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The Role of the Infrastructure Investments in the New EU Road Mobility Package

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**Automated control of transport corridors in UIRNet
Project for Customs management**

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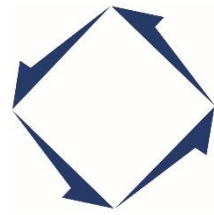
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Foreword

- Custom management processes are designed to provide a high security level for all aspects and phases of the control of transported goods, including integrity of containers and non-accessibility to storage areas.
- Typically, the movement of goods, coming to and going out of a customs area, is subject to long waiting times, due to documents checking, keeping containers secure and issuing all transportation permits and transit authorizations, while timing remains a serious issue in transportation.
- The need to move goods to final warehouse via motorways and pre-definite routes is to be also considered
- The CCD solution, Automated control of transport corridors within UIRNet Digital Logistics Platform is a way to respond to the above needs.

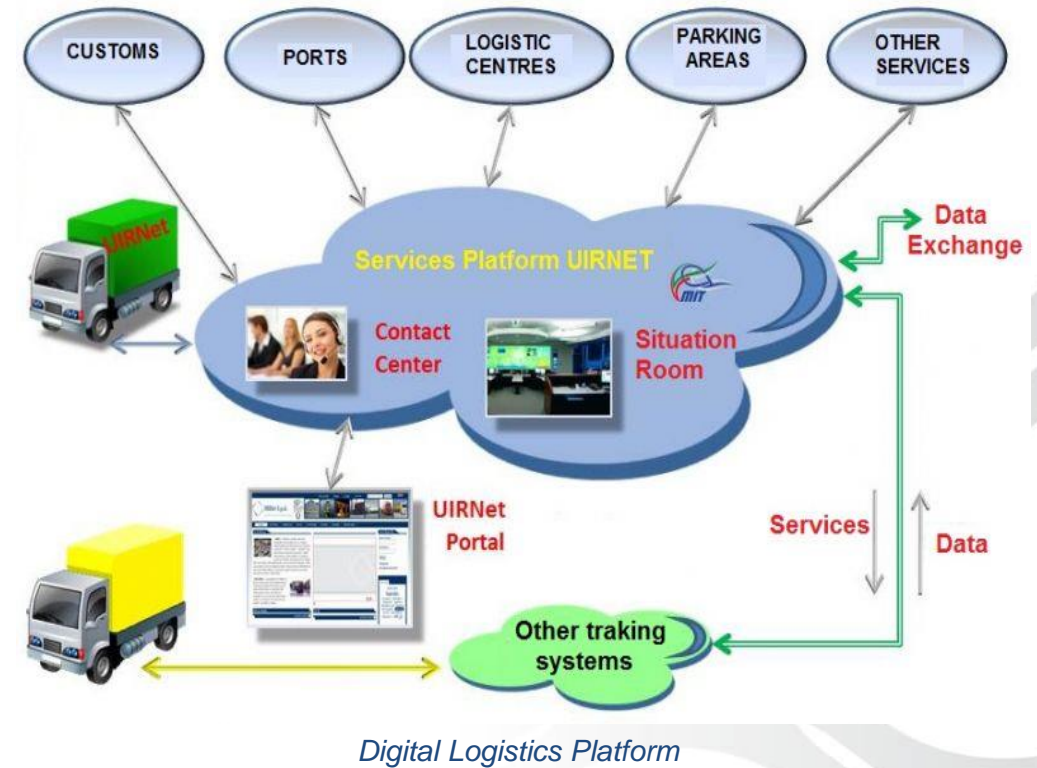
What is



UIRNet S.p.A.

