



# **New EU funding opportunities; Corridor Management, Gate Automation & Intermodal Optimisation**

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# Agenda

Intermodal & logistics corridor

D.65 & New Customs Code

Need of a CMP

CMP as extension of PCS and connection to EU corridors and platform

Monitored customs corridor

New needs, opportunities and services

New EU funding opportunity

# Intermodal & logistics corridor

## The Traditional Concept

remove bottlenecks

cross-border connections

modal integration and interoperability

multi-modal core network:  
TEN-T & TAR

enhancing safety

green fuel & environmental protection

integrating urban areas into the core network

technologies evolution & telematics applications

## The New Concept

# Intermodal & logistics corridor

The Traditional Concept

remove bottlenecks

cross-border connections

modal integration and interoperability

The New Concept

multi-modal core network:  
TEN-T & TAR

enhancing safety

integrating urban areas into the core network

green fuel & environmental protection

technologies evolution & telematics applications

# D.65 & New Customs Code

STRUCTURED

INDIVIDUAL DATA ELEMENTS / «relevant part of the information»

→ **Structured Format**

ONLY ONCE

ONLY ONCE as «Individual Data Elements»; data from/to LEGAL SYSTEMS; additional data may be needed according to national/international legislation

→ «**Integration**»

SPOC

Single Point of Contact (SPOC) to be interfaced/integrated with National Administrations

→ **which data to whom + national reconciliation**

B2A & B2B

Use of B2A information (under privacy clause) to improve B2B processes (e.g. waste disposal)

→ **SPOC also dealing with B2B**

Irrespective from  
FLAG

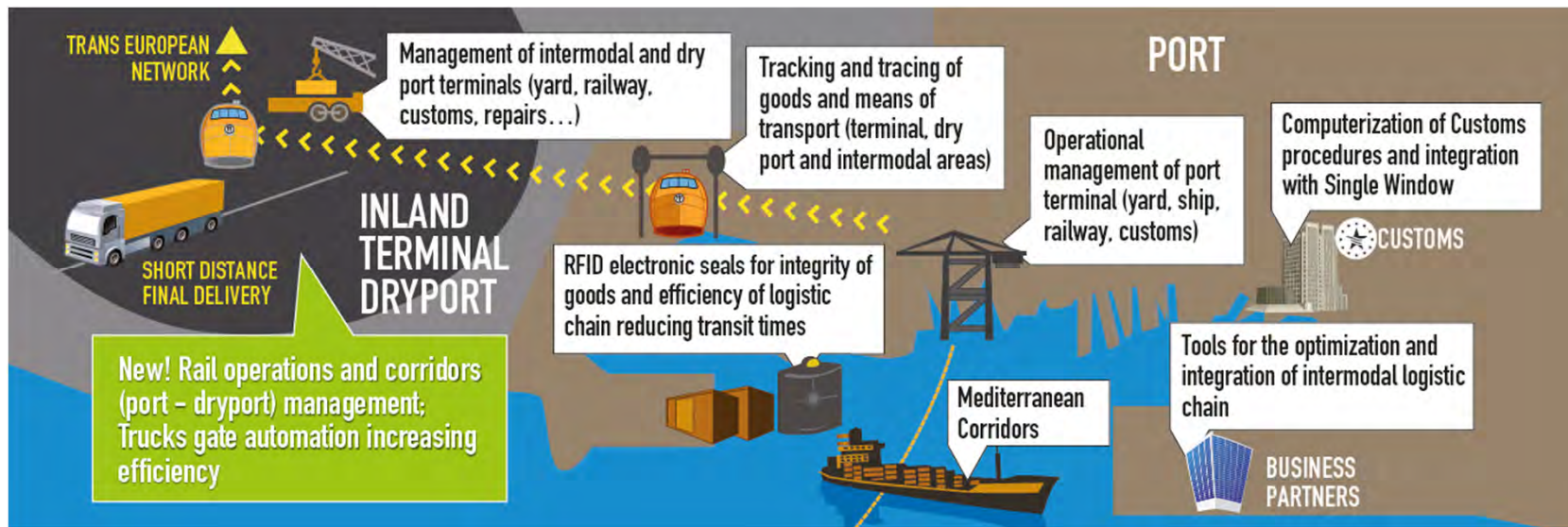
From 1.6.2015 all ship (irrespective from their FLAG) have to comply

