

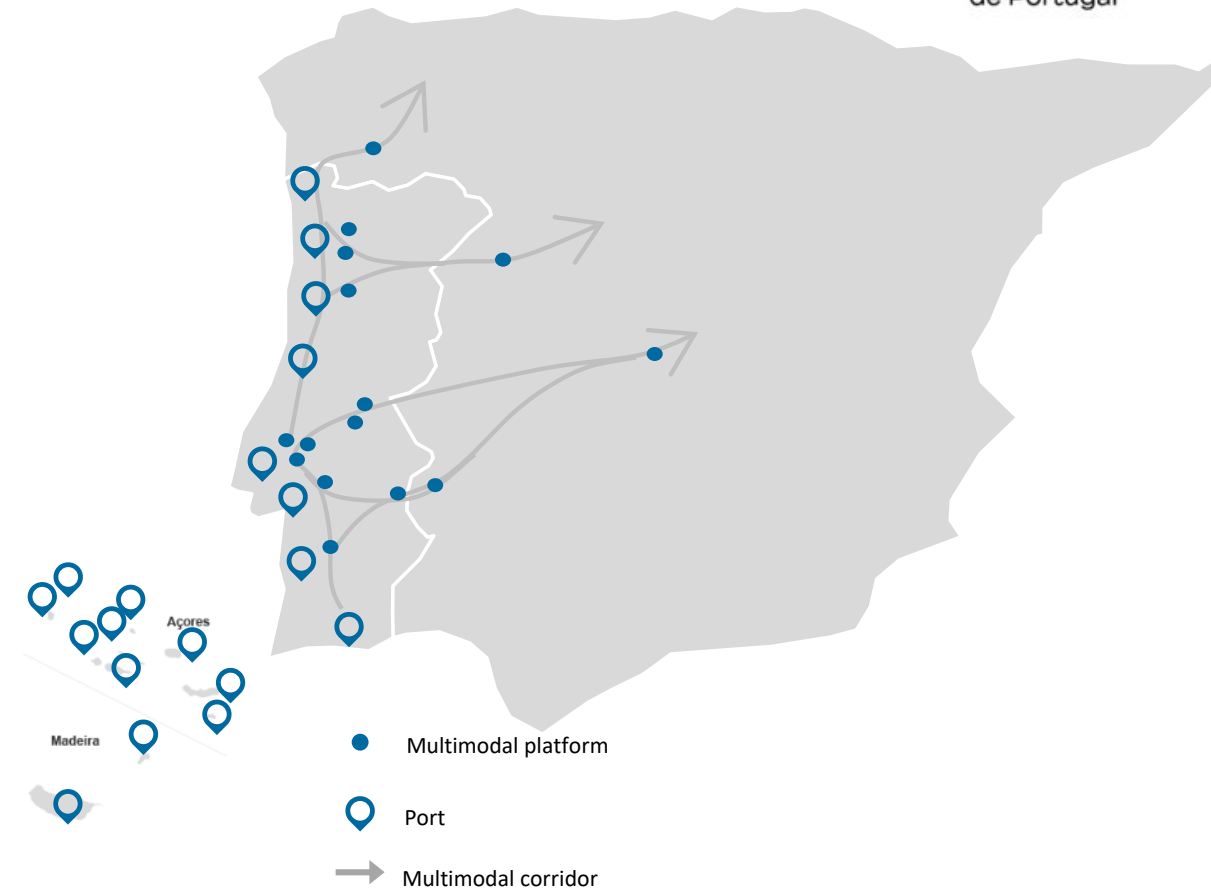


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The Portuguese PSC AND LSW

The Portuguese PCS and Maritime Single Window

- Owned by the Portuguese ports
- Used in numerous ports in Portugal and in
 - ◆ Angola
 - ◆ Cape Verde
 - ◆ Cyprus
- Developed, implemented and supported by
 - ◆ Indra
 - ◆ Marlo
 - ◆ EGAPI



