



INNOVÁCIÓS ÉS TECHOLÓGIAI  
MINISZTERIUM



# INTEGRATED PORT INFORMATION SYSTEM IN HUNGARY

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SZÉCHENYI 2020



Az Európai Unió által  
társfinanszírozott projekt  
Európai Hálózatfinanszírozási Eszköz



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Introducing modern and innovative technologies in Hungarian ports



Enhancing port management efficiency

Digitalisation of port processes and administration (e.g. statistics)



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## ABOUT THE PROJECT

- In the frame of the **CEF Programme** the project budget is financed by the European Union (85%) and the Hungarian state (15%)
- Beneficiary: **Ministry of Innovation and Technology**
- Implementing body: **RSOE**
- Duration: 01.09.2017 – 31.12.2020
- Total budget: 997.500,- EUR



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# PROJECT ACTIVITIES

Activity 1 Project management and publicity measures	Activity 2 Design of the pilot system	Activity 3 Pilot system implementation and testing	Activity 4 Exploitation of results
SuAc.1.1 Project and financial management	SuAc.2.1 Analysis of maritime and inland port information services	SuAc.3.1 Installation of hardware components	SuAc.4.1 Introduction of statistic services to national ports
SuAc.1.2 Project dissemination and synergy with other relevant projects and organizations	SuAc.2.2 Analysis of statistic data provision service	SuAc.3.2 Software development and system integration	SuAc.4.2 Exploiting possibilities for cross border cooperation based on project results
SuAc.1.3 Preparation and execution of public procurement procedure	SuAc.2.3 Analysis of user needs	SuAc.3.3 Pilot tests, evaluation and validation	
	SuAc.2.4 Pilot system specification		





# Port Community Systems (PCS) in general

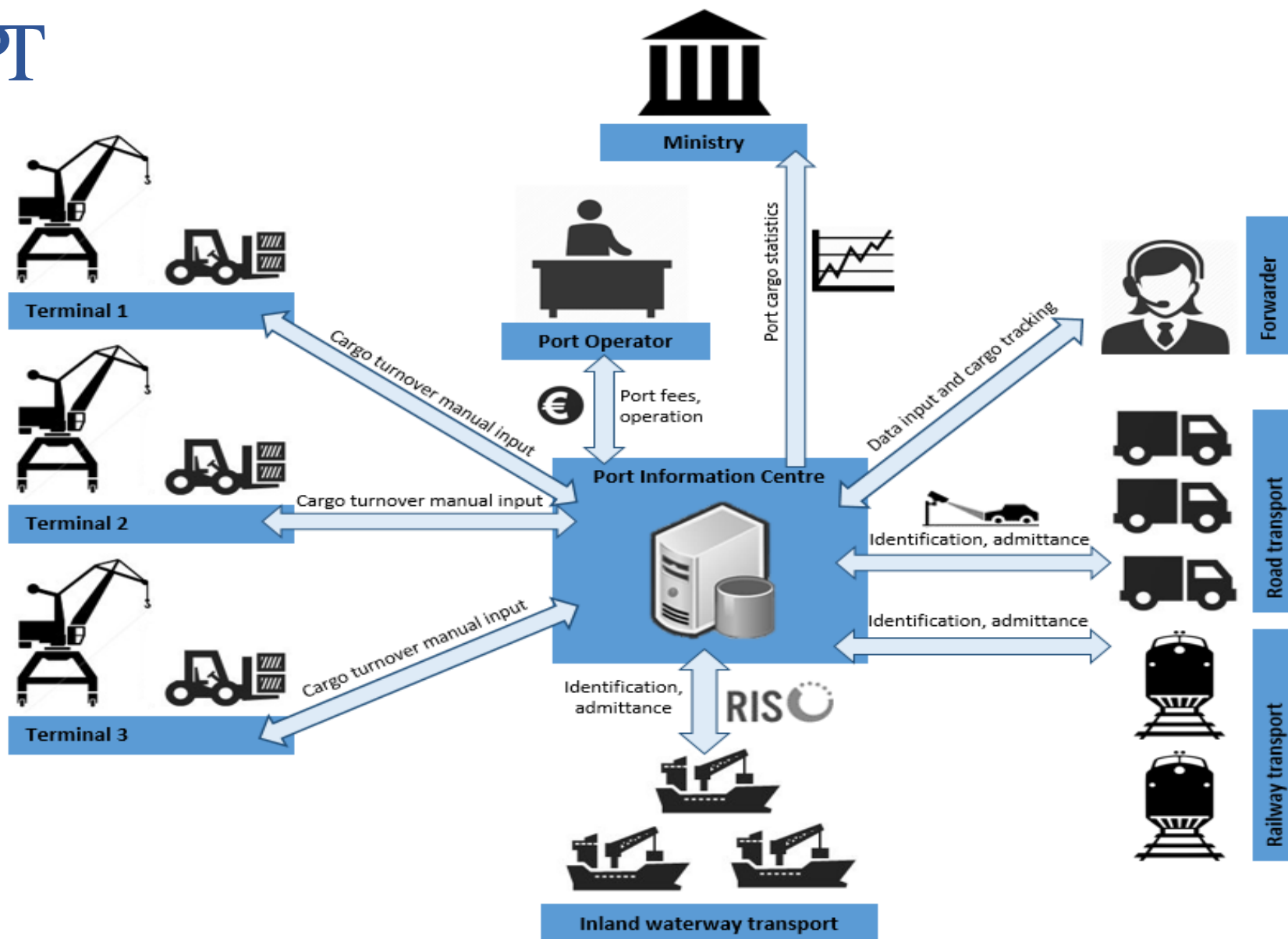
## Port Community System:

- is a **neutral** and **open electronic platform** enabling intelligent and secure **exchange of information** between **public and private stakeholders** in order to improve the competitive position of the sea and air ports' communities.
- **optimises, manages and automates port and logistics processes** through a single submission of data and connecting transport and logistics chains





# PRELIMINARY CONCEPT





# MAIN SERVICES

PORT  
MANAGEMENT

TERMINAL  
MANAGEMENT



STATISTICS  
SERVICE



ELECTRONIC  
VESSEL TRAFFIC  
LOG



PORT FEE  
CALCULATION



CARGO  
LOADING/UNLOADING  
MONITORING

VESSEL AND VEHICLE  
MONITORING AND  
MANAGEMENT



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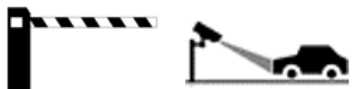
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# SPECIFIED SERVICES



## 1. Vessel and vehicle check-in and out

- 1.1 Ship report (BERMAN) towards terminal, confirmation
- 1.2 Sending Arrival report, terminal confirmation
- 1.3 Vessel check-in and out (AIS-based automatic for motorvessels, manual for barges; exact time of arrival and departure).
- 1.4 Truck check-in and out with number plate recognition, disposition number provision
- 1.5 Railway check-in and out (train identification, type of cargo, amount)



## 2. Vessel and vehicle monitoring management

- 2.1 Monitoring of arrival and departing vessels (ETA, ETD, actual arrival and departure, ship name etc.) – Basic Berth Management
- 2.2 Direct communication from terminal towards vehicles (mobile push messages, port central parking display)
- 2.3 Electronic port traffic log (ship name, movements etc)
- 2.4 Quay occupancy planning – dynamic, movable diary records (based on orders, one column for one ship quay)



## 3. Stowage monitoring

- 3.1 Commission/order (ship name, cargo amount and type etc) recording and update (by terminal)
- 3.2 Stowage monitoring (cargo amount and type) – API input interface towards terminal own software
- 3.3 Stowage data query and filtering (actual and historical)



## 4. Statistics

- 4.1 Statistical data service and graphs on stowage and ship traffic
- 4.2 Automatic service provision to National Statistical Office (standardised xml export)



## 5. Port fee calculator

- 5.1 Quay usage fee (ton) and port usage fee (time) calculator, company to be charged (based on arrival report)





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# THANK YOU FOR YOUR KIND ATTENTION

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