



eFTI(4EU) & e-CMR & interoperability Best practices & useful starting points

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Roma, 28/11/2024

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Opportunities arising from European and Italian regulations

- **21th August 2024 – eFTI comes into force in Europe**

*From August 2024, EU member states must accept the receipt of transport information in an EU-harmonized electronic format (Regulation 1056/2020) and will soon be an obligation for Economic Operators. **This means that early adoption of tools for logistics digitization will ensure a first-mover advantage over competitors.***

- **26th September 2024 – entry into force of e-CMR in Italy**

*Official Gazette No. 73 of 27 March 2024 officially announces the accession of the Italian Republic to the Additional Protocol to the Convention on the Contract for the International Carriage of Goods by Road (**e-CMR**) concerning the electronic consignment note.*

- **EU Roadmap & Mandatory Deadlines**

The “Non-Financial Reporting Directive” will come into force from 2024 and within a few years will be mandatory for all companies operating in the European Union. For this reason, it is essential to adopt appropriate measures to calculate emissions in order to be able to declare correct and verifiable data in the Sustainability Report. Deadlines are as follows:

- ◆ *From 1 January 2024 for those companies already subject (listed) to the “Non-Financial Reporting Directive”, publishing in 2025.*


- ◆ *From 1 January 2025 for big companies not yet subject to the Non-Financial Reporting Directive (companies with at least two of the following size limits: + 250 employees, EUR 40 million net revenue, EUR 20 million balance sheet assets), publishing in 2026.*

- ◆ *From 1 January 2026 for SMEs and other listed companies, publishing in 2027.*

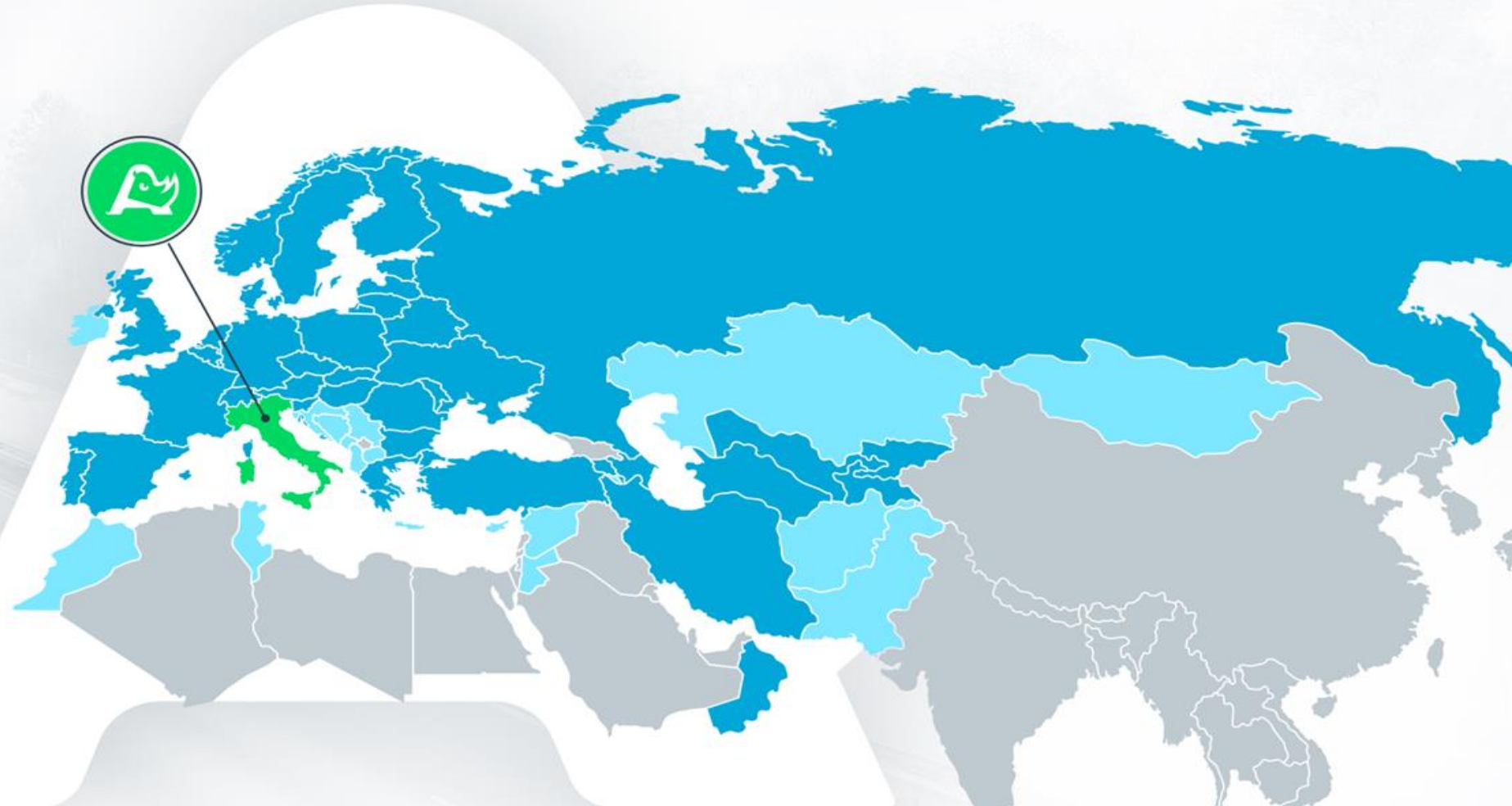
- ◆ *SMEs may choose to postpone to 2028.*

e-CMR in the World

 Countries that use the e-CMR (Digital CMR)