Connected Stakeholders (in Portugal)

Ports



Authorities



Logistics Companies



PCS: Linking all Stakeholders

- Shipping Agencies
- Port Authority providing Safety (Coordination, Piloting, Environment) and Port Business (Cargo and Cruises)
- Other official entities in the port (Customs, Cross Border, Emergency, etc).
- Companies that provide mooring services
- Tugging companies
- Companies that provide waste collection services
- Importers / Exporters
- Port operators
- And more



PCS: Vessel Calls – Report Information



- Call announce (IMO and EMSA Formalities)
- Ship entrance Authorities' Clearance
- Manage Manoeuvres
- Safety and Environmental processes
- Security (ISPS Code)
- Extracting information from EMSA Common Vessel Database
- Cargo Management
- Vessel services and utility supply management

PCS: Reporting Formalities – IMO FAL FORMS and EMSA



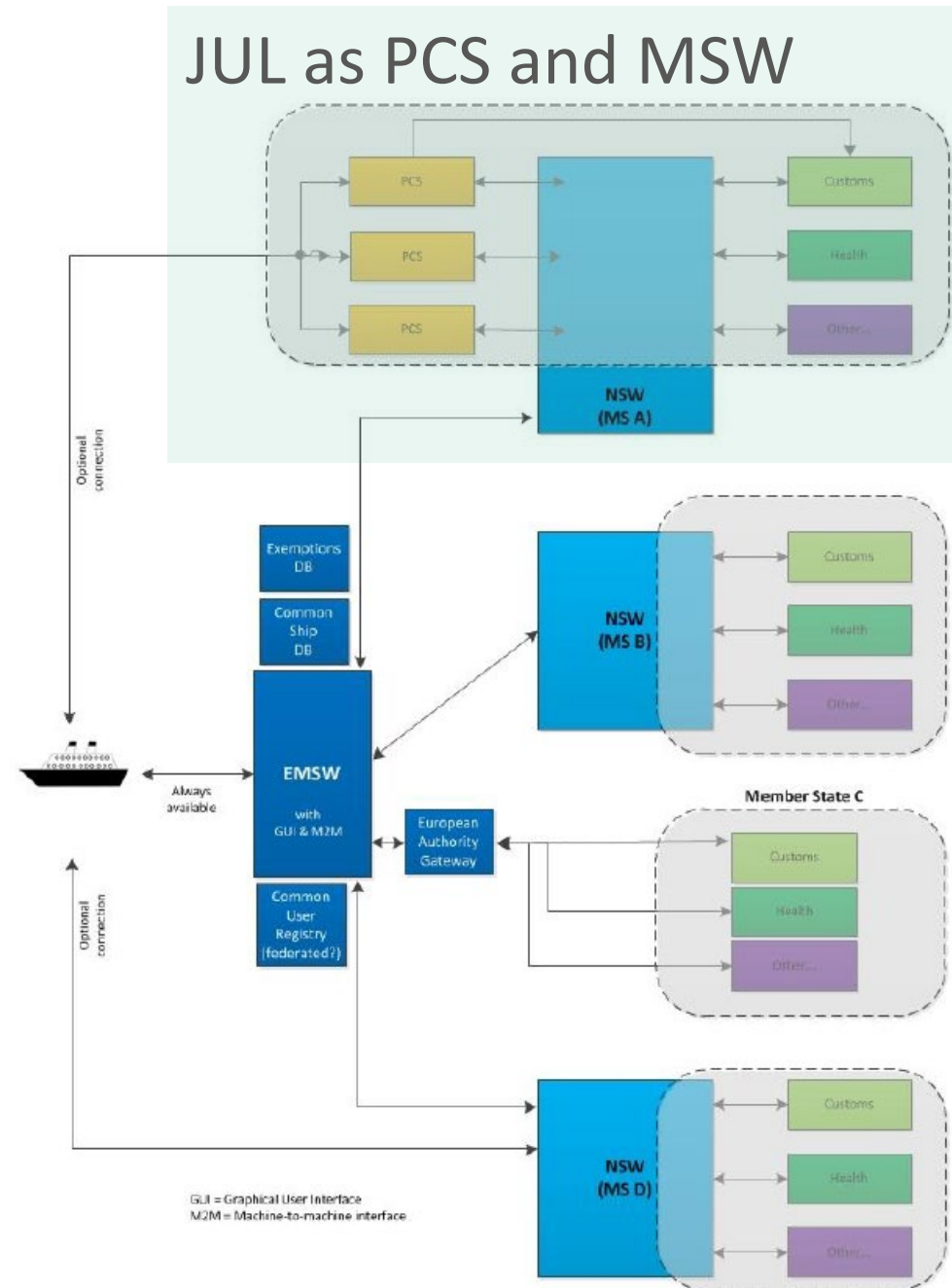
- Pre-arrival notice
- Crew and passengers' lists
- Dangerous goods
- Ship's stores
- ISPS Declaration
- Waste disposal
- Cargo declaration and cargo manifests