→ **international conciliation**

# The need of Corridor Management Platform

Interoperability

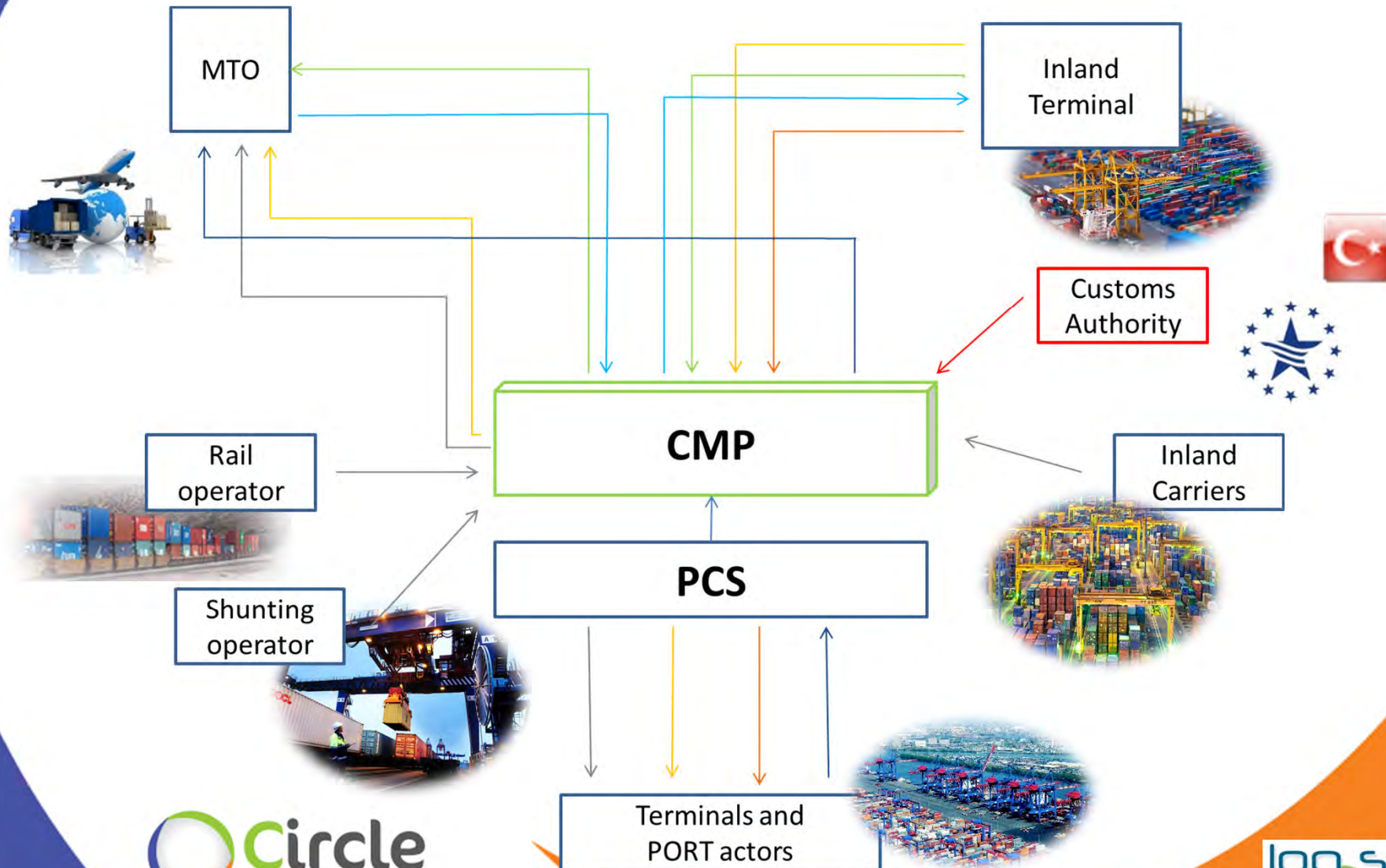
Tracking & Tracing



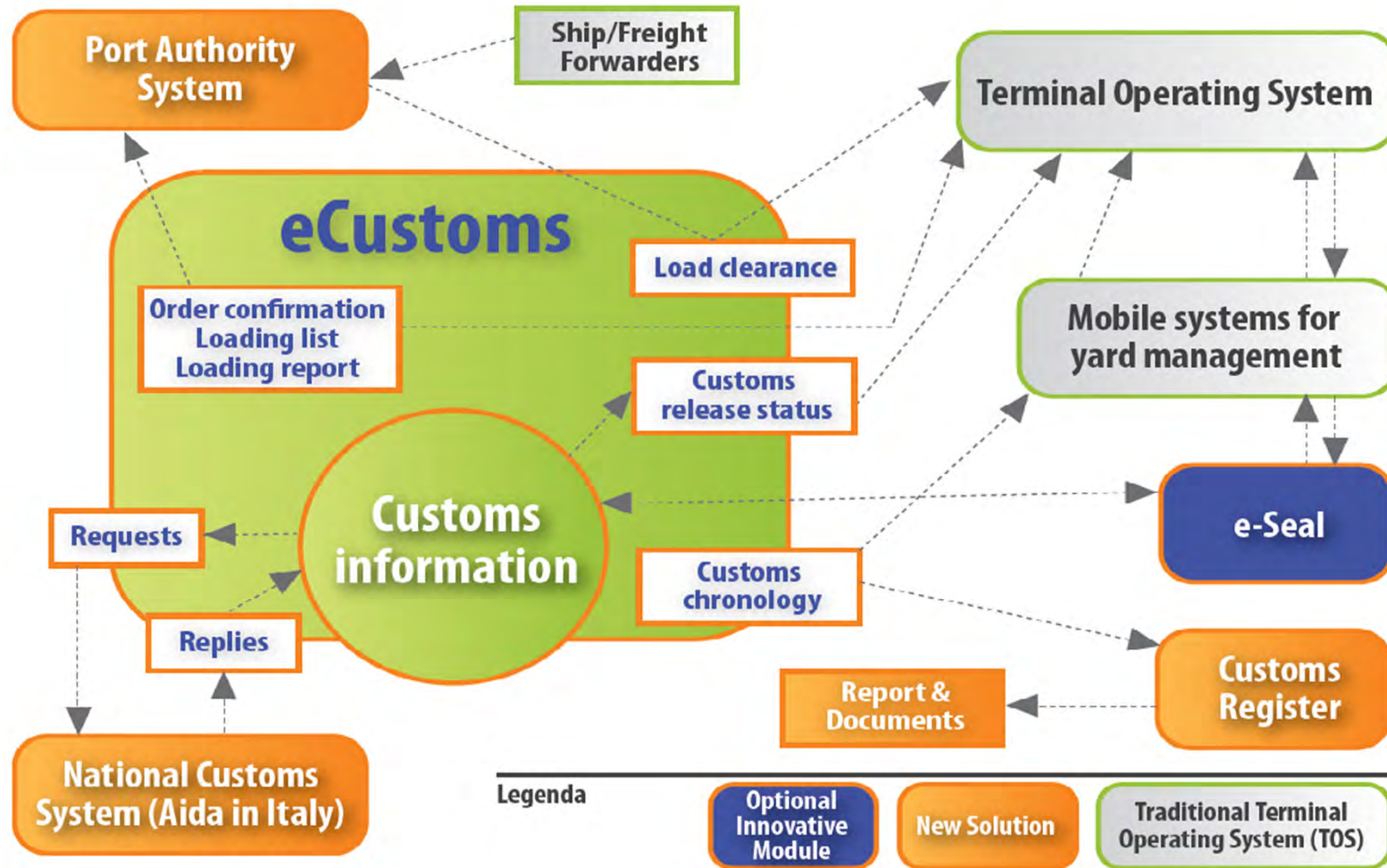
PLN Evolution

Customs Evolution

# CMP as extension of PCS and connection to corridors and platform



# eCustoms (connector)





# Monitored Customs corridors

## Digitalization of formal procedures

(electronic transmission of information standard and by rationalising reporting formalities)

## New customs code

(electronic declarations and electronic data exchange between customs administrations)

## New role for the Authorised Economic Operator

## Integration

(automation of the information flow between the different players involved)

