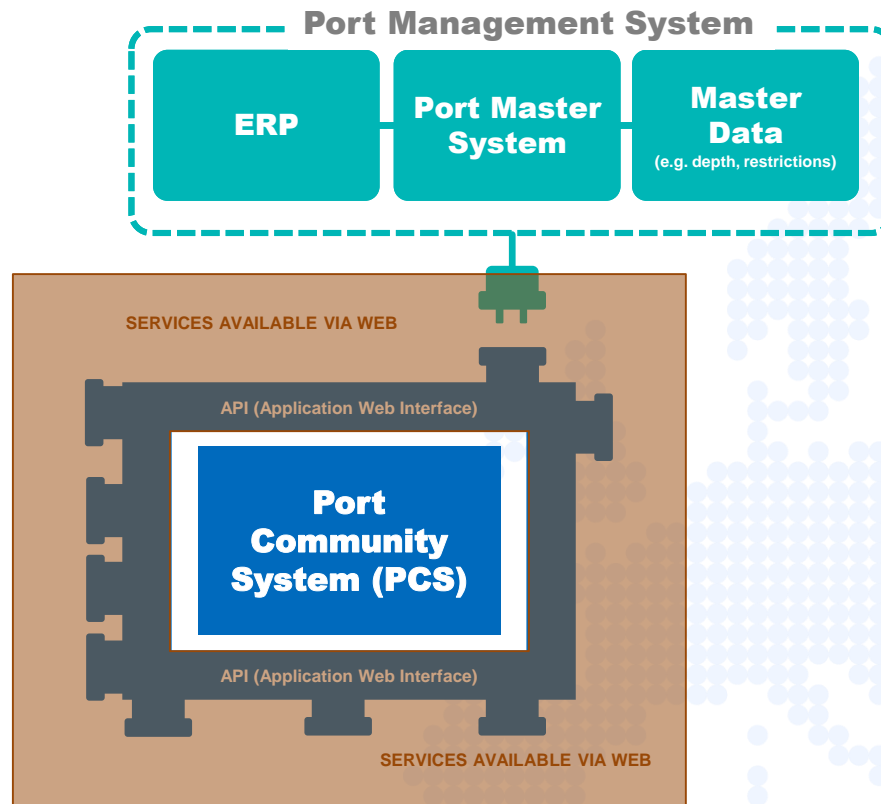
Rationale

Integrated information systems are used to **enhance the efficiency of port/terminal operations and improve turnover**, thus helping to maintain and increase their competitive edge. The important competitive advantage of a port is to **move cargo quickly and safely through the port**.

