



***Global Supply Chain Visibility
for Manufacturing &
Distribution***

2025

Empowering Global Supply Chains through seamless Dematerialization & Visibility: Interoperability, Sustainability & Pioneering Innovative Customs Services for a Smarter, Greener, Agile Logistics Network



e-CMR & eFTI Regulation
and Application



Supply Chain Visibility
and Customs Innovative Services



Interoperability & Integrations
with Freight Forwarders



Sustainability, Traceability
& ESG

Federated Platform for Transport execution

Milos® Transport Federative Platform is a software-based equipped with a dashboard for the active monitoring of the units and interoperable with the operator's IT systems. Characterized by Application to Application interoperability, the solution includes a Mobile APP to allow the operational management of the orders received, the sharing of related events, as well as the uploading of documentary information or image.

(Milos • TFP)

ERP Integration & KPI Dashboard

Specific connectors integrate Milos® GSCV with customers' ERP systems enabling the development of specific dashboards for analytics & reporting, ensuring process automation and proactive approach.

(Milos • GSCV)

ESG Solutions

Carbon Footprint Federative Service is the ESG solution for automatic calculation of customer-specific multimodal supply chain. It is compliant with EU standard & ISO, available in SaaS, constantly updated and able to create custom dashboards and green reports.

(Milos • Green Dashboard)

Dematerialization & eFTI

Circle Group's digital solution streamlines international transport by eliminating paper with e-CMR, improving speed, efficiency, and reducing errors. Compliant with new ADM requirements (effective December 2nd), it automates customs flows and provides digital proof of delivery, export, and tax regime compliance, for both national (e-DDT) and international (e-CMR) documents.

(Milos • TFP)

Customs innovative procedures

Milos® exploits simplified and digitalized Customs Procedures - Italian "Fast Corridor" (maritime, rail & road) and "Air Fast Transfer" (air) - fully compliant with the European Customs Code, exchanging services between national Customs Agencies, Ports, Airports and logistic operators. Goals: costs reduction concerning import / export cycle, decrease of the permanence of goods in nodes, berth, hub, storage area, improvement of safety and cargo monitoring.

(Milos • eCustoms)

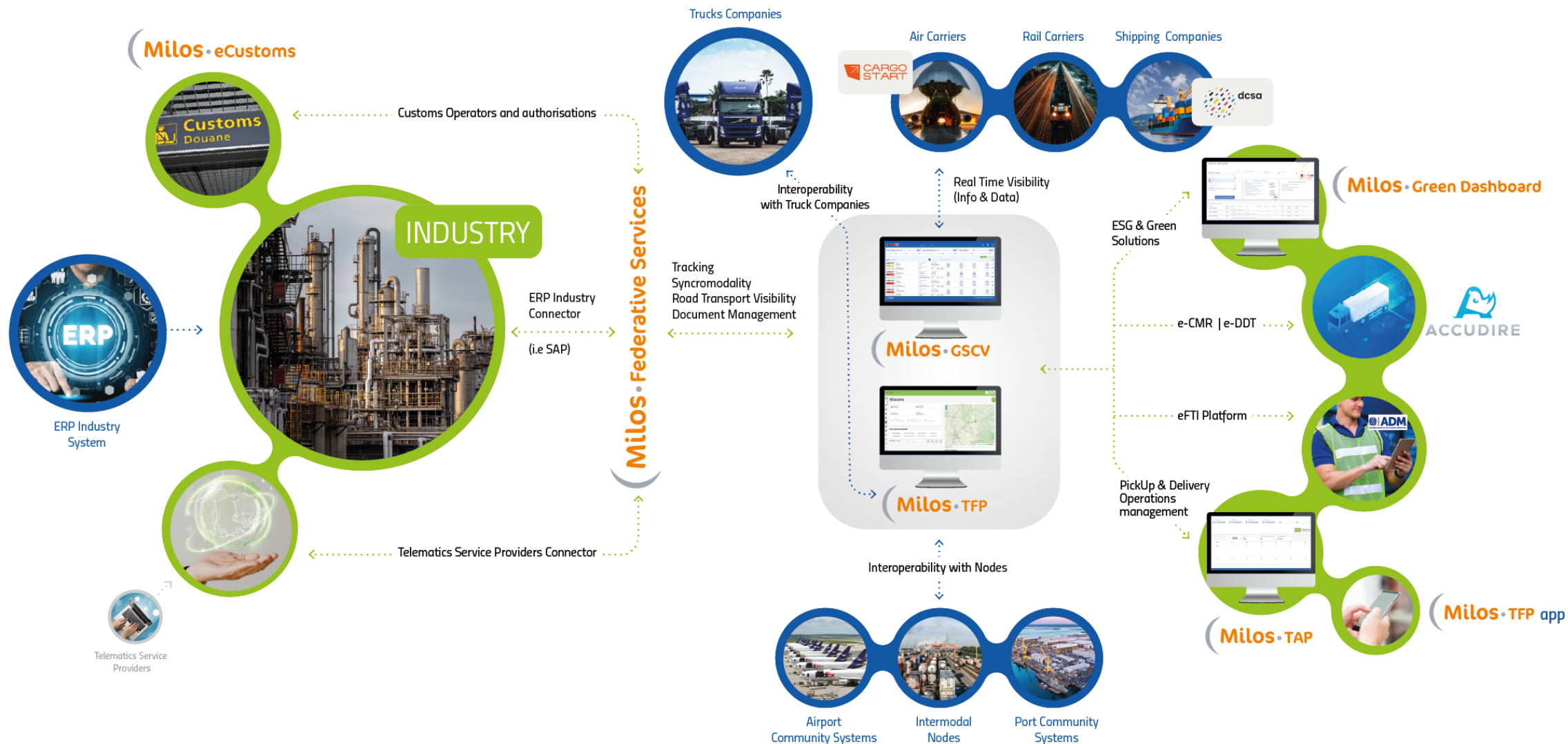
Seamless Access Automation and Integration for Road and Rail Transport

Circle Group's solution streamlines road and rail access through OCR, RFID, and MILOS integration. It automates gate procedures, vehicle classification, and advance notice management, while seamlessly connecting with PCS/TOS/ERP/TMS for efficient access and check-in.

(Milos • TFP) (Milos • TAP)

