



# EGNOS – GALILEO OPPORTUNITIES FOR PORT OPERATIONS

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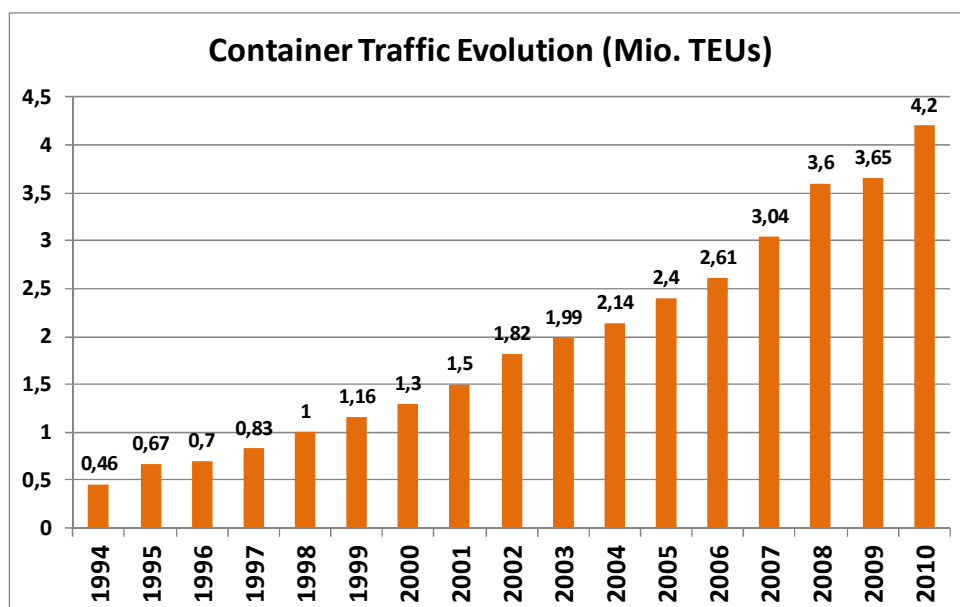
## Valenciaport Overview

Valenciaport 2011



## Valenciaport Overview

### Port Authority of Valencia. Traffic Figures



2011 TRAFFIC (NOVEMBER)	TON
Total Bulk	6.280.182
Liquid	4.150.549
Solid	2.129.633
Total General Cargo	53.631.230
Non- Containerized	7.121.742
Containerized	46.509.488
Total Traffic	60.167.545

- ✓ Handling practically every type of cargo from all economic sectors.
- ✓ Receiving regular ferry service from the Balearic Islands and Italy with a growing business in cruise vessels that numbered **350.941** registered **cruise passengers** until November 2011.

## Valenciaport Overview

### Mission

To facilitate **international competitiveness** of economic and social institutions of its area of influence through a competitive offer of **infrastructures and services** in line with the **European transport policy** and social demands to re-inforce its leadership.

### Vision

Major Interoceanic Port of the Iberian Peninsula

Regional Hub and Leader Logistics Platform in the west Med.

68 mill. T. &  
4 mill. TEU  
Capacity  
in 2015

### Priorities

Consolidate  
increase  
interoceanic  
status

Service to major  
traffics  
influencing the  
economic and  
social  
development

Logistics  
Platforms  
Development

Security and  
Secure  
sustainable  
development  
model



## Valenciaport Overview



## Valenciaport Overview

### Port Container Terminals





## Valenciaport Overview

### Multi-Purpose Terminals



## Valenciaport Overview



**Grain Terminal**



**Mineral Bulk Terminal**



**Chemical and Oil Terminal**



**Multi-purpose Terminal**



## Valenciaport Overview

### Cruises Terminal

Cars and Ro-Ro Terminal



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## Safety & Security Management Model

MEASURES AND ACTIONS IMPLEMENTED AT VALENCIAPORT TO REINFORCE PORT INFRASTRUCTURE SECURITY

### Physical Protection Enhancement:

- Border Protection System
- Personnel Access and Stay Control System
- Reinforcement of CCTV Surveillance System (**172** new cameras since 2008)
- Implementing new protection resources and procedures at the Port Control Centre.
- Non intrusive mobile inspection systems.