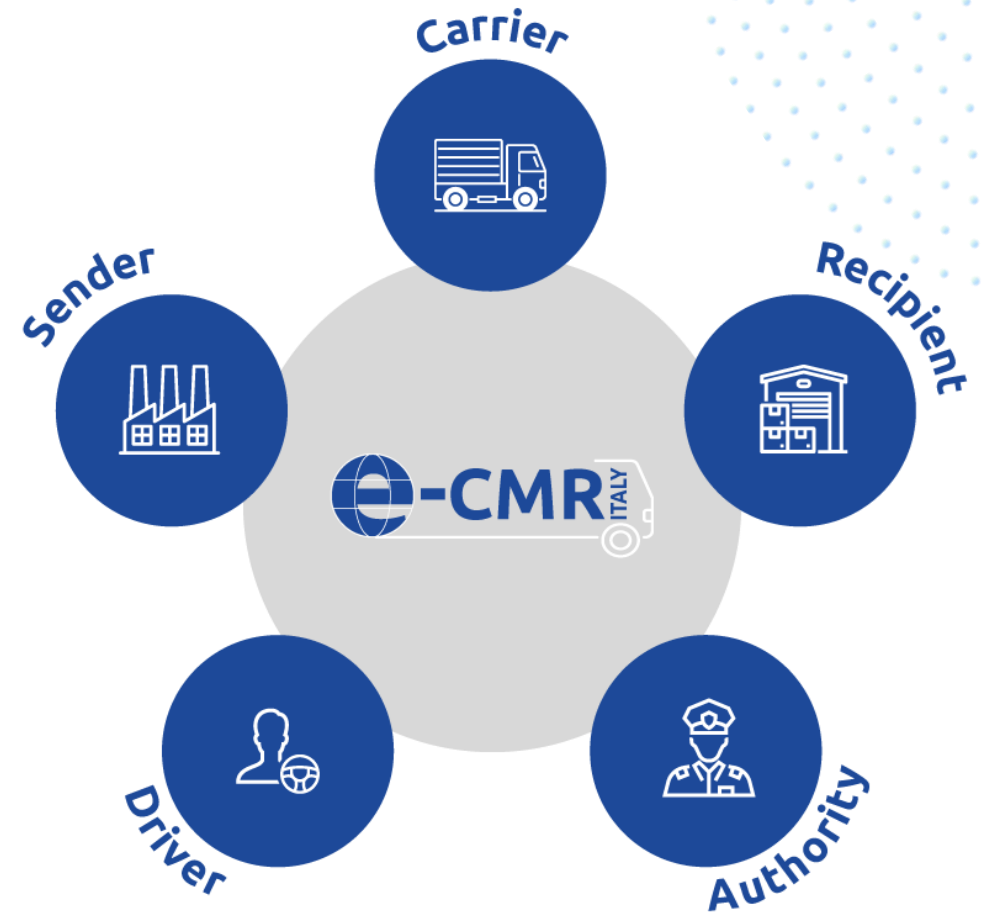
 Countries that use the CMR printed on paper

 Countries that don't yet use the CMR



e-CMR: benefits and actors involved

- ✓ Improved supply chain quality
- ✓ Increased efficiency and visibility of the route
- ✓ Limiting the potential for human error
- ✓ Greater speed in information exchange:
 - ✓ Simplification and reduction of data access and recovery times
 - ✓ Rapid response in case of checks by the competent authorities
 - ✓ Faster invoicing thanks to real-time proof of delivery
- ✓ Reduction of environmental impact:
 - ✓ elimination of paper
 - ✓ minimization of storage needs
- ✓ Possibility of using multilingual platforms for international transport