Milos Global Supply Chain Visibility – Integrated Ecosystem

Linking Platforms, Driving Process



ECONOMIC AND COMPETITIVE IMPACTS OF THE ABSENCE OF DIGITISATION

+ 15%

Manual errors

+ 25%

Production time inefficiency

-10%

Loss of business opportunities

-20%

Loss of decision-making efficiency

+ 60%

Dwell & Transit Time

INNOVATIVE FEDERATIVE SERVICES & SOLUTIONS FOR A DIGITAL ENVIRONMENT

Federated Platform
for Transport
execution

ERP Integration &
KPI Dashboard

ESG Solutions

Dematerialization &
eFTI

Customs innovative
procedures

Seamless Access
Automation and
Integration

ADVANTAGES AND BENEFITS ARISING FROM DIGITALISATION

- 99%

Manual errors

*Virtually eliminated
human errors*

+ 35%

*Productivity
increased*

*Up to 60% operational
gain*

- 35%

*Direct TEU costs
reduction*

*3.5× improved cost
control*

+ 25%

*Decision making
effectiveness*

*45% better decision-
making outcomes*

-90%

*Dwell & Transit
Time*

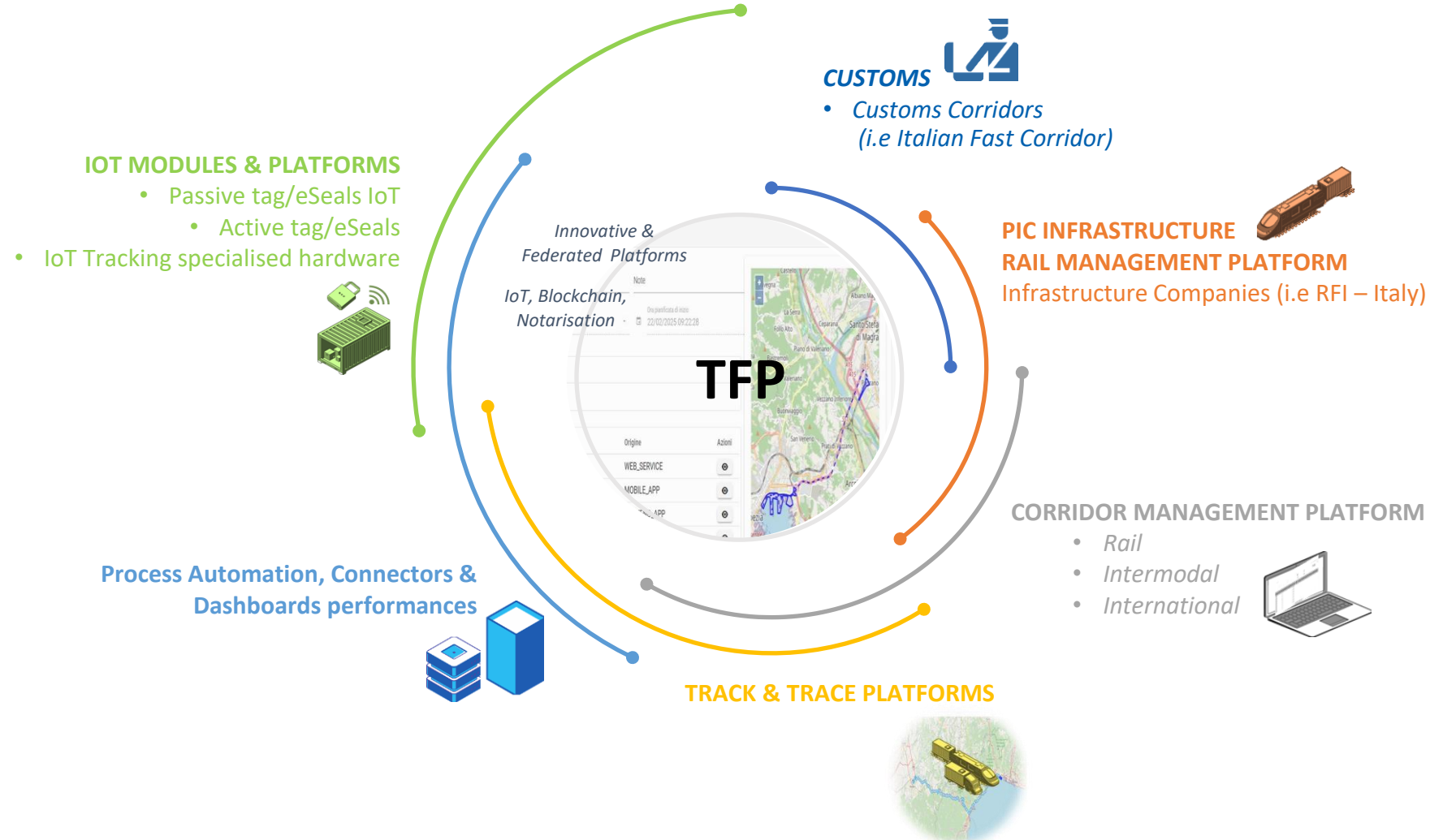
*Drastic reduction in
delays*

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MILOS® TRANSPORT FEDERATIVE PLATFORM (TFP)

- › **Active Monitoring:** Software with a dashboard to track and monitor transport units in real-time.
- › **Mobile App for Operators & Drivers:** Manage orders, track events (arrivals, loading, unloading, etc.), and upload documents/images for smoother operations.
- › **Interoperability:** Connects seamlessly with third-party IT systems and provides application-to-application integration, even without using the mobile app.



Key Challenges Addressed

Breaking Information Silos in Multimodal Logistics

- › **Fragmented communication** between transport actors (shippers, carriers, terminals, customs)
- › **Lack of real-time access** to delivery flows and operational status
- › **Manual processing of bookings, authorizations and pre-arrival notices**
- › **Inconsistent data exchange** formats across platforms (ERP, TMS, TOS, PCS...)



Interoperability Functions & Data Integration

One Digital Ecosystem, Multiple Connected Systems

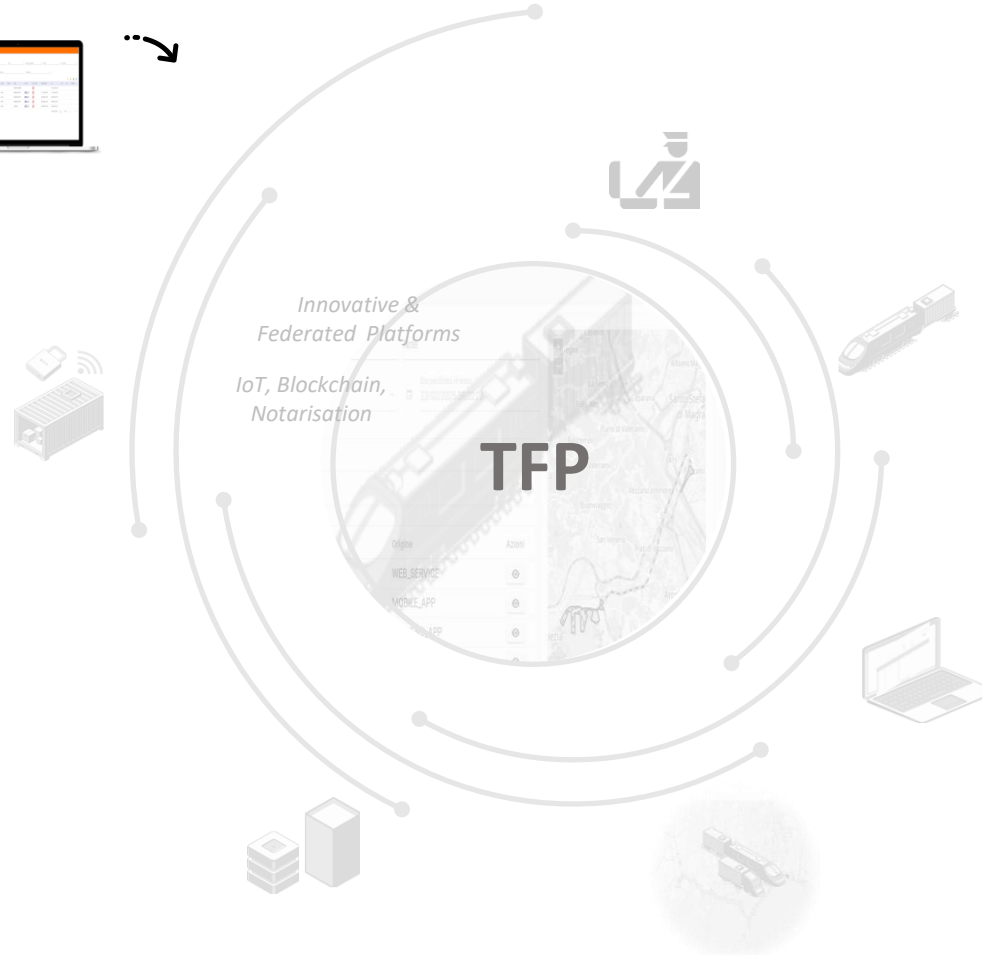
- › **ERP Integration:**
Order management, mission generation, shipment status
- › **TMS/3PL Integration:**
Carrier allocation, estimated costs, resource optimization
- › **Customs Authorities:**
Pre-clearing, AIDA/NSW, access authorizations
- › **Port & Inland Nodes:**
PCS, TOS, GOS, ACS, gate-in digitalization
- › **On-Field Execution:**
e-CMR, e-DDT, mission tracking via App
- › **Event-Based Architecture:**
Real-time notifications, predictive ETA, SLA monitoring

Some examples of interoperability with TFP and main features

MILOS® TRUCK APPOINTMENT PLATFORM



- › **Dock Scheduling Optimization:** Streamlines scheduling at distribution centers, improving resource use and efficiency.
- › **Self-Booking for Carriers:** Web interface or mobile app for carriers to book appointments, improving visibility and flexibility.
- › **Real-Time Notifications:** Alerts via SMS, email, and app to keep carriers informed.
- › **API Integration:** Simplifies the creation and confirmation of appointments with third-party systems.

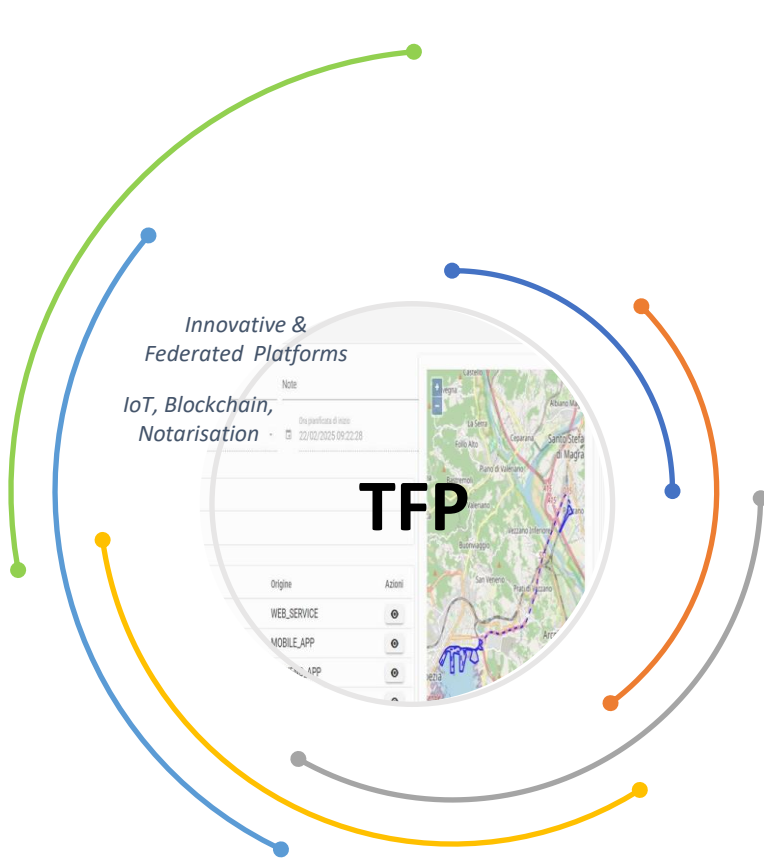


MILOS® FEDERATIVE & CUSTOMS SERVICES



- › **Customs Registers & e-Manifest:** Streamline customs compliance and data sharing.
- › **Fast Corridor:** Optimizes and accelerates the movement of goods through customs, reducing transit times and enhancing efficiency.
- › **EU e-Customs 2025 Integration:** Ensures advanced, up-to-date customs tools for shippers, freight forwarders, carriers, and MTOs.
- › **Data Security & Reliability:** Guarantees secure information exchange among all parties in the logistics chain.

