

# Indra

## MARITIME TRANSPORT

Napoles, 25 of June 2014  
Catarina Almeida



**indra**



**ECASBA**



# Index

- 1) **Indra in a Brief**
- 2) Capabilities on Maritime Related Projects
- 3) Indra Ports Experience

# Indra in a Brief



**indra**

Indra is a global tech company and leader in IT, Transport and Defense & Security Systems



**Revenues**  
**3.000 M €**

**42.000**  
**professionals**

**138**  
**countries**

**Own technology**

---

**Differential business model based on Innovation**

### OFFERING

<b>Solutions</b>	<b>67%</b>
Think / Built	
Consultancy	
Technology solutions	

<b>Services</b>	<b>33%</b>
Operate	
IT Outsourcing	
BPO	

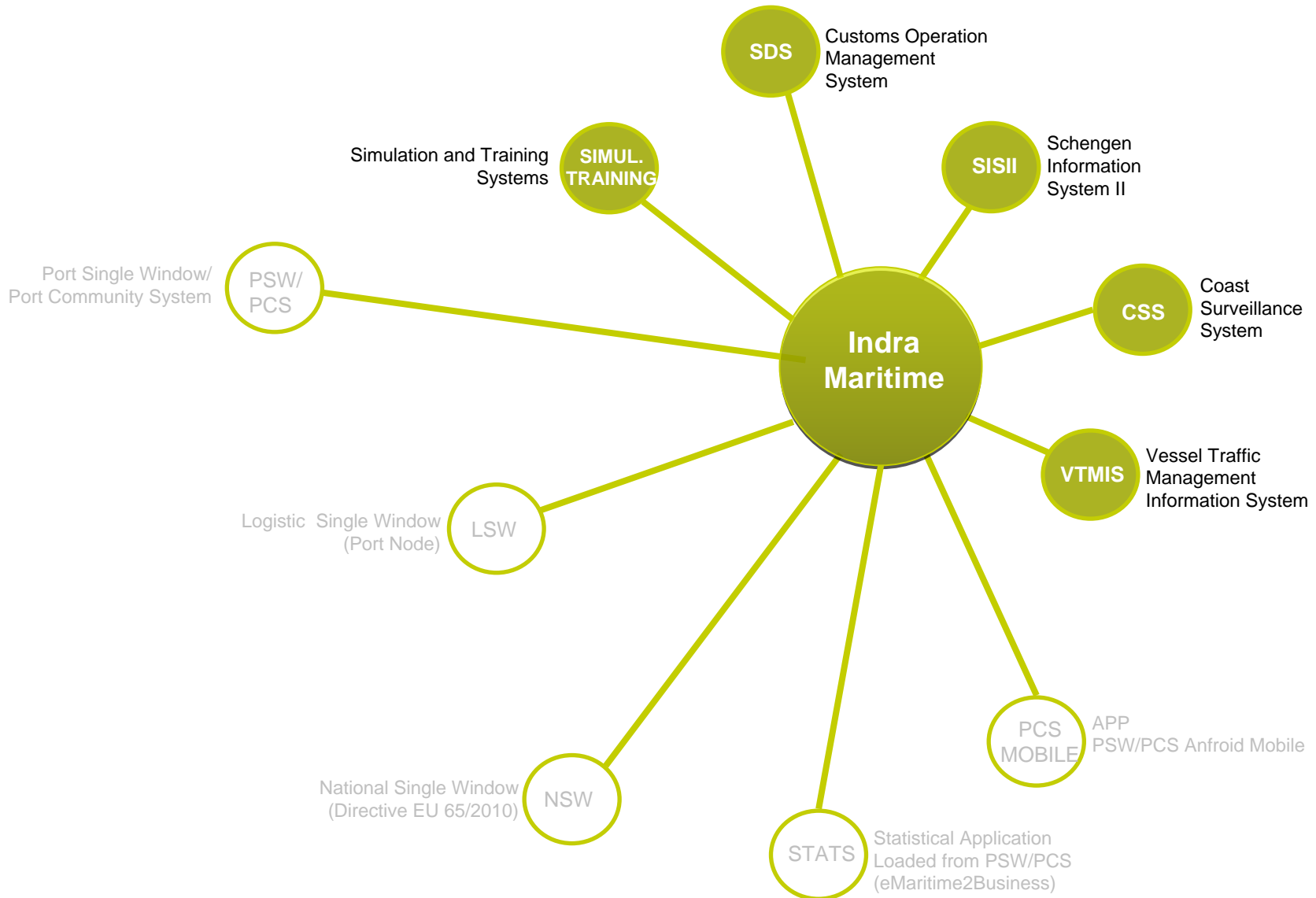
### MARKETS

<b>Energy &amp; Industry</b>	<b>15 %</b>
<b>Financial Services</b>	<b>14 %</b>
<b>Public Administration &amp; Healthcare</b>	<b>15 %</b>
<b>Telecom &amp; Media</b>	<b>15 %</b>
<b>Transport &amp; Traffic</b>	<b>22 %</b>
<b>Security &amp; Defense</b>	<b>19 %</b>

