b2mos
business to motorways of the sea

Strategia del porto di Livorno per i servizi innovativi

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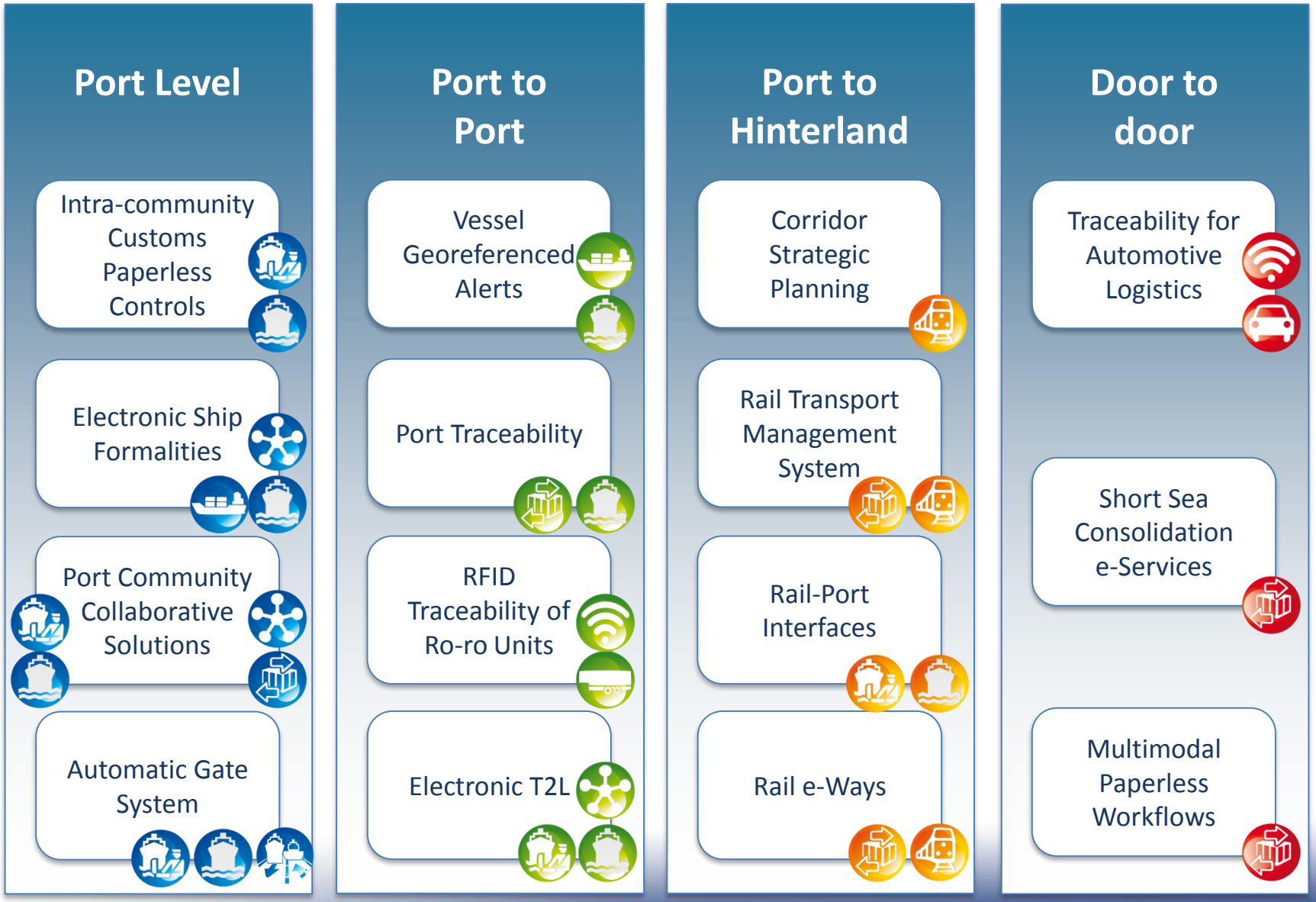
Co-financed by the European Union
Trans-European Transport Network (TEN-T)