Innovative & Federated platform for transport execution - Benefits



BENEFITS

IMPROVED SERVICE QUALITY & SECURITY

Seamless integration enhances reliability

EFFECTIVE PLANNING & RESOURCE UTILIZATION

Maximize operational efficiency

FASTER TURNAROUND

Minimized waiting times for quicker goods movement

FASTER TRANSIT & DWELL TIME REDUCTION

Minimizes delays and boosts efficiency

COST SAVINGS

Streamlined workflows reduce expenses.

ENVIRONMENTAL IMPACT

Reduced emissions through optimized operations

COST REDUCTION

Lower operational and security costs

REAL-TIME COMMUNICATION

Streamlined coordination across all stakeholders

CONTROL OF DATA & INFORMATION

Real-time access for better decision-making

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Global Supply Chain Visibility Introduction



Tools for achieving visibility:

- › **RFID:** Tracks products and materials automatically
- › **GPS Tracking:** Monitors the location of assets and vehicles
- › **Barcoding:** Automates product identification and tracking
- › **EDI:** Enables electronic document exchange between partners
- › **SCM Software:** Manages supply chain operations and collaboration
- › **Cloud-Based Platforms:** Centralize data for collaboration and real-time insights
- › **Blockchain:** Ensures transparency and traceability of transactions
- › **AI & Machine Learning:** Enhances decision-making with predictive insights



Target Client: Companies with complex supply chains needing end-to-end visibility

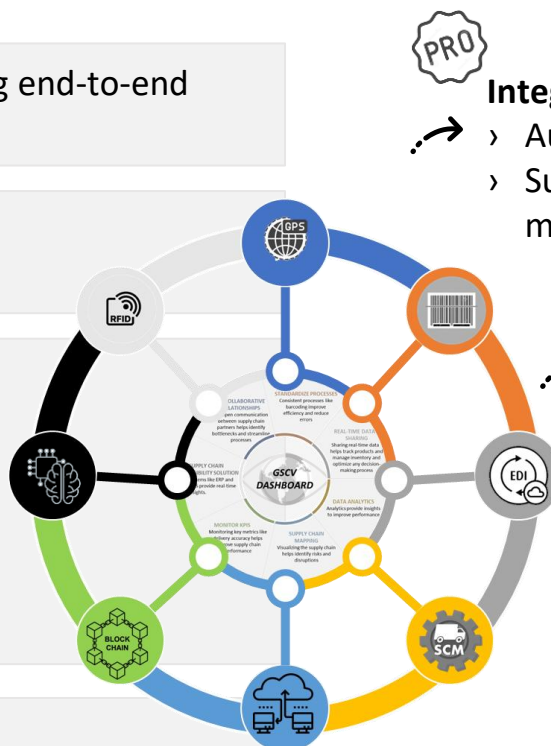
Target Users: Industries, Shippers, Freight Forwarders, Customs Operators

Key Features:

- › End-to-end visibility
- › Real-time Tracking
- › Alerts & Notifications
- › Operational KPIs
- › Multi-source integration (IoT, TOS, etc.)

Key Objectives:

- › **Boost Visibility:** End-to-end tracking of shipments and processes
- › **Streamline Operations:** Cut costs and errors via automation
- › **Unify Data:** Integrate logistics info from multiple systems
- › **Support Customs:** Facilitate digital interactions with brokers and partners
- › **Enhance Collaboration:** Enable seamless info-sharing across stakeholders
- › **Monitor Sustainability:** Include CO₂ data in supply chain performance



Integration with Milos® IoT Platform:

- › Automated data flow
- › Supports blockchain, smart devices (tags, e-seals, container monitoring units)

Federative Services:

- › Quick interoperability with existing platforms
- › Optimizes decision-making and operations

Integration with Intermodal Logistic Node:

- › Pre-advice and digital process management
- › Streamlined procedures
- › One-point data entry

Recognized by Gartner for:

- › Highly innovative solution for optimizing freight transport
- › Focus on digitalized port logistics and real-time data



The diagram illustrates a central hub-and-spoke model for digital connectivity in shipping. At the center is a green hexagon labeled **Milos Federative Services**. Surrounding it are several blue and green hexagons representing different system categories:

- Shipper** (Blue hexagon) with an icon of a warehouse and truck.
- Logistics systems** (Blue hexagon) with an icon of a ship, labeled *(TOS, WMS, ERP)*.
- APIs with external systems** (Blue hexagon).
- IoT data** (Blue hexagon) with an icon of a globe and signal waves, labeled *(containers, vehicles)*.
- Compliant – direct integration with Shipping Companies** (Green hexagon) with the **dcsa** logo.
- Ocean & Air platform integration – CargoStart, INTTRA, Maritime Traffic, TradeLens** (Green hexagon).
- Shipping Agencies & Customs integrations** (Green hexagon).
- Tracking Providers for Rail, Air & Road** (Green hexagon).

Arrows indicate data flow and integration paths. A dashed arrow points from the **Shipper** to the **Logistics systems**. A solid arrow points from the **Logistics systems** to the **APIs with external systems**. A solid arrow points from the **APIs with external systems** to the **Milos Federative Services** hub. A solid arrow points from the **IoT data** to the **Milos Federative Services** hub. A solid arrow points from the **Compliant – direct integration with Shipping Companies** to the **Milos Federative Services** hub. A solid arrow points from the **Ocean & Air platform integration** to the **Milos Federative Services** hub. A solid arrow points from the **Shipping Agencies & Customs integrations** to the **Milos Federative Services** hub. A solid arrow points from the **Tracking Providers for Rail, Air & Road** to the **Milos Federative Services** hub. A solid arrow points from the **Milos Federative Services** hub to the **Booking Shipping Instruction Track & Trace** text. A dashed arrow points from the **Booking Shipping Instruction Track & Trace** text to the **Shipper**.

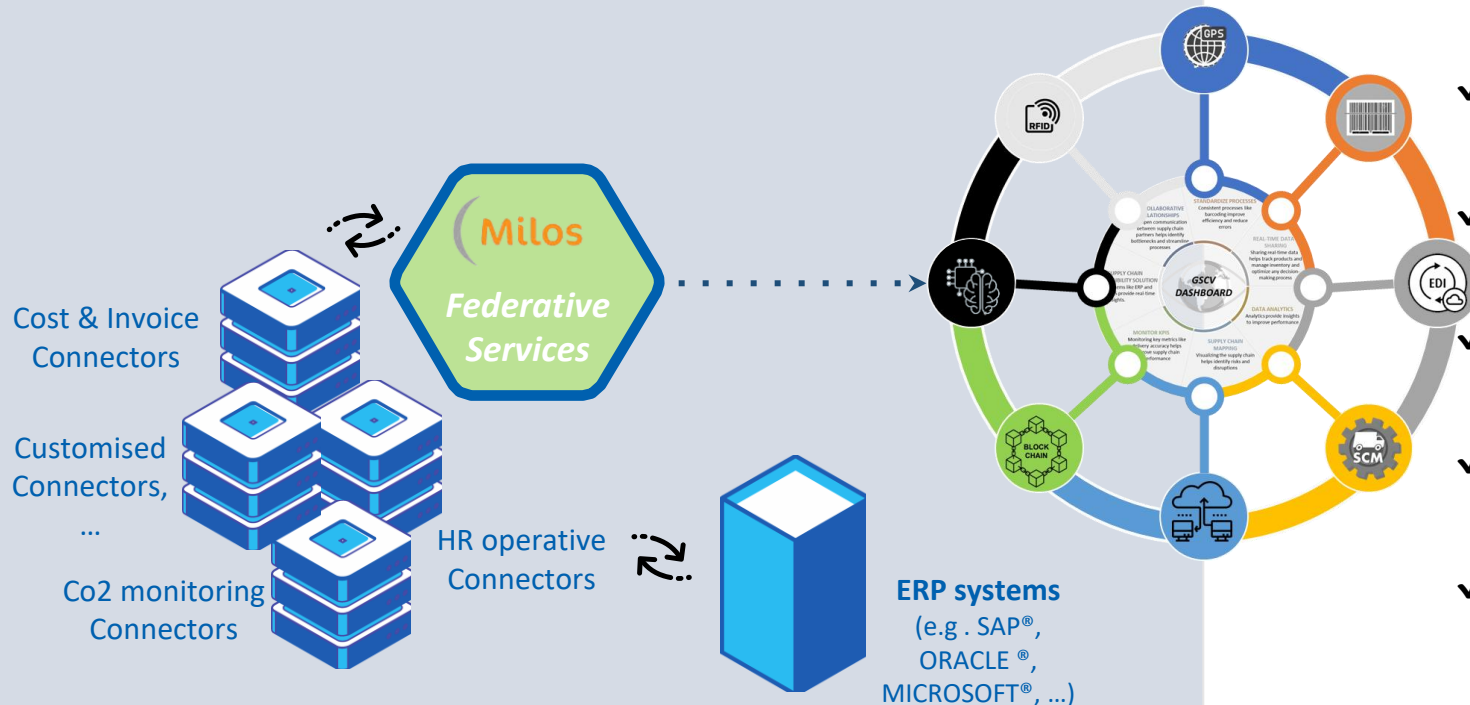
Text at the top right: **When direct integration is not possible, Milos provides digital connectivity through various platforms and shipping companies for data integration.**