# Index

- 1) Indra in a Brief
- 2) Capabilities on Maritime Related Projects**
- 3) Indra Ports Experience

## 2) Indra Capabilities on Maritime



## 2) Indra Capabilities on Maritime

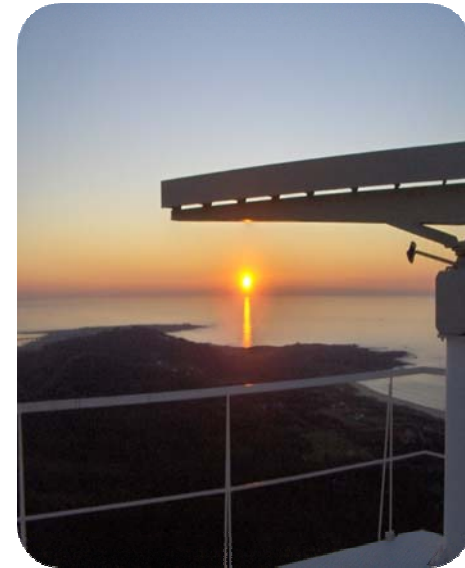
### VTMIS – Vessel Traffic Management Information System

#### VTS & CSS Solutions

- VTS/CSS product branches with a common core;
- **iMare®Platform**: VTS + PMS = VTMIS;
- Tactical Traffic Image in Real Time;
- Multisensor fusion for tracking:
  - Multiradar, AIS, RDF, Optronic
- AtoN and Hidro-Meteorological information integration;
- Ship2shore communications integrated;
- COTS and standard based:
  - EUROCONTROL - ASTERIX, NMEA, IVEF.



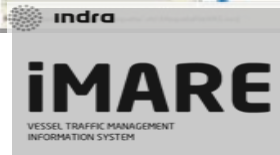
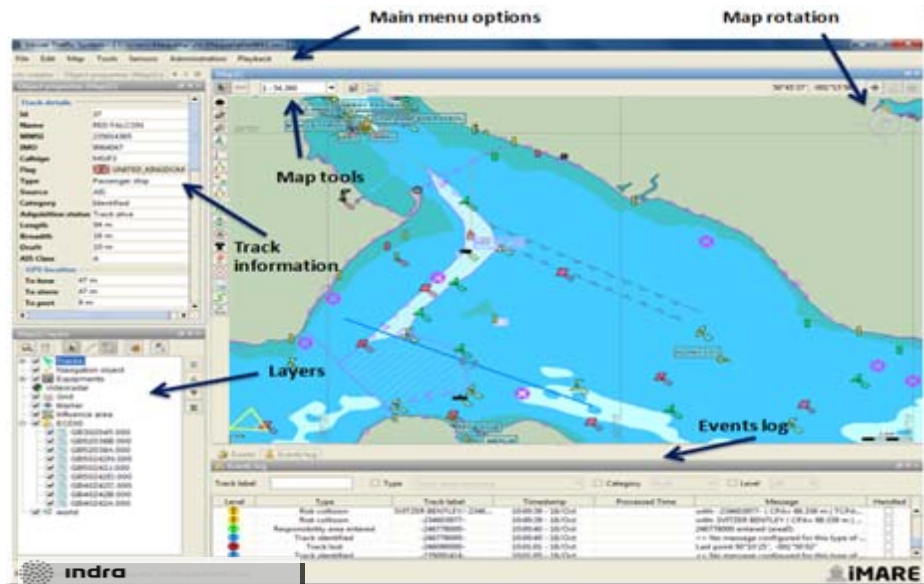
**iMARE**  
VESSEL TRAFFIC MANAGEMENT  
INFORMATION SYSTEM



## 2) Indra Capabilities on Maritime VTMIS – Vessel Traffic Management Information System

### VTS & CSS Experience

- Over **4.000 Kms** of coast with Coast surveillance systems controlled by Indra from the Baltic in the north to the Mediterranean and Atlantic in the south, Cantabrian Sea, Black Sea and Straits of Gibraltar: Spain, Latvia, Romania, Portugal.
- Over **20 ports around the world** are managed by Indra VTS technology in Europe, Africa, Asia and LATAM
- Indra leads the **Perseus European Project**, that will provide support for **FRONTEX** and **EMSA**, among others.
- KSPM Project **National Polish Maritime Safety System**.



