

A background network diagram consisting of numerous white circular nodes connected by thin white lines, forming a complex web-like structure. The nodes are distributed across the frame, with some clusters and some isolated nodes. The overall aesthetic is clean and technical, set against a dark blue gradient background.

**mgi:** DRIVING DATA  
EXCHANGE  
AND TRADE

**SMART  
PORT**

NEEDS FOR  
FOR INTRA-MED  
INTERCHANGES

**DATA  
MARE  
NOSTRUM**

AN INTRA-MED  
INITIATIVE FOR  
SMART PORTS

“The SMART port, a work tool of innovation towards impact reduction”  
Medport Forum – Marseilles June 25th 2019

**CARGO COMMUNITY SYSTEMS EXPERT**

# EXPERIENCE

Over 30 years of expertise in  
**CARGO COMMUNITY SYSTEMS**



**13** LOGISTICS COMMUNITIES  
CONNECTED TO OUR CCS

with over **2500** users

**TOP 10** CUSTOMERS  
TRANSPORT & LOGISTICS



R&D PROJECTS

20 YEARS OF INTERNATIONAL EXPERIENCE

**AI** **C-ITS** **Blockchain** **RFID**

**Geofencing**

**Barcode**

3 GENERATIONS OF CCS



# EXPERTISE



## AUDIT CONSULTING

ANALYSIS AND  
OPTIMISATION OF SUPPLY  
CHAIN PROCESSES

IDENTIFICATION OF  
OPERATIONAL REGULATORY  
AND TECHNICAL  
REQUIREMENTS

PROJECT MANAGEMENT,  
SUPPORT

TRAINING, USER SUPPORT



## PUBLISHING INTEGRATION

SURVEY, DESIGN,  
CREATION

UPGRADES AND  
CORRECTIVE  
MAINTENANCE

DATA EXCHANGES

ROO-OUT



## EDI

NEEDS ANALYSIS

PAPERLESS  
PROCEDURES, FLOW  
OPTIMIZATION

DESIGN INTERFACE  
CREATION

UPGRADES



## OPERATIONS

ADMINISTRATION

MANAGEMENT

PRODUCTION

REPORTING  
SUPPORT

# LE FRENCH SMART PORT IN MED

**Ci5<sup>...</sup>** CARGO INTELLIGENT SYSTEM



**MGI LAB**

COLLABORATIVE PROJECTS  
BASED ON TECHNOLOGY  
(Blockchain, Big data, ...)

**CHANNEL5<sup>...</sup>**

PORT SOLUTION DRIVEN BY  
ARTIFICIAL INTELLIGENCE

# DATA MARE NOSTRUM - CONCEPT

## VISION

Local **PORT** or **CARGO COMMUNITY SYSTEMS** can contribute more actively to local **SMART PORT** initiatives by **ANTICIPATED** collection of **CERTIFIED** data

## HYPOTHESIS

### OF INNOVATION

Better **INTEGRATION** of Port and Cargo community systems in Mediterranean will support local smart port initiatives with **HIGH VALUE** services based on bigger **VOLUME** of data of better **QUALITY**