When direct integration is not possible or desired, it provides digital connectivity with various existing platforms and shipping agencies.

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Process Automation & KPI Analytics

Thanks to integration with shippers' ERP systems, Milos® Global Supply Chain Visibility allows the development of specific dashboards for analytics & reporting and ensures process automation.



Benefits:

- ✓ **Streamlined Integration & Access:** Quick access to services from carriers with digital Track & Trace.
- ✓ **Cost & Complexity Reduction:** : Fewer errors and calls with digitized data flow.
- ✓ **Proactive Management:** Reduced downtimes and demurrage, better warehouse organization.
- ✓ **Process Automation:** Automates processes like proof of delivery, invoicing, and cost allocation, via ERP integrations.
- ✓ **Data-Driven Insights:** Analytics on costs, emissions, service quality, and performance for informed decisions.
- ✓ **Comprehensive Benefits:** Cost savings, workflow visibility, compliance, risk management, scalability, flexibility, and customization

OVERSEAS TRACKING MODULE

[illegible]

MAIN DASHBOARD VIEW

- › Offers a **comprehensive overview** of all **shipment cases** via a **user-friendly interface**.
- › Allows for **advanced search** using configurable filters.
- › Includes a **graphical end-to-end journey** view of **each shipment** (pickup, loading/unloading ports or airports, final delivery).
- › Shipments can be **imported automatically via ERP connectors** (e.g., SAP).

SHIPMENT DETAILS VIEW

Each **shipment** has **dedicated sub-pages**:

- › **INFO**: Displays key information (e.g., client, agent, consignee), a task list (configurable actions with checkboxes and notes), and general notes.
- › **DOCUMENTS**: Serves as a document archive, allowing users to upload various file types (PDF, Excel, Word) related to the shipment.
- › **ROAD TRANSPORT**: Contains details on truck transport including carrier info, vehicle plate, pickup/delivery addresses, container/package data, and integration with transport planning tools.
- › **MAIN TRANSPORT (Core Module)**: Shows maritime or air shipment details including carrier, loading/unloading hubs, document status, and real-time tracking events fetched via system-to-system connections (e.g., shipping lines, air cargo platforms). Includes shareable tracking links.
- › **CUSTOMS BROKER / FOREIGN AGENT**: Pages dedicated to third parties involved in customs and overseas operations. Users can track interaction statuses and send pre-filled emails to predefined contacts.

OVERSEAS TRACKING MODULE

A built-in service that ensures **real-time tracking** of shipments by interfacing with external maritime and air cargo providers via APIs.

- › Supports both **PULL** and **PUSH API models** following **DCSA standards** (v2.2).
- › Provides **updates** on **shipping events** and estimated arrival times (**ETAs**).

Integrated Providers Include:

- › **Maritime**:
MSC, Maersk, CMA-CGM, YangMing, COSCO, Tarros, Messina, Arkas, MarineTraffic
(e.g., bookings, B/L numbers, container IDs used to query APIs)
- › **Air Cargo**:
CargoStart – Offers real-time flight milestones for shipments.

OVERSEAS TRACKING MODULE

Overview

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- › Supports both **PULL** and **PUSH API models** following **DCSA standards** (v2.2).
- › Provides **updates** on **shipping events** and estimated arrival times (**ETAs**) about customer' cargo voyage.
- › Enhances tracking while improving efficiency, data accuracy, and booking simplicity.

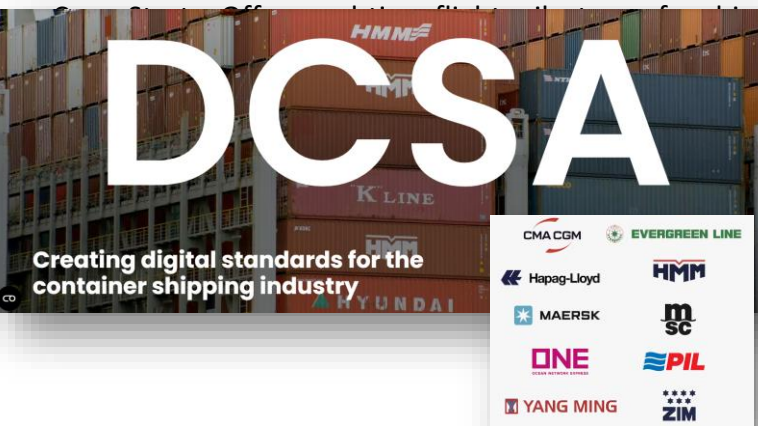
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› **Air Cargo:**

CUSTOMER_32 970		IT - ITVDL - VADO LIGURE		TRAIGUEN		SA - SAJED - JEDDAH		CUSTOMER_38 872	
Equipment	Eq.Type	Luogo	Nave	Trasporto	Descrizione	Booking			
MRKU4750964	40' HC	SAJED			Empty received at CY	249573756			
MRKU4750964	40' HC	SAJED			Import to consignee	249573756			
MRKU4750964	40' HC	SAJED	GSL TINOS		Import Discharged from Vessel	249573756			
		SAJED	GSL TINOS		Actual arrival	249573756			



Digital Container Shipping Association – DCSA is an organisation established in 2019 by the largest container shipping companies,

- › To shape the digital future of container shipping by being the industry's collective voice, working towards alignment and standardization;
- › To set frameworks for effective, universally adoptable solutions and innovation in Container Shipping Digitalisation.



Circle Group' Overseas Tracking Service is able to provide to customers the most recent version of DCSA' Track&Trace Service.

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A Digital Platform for measuring and reducing LOGISTICS-RELATED EMISSIONS



*In today's sustainability-driven logistics landscape, the **Green Dashboard** offers a strategic solution to track and minimize CO₂ emissions across multimodal transport networks.*

- › Provides real-time visibility into the environmental footprint
- › Supports data-driven decisions for greener operations
- › Supports alignment with EU sustainability regulations



Enabling certifiable KPIs



Aligning with EU sustainability goals



Real-time view of environmental footprint



Scope 3 Emissions Coverage



ESG Compliance Readiness Score

Target Client: Companies focused on environmental sustainability, ESG compliance, and emissions reporting

Target Users: Sustainability managers, compliance officers, CSR teams, Shippers, Freight Forwarders, Customs Operators

Key Features:

- › CO₂ & pollutant emissions calculation
- › PDF/Excel reporting
- › API integration
- › Advanced filtering & analysis

Key Objectives:

- › **Track Emissions:** Real-time CO₂ monitoring across all transport modes
- › **Ensure Compliance:** Support ESG reporting and EU sustainability goals
- › **Enable Smart Decisions:** Optimize logistics through data-driven insights
- › **Certify KPIs:** Provide auditable environmental performance metrics
- › **Centralize Data:** Aggregate emissions in one unified platform



Benefits:

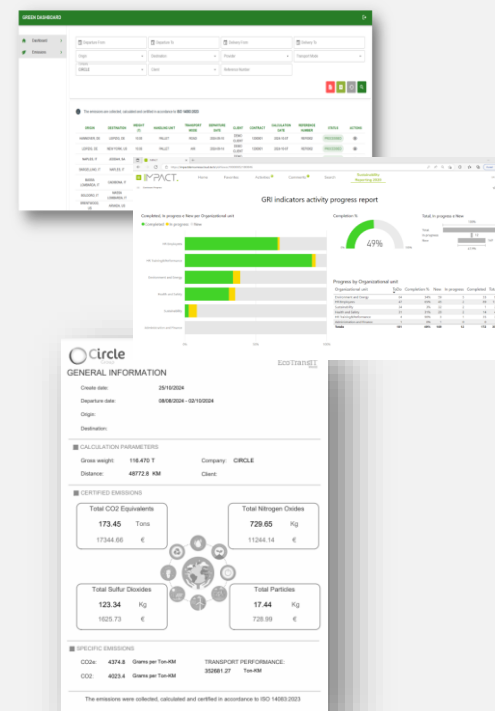
- ✓ **ISO 14083:2023 Certified:** Audit-ready carbon emission calculations
- ✓ **End-to-End Coverage:** Full integration across all transport modes
- ✓ **ESG & Regulatory Compliance:** Align with sustainability frameworks
- ✓ **Transparent & Traceable:** Share trusted data with stakeholders
- ✓ **Smarter, Safer Operations:** Minimize manual errors and optimize workflows
- ✓ **Actionable Insights:** Drive emission-reduction strategies across the supply chain

Data sources:

*Native Connectors with Circle Group Suites & Products
&
Connectors with Third Parties Systems*



Business Outcomes:



MEASUREMENT
Greenhouse gas emission
reduction strategy

REAL TIME VISIBILITY
Standalone Solution that can
integrate the entire Supply
Chain for all Transport modes

PRECISION
Audit Proof Carbon Emissions

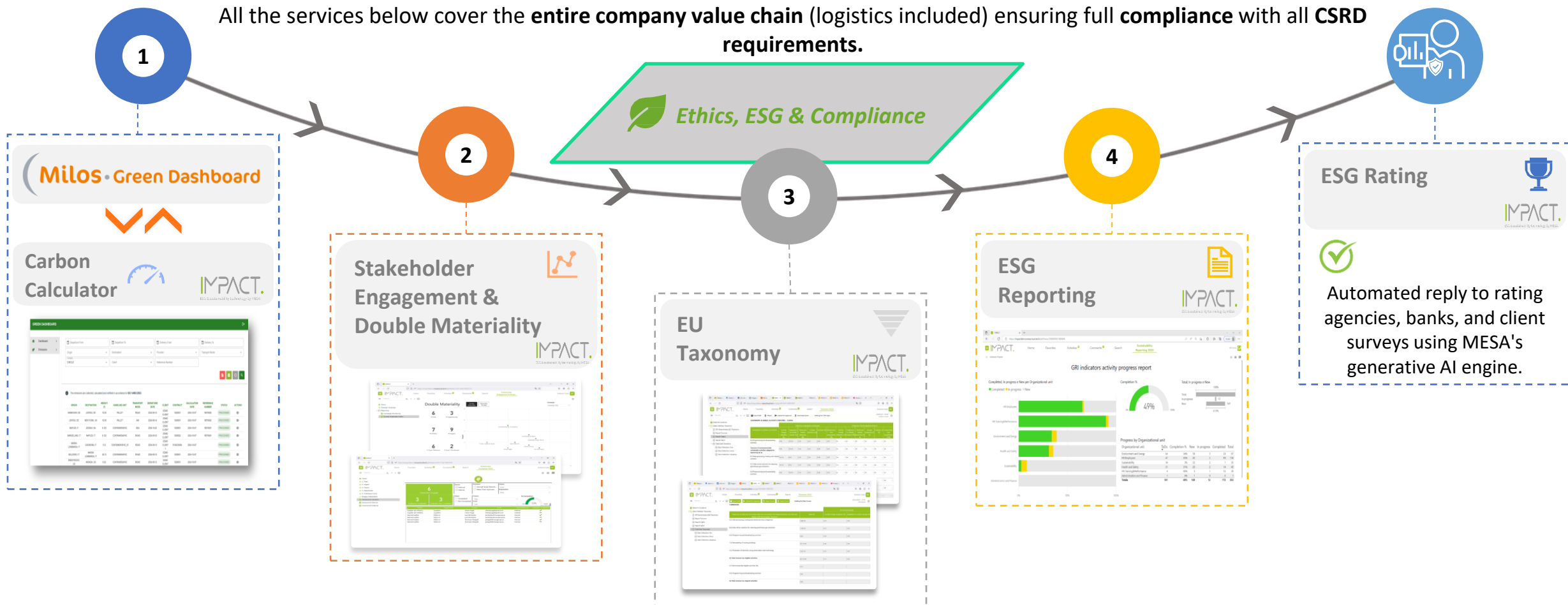
Green Dashboard Add-On – ESG Solution

in collaboration with MESA – Process Overview

Green Dashboard is integrated with **IMPACT**, MESA's service that generates **ESG ratings** for companies.

Our integration enables the calculation of **ISO 14083:2023**-certified **Scope 1** and **Scope 3** emissions.

All the services below cover the **entire company value chain** (logistics included) ensuring full **compliance** with all **CSRD** requirements.



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Regulation (EU) 2020/1056, also known as **eFTI (Electronic Freight Transport Information)**, has as its main objective the digitisation of freight transport information in the European Union, facilitating the electronic exchange of data between Economic Operators (EO) and Competent Authorities (CA)

Applies to regulatory information on the **international carriage of goods by road, rail, inland waterways and air** (limited to cargo security checks)
Also includes special cases relating to the **international transport of dangerous goods and waste**.

Member States are required to accept information provided in electronic format and to ensure that Competent Authorities use uniform requirements and technical specifications for the acceptance of such information.

They must also implement interoperable IT systems to facilitate the exchange of data
The regulation establishes the role of the **eFTI Service Provider** as a provider of digital services on behalf of third parties



Innovative aspects



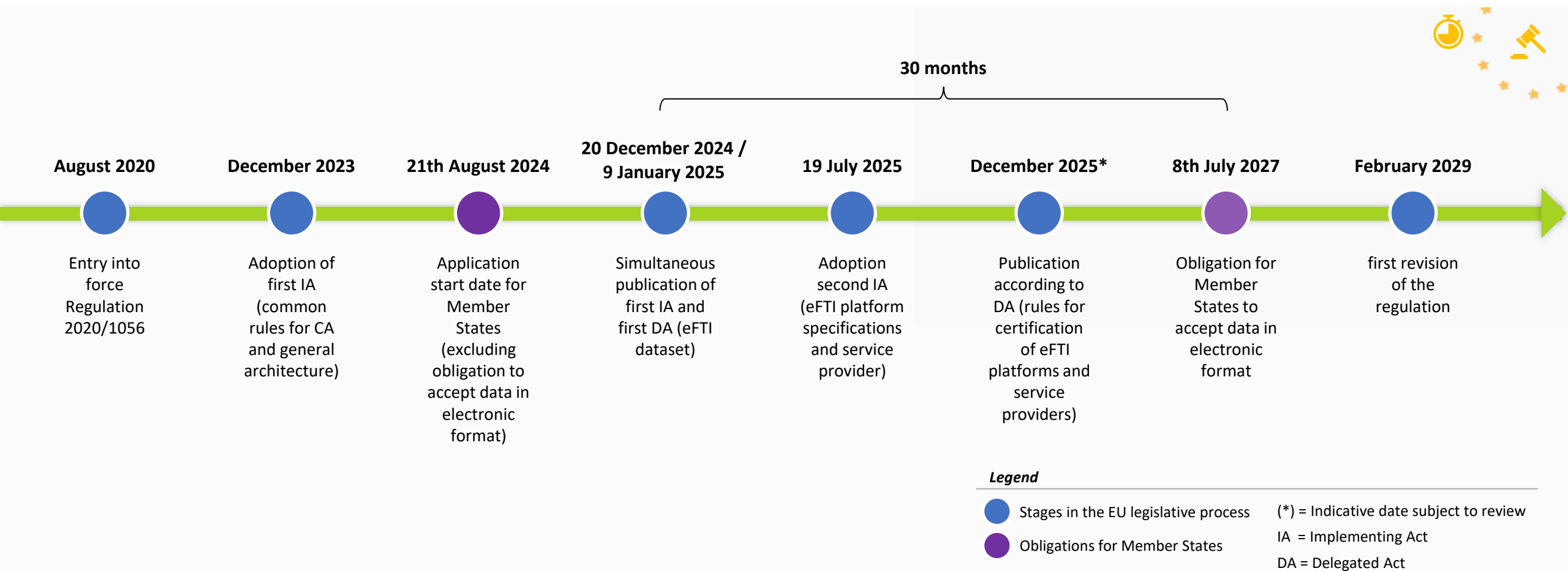
Information digitisation: improving operational efficiency and reducing administrative costs

Integration with Logistics 4.0

Standardisation of Information in freight transport, simplifying the validation process by Competent Authorities and reducing waiting times during inspections

Economic and Environmental Benefits: The European Commission estimates potential savings of up to EUR 27 billion over the next 20 years due to the reduction of administrative burdens.