## 2) Indra Capabilities on Maritime CSS – Coast Surveillance System

### Success Case SIVICC

- **SIVICC** is an Integrated System of Surveillance, Command and Control of the Portuguese Coast.



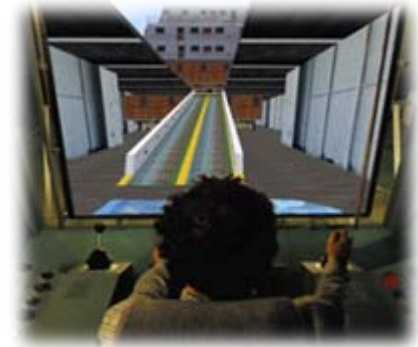
- **Over 900 kms** of coast controlled
- **20** Fixed stations of Sensor Station
- **8** Mobile stations of Sensor Station
- Communications Network (VTS Backbone Microwave, WiMax, XHF)
- Integration with the Spanish Coast Surveillance System (SIVE)





## 2) Indra Capabilities on Maritime Operational Systems for Crane Training

### Tranning & Logistic Support



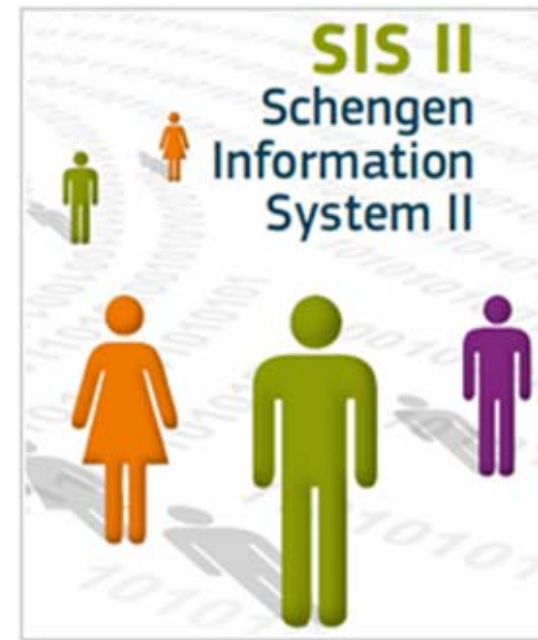
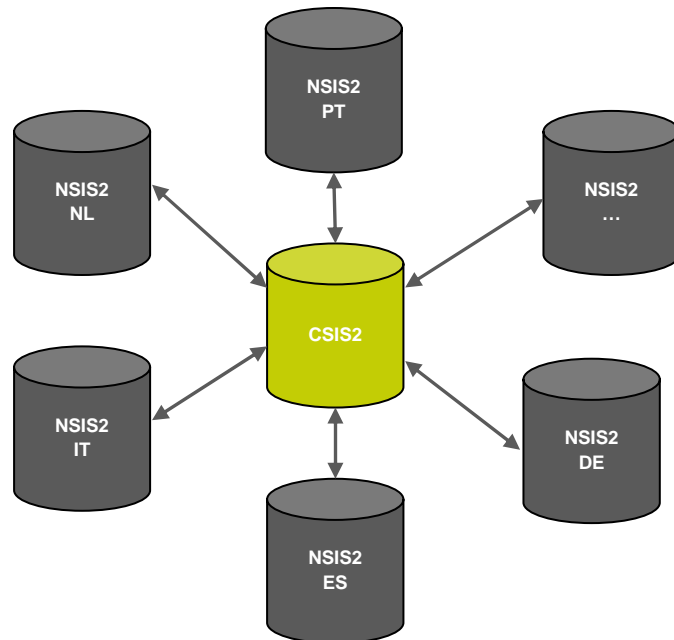
- Computer Based Training (CBT)
- E-Learning
- Loading and Unloading Port Machinery and Crane Simulators
  - Training position
  - Movement simulation platform
  - Visualization system and data base.
  - Instructor position
  - Audio and communications with the student
- Different types of cranes:
  - Portal Crane
  - Transtainer Crane
  - Straddle Carrier
  - Reach Stacker



## 2) Indra Capabilities on Maritime Immigration

### Success Case SISII

- **SISII** is a system that allows the exchange information of people and goods between the countries under the Schengen agreement.



