mgi: DRIVING **DATA EXCHANGE AND TRADE**

Ci5··· SMART SYSTEM **FOR SMART SUPPLY CHAINS**

CHANNEL 5··· **ARTIFICIAL INTELLIGENCE** FOR PORTS

CARGO COMMUNITY SYSTEMS EXPERT

DRIVING **DATA** **EXCHANGE** **AND TRADE**

CARGO COMMUNITY SYSTEMS EXPERT

EXPERIENCE

30+ year's experience in
CARGO COMMUNITY SYSTEM

13 LOGISTICS COMMUNITIES
CONNECTED TO CCS

with + than **2500** users

TOP 10 CUSTOMERS
TRANSPORT & LOGISTICS

R&D PROJECTS
20 YEAR'S INTERNATIONAL EXPERIENCE

AI | C-ITS | Blockchain | RFID

Geofencing | Barre code

3 GENERATIONS OF CCS

Système
PROTIS

AP⁺

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WHAT IS A **CARGO COMMUNITY SYSTEM** ?

A **single window** for **managing goods flows** which **compiles** information, automates processes, and orchestrates and secures the operations of **private and public entities in a port**, **airport or inland logistics community**.

15 PLAYERS LINKED

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Government agencies

Plant health services

Veterinary services

Customs

Empty container managers

Shippers

Terminal operators

Shipping agents

Port authorities

Shipping companies

Freight forwarders

Freight consolidators / deconsolidators

Road carriers

Rail carriers

River carriers

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MISSION

Facilitate and **streamline** data flow between <mark>international trade players</mark> using our information systems for <mark>smoother</mark>, more <mark>traceable</mark> and more <mark>competitive</mark> transactions.

Our clients are also **our shareholders**

CYBER RISKS,
STRATEGIC ISSUES

MGI further increases data security

ISO 27001 Certification,
International standard of excellence for information security management.

ANSSI SUPPORTS MGI

Implementation of a certified Information Security Management System (ISMS)

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PARTNERSHIPS

RÉPUBLIQUE FRANÇAISE — ministère des Transports de l'Équipement du Tourisme et de la Mer

DOUANES & DROITS INDIRECTS

SCS

FRENCH TECH

ANSSI

PÔLE MER MÉDITERRANÉE

NAVAL GROUP

UN/CEFACT

WORLD CUSTOMS ORGANIZATION — ORGANISATION MONDIALE DES DOUANES

med Link Ports — la solution logistique

IAPH — INTERNATIONAL ASSOCIATION OF PORTS AND HARBORS

IPCSA

cea — DE LA RECHERCHE À L'INDUSTRIE

THALES

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SMART SYSTEM
**FOR SMART
SUPPLY CHAINS**

EXPERT INFORMATIQUE ET LOGISTIQUE

TECHNICAL

→ Secure Internet connection,

→ Available 24/7,

→ EDI/ Web services and transaction mode

→ PC, tablette, mobile,

→ Hosting and exploitation on request : cloud or on-site

→ Interoperability with all information systems

→ EDI format using UN/ CEFACT international standards (XML, EDIFACT,..)