Sharing Information

Directive EU/65/2010



EU Regulation (2019)



Some Statistics

JUL Indicators (26.05.2023)	APRAM	FARO	PORTIMÃO	AVEIRO	FIGUEIRA F.	SINES	SETÚBAL	LISBOA	VIANA	PA	Total
Vessel Calls	5 306	98	392	3 233	1 461	6 262	4 250	4 546	309	4 371	30 228
Truck Calls	0	0	0	0	0	22 581	0	0	0	146 117	168 698
Messages created	373 127	87 450	142 467	433 603	142 927		891 341	820 608	35 859	1 761 460	4 688 842
Pre-invoice created	4 604	716	704	18 881	8 696	29 072	28 910	23 804	1 996	62 554	179 937
Entities	4 436										
Users	12 868										

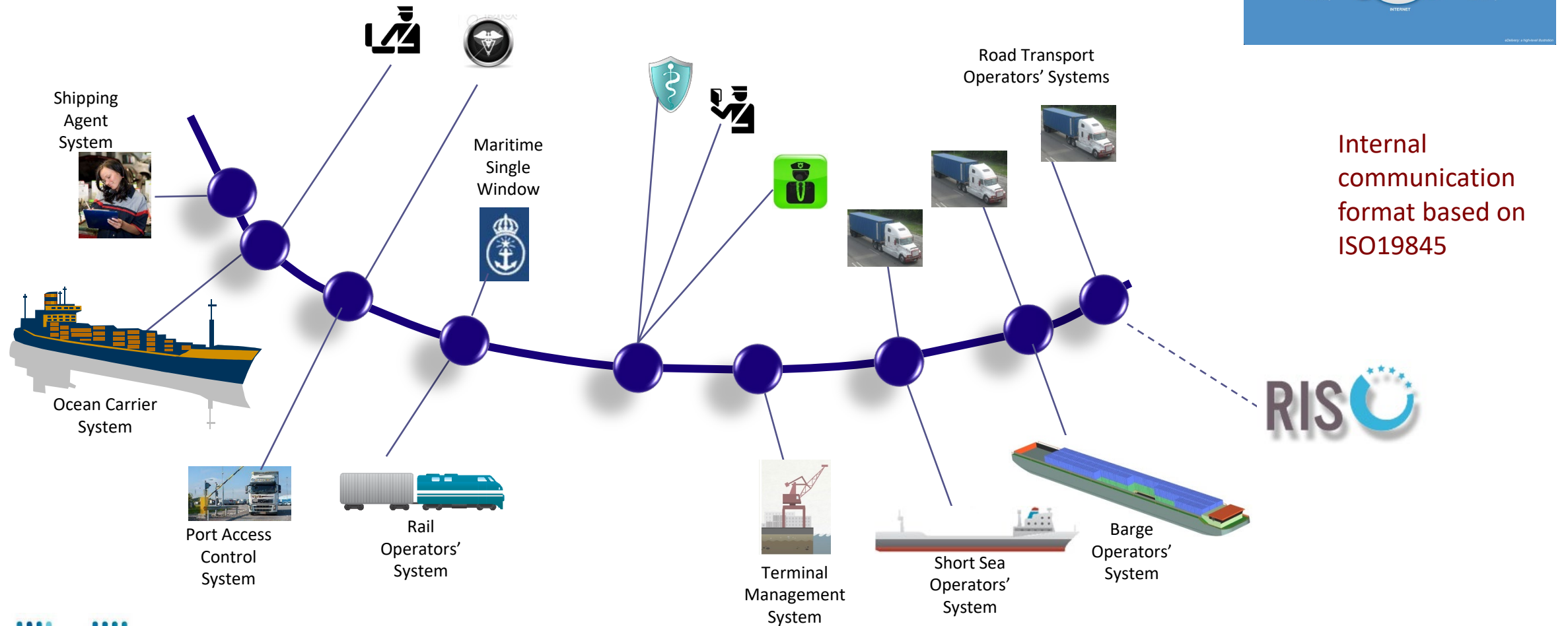
Train calls indicators	Medway	Takargo	Total
Train calls	46 248	873	47 121