## Pursuit of operational efficiency and reduction of transit time

# Successful case: Genoa Fast Corridor Project



**Dry Port**



**Rail Transport**

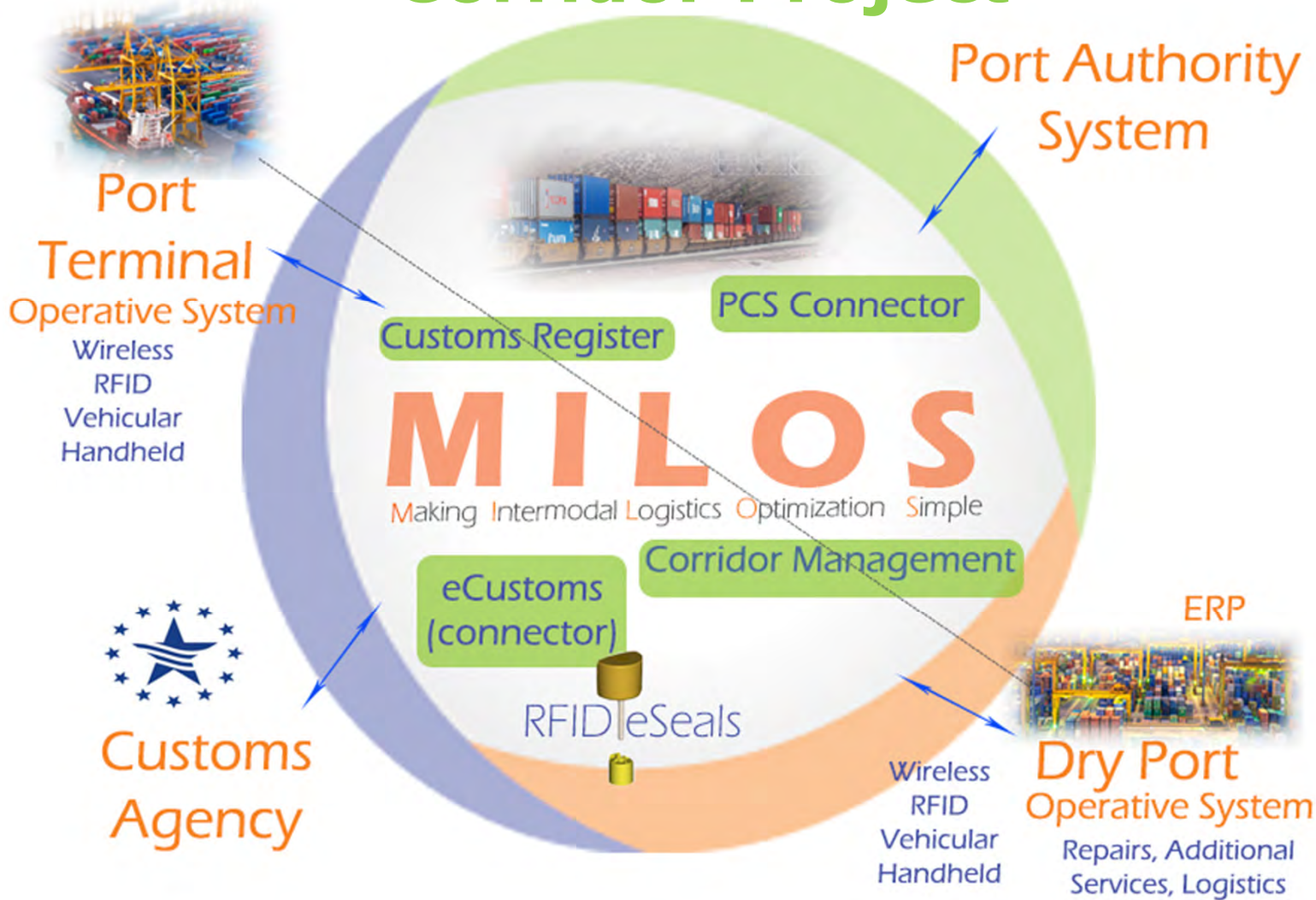


**Port**



**Terminals**

# Successful case: Genoa Fast Corridor Project



# Sucessful case: Genoa Fast Corridor Project

## Port Terminal Operative System

**Terminal San Giorgio** RFID eSEALS TRACKING & TRACING eCUSTOMS

BENVENUTO: admin Sede selezionata: TSG Modifica profilo: Home Logout

T&T | ECustoms | Eseals | SysAdmin | External flows

Cruscotto eventi Input Diretto Configurazione Posizione mezzi

Lista treno

Ricerca

codice viaggio: Container: Stato Messaggio: Chiuso da data: a data Filtra

Risultati ricerca

codice viaggio	partenza	destinazione	stato lista	etd	eta	data chiusura	atd	ata
01082013	RTT	TSG	closed	01/08/2013 17:00	01/08/2013 16:00			01/08/2013 07:40

## Dry Port Terminal Operative System

**RIVALTA TERMINAL EUROPA** RFID eSEALS TRACKING & TRACING eCUSTOMS

BENVENUTO: sys Sede selezionata: Modifica profilo: Home Logout

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## Train List Import

**RIVALTA TERMINAL EUROPA** RFID eSEALS TRACKING & TRACING eCUSTOMS

BENVENUTO: sys Sede selezionata: Modifica profilo: Home Logout

T&T | ECustoms | Eseals | SysAdmin | External flows

Cruscotto eventi Input Diretto Configurazione Posizione mezzi

Lista treno

Ricerca

codice viaggio: Container: Stato Messaggio: Aperto da data: a data Filtra

Risultati ricerca

codice viaggio	partenza	destinazione	stato lista	etd	eta	data chiusura	atd	ata	stato container	Container type	Full/Empty	Stato dogana	Codice veicolo
01082013	TSG	rtt	closed	01/08/2013 17:00	01/08/2013 16:00			01/08/2013 07:40					

## Customs Informations

**Terminal San Giorgio** RFID eSEALS TRACKING & TRACING eCUSTOMS

BENVENUTO: admin Sede selezionata: TSG Modifica profilo: Home Logout

T&T | eCustoms | eSeals | SysAdmin | External flows

Dialoghi con AIDA Documenti Configurazione

Home > Lista Lista Richieste > Inserimento Manifesti merci in arrivo

Tipo Messaggio

- 1 - Manifesti merci in arrivo
- 2 - Carichi A3 da MMA
- 3 - Scarichi A3
- 4 - Carichi A3 extra MMA
- 5 - Stato A3
- 6 - MRN imbarcabili
- A - Risultato sbarco/imbarco
- B - Richieste trasferimento A3
- C - Arrivi da trasferimento A3