## 2) Indra Capabilities on Maritime SDS – eCustoms

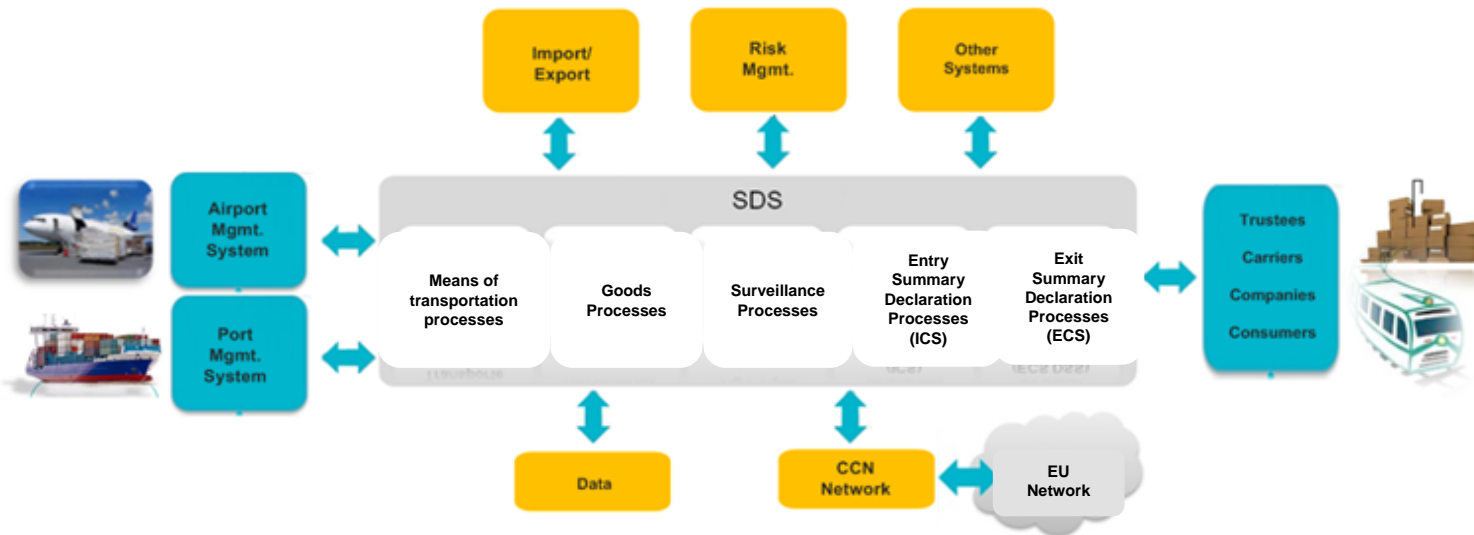
### Success Case SDS

- **SDS - eCustoms** is a system designed under the WCO standard to manage all the Customs processes according to the Single Windows Operation Model in the EU for importing and exporting goods.

United Nations Directories  
for Electronic Data Interchange for  
Administration, Commerce and Transport