RESPONSIVE
DESIGN

Front-end

REST APIs

https:// {;} JSON

Back-end

Authentification
Integration
Search Engine
Web Services

Business Database
Search Database

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Ci5 CORE OFFER – 5 MODULES
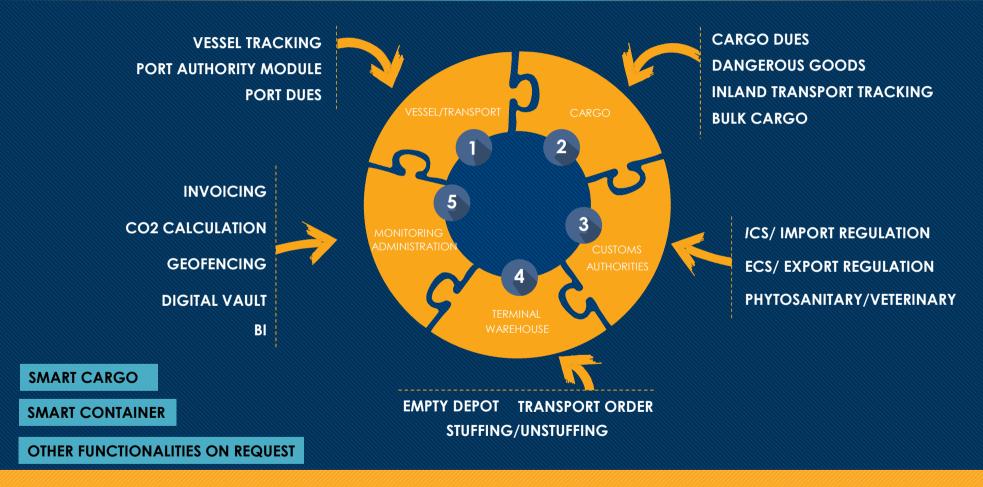## TAKE US INTO THE SMART PORT ERA

1 VESSEL

→ Service
→ Call

2 CARGO

→ Manifest
→ Booking
→ Delivery order
→ Shipper and freight Forwarder File
→ Transhipment
→ Transit

3 CUSTOMS AUTHORITIES

→ Customs declaration
→ Customs authorization
→ Discrepancy report

4 TERMINAL WAREHOUSE

→ Gate in / gate out
→ Loading / unloading
→ Terminal stock accounts

5 MONITORING ADMINISTRATION

→ Tracking
→ Monitoring
→ Event center
→ Dashboard
→ My Ci5

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Ci5 - ADD-ONS
TAKE US INTO THE SMART PORT ERA

VESSEL TRACKING
PORT AUTHORITY MODULE
PORT DUES

CARGO DUES
DANGEROUS GOODS
INLAND TRANSPORT TRACKING
BULK CARGO

VESSEL/TRANSPORT

CARGO

1

2

INVOICING

CO2 CALCULATION

5

3

GEOFENCING

DIGITAL VAULT

MONITORING
ADMINISTRATION

4

CUSTOMS
AUTHORITIES

ICS/ IMPORT REGULATION

ECS/ EXPORT REGULATION

BI

TERMINAL
WAREHOUSE

PHYTOSANITARY/VETERINARY

SMART CARGO

SMART CONTAINER

EMPTY DEPOT   TRANSPORT ORDER
STUFFING/UNSTUFFING

OTHER FUNCTIONALITIES ON REQUEST

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Interconnection with partner systems

PORT AUTHORITIES IS

Vessel operations- statistics
Call
Vessels' arrival and departure
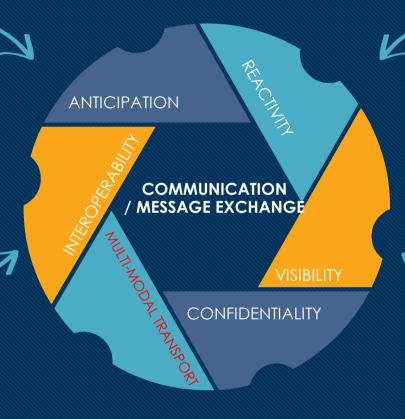Dangerous goods
Port dues
Import – export statistics