Manifesto in arrivo

1DE0 Richiedente 01425220991 - 001

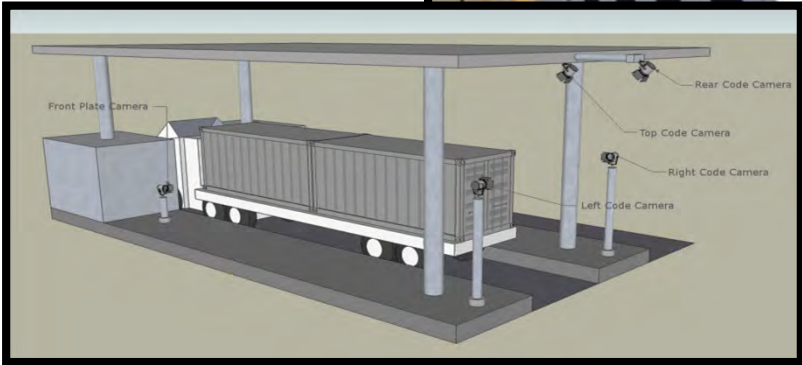
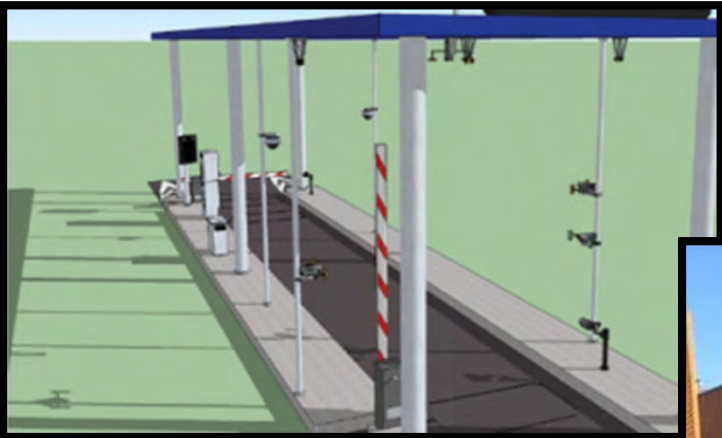
Magazzino 000027-Terminal San Giorgio Dalla data di registrazione 13072011 Alla data di registrazione 13072011

Data di arrivo Dalle ore Alle ore

Dogana Manifesto 069102-Genova Porto Nuovo Tipo ManifestoA

Salva in C:\Program Files\FirmaVerifica 2.2\dafirmare Salva

# Gate Automation



# Gate Automation: Port Case

*Port Community System as information hub;*

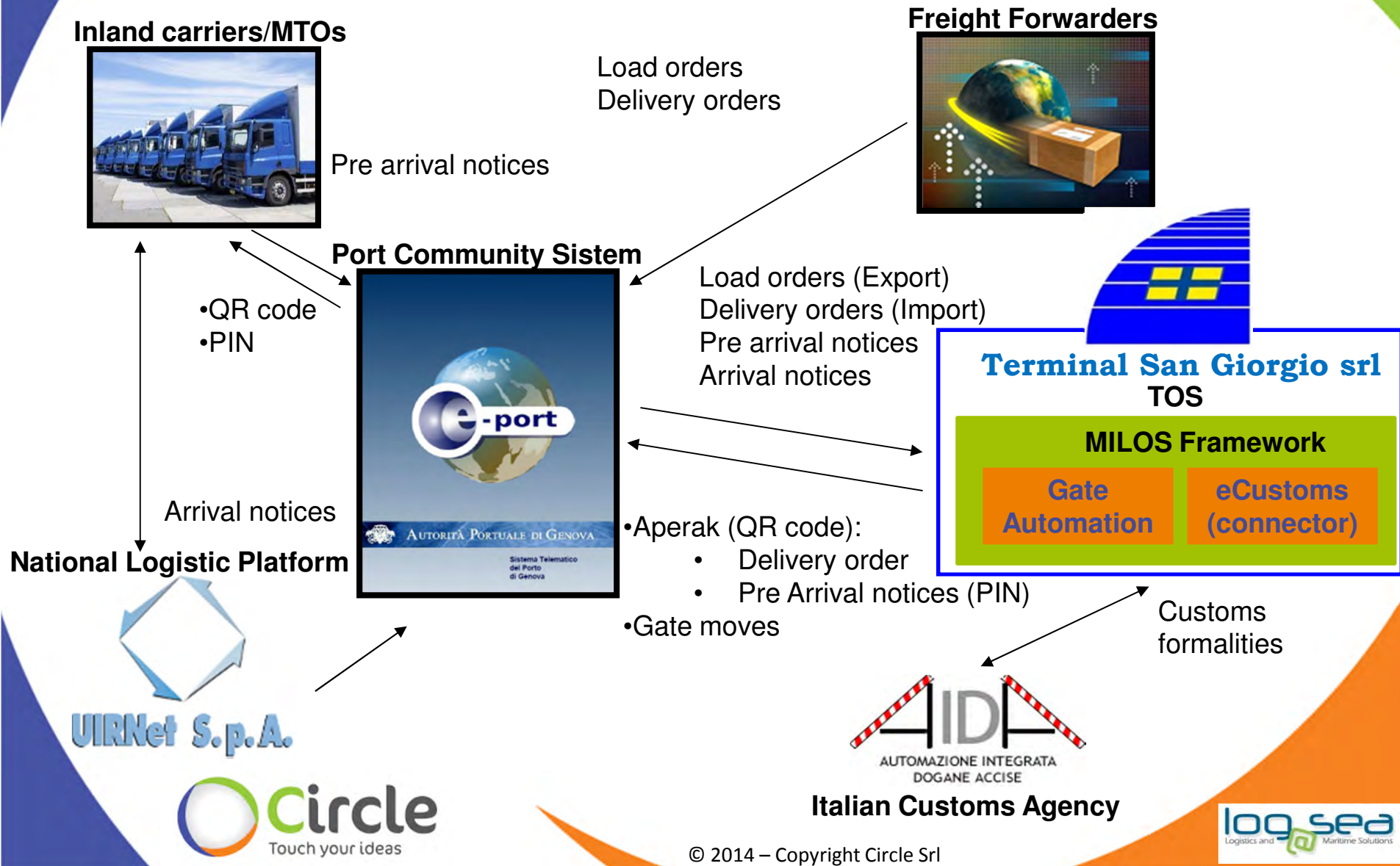
*Information exchange "in back ground" with .xml files*

**Gate Automation technologies, developed by Aitek natively integrated with MILOS:**

- cameras;
- OCR;
- optical barriers;
- inductive loops;
- RFID gates strategically located around the lanes.