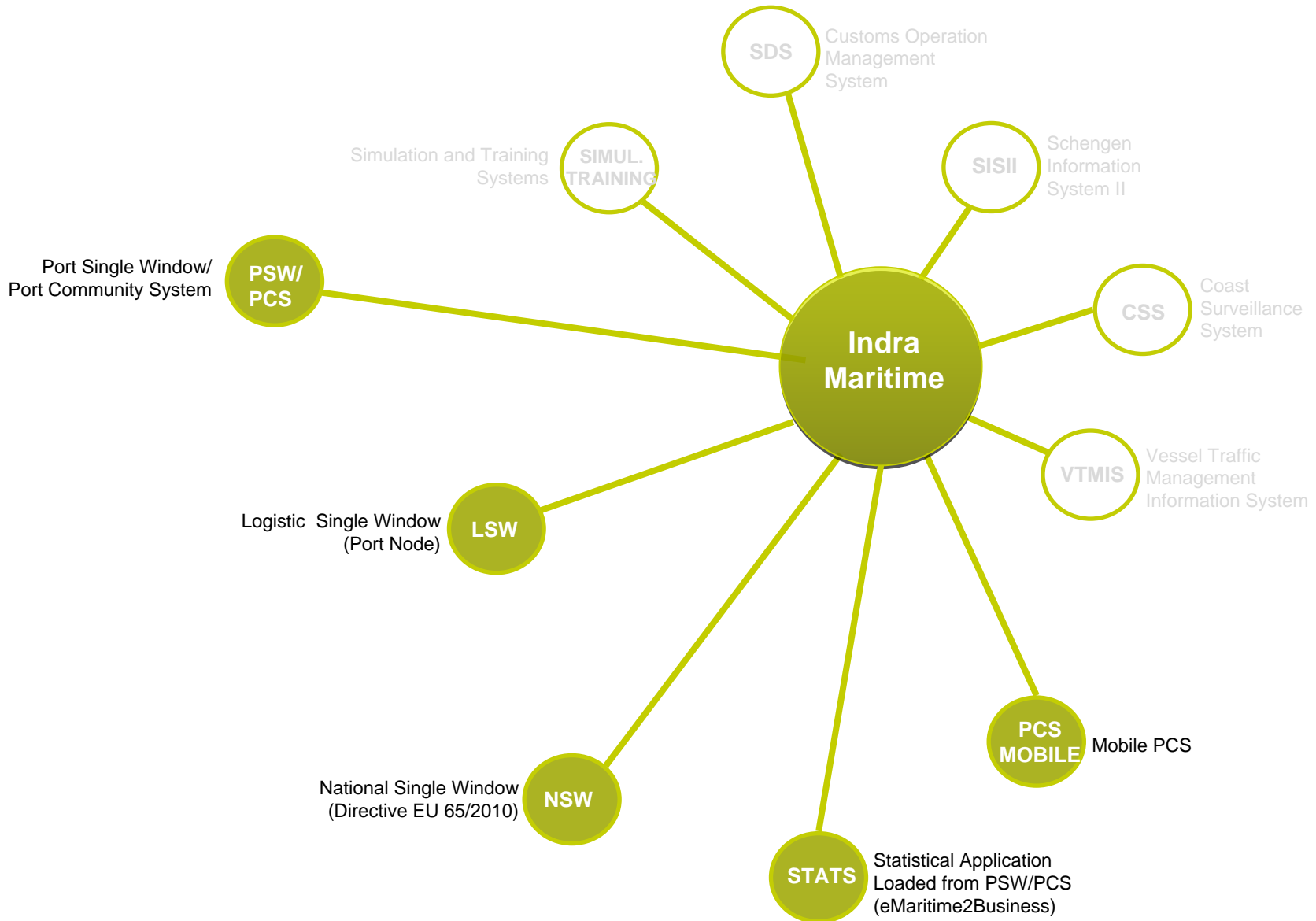
**UN/EDIFACT**



# Index

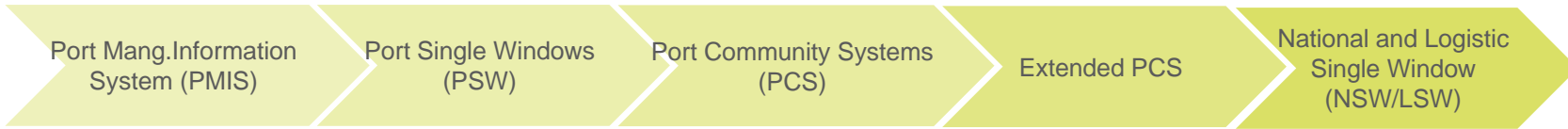
- 1) Indra in a Brief
- 2) Capabilities on Maritime Related Projects
- 3) Indra Ports Experience**

# 3) Indra Ports Experience



# Indra Ports Experience

## From PMIS to NSW/LSW



Integration of Vessel, Railway and Roadway Processes  
Different Transport Operators within same platform



Vessel and Goods Processes Implementation – upgrade tech  
Integration with eCustoms – upgrade tech  
Containers Management – upgrade tech  
Integration with Gate Operations



Vessel and Goods Processes Implementation – upgrade  
Container Process Management Implementation