Global project: Innovative services from the port towards integrated logistic chain



Concrete actions in direction of the global project

An overview of goals and actions

Initiatives b2mos business to motorways of the sea

Port Level

- Intra-community Customs Paperless Controls
- Electronic Ship Formalities
- Port Community Collaborative Solutions
- Automatic Gate System

Port to Port

- Vessel Georeferenced Alerts
- Port Traceability
- RFID Traceability of Ro-ro Units
- Electronic T2L

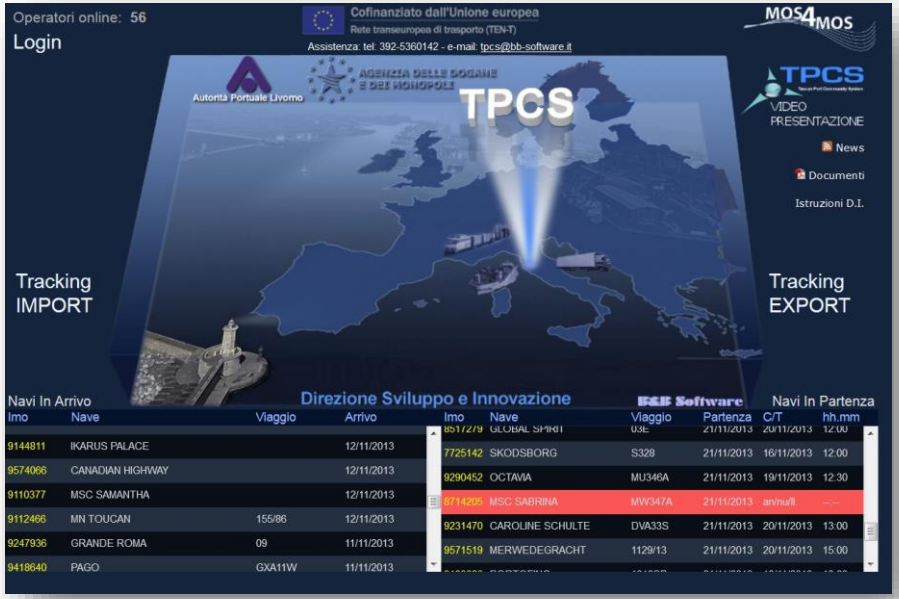
Port to Hinterland

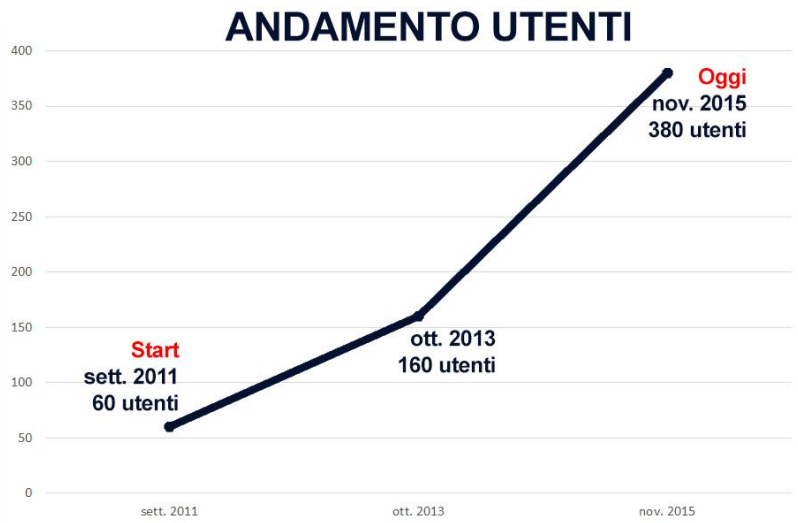
- Corridor Strategic Planning
- Rail Transport Management System
- Rail-Port Interfaces
- Rail e-Ways