TOS	Containers moved
Containers moved	1 651 141

Messages processed	Number
Total messages processed	17 000 000

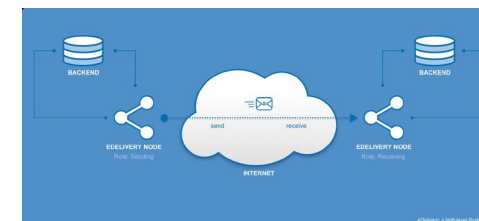
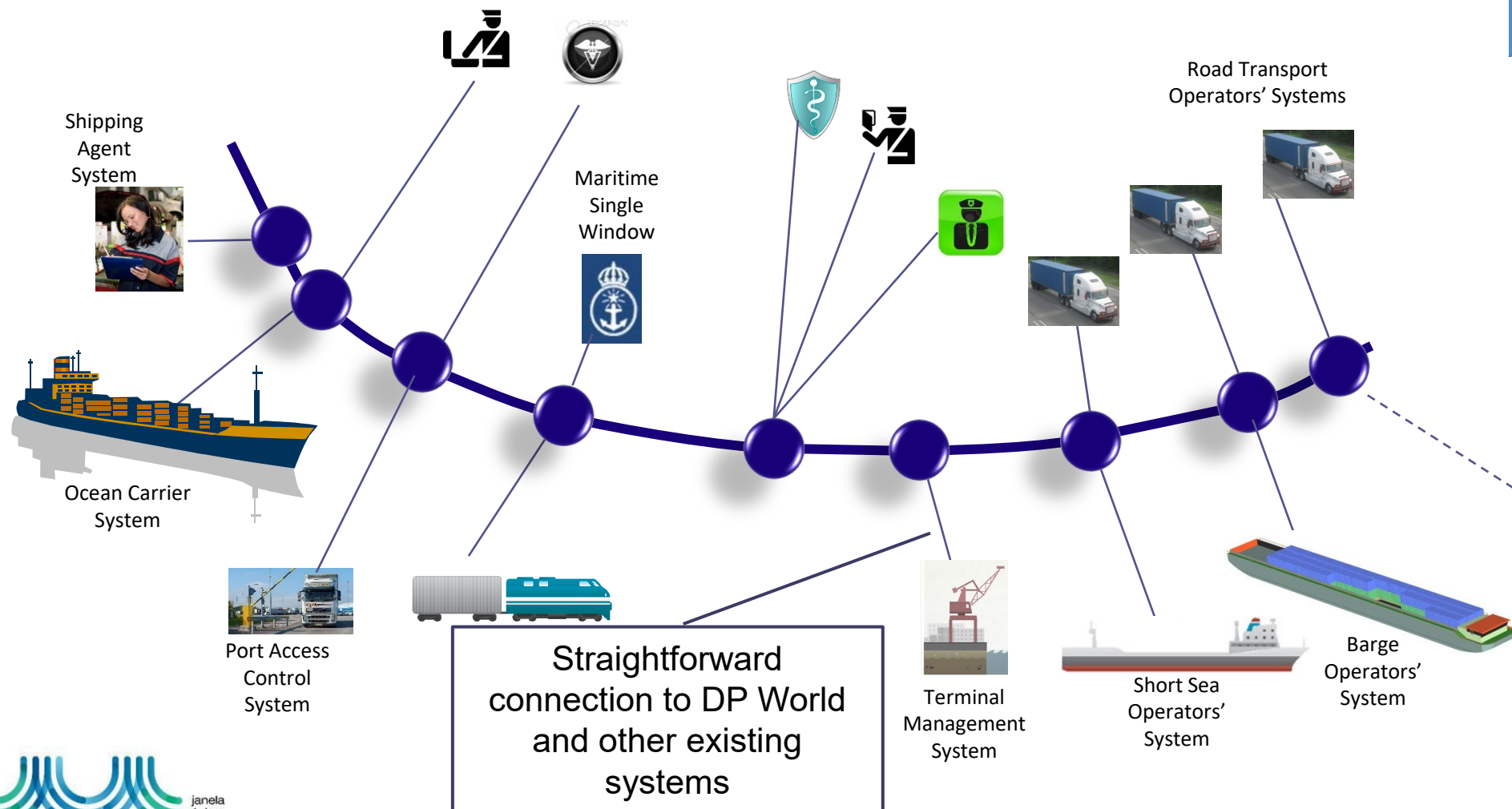
Architecture