eFTI - Regulation (EU) 2020/1056 - Application pathway



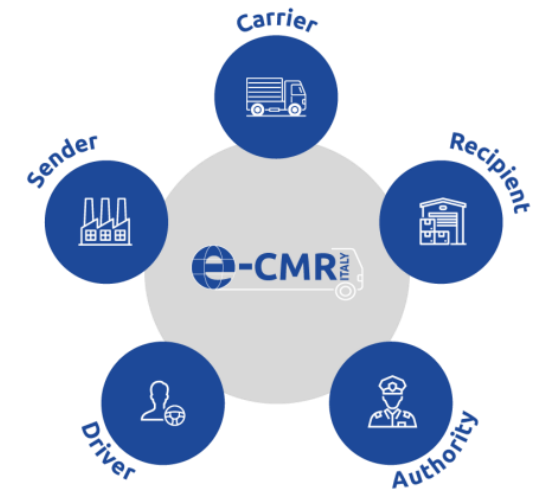


Features:

- › **e-CMR** includes **all details of the paper consignment** note with added features: document/photo attachments and digital signature authentication
- › Currently adopted by **39 countries** [UNECE source], aligning with the European Mobility Package for digitalization and sustainability in logistics
- › **Italy** supports e-CMR adoption under the **PNRR**, with a goal for stable implementation by September 2024, promoting sustainable mobility infrastructure

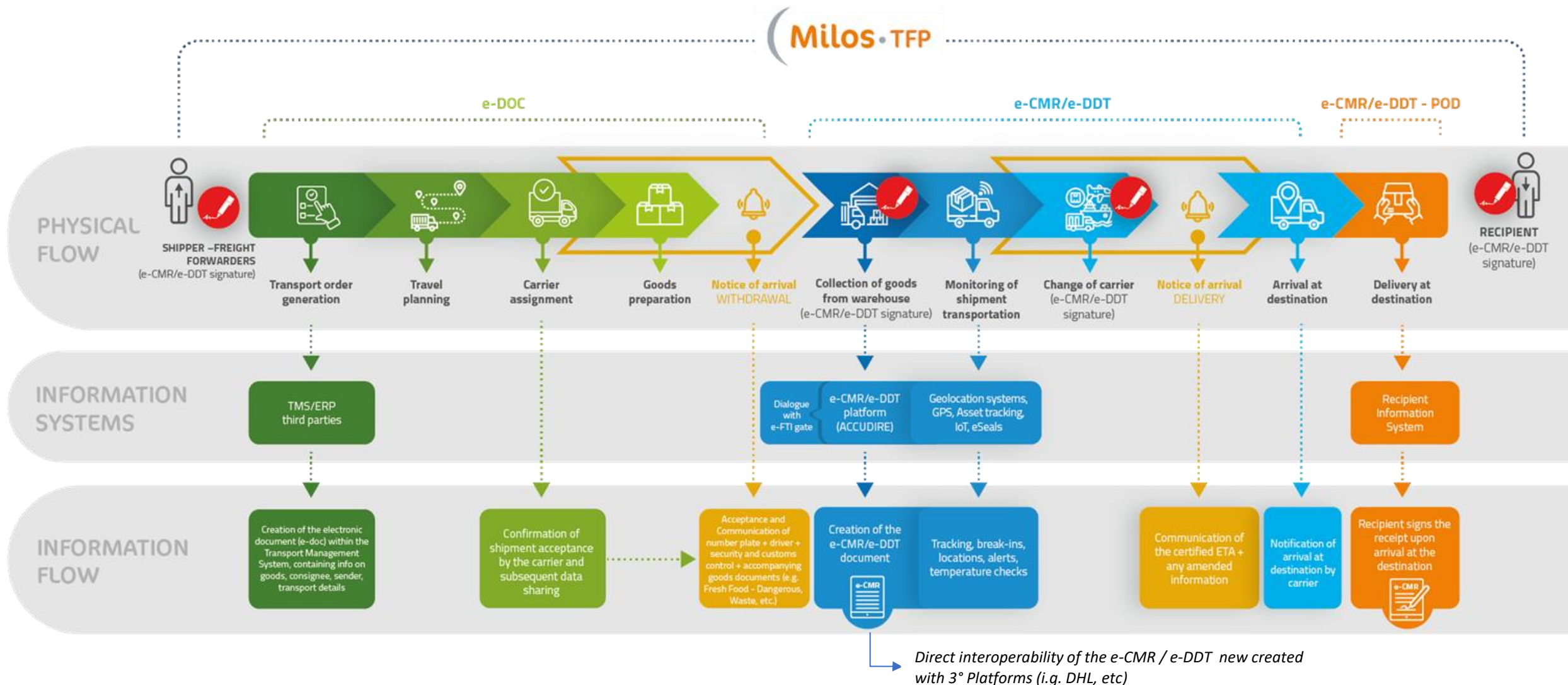
Benefits:

- ✓ Enhanced supply chain quality and improved route visibility for greater efficiency
- ✓ Reduced environmental impact through paperless operations and minimized storage needs
- ✓ Lower risk of human errors
- ✓ Support for multilingual platforms, enabling seamless international transport
- ✓ Faster information exchange, simplified processes, and reduced data access and retrieval times
- ✓ Swift response to inspections by relevant Authorities
- ✓ Accelerated invoicing with real-time proof of delivery

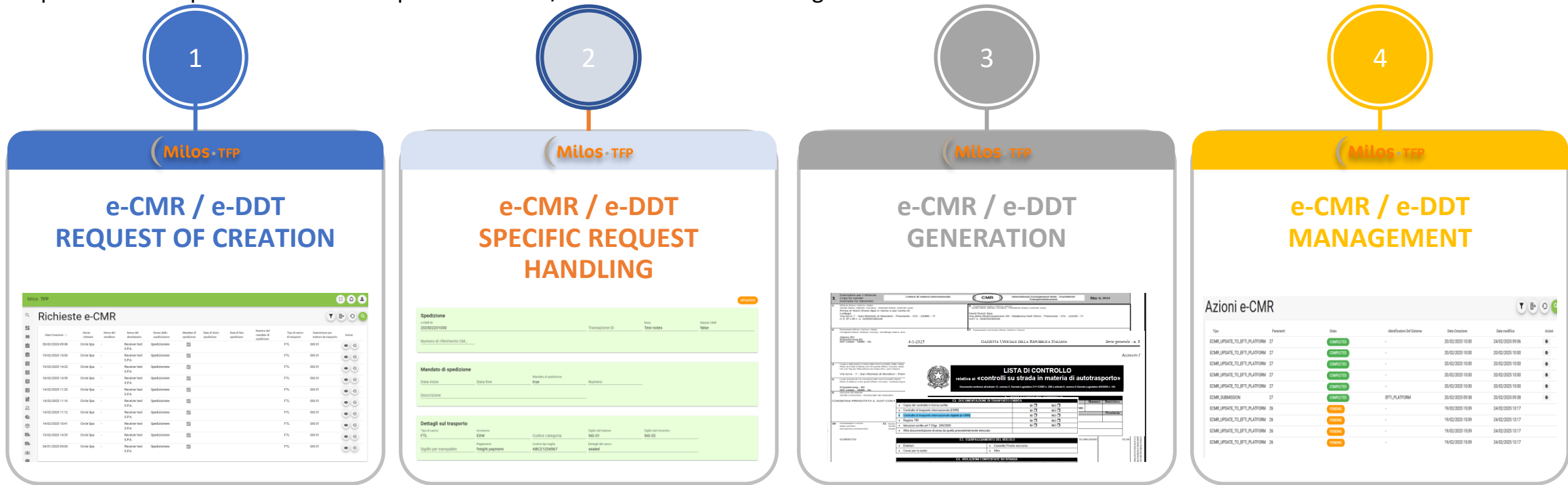


Transport Federative Platform Functionalities





the declination of e-CMR/e-DDT in Federated Services



A practical example from a concrete pilot of e-CMR / e-DDT Creation & Management



Standard cycle time savings per actor

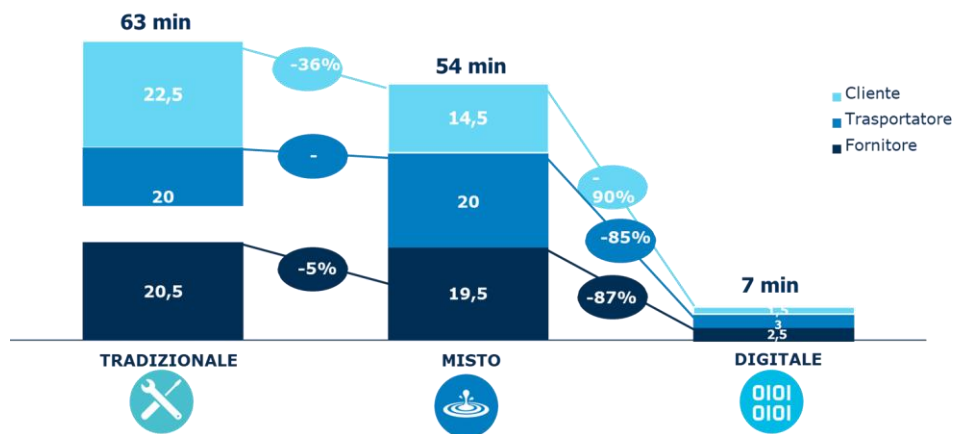
		TRADITIONAL	DIGITAL	DELTA TIMINGS
 CLIENT		22,5 min	1,5 min	-90%
 HAULIER		20 min	3 min	-85%
 SUPPLIER		20,5 min	2,5 min	-87%
Total		63 min	7 min	- 89%

