



*The Next-Gen Integrated Systems &
Innovative Federative Services for
continuous improvement in Traffic
Flows, Customs Operations and Port
Automation Initiatives*

Transport Events
18 March 2021

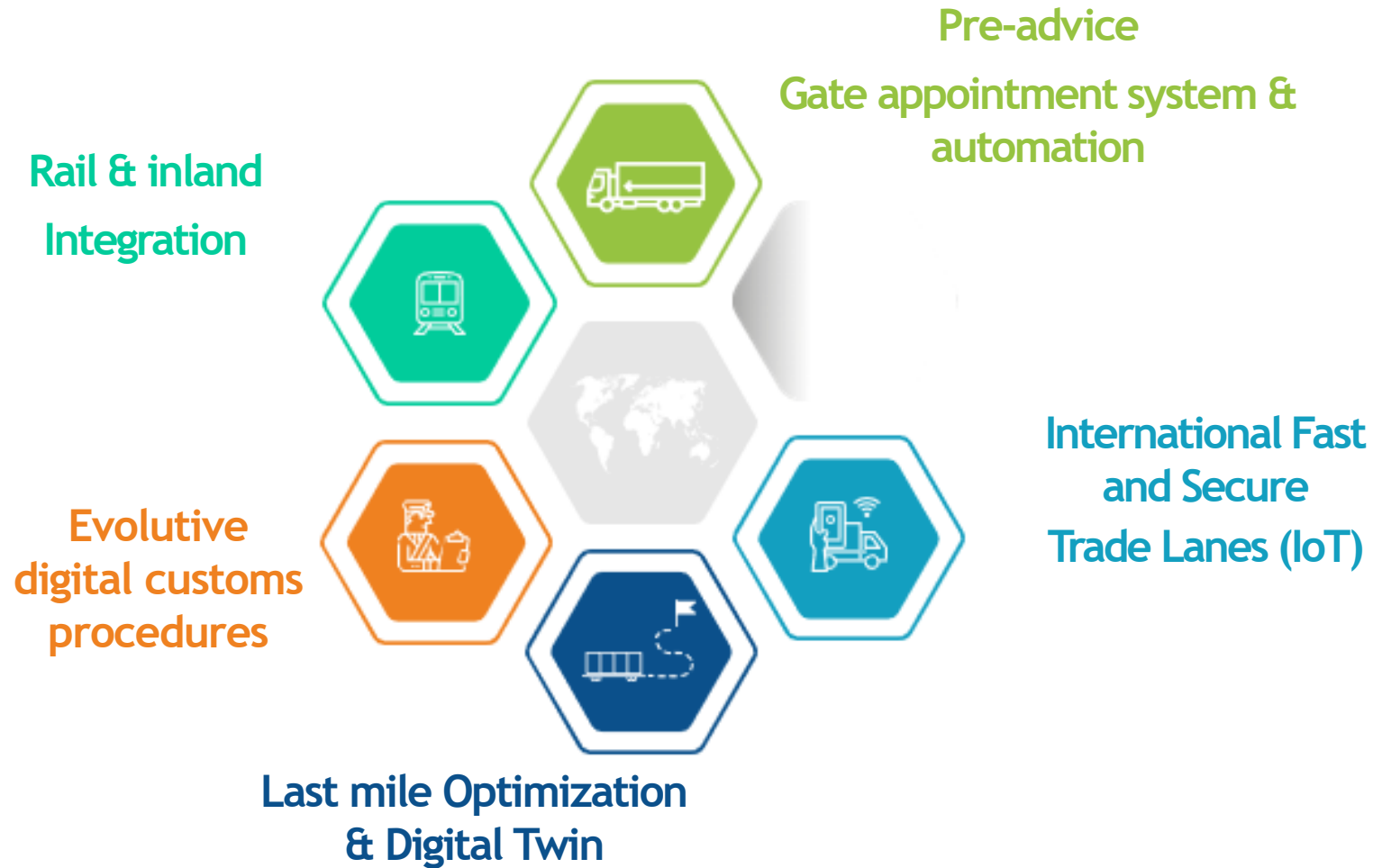
Digital Event
18 March 2021 – 10.00 a.m



*Optimisation, digitalisation & innovative
federative approach for Ports and Terminal
to ensure quality and information security,
cost reduction and low environmental
impact*