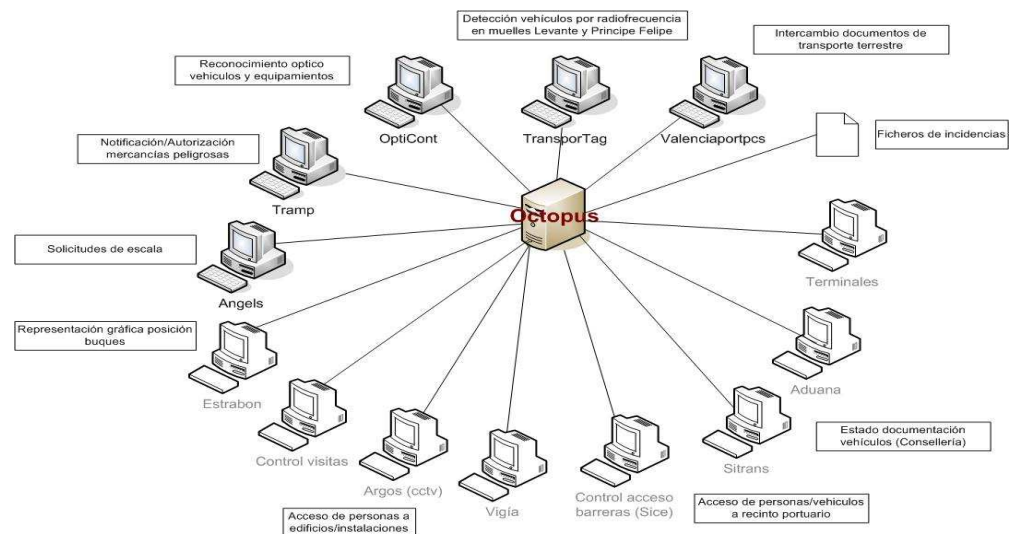


## Safety & Security Management Model

MEASURES AND ACTIONS IMPLEMENTED AT VALENCIAPORT TO REINFORCE PORT INFRASTRUCTURE SECURITY

### Control Instrumentation Enhancement:

- Vehicles and Container Access Control Systems
- OCTOPUS (Security & Protection Data Consolidation Instrument)

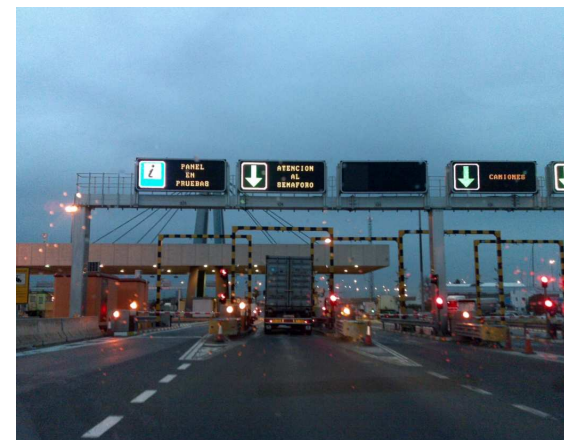


## Safety & Security Management Model

MEASURES AND ACTIONS IMPLEMENTED AT VALENCIAPORT TO REINFORCE PORT INFRASTRUCTURE SECURITY

### Implementation of various initiatives in the PAV

- **CSI.** Container Security Initiative, launched by USA to control illegally use of containers, mainly y the search of drugs and weapons. Consist in X Ray inspection of containers.
- **MEGAPORTS.** Initiative also launched by USA, to control the illicit radioactivity transport. Consist in the implementation of passive elements emitting an alarm in the case of radioactivity detection.