# Port case: information flow







# Inland case

*MILOS as information hub;*

*Information exchange "in back ground", with .xml files, and through GUI;*

**Gate Automation technologies,**  
developed by Uirnet the Italian National Logistic Platform:

- *cameras*
  - *OCR*
- *optical barriers*
- *inductive loops*



# Inland case: information flow

National Logistic Platform



Italian Customs Agency



Inland carriers/MTOs



Arrival notices  
Opening Mission

Closing Mission  
Modify Mission

Customs formalities

Freight Forwarders



Delivery orders

Pre arrival notices

Aperak  
Pre arrival notices

MILOS Framework

Gate Automation

eCustoms  
(connector)



TOS



Aperak:  
• Delivery orders

# Inland case: information flow

MILOS: information acquisition

MILOS GUI: information acquisition

Pre arrival

```

<?xml version="1.0" encoding="UTF-8" ?>
<RFIDeSEALS TRACKING & TRACING eCUSTOMS ?>
  <Header>
    <CompanyCode>26</CompanyCode>
    <IssueDate>2014-06-18T15:00:39</IssueDate>
    <Sender>VILLANOVA S.p.A.</Sender>
    <Receiver>01700360157</Receiver>
    <TerminalName>San Giorgio</TerminalName>
    <TerminalPIVA>0142525991</TerminalPIVA>
    <TruckVoyage>
      <VoyageID>1112801</VoyageID>
      <Chauffeur>VILLANOVA S.p.A.</Chauffeur>
      <ChauffeurPIVA>001861005</ChauffeurPIVA>
      <ArrivalDate>2013-11-22T10:00:00</ArrivalDate>
      <ArrivalPeriod>PM</ArrivalPeriod>
      <TruckLicensePlate>DW207HM</TruckLicensePlate>
    </TruckVoyage>
    <Driver>
      <FirstName>CARLO</FirstName>
      <LastName>ANNUNZIATA</LastName>
      <DrivingLicense>TG6744248F</DrivingLicense>
      <SpouseName>00000000</SpouseName>
      <ComponentType>Driver</ComponentType>
    </Driver>
    <ComponentType>TruckVoyage</ComponentType>
  </Header>
  <ContainerList>
    <ShipVoyage>
      <VoyageID>004M</VoyageID>
      <ShipName>M UPSBONDUC</ShipName>
      <ShipCallSign>I9LJKR</ShipCallSign>
      <Shipowner>ARRAS</Shipowner>
      <ShipownerBLCode>ARR</ShipownerBLCode>
      <Area>013-08-18T00:00:00</Area>
      <PortOfDeparture>RAGBSTR06</PortOfDeparture>
      <PortOfArrival>GBR0A</PortOfArrival>
      <PortOfArrivalCode>IT90A</PortOfArrivalCode>
    </ShipVoyage>
  </ContainerList>
</RFIDeSEALS TRACKING & TRACING eCUSTOMS ?>
  
```

RFID eSEALS TRACKING & TRACING eCUSTOMS

Home T&T ECustoms Esels SysAdmin External flows Gate

Configurazione Dialogo con EPort

Lista preavvisi

Ricerca

Risposta: 0 - acquisizione avvenuta regolamento

Container: Data da: 18/06/2013 Data fine:

Risultati ricerca

Risposta	Data arrivo	Fascia oraria	Audit	Compagnia	Note	Lavoro	Cont
0	17/04/2014 00:00 AM	CASTROVINCI MAURIZIO	AUTOSPED	unloading	LUGH1406183		
0	16/04/2014 00:00 PM	ALBINI MARCO	AUTOSPED	unloading	LUGH1406183		
0	16/04/2014 00:00 PM	ALBINI MARCO	AUTOSPED	unloading	LUGH1406183		
0	17/03/2014 00:00 AM	STAN VASILE	VILLANOVA	unloading	ARKU256		
0	12/03/2014 00:00 AM	FRANZOLIN DAVIDE	AUTOSPED	unloading	ARKU256		
0	12/03/2014 00:00 AM	CASTROVINCI MAURIZIO	AUTOSPED	unloading	ARKU256		
0	12/03/2014 00:00 AM	ALBINI MARCO	AUTOSPED	unloading	ARKU839		
0	12/03/2014 00:00 AM	ALBINI MARCO	AUTOSPED	unloading	ARKU839		
0	04/12/2013 00:00 AM	TEST TEST	VILLANOVA	Audit non codificato in STEP11	unloading	LUGH1331	
0	04/12/2013 00:00 AM	ANNUNZIATA CARLO	VILLANOVA	unloading	LUGH1331		

RFID eSEALS TRACKING & TRACING eCUSTOMS

MILOS

T&T ECustoms Esels SysAdmin External flows Invoicing Gate

Configurazione Dialogo con EPort Connettore file Tag RFID Custom register

Nuovo Preavviso d'arrivo

Preavviso

Terza DW207HM

Data arrivo 18/06/2014 Fassa oraria EV (12-18)

Azienda Trasporto VILLANOVA Azda ANNUNZIATA CARLO

Consegna 1

Full/Empty FULL ISO Code 22G1-2F DRY VAN Container LUGH1406183

Booking B1402

Consegna 2

Full/Empty Selezione ISO Code Selezione Container

Booking

Ritiro 1

Full/Empty Selezione ISO Code Selezione Container

Booking Delivery order

Ritiro 2

Full/Empty Selezione ISO Code Selezione Container

Booking Delivery order

OCR information detection

STEP - Gate Operation Wizard (Terminal Entry)

Terminal Entry

1. Gate In

2. Confirm Moves

3. EIR

Lane

Driver ANNUNZIATA CARLO

Driver License TG6744248F

Trucking Company VILLANOVA

Truck License Plate DW207HM

Delivery Plate

In Out

Enter number

Overwrite

MILOS: information import inside the TOS

Gate

Line	ETA	ATA	Owner	License Plate	Trucking Company	Status
1	18-06-2014 16:50		ANNUNZIATA CARLO	DW207HM	VILLANOVA	Arrival

STEP - Gate Operation Wizard (Terminal entry)

Gate In - LUGH 140618 3

Terminal Entry

1. Gate In (LUGH 140618 3)

- Seals

- Damages

2. Confirm Moves

3. EIR

Unit Number LUGH1406183 22G1

Full / Empty Full

Move Full In

Operator ARKAS ITALIA S.R.L.

Booking B14061

SiteType 22G1

Voyage

SPOD / POD

Gross Weight 14.000 Kg.

Traffic Type Export

Damage

IMDG

BEFFI

COG

Show / Change Booking Details

< Back Next > Cancel



# New solutions opportunities and services

Real time T&T:

**Customers satisfaction**

Customs automation:

**Simplification & security**

Gate Automation:

**Speed up operations**

Logistic chain integration:

**Automation &  
Real time information exchange**

**Tracking and tracing**

basic position and container status

**RFID  
eSeal**

**Security**

opening or tampering status, with history events

**Safety**

monitor the risk before and during the trip

**Simplification**

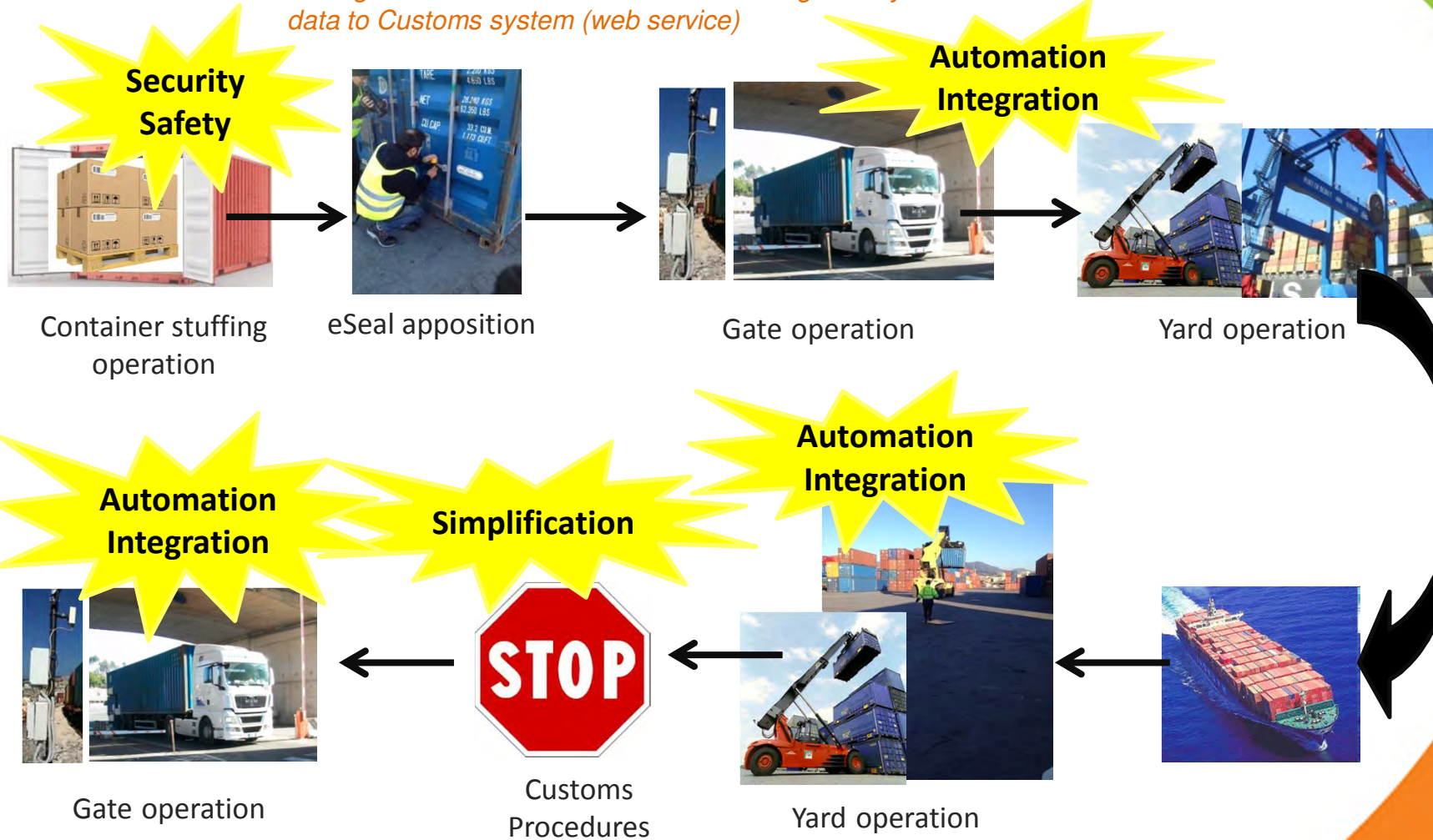
streamline the information flow, the Customs procedures..