Integrated solutions for Terminal, Ports & Supply Chain Automation and digitalization

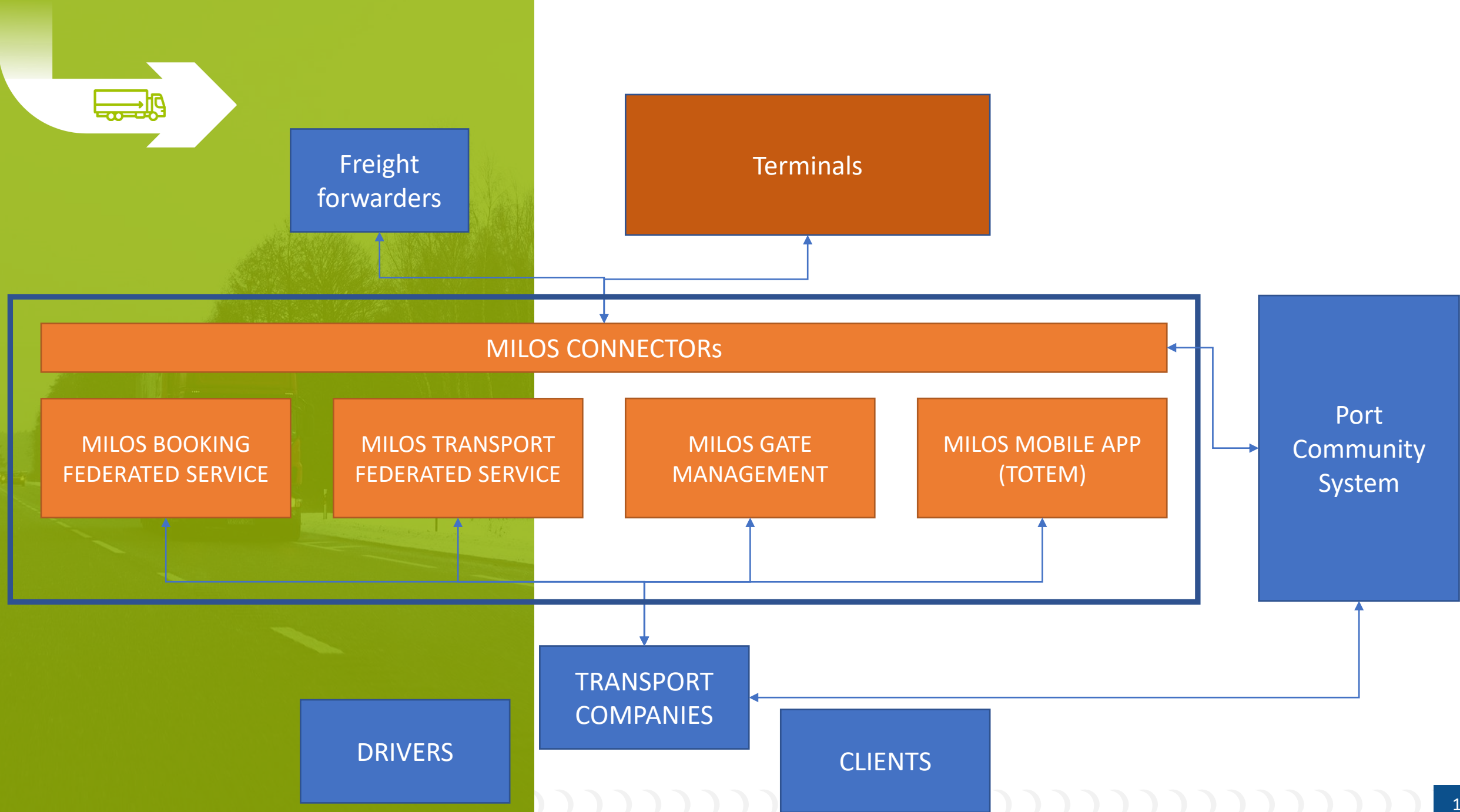


Pre-advice & gate management

1



1. Free zone / Free ports management
2. Inland terminal / park area real time visibility, pre-advice & integrated security/customs management
3. Anticipated customs & security controls with real time info for drivers
4. Real time dashboard
5. Traffic flow optimization & related gate automation



International Fast & Secure Trade Lanes (IoT)

La Spezia - Morocco
Success case

2



The ***International Fast & Secure Trade Lane*** is an End to End solution aiming at optimising maritime, logistic and transport processes, simplifying and integrating information flows thanks to the use of ***Internet of Things (IOT)*** and at standardising and digitalising documental flows among the different players using «Notarisation», Document Process Automation and Artificial Intelligence.