EXTERNAL PORT IS

Carriers systems
(Road, rail, river)
Traceability – paperless PFM

Warehouse system
Packing - unpaking

INTERNAL PORT IS

Shipping agent systems
Booking, BL, manifest

Freight forwarder systems:
Annonce de la marchandise
Customs clearance

Terminal systems:
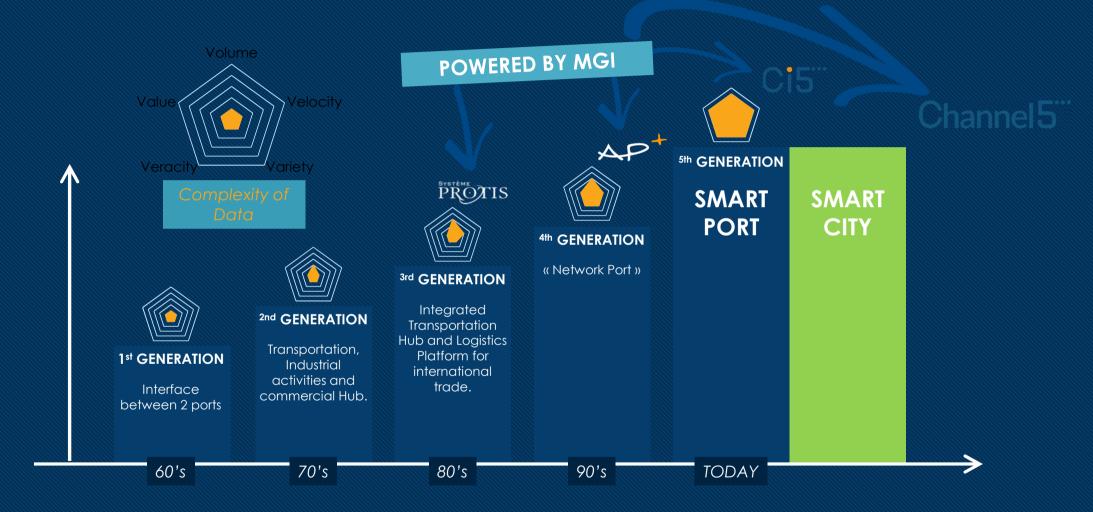Goods tracking

CUSTOMS IS

DELTAs
Customs clearance
NSTI
Transit
ICS - ECS
Safety - security
AUBETTE
Goods tracing

ANTICIPATION

REACTIVITY

INTEROPERABILITY

COMMUNICATION / MESSAGE EXCHANGE

MULTI-MODAL TRANSPORT

VISIBILITY

CONFIDENTIALITY

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MGI is part of Ports' Evolution

Volume

Value · Velocity

Veracity · Variety

Complexity of Data

POWERED BY MGI

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Système
PROTIS

5th GENERATION

SMART PORT

SMART CITY

4th GENERATION

« Network Port »

3rd GENERATION

Integrated Transportation Hub and Logistics Platform for international trade.

2nd GENERATION

Transportation, Industrial activities and commercial Hub.

1st GENERATION

Interface between 2 ports

60's · 70's · 80's · 90's · TODAY

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CHANNEL5···

ARTIFICIAL INTELLIGENCE
FOR PORTS

CHANNEL5

INFORMATION CHANNEL

PREDICTION SYSTEM

DECISION-MAKING
SUPPORT SYSTEM

FOR GOODS MANAGEMENT IN THE PORT
ECOSYSTEM

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CHANNEL5···

SMART PORT SOLUTION DRIVEN BY
ARTIFICIAL INTELLIGENCE

SOURCES

SECTOR AND EXTERNAL BIG DATA

→ Port information system
→ Customs systems
→ Port / Cargo Community System
→ Terminal Operating System
→ Road traffic information system
→ Weather information system
→ Socio-economic or operational information
→ IoT (Internet of Things and smart objects)

Artificial Intelligence

ExpressIF developped by CEA

Activity-based rules

DIRECT USERS

PORT AUTHORITIES

TERMINAL OPERATORS

CARRIERS

FREIGHT FORWARDERS

SHIPPING AGENT

MANAGER OF INFRASTRUCTURE OUTSIDE PORTS

SERVICES

REAL-TIME AND PREDICTED PORT STATUS

→ In-coming and out-going terminal traffic
→ System problem detection
→ Traffic problem detection
→ Dangerous goods tracking
→ Status of port services
→ Status of infrastructure

PORT STATUS FORECASTING

→ Volume of import and export goods expected for each period
→ Traffic congestion forecasting
→ System maintenance alerts

PROBLEM MANAGEMENT SUPPORT

→ Relaying exceptional procedures
→ Recommending operational alternatives
→ Recommending standard corrective actions

POSITIVES EXTERNALITIES

CITIES

COMPANIES

ROAD USERS

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