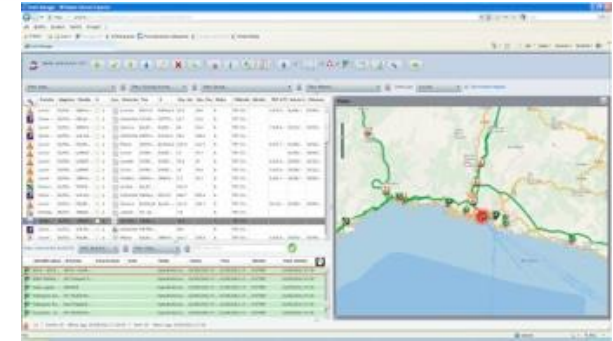
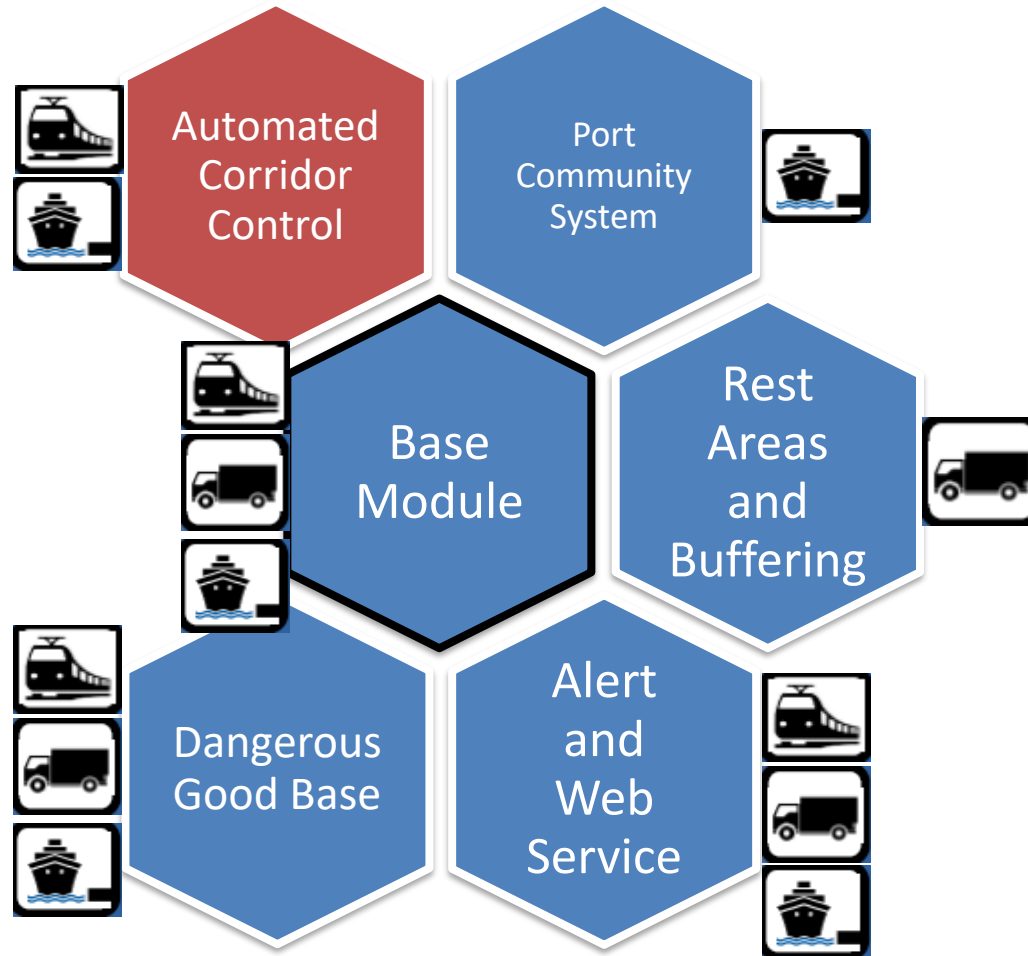
SISTEMA NAZIONALE DELLA LOGISTICA INTEGRATA E INTERMODALITÀ

- **UIRNet** is the entity of the Italian Ministry of Infrastructure and Transport devoted to link the complex world of transport and logistics in a simple way.
- UIRNet's shareholders are the most important actors in the field of transport, logistics and freight mobility in Italy.
- UIRNet has implemented the Digital Logistics Platform for integrated logistics and intermodal transport in Italy; it is an open and modular IT platform capable of integrating service and content providers for the purpose of managing logistics and freight.
- the aim of the platform is providing various services through the interaction of the various players involved.



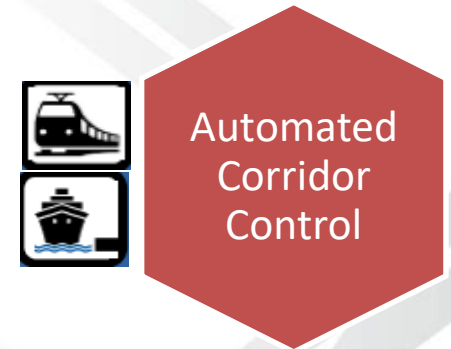
The Italian Digital Logistics Platform

The Digital Logistics Platform is an open platform made with the following components:



Automated control of transport corridors “CCD”