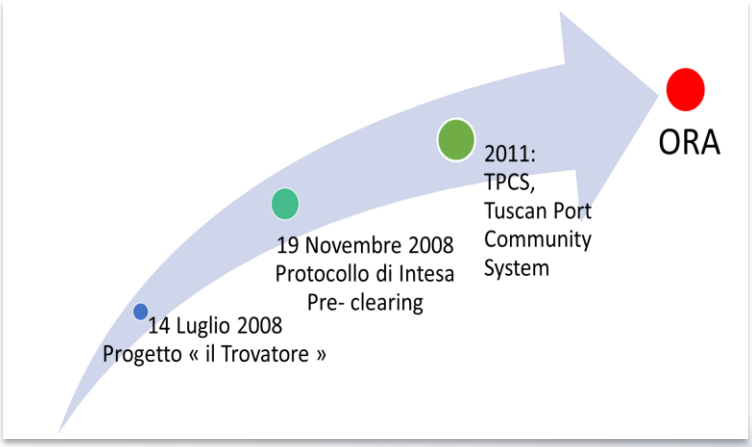
Door to door

- Traceability for Automotive Logistics
- Short Sea Consolidation e-Services
- Multimodal Paperless Workflows

A widespread innovative service: the TCPS







Tuscan Port Community System

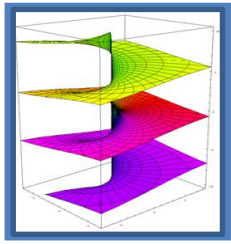
an efficient Port Community System:

- ✓ Free
- ✓ Compliant
- ✓ Reliable
- ✓ Complete

TPCS
Tuscan Port Community System

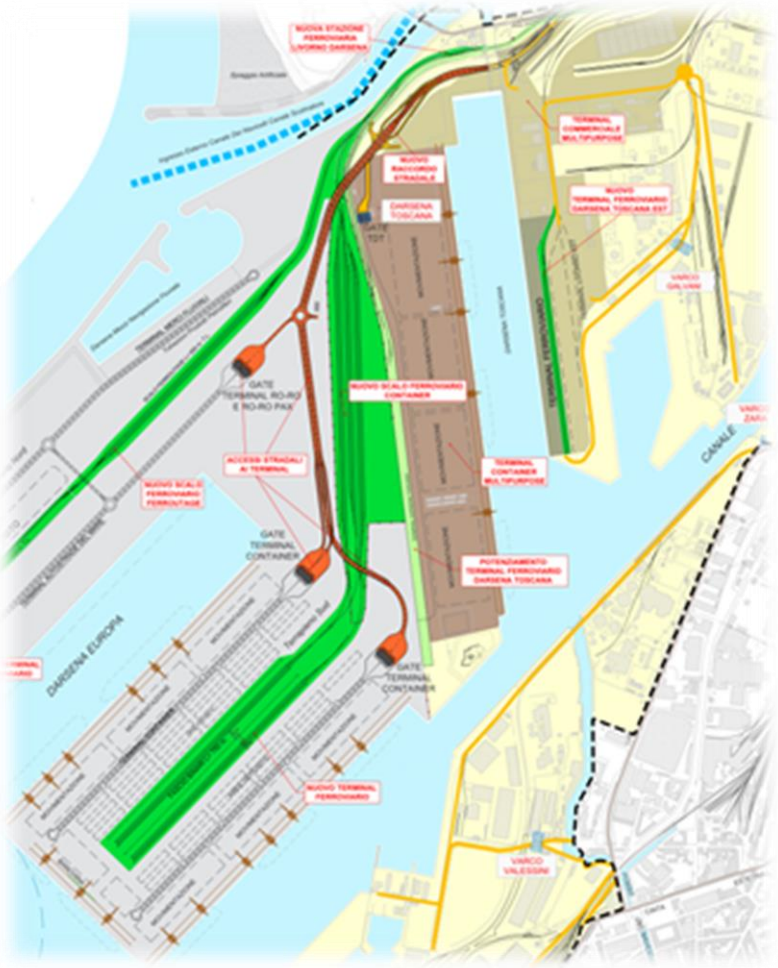
Tools and layers for a strategic port information system