Vessel Processes Implementation

## Directive EU 65/2010



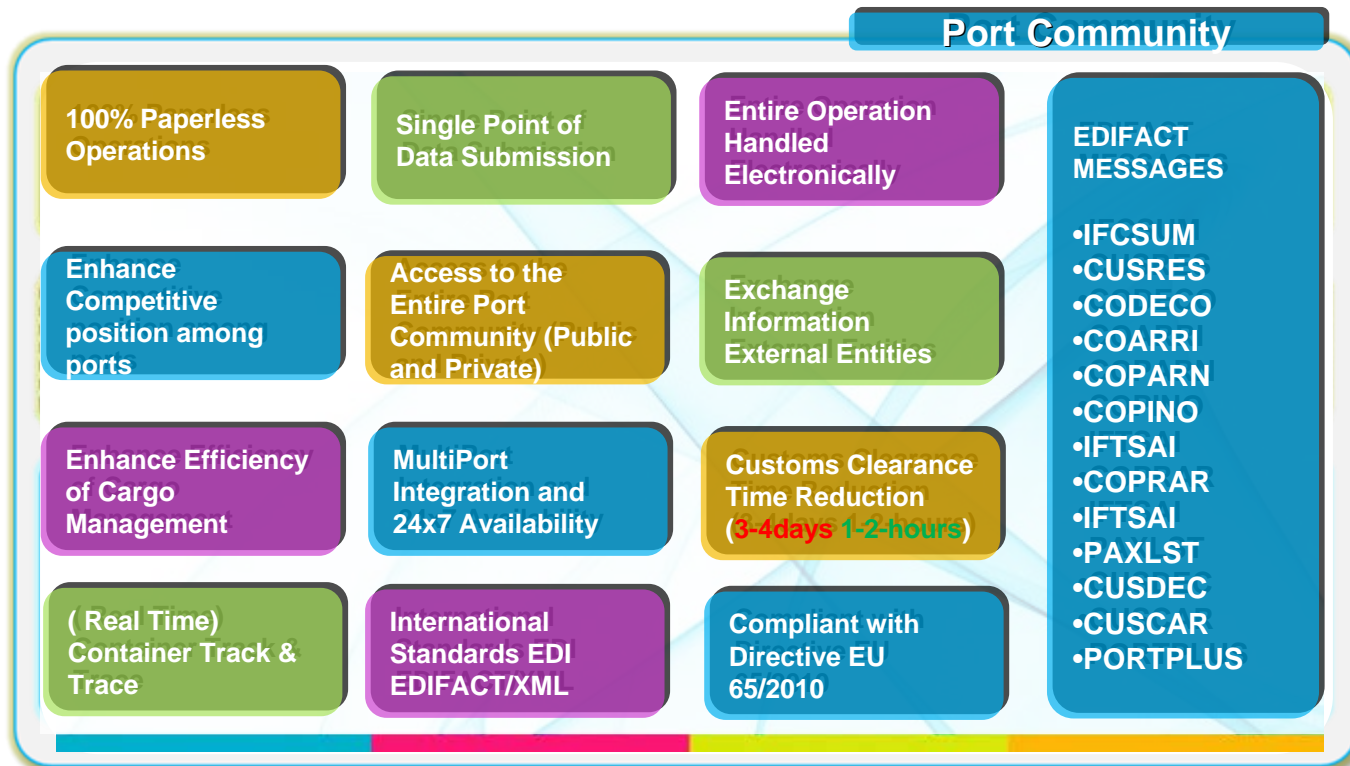
FAL's Implementation Maritime Transport for Ships Arriving in and Departing from EU Ports.  
Submitting Export/Import information to Customs and OGA