e-CMR: Costs Reduction

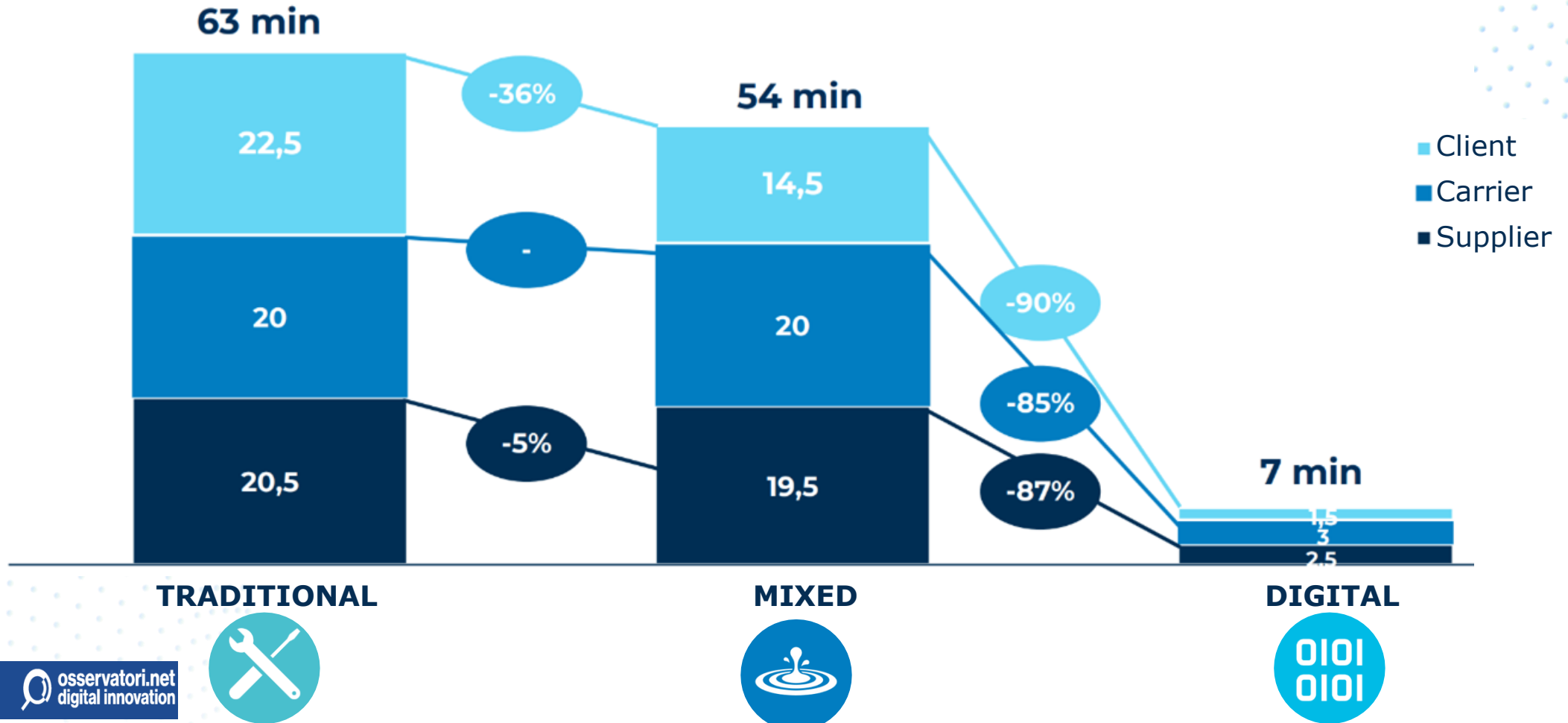
OPERATION	ACTIVITY	Paper CMR	e-CMR
		Time (min) / CMR	Time (min) / e-CMR
Output	Printing of the document	3,3	0,0
	Delivery to the carrier	5,8	1,0
Use	Acceptance (data verification, observations/notes and signature)	4,0	3,5
	Checks during the journey	7,5	3,5
	Acceptance (data verification, observations/notes and signature)	3,8	3,8
	Return of copy signed by the three parties	4,7	2,7
Administration	Management during the document life cycle	5,0	4,0
	Storage	3,8	0,8
	Document recovery in case of controls (in the company)	12,5	1,3
TOTAL		50,3	20,6

*Source UnionCamere

-60%

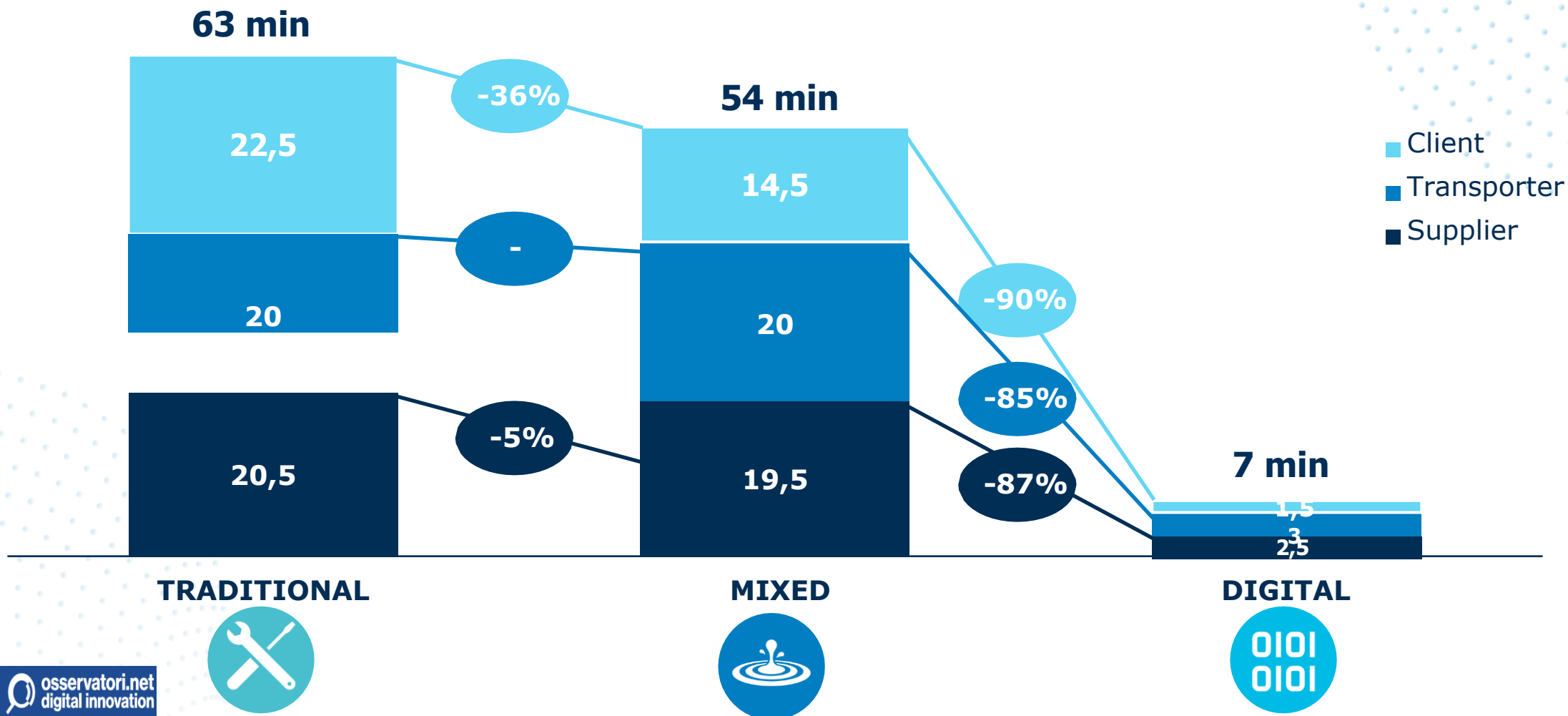
Digital Documents (DDT): the Paperless Future between Benefits & Savings