Maximising the number and the type of information sources:

 SOURCE LEVEL	SCOPE	PROMOTED ICT ACTIONS
1 – Sensors and devices placed on-site	Monitoring	• Broad band, Connectivity • Sensors, cameras • Internet of Things (IoT)
2 - Middleware	Transforming, translating, connecting	MEDITRACK
3 –Specialized Information Systems	Managing and integrating complex processes	TPCS
4 –Information Systems Aggregators	Support for and Control Systems	MONICA
5 –Aggregating the Aggregators	Big Data Business Intelligence	???

The key pillars for developing ICT innovation

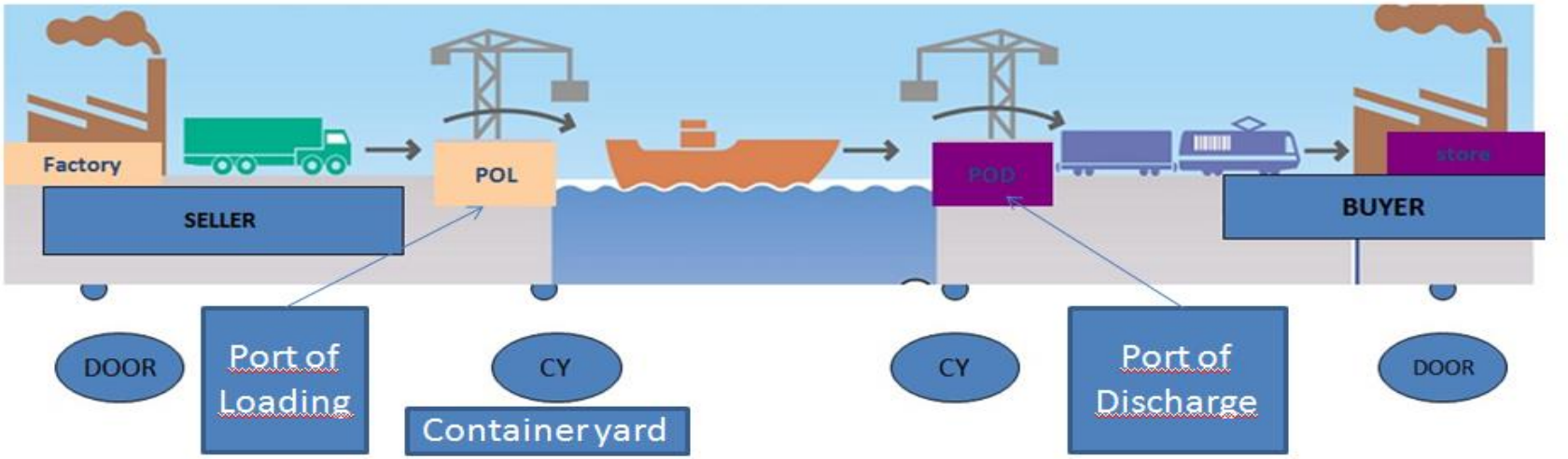
- ICT innovation on the Port of Livorno is a challenging activity:
  - for its “multi-purpose” nature
  - for the nature of “gateway”
  - for the undergoing infrastructure upgrade
- Needing to match usual corporate innovation requirements:
  - exploiting what has already been done;
  - featuring legacy capabilities while innovating.