# Indra Ports Experience

## PCS – Port Community System

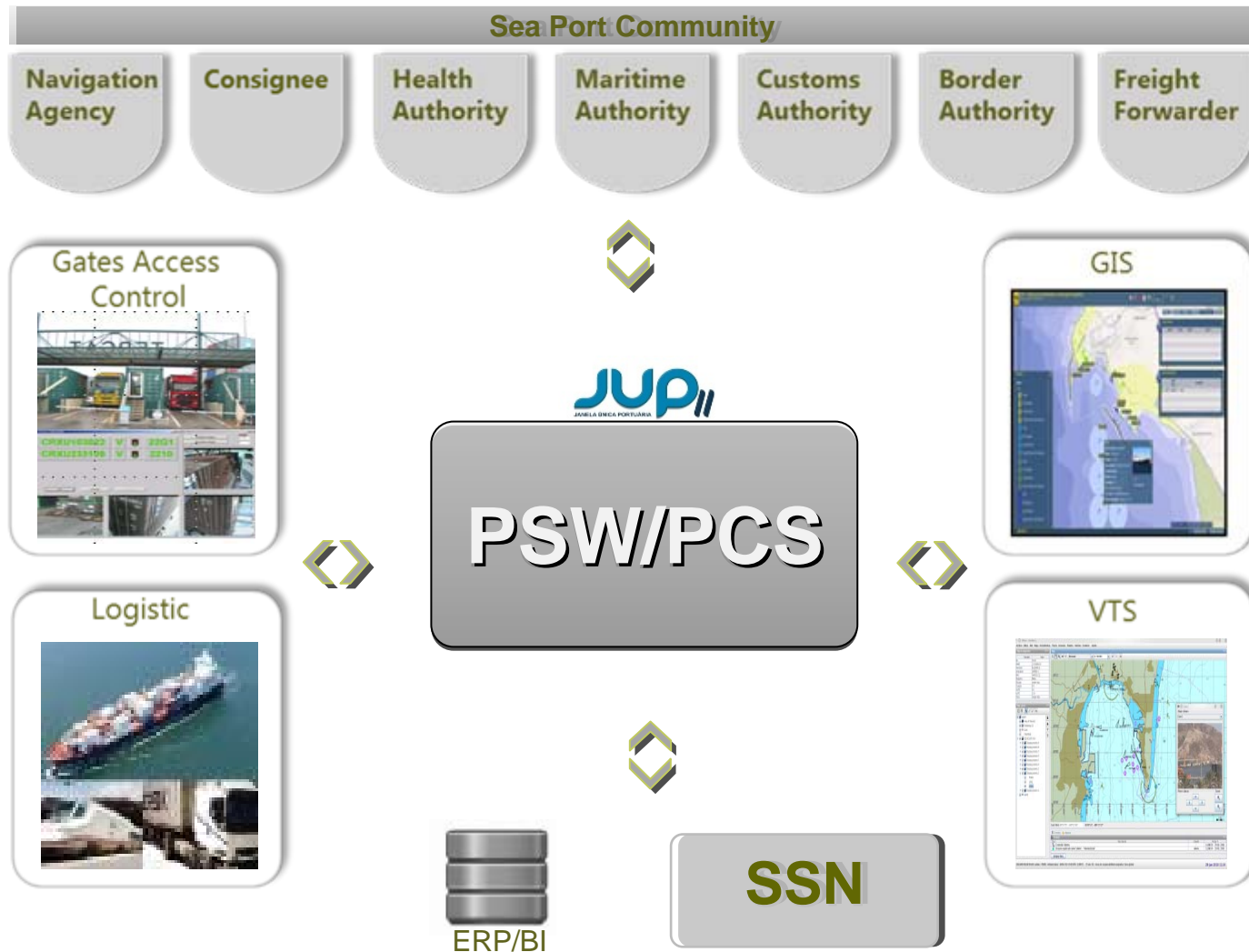


### PSW/PCS Success Cases



# Indra Ports Experience

## PCS – Port Community System



Interoperability System



# Indra Ports Experience

## Extended – PCS



### Success case: Extended PCS

#### Main Processes Extended PCS

- Train shedule
- Train Call (IFTSAI EDIFACT Message)
- Train Load and Unload Instructions
- Train Composition
- Train Real-Time Location
- Customs Transit Declaration/Authorization
- Bi-Directional responses
- OCR – Remote Document Capture