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

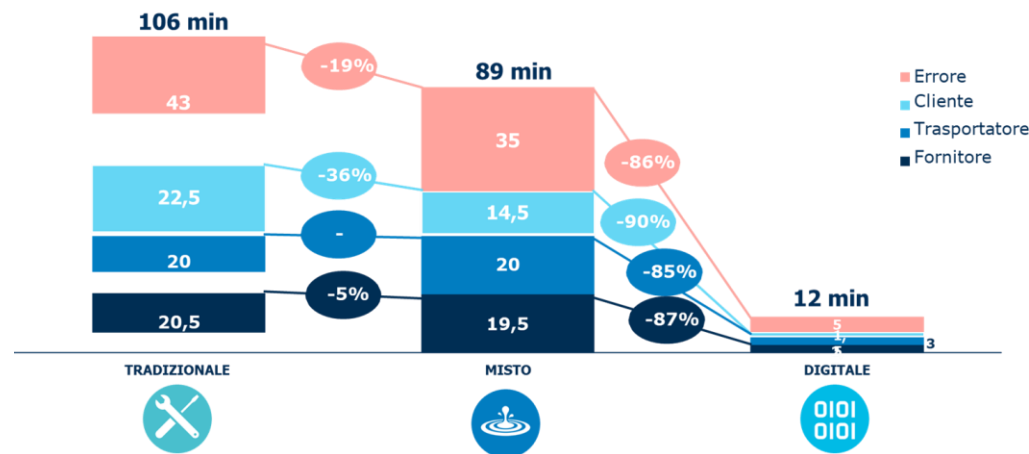
*Source: UnionTrasporti 2023 (report "Towards the implementation of the e-CMR system in Italy")

e-DDT process: time and cost advantages of DDT digitalization

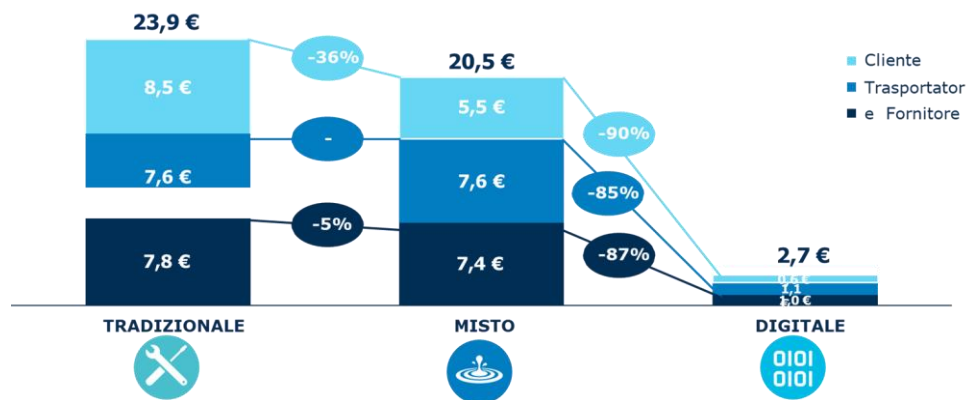
Time Saving, standard cycle per actor



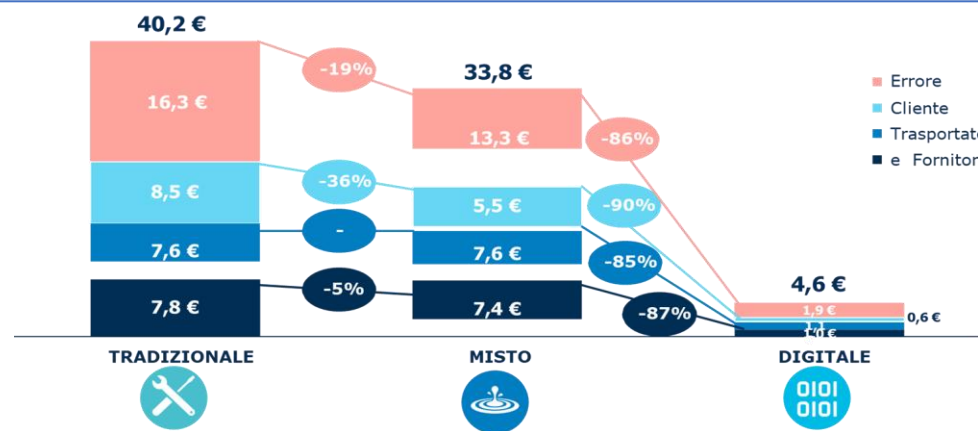
Time Saving, standard cycle per actor with error



Costs Saving, standard cycle per actor



Costs Saving, standard cycle per actor with error



The error rate is on average: 3% for the traditional and mixed scenario 1% for the digital scenario

The analysis focused exclusively on the actual time spent on activities. It does not consider the waiting time for responses from the supplier. Source: Osservatorio B2BPOLIMI, February 2024

1 Esemplare per il Mittente
Copy for sender
Exemplar für Absender

Lettera di vettura internazionale

CMR

International Consignment Note - Frachtbrief
Transportdokument

No CMR0001

1 Mittente (Nome, Indirizzo, Stato)
[Redacted]
Via Presidio di Schiavonini via G. Di Vittorio 610 20050 Liscate (MI) IT

6. [Redacted] (It, Land)

2 Destinatario (Nome, Indirizzo, Stato)
[Redacted]
65451 Kelsterbach DE

7 Trasportatore successivo / Successive carriers / Nachfolgende Frachtführer
Nome / Name

4-1-2025

GAZZETTA UFFICIALE DELLA REPUBBLICA ITALIANA

Serie generale - n. 3

3 Luogo e data presa in carico delle merci (Località, Stato, Data)
Place and date of taking over the goods (Place, Country, Date)
LISCATE (MI) IT - 15/12/2022

ALLEGATO I

4 Luogo previsto per la consegna delle merci (Località, Stato)
[Redacted]
Kelsterbach DE

5 Istruzione del Mittente
Sender's instructions - Anweisungen des Absenders

LISTA DI CONTROLLO
relativa ai «controlli su strada in materia di autotrasporto»
Documento conforme all'articolo 12, comma 4, Decreto Legislativo 29/11/2005 n. 286 e articolo 6, comma 6 Decreto Legislativo 4/8/2008 n. 144

A. DATA E LUOGO DEL CONTROLLO						
Data	Ora	Tipo strada			Numero	Km/civico
		<input type="checkbox"/> Autostrada	<input type="checkbox"/> Strada Statale	<input type="checkbox"/> Strada Regionale	<input type="checkbox"/> Strada Provinciale	<input type="checkbox"/> Centro abitato
Località		Comune			Provincia	

E2. DOCUMENTAZIONE DI TRASPORTO ESIBITA

• Copia del contratto in forma scritta	SI <input type="checkbox"/>	NO <input type="checkbox"/>
• Contratto di trasporto internazionale [CMR]	SI <input type="checkbox"/>	NO <input type="checkbox"/>
• Contratto di trasporto internazionale digitale [e-CMR]	SI <input type="checkbox"/>	NO <input type="checkbox"/>
• Regime TIR	SI <input type="checkbox"/>	NO <input type="checkbox"/>
• Istruzioni scritte art 7 Dlgs 286/2005	SI <input type="checkbox"/>	NO <input type="checkbox"/>
• Altra documentazione diversa da quella precedentemente elencata		

E3. EQUIPAGGIAMENTO DEL VEICOLO

• Estintori	• Cassetta Pronto soccorso
• Cunei per la sosta	• Altro

E4. VIOLAZIONI CONTESTATE SU STRADA

Legal Reliability of Electronic Signatures:

- › **Presumed Validity:** Electronic signature is presumed reliable unless proven otherwise.
- › **Unique Identification:** The signature is uniquely linked to the signer and can identify them.
- › **Exclusive Control:** The signature is created using tools that the signer can maintain under their exclusive control.
- › **Data Integrity:** The signature is linked to the data it refers to, making any changes identifiable

e-CMR Compliance with Control Authorities:

- › **Adherence to Regulatory Standards:** Ensuring e-CMR meets requirements for authorities involved in road transport controls.



EU Project eFTI4EU: *Enhancing Road Checks & Multimodal Transport*

The EFTI4EU project, supported by MIT, RAM, and Circle Group, aims to test eFTI tools to improve road checks in Europe, focusing on truck transport between countries. The project will also integrate e-CMR to enhance data sharing.