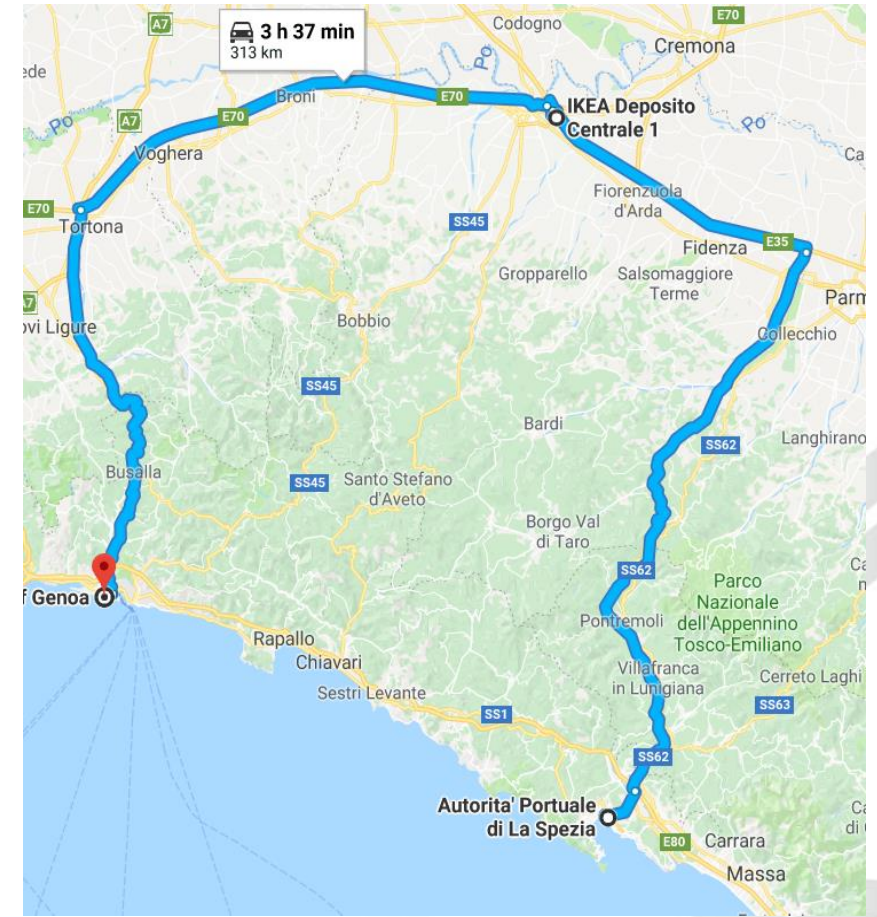
- The Automated control of transport corridors “CCD” is an automated solution to manage the transport of containers and carry out customs duties from the arrival to the harbor up to the secure storage at dedicated, controlled warehouses including electronic document handling, permits preparation and revision even in an Authorized Economic Operator.
- The process starts with the electronic acquisition of all documents by the harbor operator and customs agent, before the shipment physically docks or arrives to the customs area. This allows to slim down the arrival process and avoid queues or delays at local offices.
- Since the consequent objective is to ensure the correct transportation of goods toward the designated Secure Warehouse, the system tracks vehicles by the use of duly equipped with satellite-based On Board Units.
- To date, there are 15 customs corridors (2 inspection-only and 13 of import) both on a mono-modal (road) and on multi-modal basis (rail/road)



GNSS On Board Unit

Use case – From ports to IKEA warehouse in Piacenza

- By means of GNSS-based On Board Units, it is possible to monitor in real time not only that the goods reach the correct destination, but also that the pre-definite route is travelled without irregular behavior, such as stops and detours, which may be the result of tampering or unduly removing of the goods transported .
- As an example, the CCD system is currently used to safely track containers from the harbors of Genova and La Spezia to the IKEA warehouse in Piacenza (“very long quay”) by fully digitally interconnecting:
 - the logistics platform of IKEA in Piacenza,
 - the UIRNet Digital Logistics Platform – PCS module
 - Italian Customs
 - Various freight forwarders



Routes from Genoa and La Spezia to Piacenza

Strenghts and conclusions

- Strenghts of CCD solution:
 - reduction of processing time and complexity of the documentation to be provided
 - complete monitoring of the operations
 - alert management which consent ordinary opearation without the use of other technology
 - service usable by any stakeholder with low impact via Internet (e.g. App)
- The automation of goods transportation has become a primary goal in most companies' business and has achieved extremely good reception among specialized operators, especially in the first solution, the CCD automated control of transport corridors, proposed to the Italian market.
- CCD, although conceived for the Italian customs and port authorities, can be easily used to other countries' environment.
- The CCD solution will constitute an important step forward into a process of improvement to be pursued and continued in the near future.

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