Benefits:

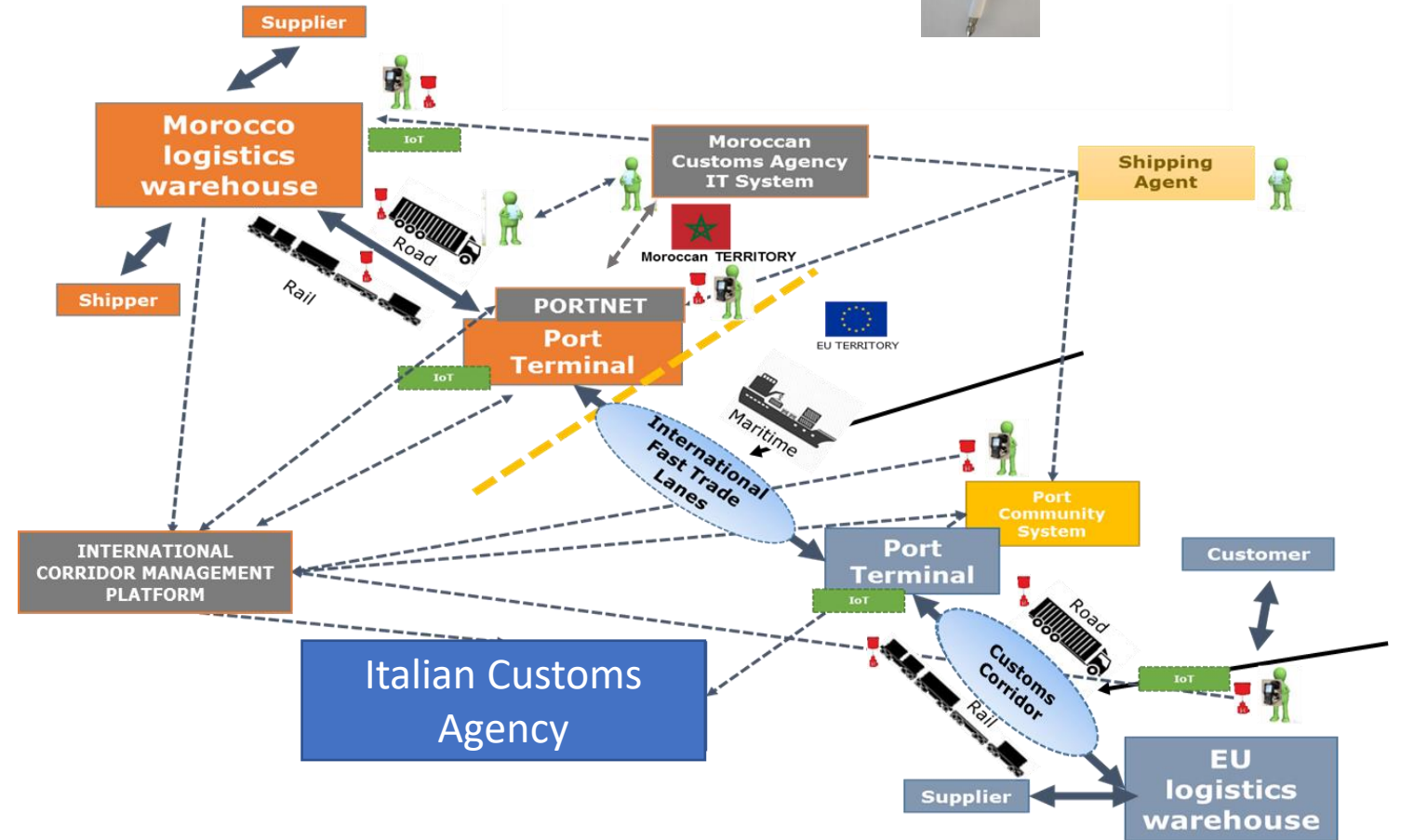
- Full visibility of goods, reduction of manual errors and speed boost for shared documentation thanks to the digitalisation of information flows between actors involved in the process
- Security guarantees thanks to the integration of new technologies and digital tools (IoT, AI and Notarization) to create information flows with control of operations and events occurring within the logistic chain
- Exploitation of simplified customs procedures (preclearing, anticipated document sharing) by exchanging information with and between customs administrations
- Automation, speed up of operations and reduction of containers break-ins and unfair transactions thanks to the implementation of IoT devices