The key pillars for developing ICT innovation

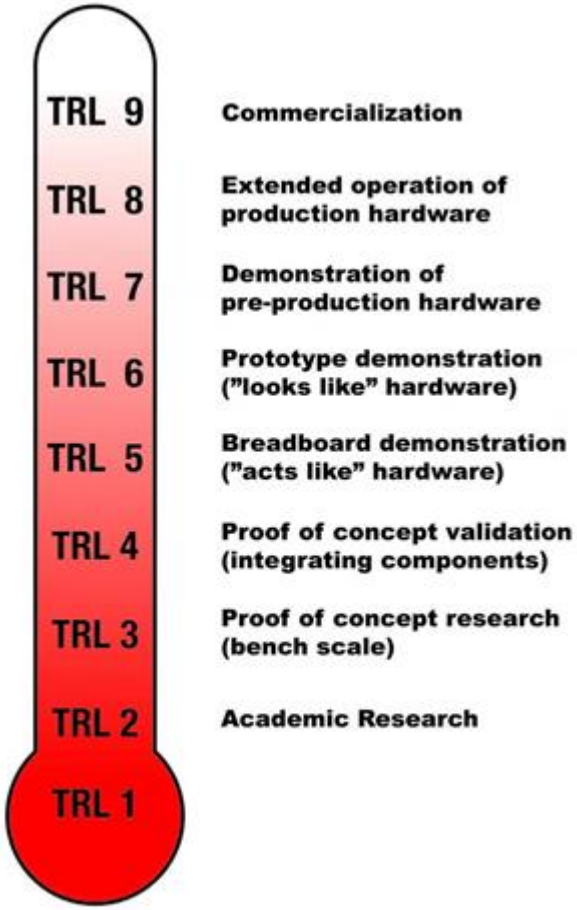
- A multi-purpose gateway port featuring sustainable growth:
  - commits to harmonize and integrate data sources, information systems, and service portals.

- While:
  - relying on a fair / loyal community;
  - with the ambition of setting up consolidated corridor-wide wealth and business.