Standard cycle time savings per actor



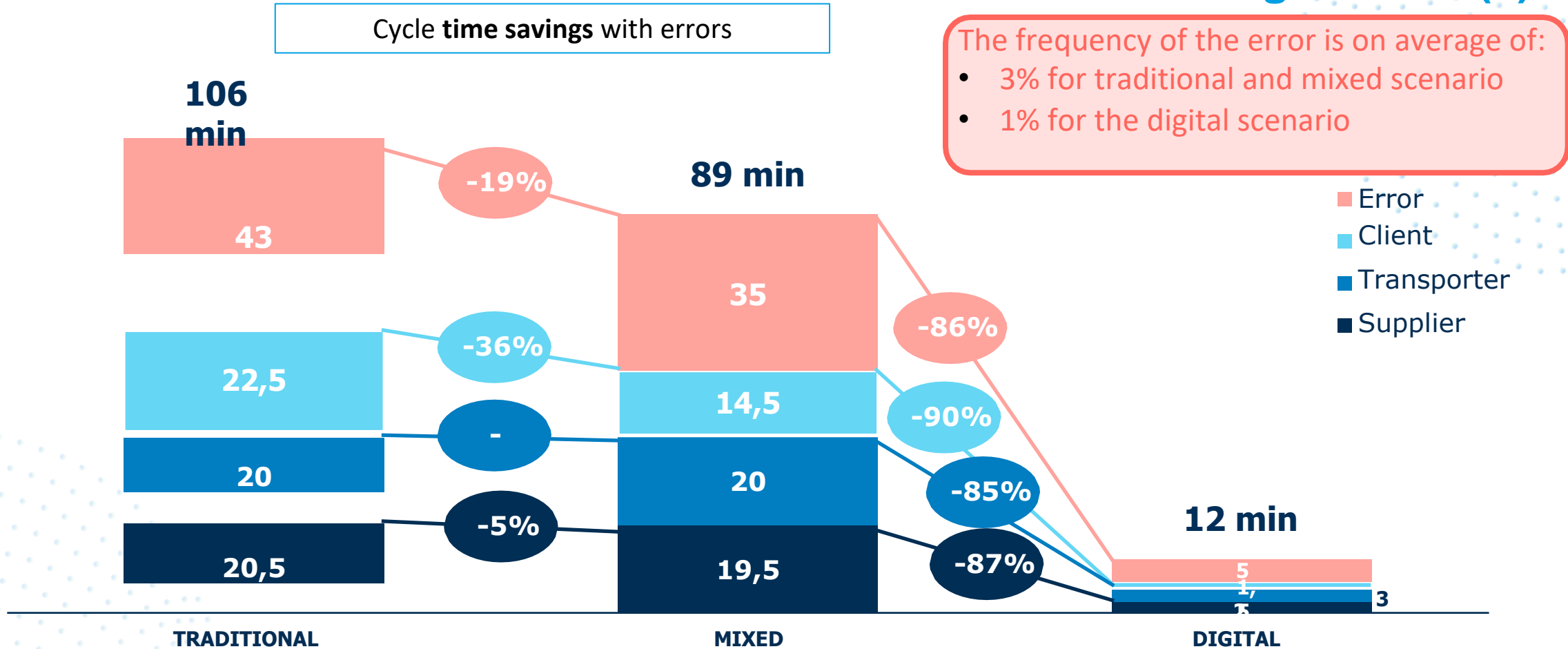
Benefits of DDT digitization (1)

Standard cycle **time savings** per actor



Benefits of DDT digitization (2)

Cycle time savings with errors



The frequency of the error is on average of:

- 3% for traditional and mixed scenario
- 1% for the digital scenario

- Error
- Client
- Transporter
- Supplier

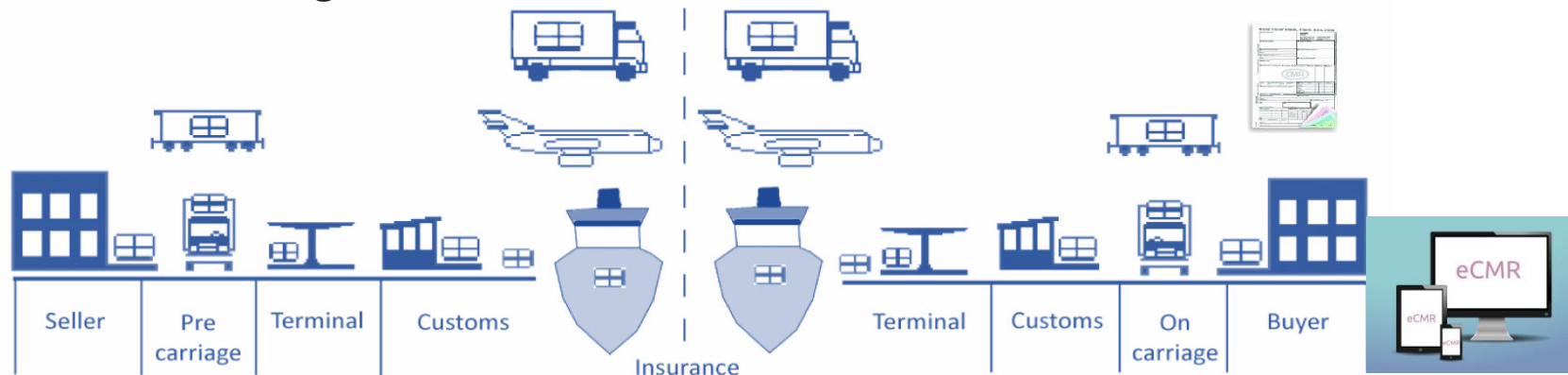


*The analysis focused only on actual uptime. It does not consider issues of waiting for response from the supplier.

Use Case: e-CMR - Industry + Customs + PCS in ITA

Together with **ACCUDIRE**, we participated with great pleasure and concreteness in a pilot project to **digitise the eCMR in an export process from a major Italian port**. An **interoperable system** was tested between all actors involved in the port and logistics process, **allowing information flows to be exchanged in a fully digital mode**.

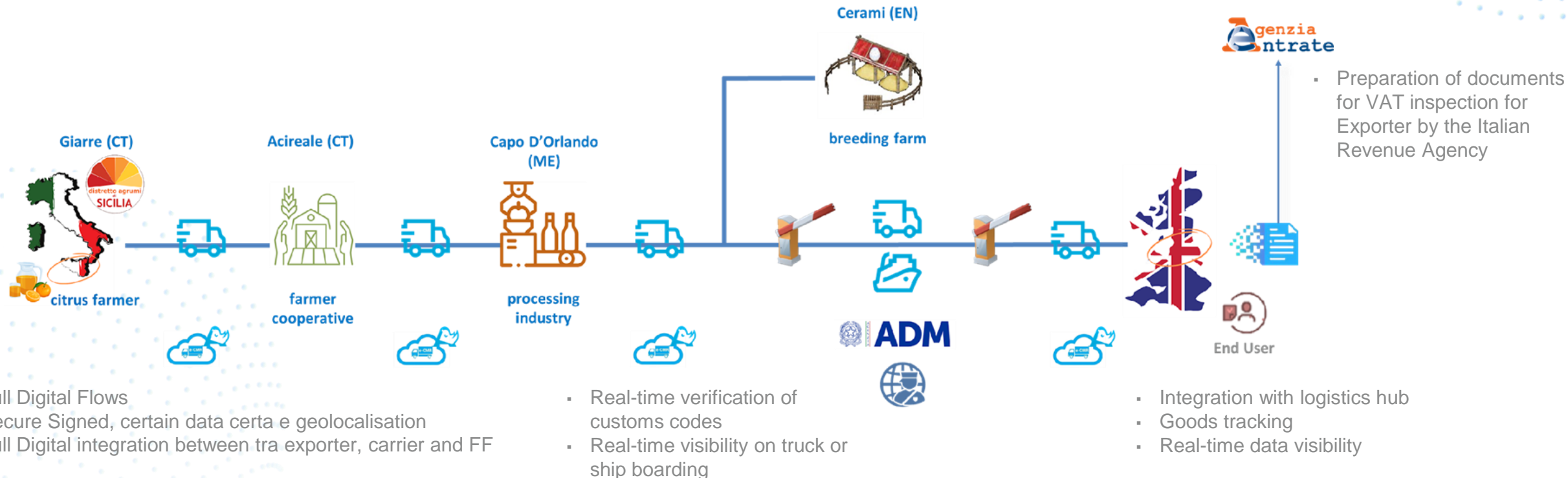
In order to digitise exports by linking operators with ADM and AdSP MAO, Infoera (Circle Group) and ACCUDIRE participated in the pilot project involving the Benetton Group in the port of Trieste, to develop an interoperable system between all actors in the supply chain and exchange information flows in full-digital mode.



Use Case: e-CMR + Customs in EU



At National level, many pilots were done regarding e-CMR. ACCUDIRE, inside the EU TRICK Project, managed a shipment of citrus from Sicily (Distretto Agrumi della Sicilia) to the UK using its platform for logistics documentation. The documentation included the use of e-CMR, with geolocated digital signatures saved on the blockchain, ensuring fully digital flows, interoperability, security and real-time traceability. This simplified customs processes, improved logistics efficiency, and ensured regulatory compliance.