La Spezia – Casablanca IFSTL Project – Italy - Morocco

In Italy the simplified import customs clearance procedure called Preclearing is available. The purpose is to anticipate the complex administrative customs clearance procedure and the consequent payment of customs duties during the vessel sailing and the dock berth.

The innovative Fast Corridor procedure is available. The purpose is allowing the clearance operation outside the port area, thus decreasing the dwell-time and port congestion. Cargo must be monitored by the Italian Customs Agency through the Italian Logistic Platform. Additional advantages using RFID eSeals or tag applied to container and trailers.



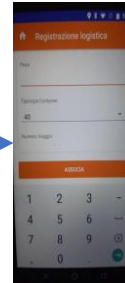
IoT real time check & controls



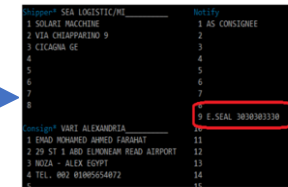
eSeal RFID application on the container



APP registration



eSeal number entering in the B/L



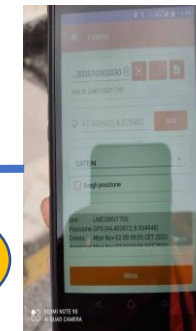
Egyptian Terminal

eSeal state check thanks to handheld device



Italian Terminal

eSeal state check thanks to handheld device



La Spezia Port Corridor Management Platform in use for IFSTL Morocco interoperability and sharing in advance customs and security documents



Tools and App

The photos show three example of Mobile app and tools:

1. **Mobile app** for logistics and customs registration
2. **eSeals RFID** for container/trailer closure
3. **Dashboard** resuming ship, shipping, customs, freight information

The screenshot shows a mobile app interface titled "Registrazione logistica". It has fields for "Pesa", "Tipologia Container" (set to 40), and "Numero Viaggio". Below these is an "ASSOCIA" button and a numeric keypad.

1.

2.



The screenshot shows a "CONTAINER TRACKING" dashboard. It includes a "Tracking" section with a "Type" dropdown set to "Container" and a "Search" field containing "LMCU0821700". A "Search" button is to the right. Below this is a table with container tracking data.

Date	Location	Description	Vessel	Voy
13/11/2020	Alexandria	Intended Discharge	Jolly Titanio	20/0362
07/11/2020	Genoa	Loaded	Jolly Titanio	20/0362
29/10/2020	Genoa	Gate In Full		

On the left side of the dashboard, there is a container icon labeled "400T - 42U1" and a box showing "Tare 4000" and "Payload 26400".

3.