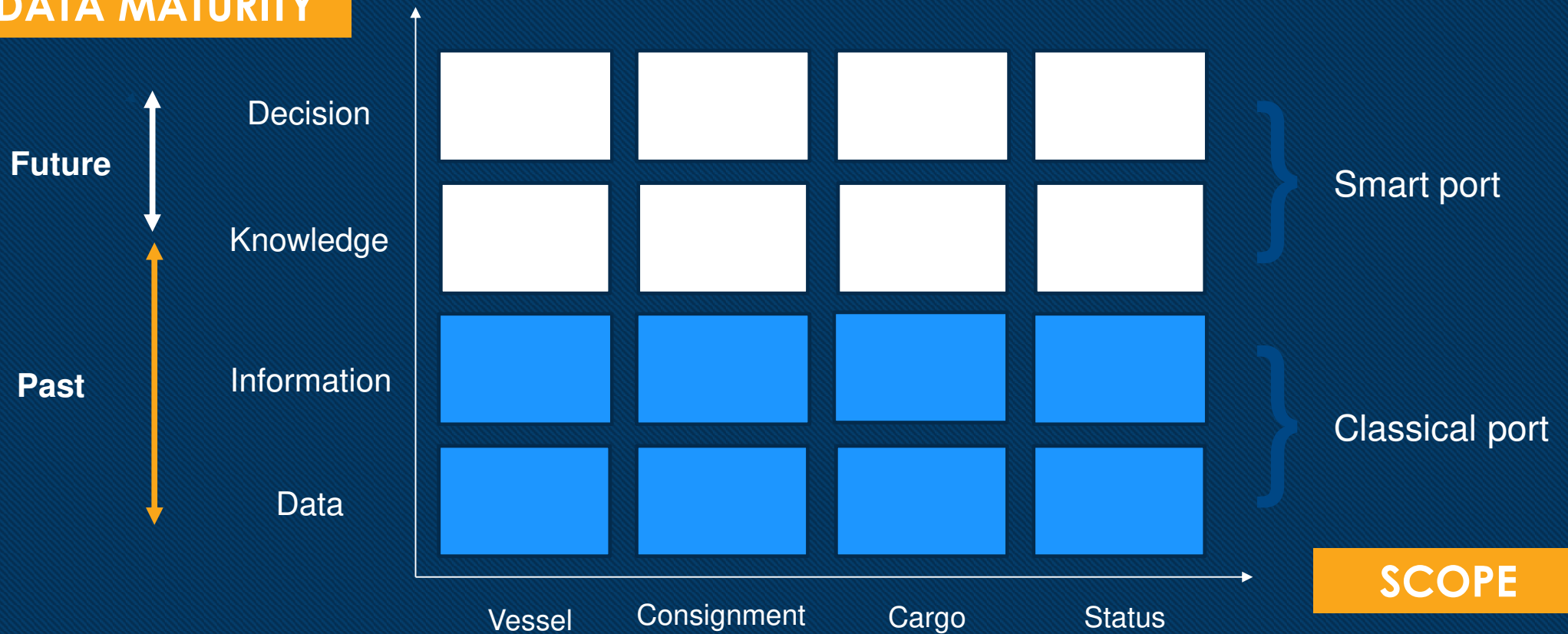
## PARTNERSHIP

### BUILDING

MGI proposes DATAMARENOSTRUM to develop an **ORGANISATIONAL** and **TECHNICAL** framework to integrate Mediterranean Port and Cargo community systems to create a **SMART PORT ECOSYSTEM**

# DATA MARE NOSTRUM - CONCEPT

## DATA MATURITY



SCOPE

# DATA MARE NOSTRUM CONCEPT

## DATA LEVEL

- Ensure global consistency (Common vocabulary)
- Provide data unicity (Trader identification)
- Visibility and availability ( Open and shared Master data repository)
- Productivity and Agility (Process improvement and reduced life cycles)
- Regulation compliance
- Data quality and security improvement



# DATA MARE NOSTRUM CONCEPT

## E-COMPLIANCE

### Dangerous cargo master data harmonization with Portic Barcelona



- Standardisation of codes and formats for efficient integration
- Certification of business object identification for all information systems
- Better use of existing information systems capacities
- Better availability of existing data
- Higher agility with reduced costs (Single entry)



# DATA MARE NOSTRUM CONCEPT

## INFORMATION LEVEL

- Standardisation of codes and formats for efficient integration
- Certification of business object identification for all information systems
- Better use of existing information systems capacities
- Better availability of existing data
- Higher agility with reduced costs (Single entry)



# DATA MARE NOSTRUM CONCEPT

## SHORTSEA XML

## Manifest T2L for shortsea shipping



Innovation: to substitute one transport document per another

- Issue T2L electronically
- Work at transport mean level instead of transport unit level,
- Interchange information with reliable and secure means,
- Avoid useless clerical work

# DATA MARE NOSTRUM CONCEPT

## KNOWLEDGE LEVEL

- **Traders**
  - Better Supply Chain visibility
  - Less cross-border delays
  - More accurate ETAs
  - Reduced cross-border costs
- **Cross Border agencies**
  - Data provided earlier
  - Better quality data: more precise, more detail
  - Better risk analysis and risk management
  - Better use of resources for tackling illegitimate traders



# DATA MARE NOSTRUM CONCEPT

**SELIS**

**Transmediterranean data pipeline for data advanced management**



- Trailer Number database creation
- Cargo description patterns for Veterinary and phytosanitary control
- UN/CEFACT Data-pipeline concept implementation
- Amendment about Recommendation 24 “Trade and transport status codes” related to logistic risks

# DATA MARE NOSTRUM CONCEPT

## A BRIDGE BETWEEN TWO SHORES

- DataMareNostrum is a communication platform enabling to facilitate the **exchange of computerised data** between the Mediterranean ports
- The platform takes the form of a **collaborative system** based on the principle of a shared standard and communication between the port and airport communities.
- DataMareNostrum is an answer to international and European regulations aiming at reinforcing **security** of freight transport.



# DATA MARE NOSTRUM CONCEPT

## CONTEXT

- **Technical level:** A lot of ports have digital platforms,
- **Regulation environment:** A lot of Intra-EU or EU-Med agreements exist,
- **Trade volume:** Mediterranean trade is important for Mediterranean port communities,
- **Trade specificity:** Trade complexity because of complex administrative procedures and cargo diversity

# DATA MARE NOSTRUM CONCEPT

## OBJECTIVES

- Provides port and airport professionals with the possibility to **standardise their message formats** for communication purposes.
- Anticipates **security** procedures and requirements (Export Control System; Import Control System; Authorised Economic Operator; Customs-Trade Partnership Against Terrorism).
- Ensures fast circulation of goods thanks to the control and **reliability** of the information supplied.
- Facilitates risk analyses and ensures greater **fluidity** for maritime disembarkation and for collection.

# DATA MARE NOSTRUM CONCEPT

## INTERCONNECTION SCOPE

- List of documents or information to be exchanged:
  - Cargo status
  - Vessel status
  - Cargo manifest
  - Dangerous declaration
  - Phytosanitary certificate (Or status)
  - Inspection certificate (Or status)



# DATA MARE NOSTRUM CONCEPT

## MUTUAL BENEFITS

Actors	Benefits
Shipping agents	<ul style="list-style-type: none"><li>• Increase of the maritime mode competitiveness,</li><li>• Increase of internal productivity due to simplification and dematerialisation,</li></ul>
Forwarding agents	<ul style="list-style-type: none"><li>• Increase of internal productivity due to simplification and dematerialisation,</li></ul>
Customs administration	<ul style="list-style-type: none"><li>• Control facilitation,</li><li>• Increase of control productivity,</li></ul>
Shippers	<ul style="list-style-type: none"><li>• A more competitive and reliable modal choice</li></ul>

# Data mare nostrum CONCEPT

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Do you want to join the initiative?

**CONTACTS**  
**SERVICE**

**CHRISTOPHE REYNAUD**



c.reynaud@gyptis.fr



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