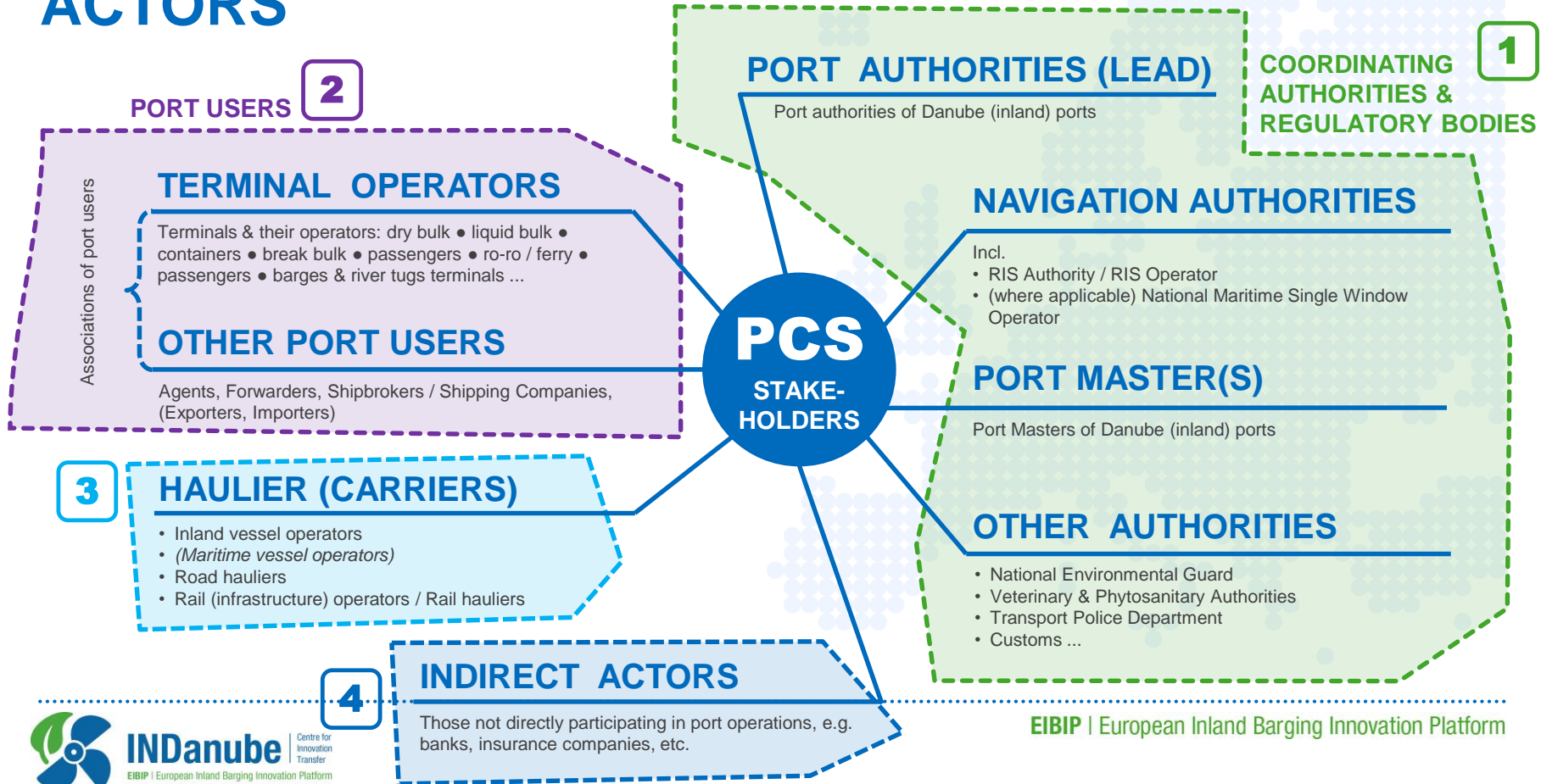
Ports face range of operational challenges in management of highly complex, multi-actor port environments. **Digitalisation** enables a **consolidated, reliable, flexible and secure flow of information** and significantly contributes to the more **efficient movement of cargo** across international borders and is vital in order to provide **quick, reliable and cheap services at (sea)ports**.

Digitalisation creates value for private and public stakeholders involved in the logistic port sector and can be achieved through:

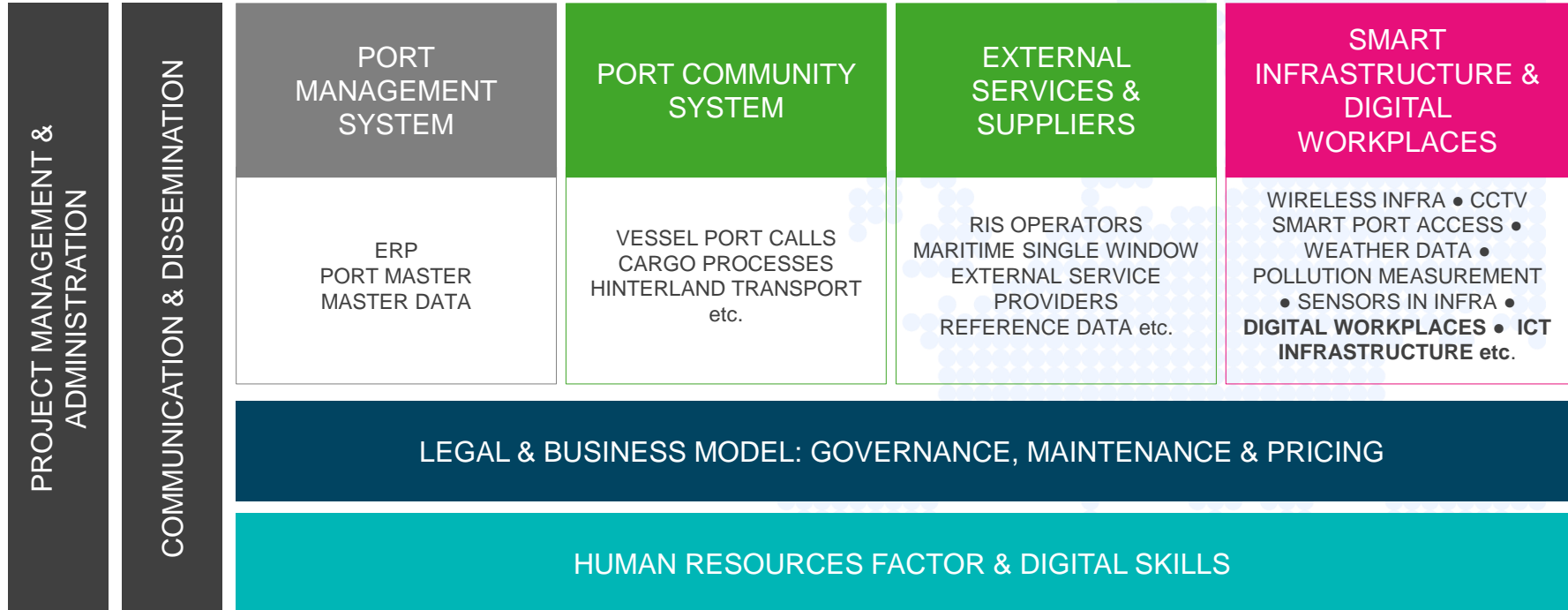
- **eGovernment** (single windows)
- **Smart Ports**: PCS, C-ITS (Cooperative Intelligent Transport Systems) and **data generated from the IoT infrastructure**