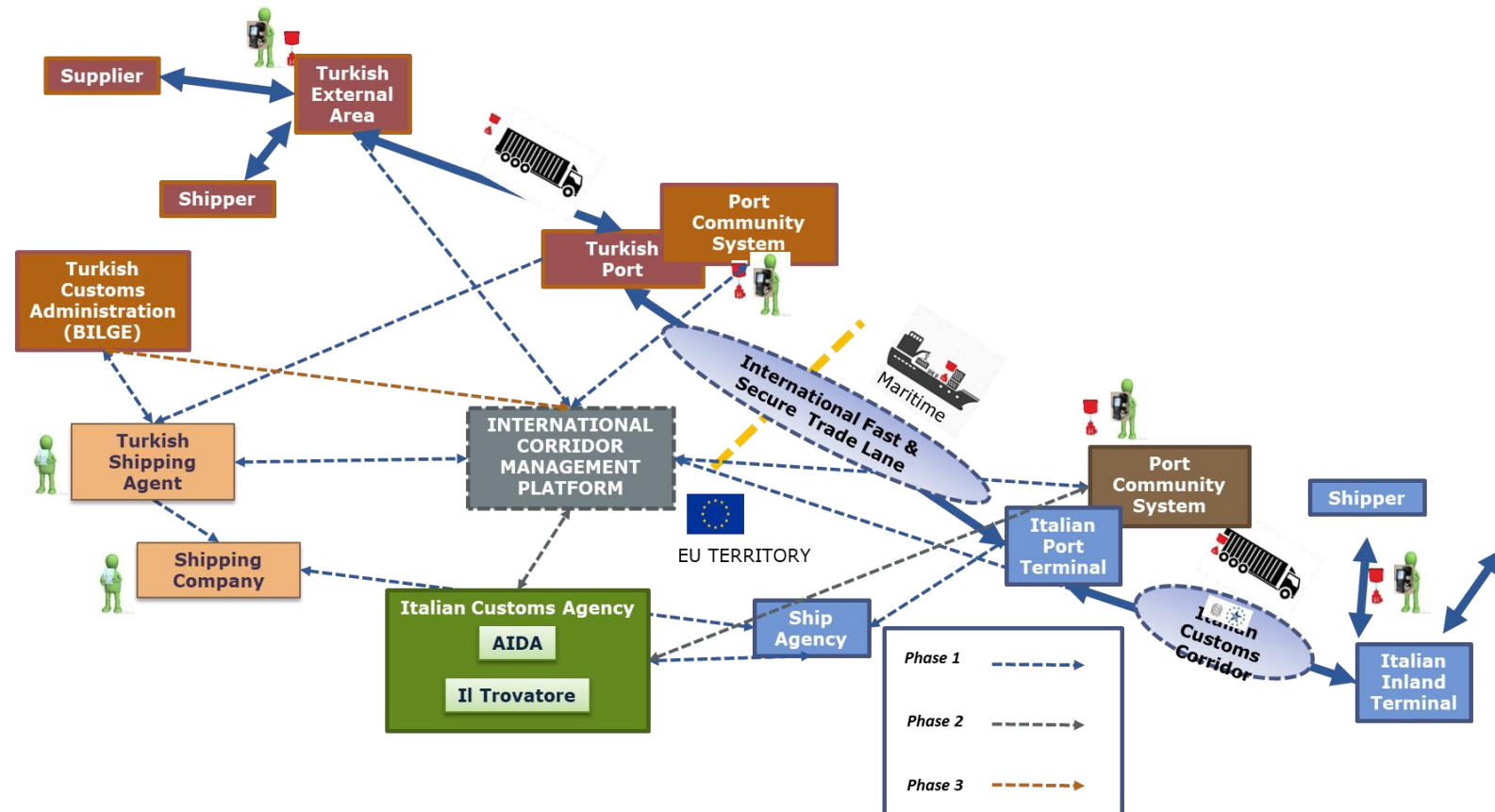


Trieste – Mersin - Central Europe IFSTL Project Italy – Turkey

The Preclearing is an ensemble of customs clearance procedure effected during the vessel sailing and the dock berth. The purpose is to anticipate the complex administrative customs clearance procedure and the consequent payment of customs duties

The Customs Corridors is an innovative Italian customs procedure. The purpose is allowing the clearance operation outside the port area, thus decreasing the dwell-time and port congestion.

IFSTL exploit with a third step: cargo are monitored by using RFID eSeals tag applied to container and trailers.



Rail & Intermodality

Ports of Genoa - Savona
Success Case






3



Rail dashboard and integrated platform



**PORTS of GENOA
RAIL DASHBOARD**
· PIC connector ·



PIC Dashboard
[Gestione operativa treni](#)
[Cambia password](#)
[Logout](#)

Attività operative

Utenti online38

Versione1.0.200001E

DA DATA
27/10/2020

A DATA
29/10/2020

DIREZIONE
Entrambe

STAZIONE
doppio click o F2

TRACCIA



STATUS
Tutti

RID

CERCA

AZZERA

Arrivi

Data attuale	Bin.attuale	Naz.	Origine	Traccia	Tipo	Data prog.	Bin.prog	Bin.plan	Stazione	
			VENTIMIGLIA	04771		30/10/2020 04:45			GE.SAMP.SMIST.	F

Interoperability with Integrated Train Platform of RFI (Italian railway platform manager) through the development of web services. The platform shows trains arriving / departing from Genoa and Savona/Vado nodes.