- Based on the principles of the EU eDelivery Infrastructure



Architecture

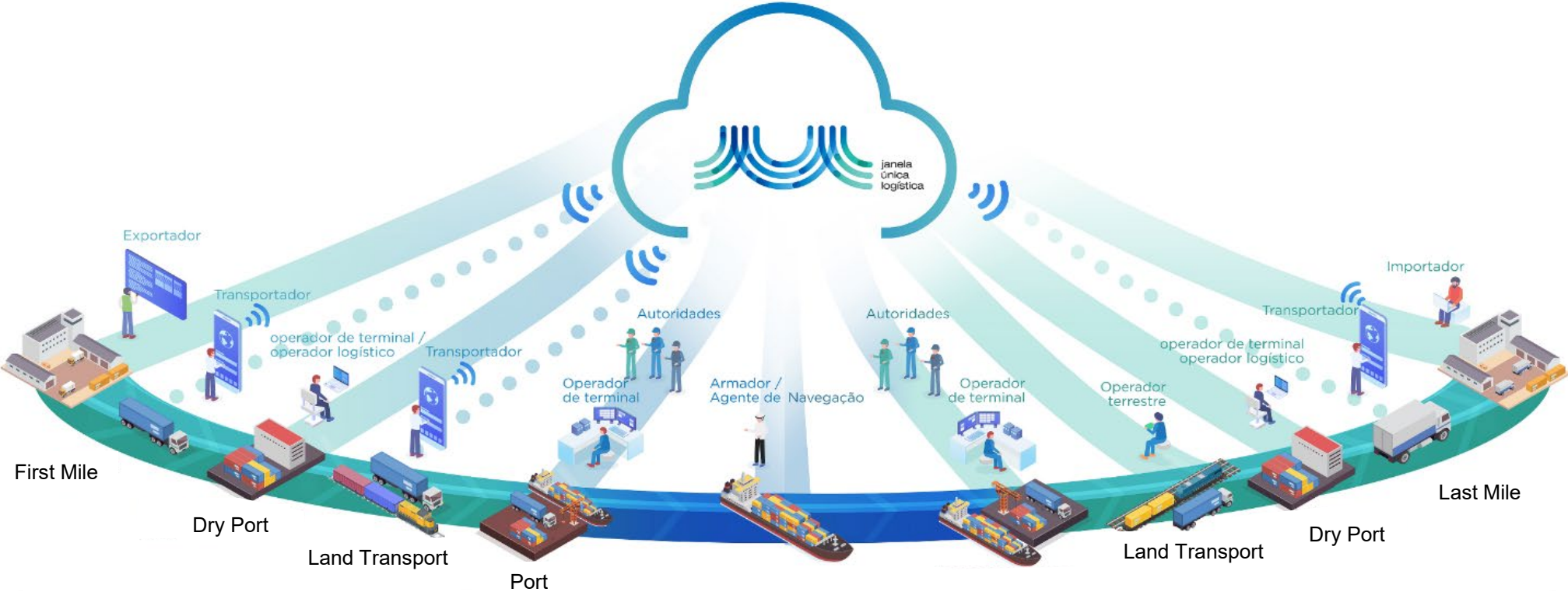
- Based on the principles of the EU eDelivery Infrastructure