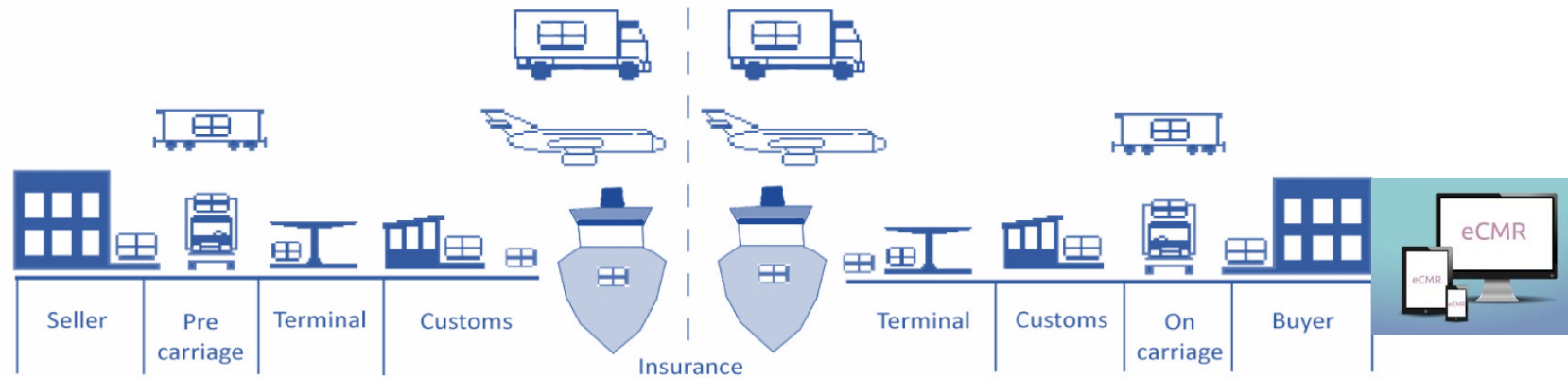


Use Case: e-CMR + Customs + PCS (+ Insurance) in ITA

Successfully completed at **the Port of Trieste** the trial of **e-CMR**, the digitalisation of the waybill for road transport.

The test, carried out on a **shipment of pharmaceutical products**, involved several key players: Transport company, the Port System Authority, the Customs and Monopolies Agency (ADM), Guardia di Finanza, ACCUDIRE (provider of the blockchain-based e-CMR solution) and Info.Era Srl (developer of the Port Community System Sinfomar), Gruber Logistics.

The trial highlighted the effectiveness of public-private collaboration to **optimise logistics with certified data in real time and without the need for paper documents**.



La gestione dell'e-DDT, l'efficienza del digitale

DIGITALE



Fonte: Rielaborazione da Politecnico Milano, Osservatorio Digital B2B (workshop "La digitalizzazione della fase di consegna", 2024)

User Experience – dematerializzazione e benefici e-CMR

i Vantaggi Concreti della e-CMR

	CMR		e-CMR	
	TEMPO IMPIEGATO	COSTO	TEMPO IMPIEGATO	COSTO
Emissione	9 min	6,40 €	1 min	0,70 €
Utilizzo	20 min	13,90 €	13 min	9,40 €
Amministrazione	21 min	15,00 €	6 min	4,30 €