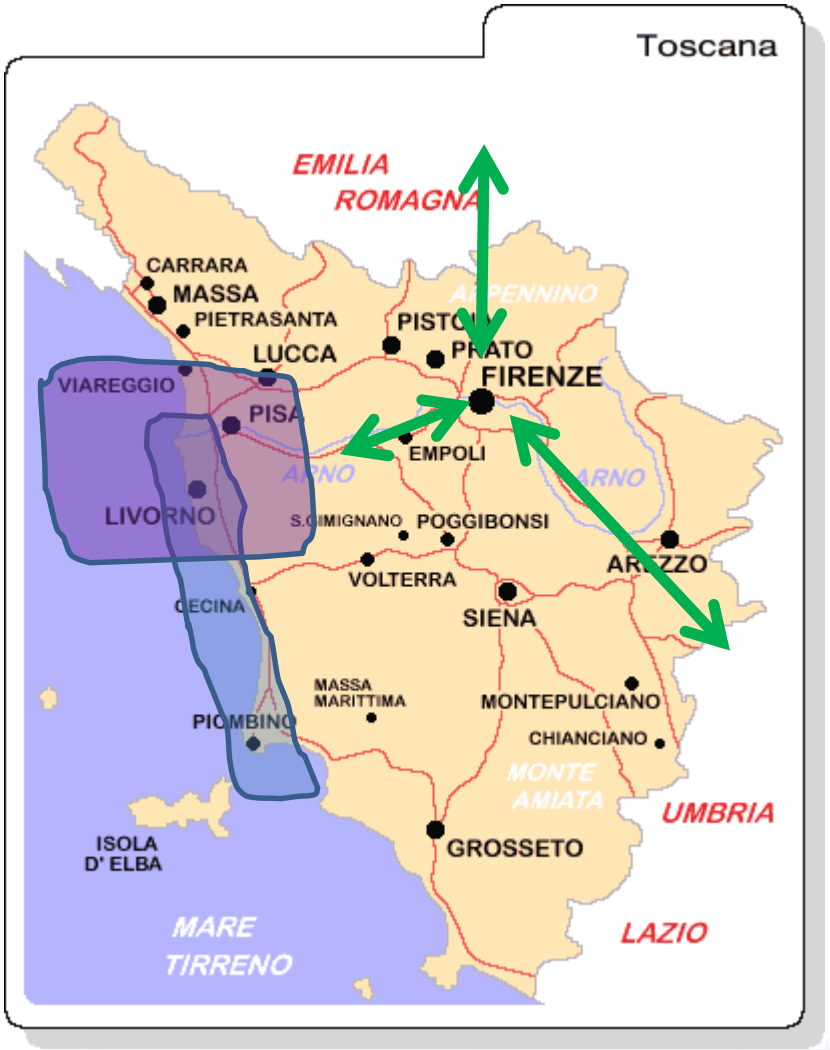
From Research to Market

- The target is that of connecting Livorno to other nodes in the (corridor-wide) supply chain. We need:
  - to acquire credibility;
  - to offer valuable assets to key partners;
- Researchers are asked to:
  - learn, interact, propose, realize.



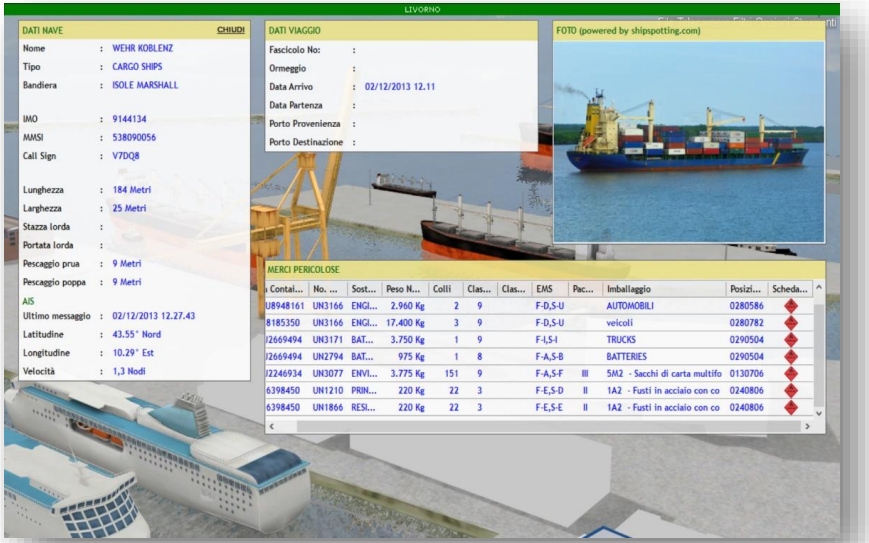
«Cloud of Ports» a new concept of integration

- Using the Port as the «catalyst» of regional innovation;
- Functionally integrating Piombino and Livorno services in the spirit of «Cloud of Ports»
  - innovating on the procedures for managing and controlling logistic processes
  - following best-in-class examples and standards
- Integrating the transport modes in the vast coast area
  - to improve on the competitiveness on the main transport links.

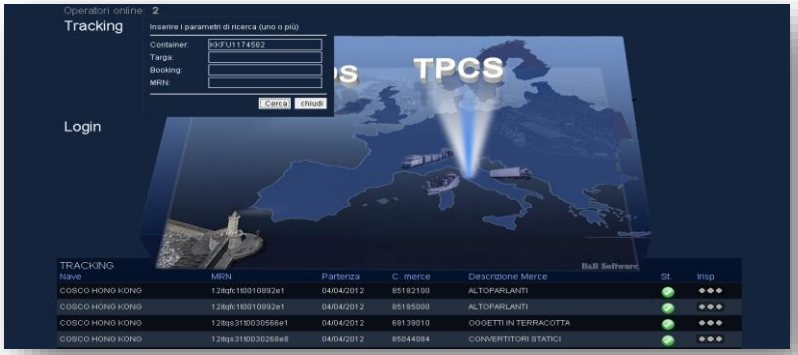


CSI Livorno: centre for innovative services

- Upgrading our information systems:



- By featuring M2M and ITS ready capabilities
- Setting up a Service and Control Room:
  - once we are operational



GRAZIE PER L'ATTENZIONE

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