Rail Integration

Ports and Terminals can integrate with Inland.

Through the digital integration between information in order to allow:

- Digital booking
- Final Digital Train Composition
- Document Notarisation
- Customs checked infos and controls
- Digital flow for R.U. companies

Port and Terminal: integration with Rail

Booking management

REPORT

TOT. BKG	TOT. BKG-LINE ATTIVE	SERVIZIO	QUO	TOT	EST	TOT	CONTAINER	N°	3V	3V	4V	4V	4V	4V	TOT. PRIORITARI
34	143	0	263	1	1			0	64	1	33	145	1	2	5

CONTAINERI

REF. ESTERNO	TRAILO SERVIZIO	DATA TRAILO	TRAILO	CUBICITÀ	STATUS
PCS2098478	Terminal to terminal	16-10-2019	16 container 40' HC, 16 container 20'	16	OK

TRAILO

REF. ESTERNO	TRAILO SERVIZIO	DATA TRAILO	TRAILO	CUBICITÀ	STATUS
PCS2098448	Terminal to terminal	16-10-2019	20 container 40' HC, 16 container 20'	16	OK

Distinta treno
Trieste, Italia, 13/11/2019

Treno: 45260 data partenza: []

n	matr.vagone	matr.cir	prof.cassa	pieno/vuoto	sigillo	disp. attuale uti	merce	UNDO	CER	tara cir	peso merce	peso tot	lung.carro	dest.
1	33064801425											0.0		Wen 80d CCT
	MEDU5167009		P		EU17901648		19 Pallet(s) NAT.GRANITE STONE	0	2.200	27.539,98	29.739,98			ATWFT
	MEDU5369123		P		EU17901650		19 Pallet(s) NAT.GRANITE STONE	0	2.200	27.579,98	29.779,98			ATWFT
										4.400	55.119,96	59.519,96		
2	318149630881											0.0		Wen 80d CCT
	MEDU5508888		P		EU17901633		19 Pallet(s) NAT.GRANITE STONE	0	2.200	27.619,98	29.819,98			ATWFT
	MEDU5513354		P		EU17901639		19 Pallet(s) NAT.GRANITE STONE	0	2.200	27.579,98	29.779,98			ATWFT
										4.400	55.199,96	59.599,96		
3	318149600080											0.0		Wen 80d CCT
	MEDU5551837		P		EU17901637		20 Pallet(s) NAT.GRANITE STONE	0	2.200	25.399,98	27.599,98			ATWFT
	MSDU1044750		P		EU17901644		20 Pallet(s) NAT.GRANITE STONE	0	2.200	25.319,98	27.519,98			ATWFT
										4.400	50.719,96	55.119,96		



1. Digital Booking

Booking management

Composizione ferroviaria: Data treno: Data carico: Data scarico: Pos. tassativa: Lungo pos. car.: Nome:

Tipo UTI: Codice ISO: Data inserimento dal: Data inserimento al: Esterno: Codice UTI: Viaggio:

Cliente: Nr. booking: Stato booking:

REPORT

TOT. BKG	TOT. BKG-LINE ACTIVE	SERVIZIO	DSD	T2T	D2T	T2D	CONTAINER	10'	20'	30'	40' HC	40'	45' HC	45'	TOT. PRIORITARI
34	342		0	263	1	1		0	66	1	33	145	1	2	5

PC52098478

RIP. ESTERNO	TIPO SERVIZIO	DATA TRENO	TIP. UTI	CLIENTE	PRIORITÀ	STATUS
N/A	Terminal to terminal	16-10-2019	10 container 40' HC, 10 container 20'	TST		