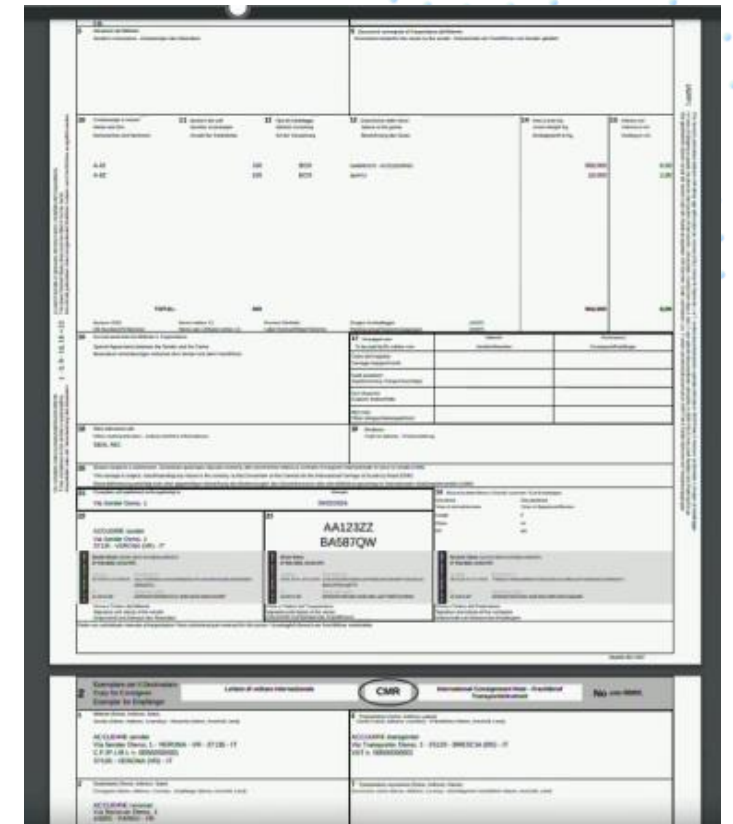

50 min


35,30 €

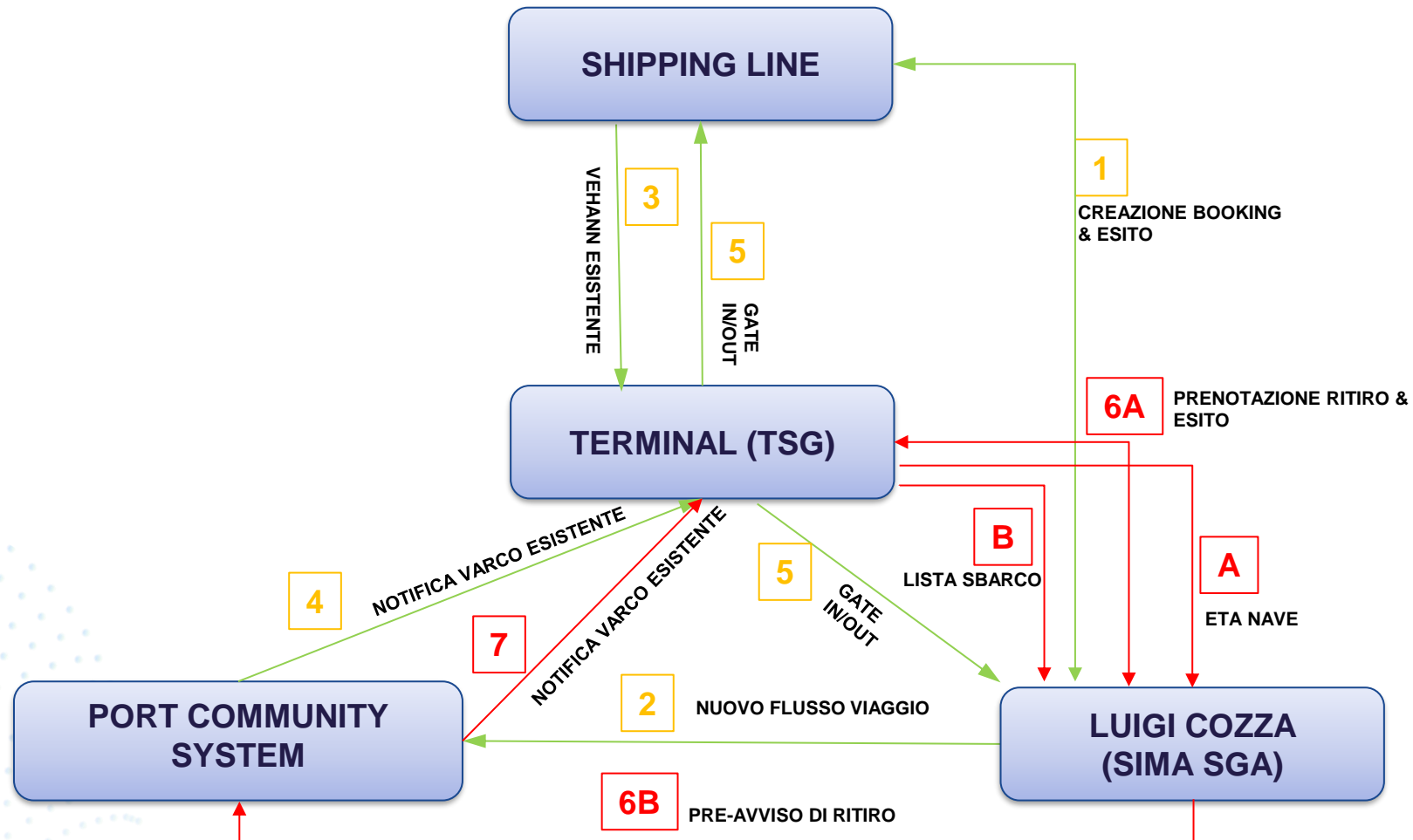

20 min **-60%**


14,40 € **-60%**

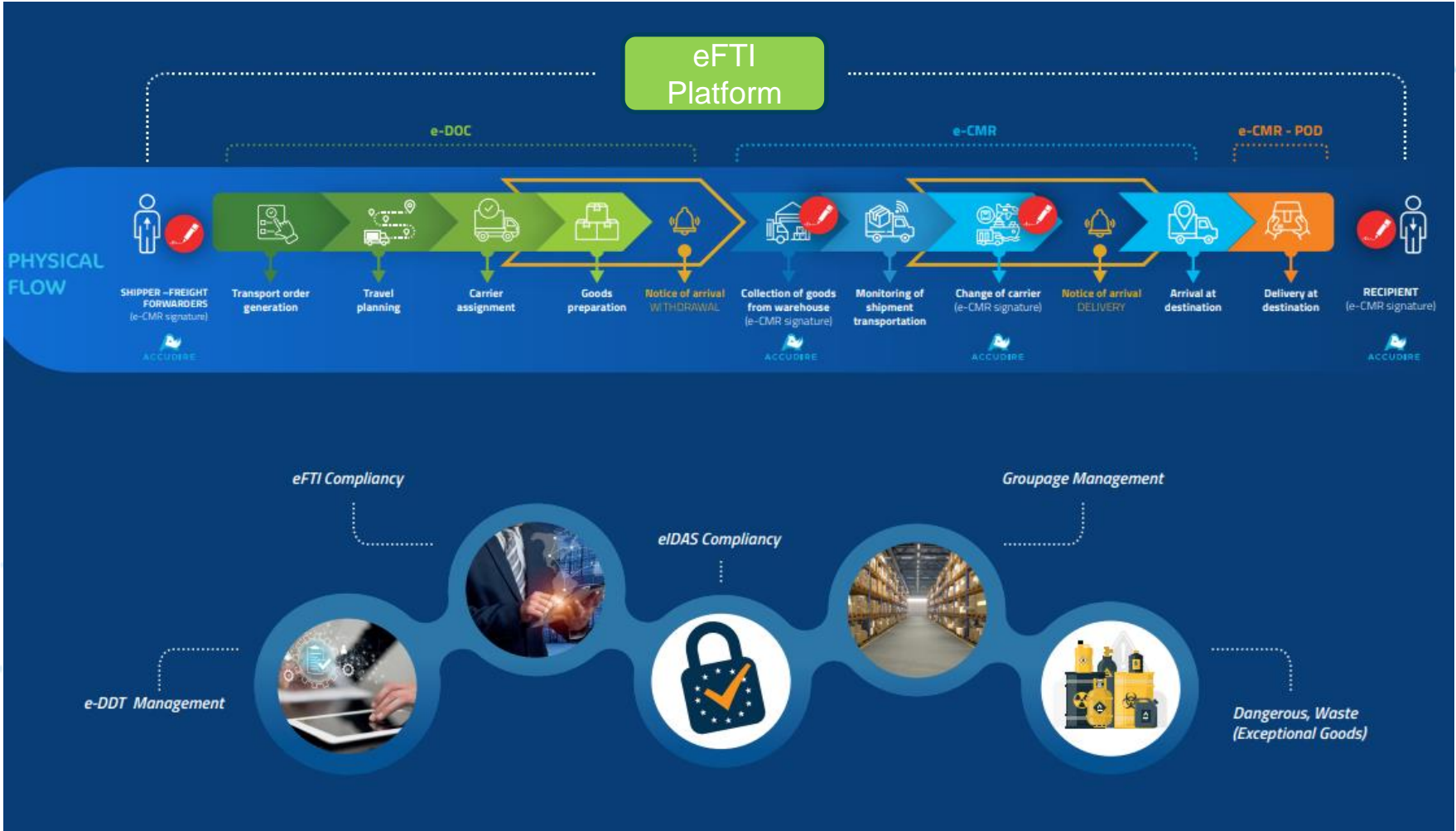
Fonte: Uniontrasporti
Stima effettuata dalle imprese di trasporto dei tempi e dei costi relativi all'utilizzo di CMR ed e-CMR