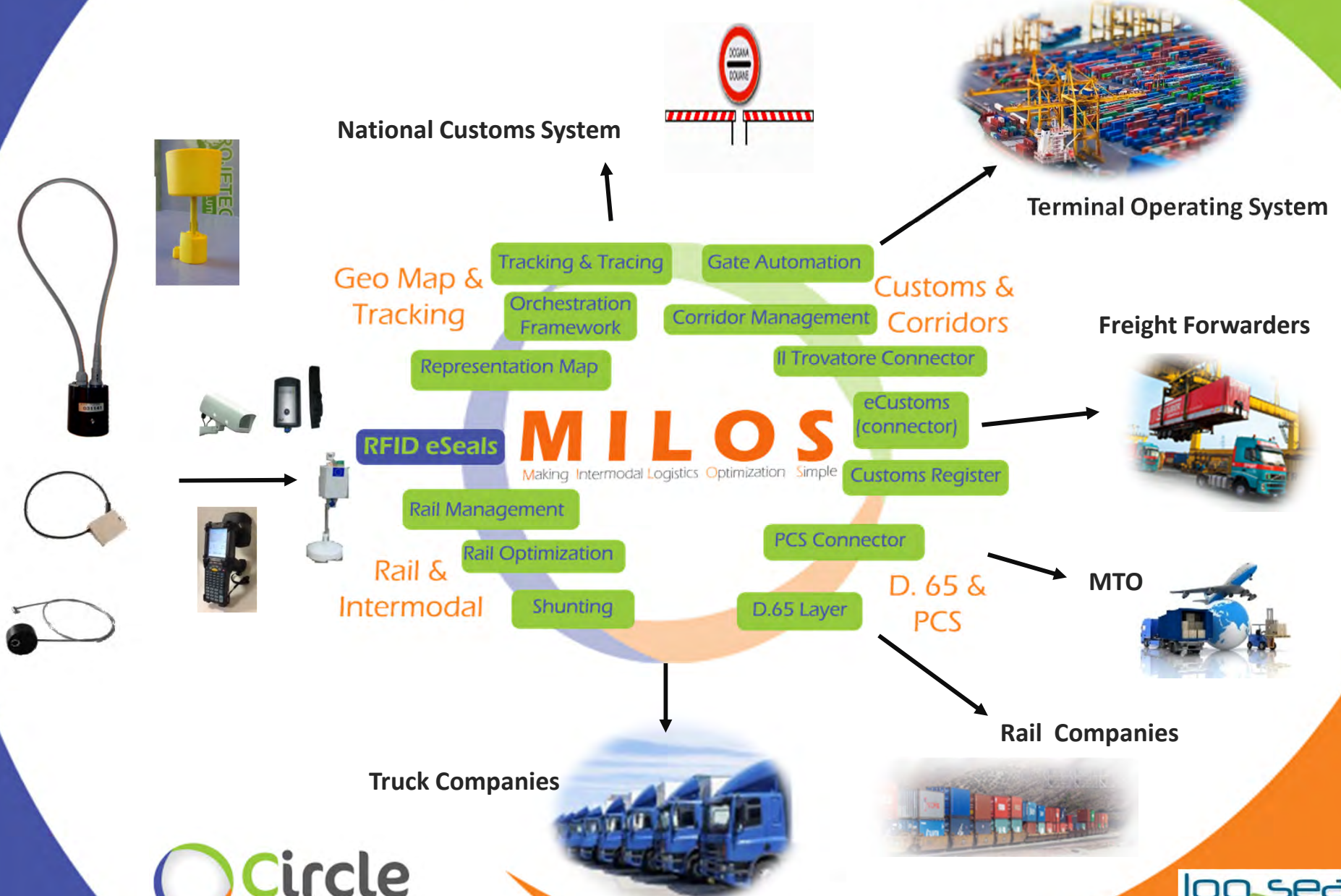
**Active RFID  
seal  
JRC compliant**

# eSeals additional simplification

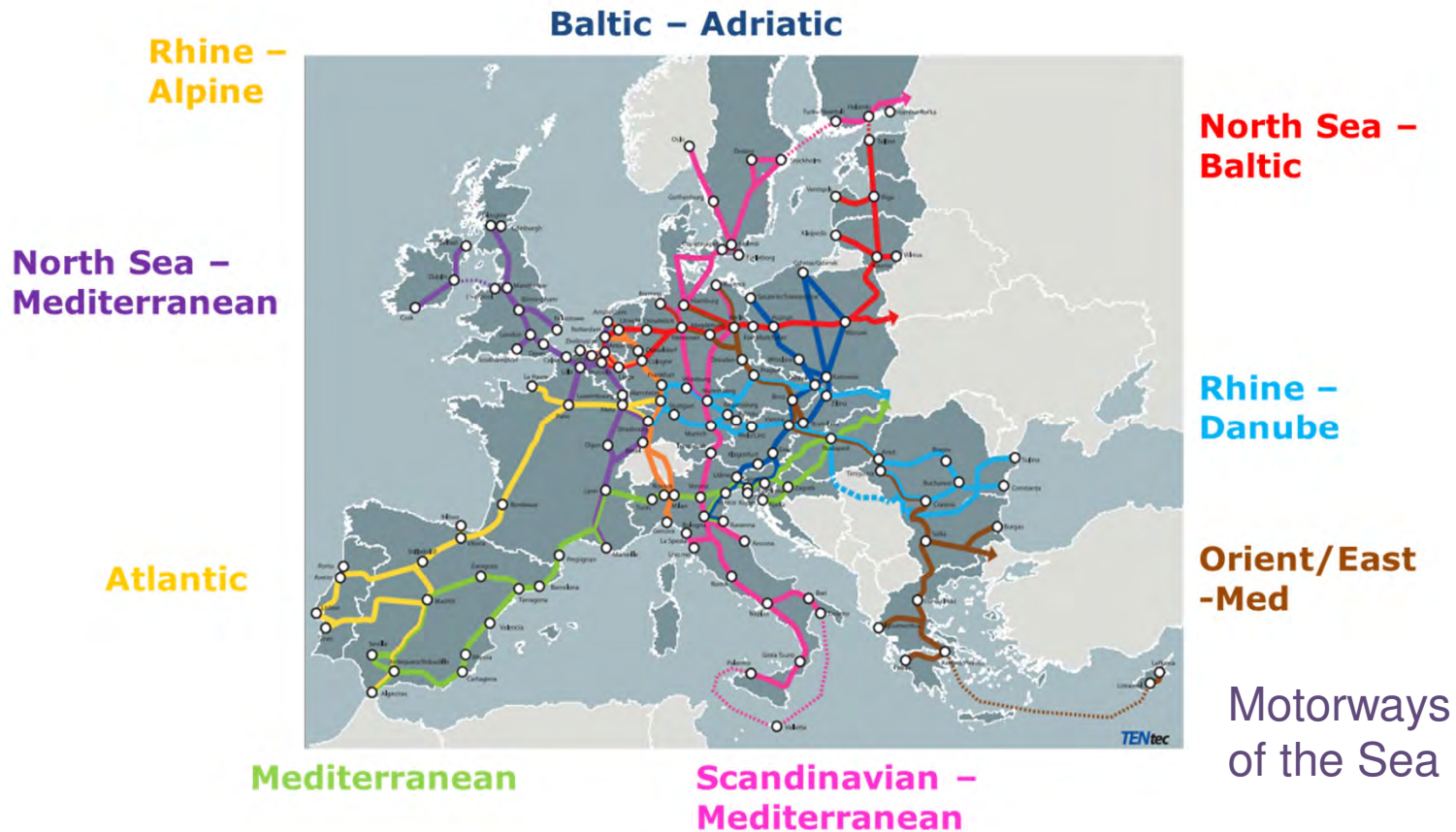
*In test phase, this could be managed in arrival port terminal renting them a mobile handheld and sending directly data to Customs system (web service)*



# Platform Overview



# European corridors



**More integrated infrastructure planning, consistent investment strategies and efficient EU funding** will be possible in 2014-2020 under the new **TEN-T guidelines** and the related Connecting Europe Facility Funding Scheme.

# Danube Transnational Programme 2014-2020

The programme intends to support the regional connectivity to the TEN-T network (using COFUNDED instruments)

Danube Region



INTERREG B cooperation area 2014-2020

Source: European Commission,  
as proposed on 18th December 2012  
Geometrical basis: GFK MACON

need to establish an innovative and sustainable mobility system within a transnational common vision on transport;

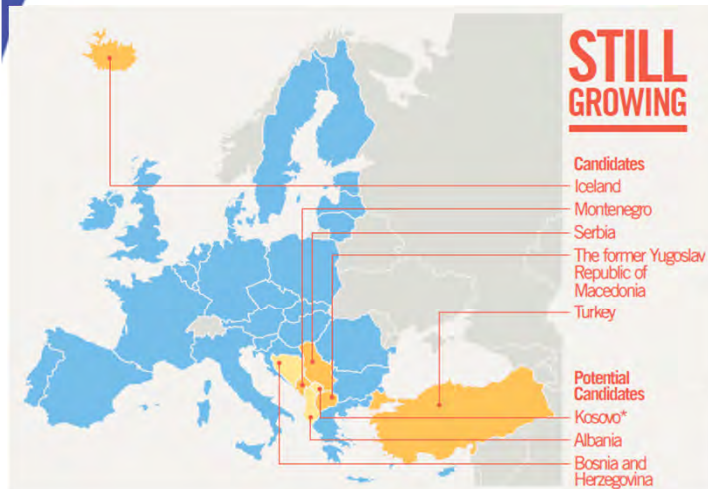
strategic management level for increasing the transport efficiency

developing efficient multi-modal networks



# IPA 2014-2020

With Instrument for Pre-accession Assistance (IPA) EU supports reforms in the 'enlargement countries' with financial and technical help