PC52098446

RIP. ESTERNO	TIPO SERVIZIO	DATA TRENO	TIP. UTI	CLIENTE	PRIORITÀ	STATUS
N/A	N/A	16-10-2019	50 Semiconcetto			

PC52099671

RIP. ESTERNO	TIPO SERVIZIO	DATA TRENO	TIP. UTI	CLIENTE	PRIORITÀ	STATUS
N/A	N/A	16-10-2019	25 Semiconcetto			

TRIL020DV151019

RIP. ESTERNO	TIPO SERVIZIO	DATA TRENO	TIP. UTI	CLIENTE	PRIORITÀ	STATUS
TRIL020DV151019	Terminal to terminal	16-10-2019	container 20'	MEDLOG		
TRIL020DV151019	Terminal to terminal	16-10-2019	container 20'	MEDLOG		
TRIL020DV151019	Terminal to terminal	16-10-2019	container 20'	MEDLOG		
TRIL020DV151019	Terminal to terminal	16-10-2019	container 20'	MEDLOG		
TRIL020DV151019	Terminal to terminal	16-10-2019	container 20'	MEDLOG		
TRIL020DV151019	Terminal to terminal	16-10-2019	container 20'	MEDLOG		
TRIL020DV151019	Terminal to terminal	16-10-2019	container 20'	MEDLOG		

2. Train composition

Distinta treno
Trieste, Italia, 13/11/2019

Treno: 45260 data partenza:

n	matr.vagone	matr.cir	prof.cassa	pleno/vuoto	elglio	disp. attuale UTI	merce	UNDG	CER	tara cir	peso merce	peso tot	lung.carro	dest.
1	335949931425												0.0	Wen 9dd OCT
	MEDU5167009		P		EU17901648		19 Pallet(s) NAT.GRANITE STONE	0	2.200	27.539,98	29.739,98			ATWFT
	MEDU5360123		P		EU17901650		19 Pallet(s) NAT.GRANITE STONE	0	2.200	27.579,98	29.779,98			ATWFT
										4.400	55.119,96	59.519,96		
2	318149930891												0.0	Wen 9dd OCT
	MEDU5508888		P		EU17901633		19 Pallet(s) NAT.GRANITE STONE	0	2.200	27.619,98	29.819,98			ATWFT
	MEDU5513354		P		EU17901639		19 Pallet(s) NAT.GRANITE STONE	0	2.200	27.579,98	29.779,98			ATWFT
										4.400	55.199,96	59.599,96		
3	318149900090												0.0	Wen 9dd OCT
	MEDU5551837		P		EU17901637		20 Pallet(s) NAT.GRANITE STONE	0	2.200	25.399,98	27.599,98			ATWFT
	MSDU1044750		P		EU17901644		20 Pallet(s) NAT.GRANITE STONE	0	2.200	25.319,98	27.519,98			ATWFT
										4.400	50.719,96	55.119,96		

4. Customs control



5. Railway undertaking Companies - CIM

3. Document Notarisation



Last mile optimization and Digital Twin

Ports of Genoa
Success Case





3D Digital Twin

2D and 3D representation of the Digital Twin, currently development in the activity of eBridge Project, with the involvement of Ports of Genoa.

In particular, it regards the railway shunting process within the Sampierdarena basin of the port of Genoa (the maps illustrates some interesting points).



Digital Customs Procedures

Ikea
Success Case

5



1. Immediate data access and procedures simplification
2. Complete vision of the entire supply chain thanks to the implementation of a Digital Platform and IoT devices integration
3. Document validation and certification through the process of “notarization” (blockchain based)
4. Efficient management of the invoicing process and of the related integration with customers’ ERP systems
5. Improvement of the logistic process in terms of service quality and security level





Digital Customs Procedures for Industry sector

Ikea has a logistics hub in Piacenza (Italy), from which goods arrive from all over the world: these goods are destined for stores not only in Italy, but also in North Med and Middle East. The problem was that the process of customs clearance of goods coming from Extra EU countries started when the container was discharged at the port and this heavily affected the arrival's time of goods at the logistics hub of Piacenza;

Thanks to digitalisation it's possible to provide a complete view of the supply chain, simplifying operations, reducing transit costs and operating / customs / security costs, by implementing:

- ✓ Full digital platform able to share end-to-end data and documents from various stakeholders;
- ✓ "Certified Information" arising from the use of IoT devices applied on vehicles (trucks) for monitoring the transport

Main KPI's index – IKEA

- ✓ Direct cost reduction x teu: – 30%;
- ✓ Paper reduction: - 100%;
- ✓ Shipped container's volume increased over 80% thanks to Digital Procedures;

Main KPI's index – Supply Chain Involved:

- ✓ transit time reduction port – dry port: up to 35%;
- ✓ dwell time reduction (due to various aspects, among which customs): up to 80%;

Contacts

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Thank you



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labatello