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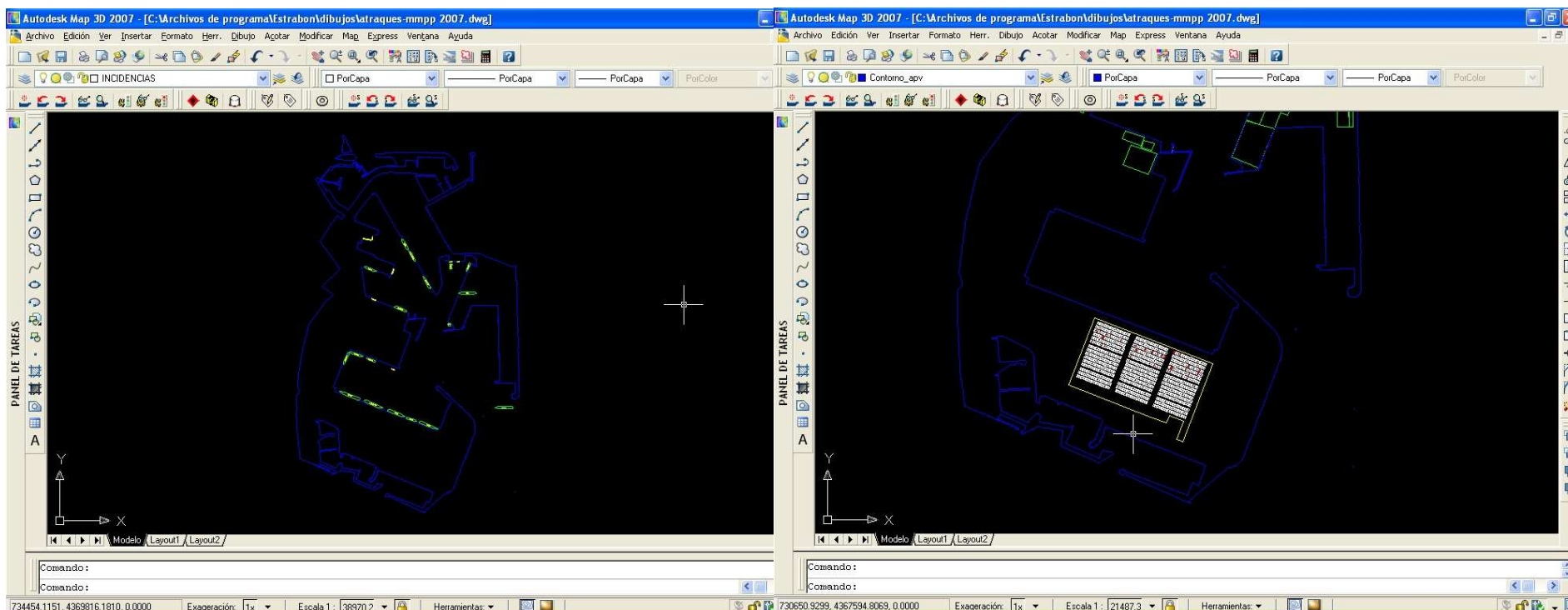
# EGNOS – Galileo Applications for Port Operations

## PORT – LOGISTIC CHAIN TRACEABILITY



# EGNOS – Galileo Applications for Port Operations

## VESSEL TRACKING AND DANGEROUS GOODS TRACEABILITY





## EGNOS – Galileo Applications for Port Operations

### AUTOMATION OF PORT CONTAINER TERMINALS

- Integration with the Terminal Operations System (TOS)
- Precise Geo-Location of Equipment
- Improvement of Operations Efficiency
- Avoid Accidents



## EGNOS – Galileo Applications for Port Operations

- Main Challenge: introduction of GNSS positioning technologies (EGNOS and future GALILEO services) in the multimodal freight transport user community.
- Main Requirements and Needs:
  - Availability of a positioning system, common for the various transport modes that allows precise and reliable freight localization and tracking during the journey.
  - Timely and complete information exchange among all involved actors, to enable the seamless, safe and secure transfer of goods from one mode to another.
  - Integration of reliable position information (Integrity information) for the tracking of dangerous and/or abnormal goods in the supply chain management.



**THANK YOU FOR YOUR ATTENTION!!**



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