Internal communication format based on ISO19845



JUL Scope



COLLABORATION



REAL TIME INFORMATION SHARING

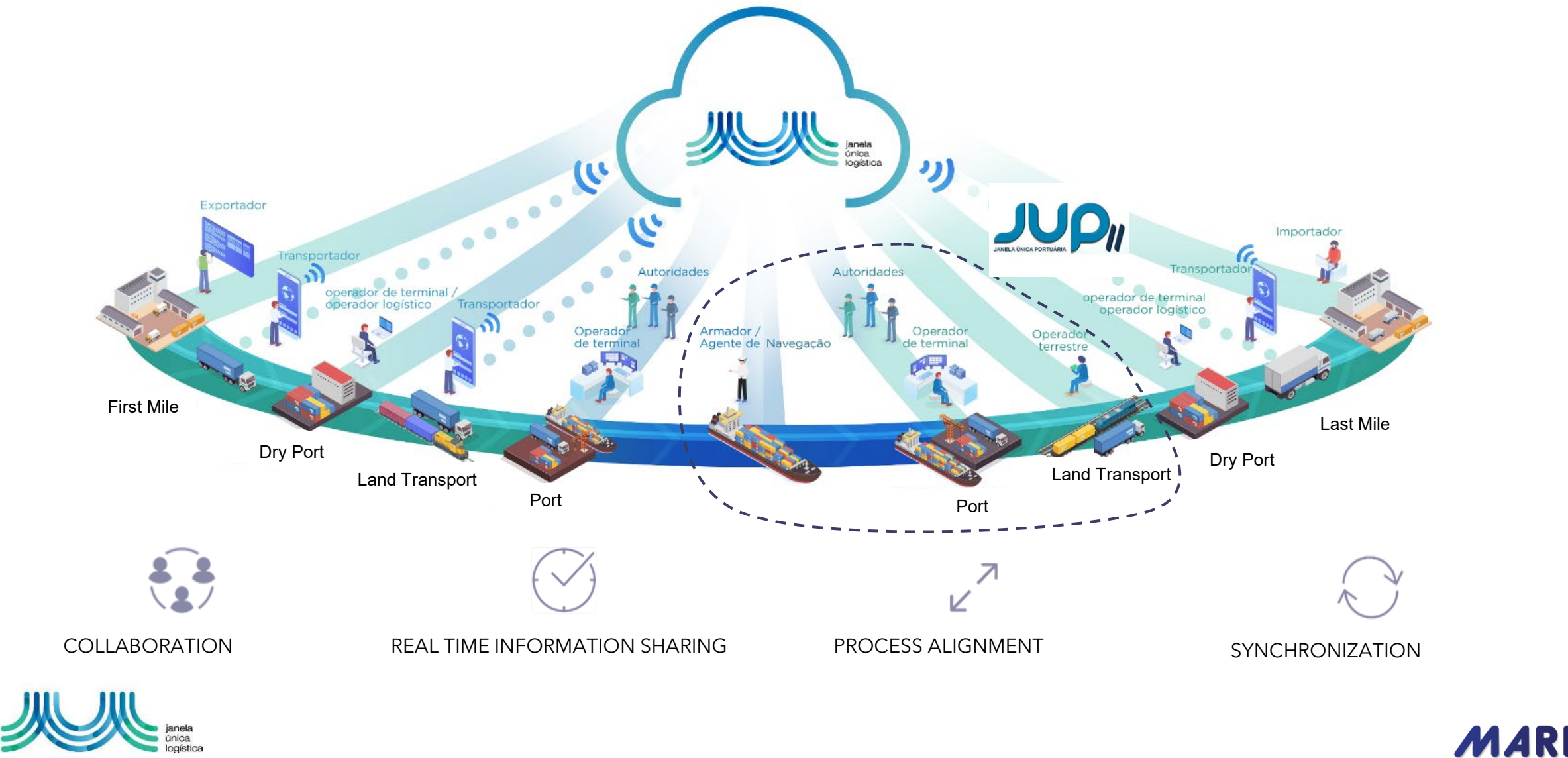


PROCESS ALIGNMENT



SYNCHRONIZATION

JUL Scope (PCS and MSW)



Application Components: Full Scope



ADMIN
Administration



GAD
Users



GEN
PortOfCall



GSU
Services



GDM
Maneuver



GT
Tariff



FAT
Billing



GPA
Customs



DM
Master Data



MSG
Messages



EST
Statistics



CUP
Access



TOS
Terminal



GOS
Gate



GTR
Carrier



GTF
Rail



SPA
Safety and
Environment



GIP
Inspection



GAS
Appointments



FDA
Billing
Areas



LTM