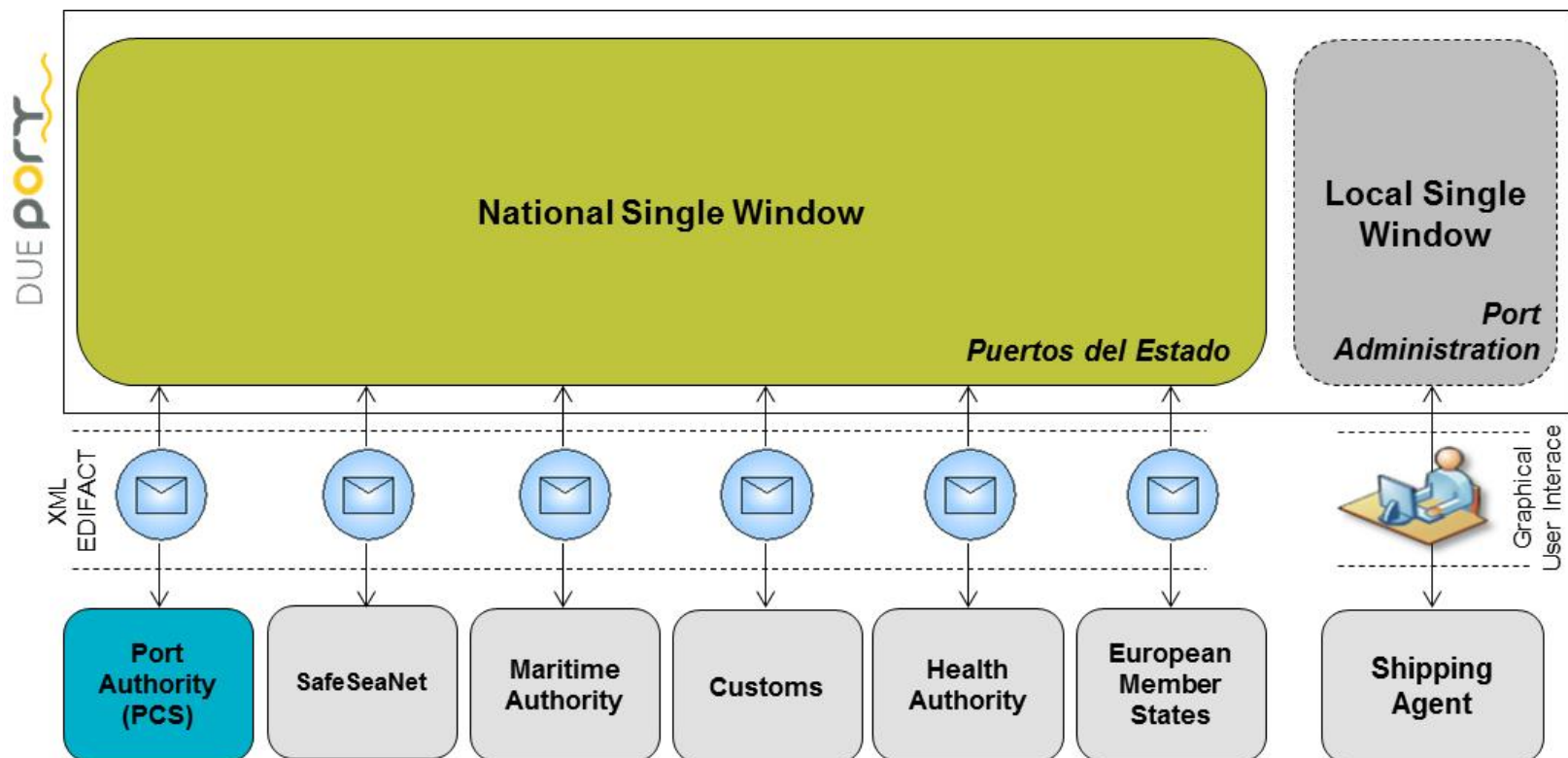


# Indra Ports Experience

## PSW & Maritime NSW (Directive 2010/65/EU)



### Spanish National Maritime Single Window



# Indra Ports Experience

## STATS AGEPOR



AGEPOR



### eMARITIME2Business

- **STATS** is BI Tool for AGEPOR (Shipping Agents)
- Provides a set of important information regarding goods and ships
- Data is loaded from PCS/Manifest document

The screenshot shows the AGEPOR STATS web application interface. It includes a login section with fields for Username and Password, and a LOGIN button. A search section has an 'Add search filter' input, a search button, and buttons for 'Update Dimensions' and 'Export'. On the right, there are sections for 'Row Dimensions' (Ship Call Port), 'Columns Dimensions' (Year, Month), 'Facts' (Ship Calls), and 'Search Filters'. Below these is a data table with columns for months from January to October for the years 2012 and 2013. The table lists various categories like LEDGES, LISBOA, DOURO, SINES, and QUR99, along with their monthly and yearly totals.

	2012												2013									
	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June	July	August	September	October
LEDGES	408	410	428	434	440	458	227	450	196	440	208	390	414	210	205	486	458	209	442	221	450	218
LISBOA	0	0	0	0	0	0	0	0	0	0	0	0	3	0	4	6	144	747	440	708	520	807
DOURO	0	0	0	0	0	0	0	4	1	0	1	0	0	0	0	0	0	0	2	0	0	0
SINES	0	0	0	0	0	0	0	0	0	0	0	0	290	387	286	531	358	522	356	549	364	546
QUR99	4	0	6	12	8	8	5	14	2	2	5	2	8	0	2	2	12	2	4	4	12	2
Total of Month	412	410	434	446	448	466	232	468	199	442	214	392	715	597	497	1.025	972	1.480	1.244	1.482	1.346	1.573
Total of Year	4.563												12.871									

# Indra Ports Experience

## References



Port of Luanda



Puertos del Estado





**indra**

**Maritime Transport**

Catarina Almeida

[csofia@indracompany.com](mailto:csofia@indracompany.com)

ALFRAPARK, Edifício C-Piso2  
Estrada do Seminário, 4 Alfragide  
2610-171 Amadora (Portugal)

T +351 214 724 600

F +351 214 724 690

[www.indracompany.com](http://www.indracompany.com)