EN

Official Journal of the European Union

L 77/11

REGULATION (EU) No 231/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

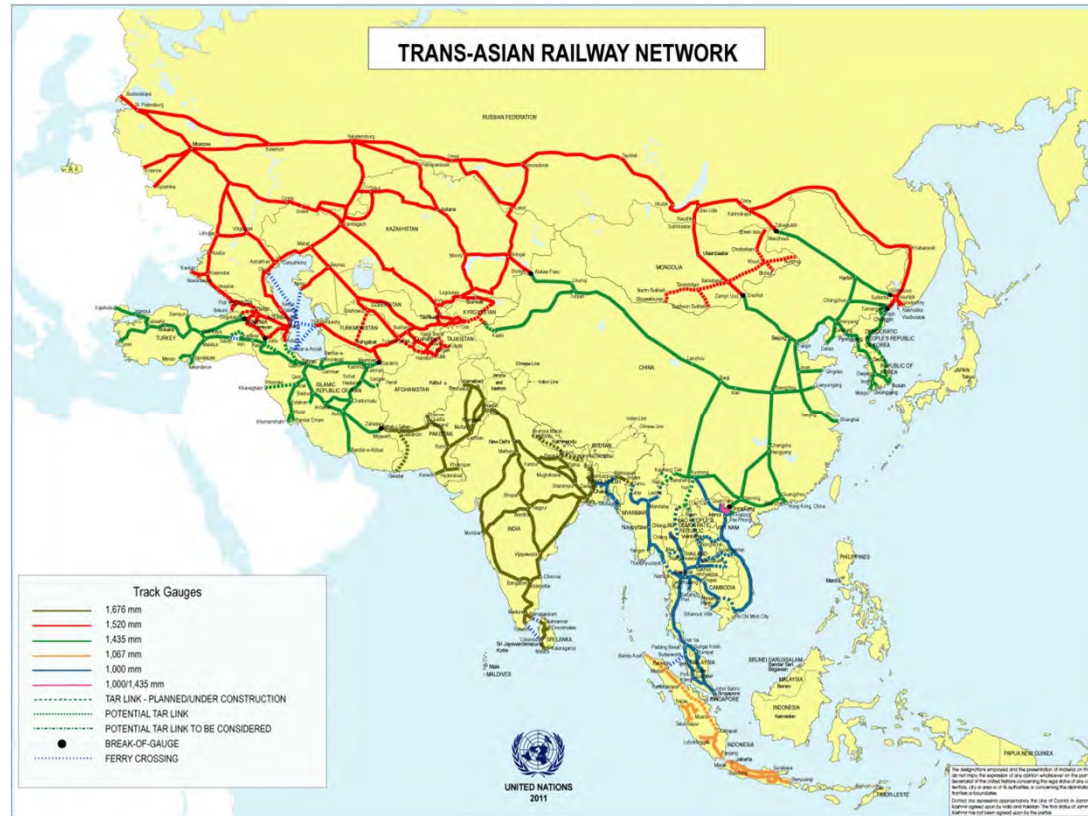
of 11 March 2014

establishing an Instrument for Pre-accession Assistance (IPA II)

## 4.21. Chapter 21: Trans-European networks

In the area of trans-European **transport networks**, the Ministry of Transport, Maritime Affairs and Telecommunications has started work on a national master plan and transport information system. The future trans-European transport network in Turkey is based on the TEN-T guidelines currently in force and may need to be slightly adapted in line with the Commission's new proposal.

# TAR (Trans Asian Railway) system



# Danube Transnational Programme 2014-2020

## **Mission of the DANUBE cooperation programme**

Contribute to a higher degree of territorial integration of the very heterogeneous DANUBE region

Act as a policy driver and pioneer to tackle common challenges and needs in specific policy fields where transnational cooperation is expected to deliver good results

Develop policy frameworks, tools and services and concrete pilot investments whereby strong complementarities with the broader EUSDR will be sought

Make targeted selection of the most relevant interventions and further increase the efficiency of administrative procedures and reduce the administrative burden for the beneficiaries in order to ensure the success of programme implementation

# Danube Transnational Programme 2014-2020

## Challenges and needs for cooperation in the Area

To reduce accessibility deficit of the areas outside the TEN-T corridors, there is a **need to establish an innovative and sustainable mobility system within a transnational common vision on transport**

Besides infrastructural development, efforts are needed on **strategic management level for increasing the transport efficiency**

Need to exploit the region's logistic potential by **developing efficient multi-modal networks**

The negative effects of transport and the relative fragility of the ecological balance are asking for the identification of innovative solutions to reduce the harmful impact.

# Danube Transnational Programme 2014-2020

## Eligible Areas

### Danube Region



The programme area covers nine Member States (Austria, Bulgaria, Croatia, Czech Republic, Hungary, Germany – Baden-Württemberg and Bayern, Romania, Slovakia and Slovenia) and five non-member states (Bosnia and Herzegovina, Moldova, Montenegro, Serbia and Ukraine).

INTERREG B cooperation area 2014-2020

Source: European Commission,  
as proposed on 18th December 2012  
Geometrical basis: GFK MACON

# Danube Transnational Programme 2014-2020

## Priority axis 3: Better connected Danube region (working title)

**The programme intends to support the regional connectivity to the TEN-T network.**



Better management of regional mobility and permeability of borders at the regional level should ensure that urban and rural areas benefit from the opportunities created by the major transportation networks which are developed through the Connecting Europe facility.

Environmentally-friendly, low-carbon and safe transport systems should be supported including inland waterways & ports and multimodal links in order to promote sustainable regional and local mobility, modal integration and intelligent transport.

# Danube Transnational Programme 2014-2020

## Type of actions to be supported under the cooperation programme

Development of **common orientations, frameworks and strategies** in fields of transnational relevance where early policy development is needed (i.e. in fields which until now have not been touched by significant projects in the previous programming periods)

Development and practical implementation of **transnational tools and services** (e.g. analytical tools, management tools, technical tools, software tools, monitoring tools)

# Danube Transnational Programme 2014-2020

## Type of actions to be supported under the cooperation programme

Development and practical implementation of **fixed investments (infrastructure, equipment) to finance pilot investments** in products, infrastructure and construction works and to finance equipment to carry out project activities and demonstrate the feasibility of transnational tools and services

Development and practical implementation of **training and capacity building** (e.g. training seminars and courses, study visits, peer reviews)

Accompanying **information and publicity measures** to inform stakeholders and/or the general public about project activities and outcomes



RFID chain gate containers connector scale  
 modern systems information terminal future supply  
 technologies fast efficiency authority logistics  
 management interoperability representation EU striking  
 register optimization Operator Procedures exchange  
 framework service inland Authorized rail  
 freight service inland Authorized rail  
 web eSeals information innovative M  
 train TOS solutions software devices  
 code

**Make it Easier,  
 Make it MILOS.**



operations  
 integration  
 automation  
 customs  
**MILOS**  
 Making Intermodal Logistics Optimization Simple



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