Last
Mile



CNL
Maritime
Administration



MNC
Monitoring



RCL
Claims



GWP
Payments



FLV
Fluvial
River



LFR
Foreland

Application Components: PCS and MSW Only



Application Components: Linking to RIS

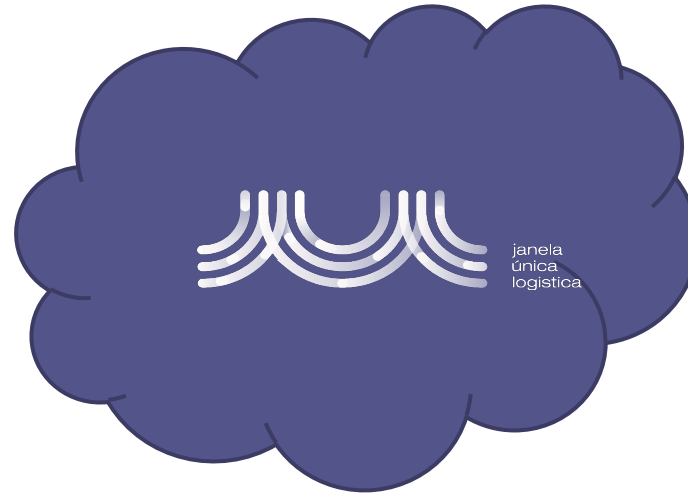


Application Components: Added Security



Implementation Alternatives

- In the cloud



- State-of-the-Art
 - ◆ Methodologies
 - ◆ Technologies

- Local Servers





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Cofinanciado por:

COMPETE
2020

PORTUGAL
2020



UNIÃO EUROPEIA

Fundo de Coesão

dgrm

APP

Associação
dos Portos
de Portugal