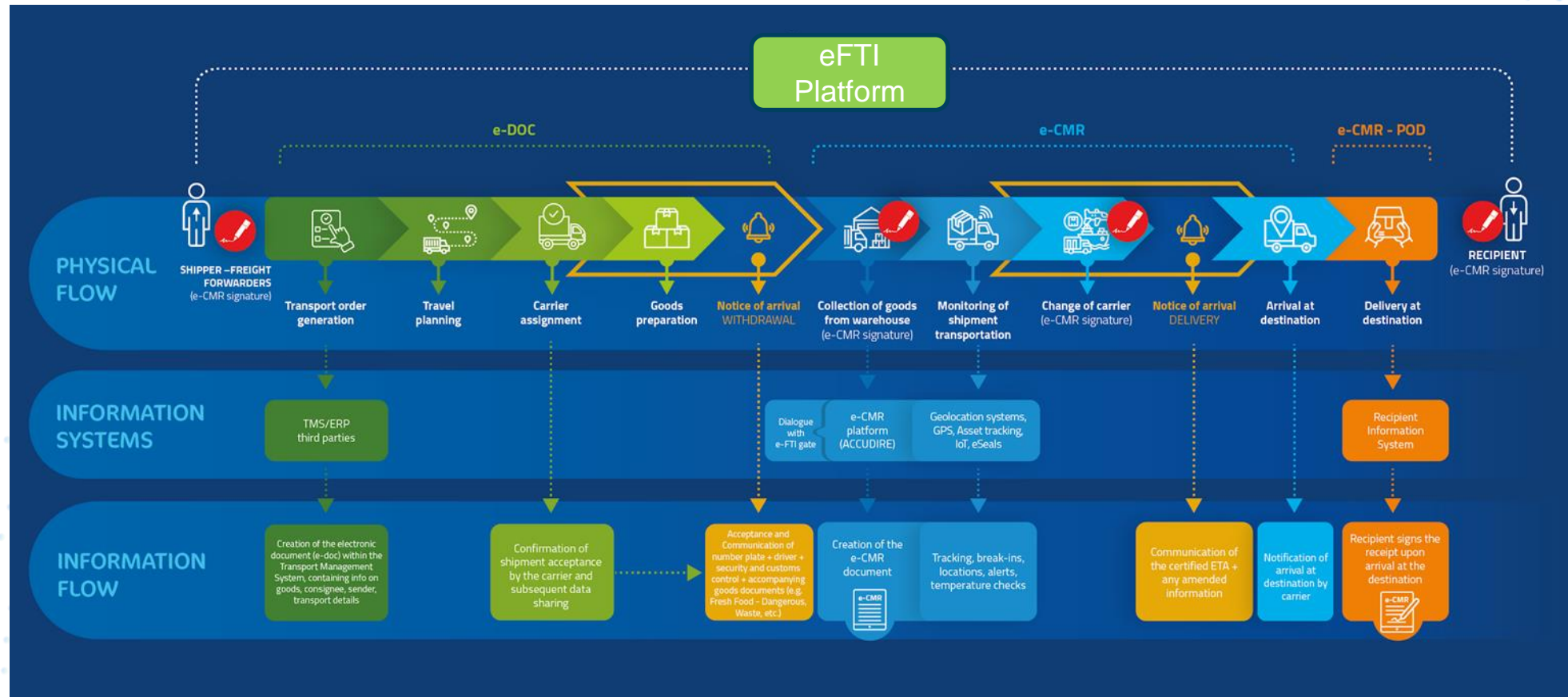
Transport company + terminal + port + shipping line (e-Bridge)



Use Case: eFTI platform ready for eFTI4EU pilot



Use Case: eFTI platform ready for eFTI4EU pilot - interoperability





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