ACTORS



PROJECT OVERVIEW *(selection ...)*



Legal & Business Model: Governance, Maintenance & Pricing



PCS Governance concept

Defining the governance around the Port Community System and involvement / role of individual port community actors incl. who acts as the provider / operator of PCS.



PCS Maintenance concept

Defining the services to maintain the system and keep it running and operational and reliable and emergency procedures in case of failure.

- Hardware, software, network and security issues addressed
- Service levels for contracts with the suppliers, provider of the hosting data centre ... (standards & certification to comply with, response rates, system availability,...)
- Preventive monitoring & maintenance activities, responsive maintenance as well as emergency procedures
- Redundancies (of data centres, internet connections, etc.)
- Etc.



PCS Pricing concept

Various questions to be answered & business case for operation Port Community System elaborated

- Non-profit vs. profit oriented
- Prices for offered services to make them attractive for stakeholders
- Pay for services that add value
- Etc.



(Cyber) Security concept

Defining processes and techniques in protecting computers, servers, mobile devices, electronic systems, networks, and sensitive data from malicious attacks.

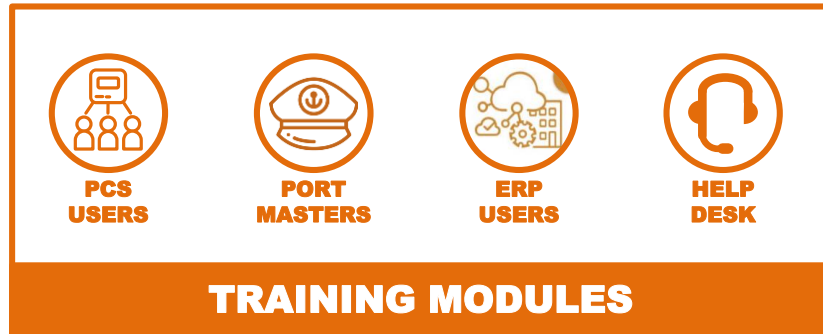
- To prevent cyber-attacks, data theft, breaches, unauthorised access, etc.
- Defining rules for Security audits
- Etc.

Human Resources Factor & Digital Skills

DEVELOP & EXECUTE TRAINING CLASSES

Digital trainings for various stakeholders & users are needed to accelerate adoption of new technologies, increase employee satisfaction, prevent avoidable errors, and multiply returns.

(all training programmes with the Train-the-Trainer option as a cost effective way to meet the training needs in the future)



Source: www.digital-transformation-influential.com

INDanube is run by  **DANUBE**
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INDanube - Centre for Innovation Transfer in the Danube Region

Welcome to INDanube, the facilitator and promoter of
innovation in inland waterways transport on the Danube and
its navigable tributaries.

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