Use Case 1: Multimodal Transport in Italy

- › **Goal:** Simplify and digitalize logistics processes through e-FTI and the National Logistics Platform (PLN).
- › **Scope:** Monitor goods in transit across multiple logistics segments (e.g., sea, rail, and road).

Output:

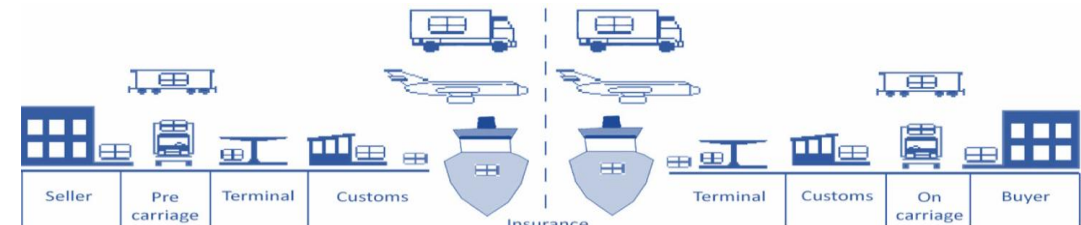
- › Improved efficiency of logistics processes.
- › Enhanced interoperability between IT systems of involved authorities.
- › More effective controls and information sharing between authorities.
- › Expansion of PLN functionality.

Use Case 2: Crossborder Pilot with e-CMR

- › **Goal:** Evaluate the effectiveness of e-FTI for improving roadside controls in Europe for truck transport between EU countries.
- › **Scope:** Monitor the flow of goods from Italy to Austria and vice versa, with e-CMR integration.

Output:

- › Assess the use of e-FTI for crossborder transport between EU countries.
- › Explore B2B tool preparation via e-CMR.

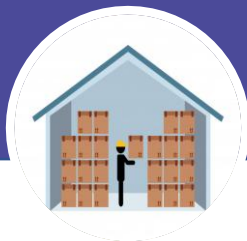


<p>Federated Platform for Transport execution</p> <p>Milos® Transport Federative Platform is a software-based equipped with a dashboard for the active monitoring of the units and interoperable with the operator's IT systems. Characterized by Application to Application interoperability, the solution includes a Mobile APP to allow the operational management of the orders received, the sharing of related events, as well as the uploading of documentary information or image.</p> <p>(Milos·TFP)</p>	<p>ERP Integration & KPI Dashboard</p> <p>Specific connectors integrate Milos® GSCV with customers' ERP systems enabling the development of specific dashboards for analytics & reporting, ensuring process automation and proactive approach.</p> <p>(Milos·GSCV)</p>	<p>ESG Solutions</p> <p>Carbon Footprint Federative Service is the ESG solution for automatic calculation of customer-specific multimodal supply chain. It is compliant with EU standard & ISO, available in SaaS, constantly updated and able to create custom dashboards and green reports.</p> <p>(Milos·Green Dashboard)</p>
<p>Dematerialization & eFTI</p> <p>Circle Group's digital solution streamlines international transport by eliminating paper with e-CMR, improving speed, efficiency, and reducing errors. Compliant with new ADM requirements (effective December 2nd), it automates customs flows and provides digital proof of delivery, export, and tax regime compliance, for both national (e-DDT) and international (e-CMR) documents.</p> <p>(Milos·TFP)</p>	<p>Customs innovative procedures</p> <p>Milos® exploits simplified and digitalized Customs Procedures - Italian "Fast Corridor" (maritime, rail & road) and "Air Fast Transfer" (air) - fully compliant with the European Customs Code, exchanging services between national Customs Agencies, Ports, Airports and logistic operators. Goals: costs reduction concerning import / export cycle, decrease of the permanence of goods in nodes, berth, hub, storage area, improvement of safety and cargo monitoring.</p> <p>(Milos·eCustoms)</p>	<p>Seamless Access Automation and Integration for Road and Rail Transport</p> <p>Circle Group's solution streamlines road and rail access through OCR, RFID, and MILOS integration. It automates gate procedures, vehicle classification, and advance notice management, while seamlessly connecting with PCS/TOS/ERP/TMS for efficient access and check-in.</p> <p>(Milos·TFP) (Milos·TAP)</p>

Solutions

Circle Group, through **Next Customs** company, works to foster interoperability among actors by providing a comprehensive and harmonized view of new legal and regulatory frameworks.

It has a **Broad knowledge** of the Customs landscape as applied to Transportation and Logistics and Supply Chain and supports in the operational and regulatory management of customs activities (commercial and industrial operations)



CUSTOMS REGISTERS



CUSTOMS DRAWER



AUTHORIZED ECONOMIC
OPERATOR (AEO)



FAST CORRIDOR -
AIR FAST TRANSFER



INTERNATIONAL
FAST & SECURE TRADE LANES



S.U.Do.Co

✓ *Vocational training in customs*

✓ ***Broad knowledge** of the Customs landscape
as applied to Transportation and Logistics
and Supply Chain*



✓ *Support in **the operational and regulatory
management of customs activities** (commercial
and industrial operations)*

✓ *Foster **interoperability among actors** by
providing a comprehensive and harmonized
view of new legal and regulatory frameworks*

Main Technology Services and Areas of Activity



CUSTOMS REGISTERS

Providing authorizations for customs registers such as approved location, temporary storage and bonded warehouse and allowed managing through our software.



FAST CORRIDOR - AIR FAST TRANSFER

Digital customs procedures that accelerate the movement of goods by enabling faster clearance, reducing storage costs, and providing real-time tracking through controlled corridors.



CUSTOMS DRAWER

A secure electronic platform for storing and managing all customs-related documents and records.



INTERNATIONAL FAST & SECURE TRADE LANES

Optimized trade routes that ensure quick and secure transportation for international shipments.



AUTHORIZED ECONOMIC OPERATOR (AEO)

A certification that grants trusted status for faster customs processing and enhanced supply chain security.



S.U.Do.Co

Specialized customs solutions for efficient management of international trade and customs clearance processes.



CUSTOMS REGISTERS

Providing authorisations for customs registers such as approved location, temporary storage and bonded warehouse and allowed managing through our software.

1. **Approved Location:**

Authorized site for 6 days storage of non-EU goods under customs supervision.

2. **Temporary Storage:**

Allows non-EU goods to be stored 90 days while awaiting customs destination.

3. **Bonded Warehouse:**

Storage facility for goods under customs control, ensuring compliance with regulations.

4. **VAT Deposit:**

Special storage for goods under VAT suspension, ensuring tax deferral until release.



Key Requirements:

- › Compliance with local and EU customs regulations
- › Proper documentation for goods stored
- › Regular customs inspections may apply



Process:

- › Goods arrive coming from non-Eu countries
- › Goods introduction in approved location, temporary storage or bonded warehouse until customs clearance
- › Final release after compliance checks

BENEFITS

- ✓ Manage customs procedures.
- ✓ Reduces tax liabilities with VAT suspension.
- ✓ Ensures regulatory compliance and secure storage.



CUSTOMS DRAWER

A secure electronic platform for storing and managing all customs-related documents and records.

Secure Document Storage:

Digital platform for storing and managing all customs-related documents (e.g., declarations, invoices, certificates).

Easy Access:

Provides quick and organized access to customs documents for audits or compliance checks.

Data Integrity:

Ensures the integrity and security of records with encryption and compliance with data protection regulations.

Integration:

Seamlessly integrates with customs systems for streamlined document submission and processing.



Key Requirements:

- › Digital submission of customs-related documents
- › Compliance with data protection and security regulations



Process:

- › Upload customs documents to the secure platform
- › Organize and categorize for easy retrieval
- › Access documents for compliance audits or submission to authorities

BENEFITS

- ✓ Reduces paperwork and manual filing.
- ✓ Ensures compliance and security of customs records.
- ✓ Facilitates quicker audits and customs processing



CUSTOMS DRAWER

A secure electronic platform for storing and managing all customs-related documents and records.

1

Starting Process

The moment the customs declaration are released, the process begins



2

Document Storage (MasterSPED)

Thanks to connectors, MasterSPED downloads and stores on MasterDOC the .xml file and its outcome

3

Document Creation (MasterSPED)

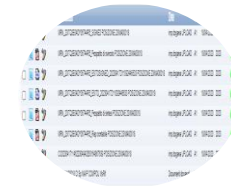
Automatically accesses the Customs Dashboard from which it quickly and easily retrieves 3 statements



4

Document Archiving (MasterSPED)

Documents are filled in MasterDOC where you can see all other documentations



5

Document Management

All documents can be managed for end customers





AUTHORIZED ECONOMIC OPERATOR (AEO)

A certification that grants trusted status for faster customs processing and enhanced supply chain security.

AEO Certification:

A status granted by customs authorities to businesses that demonstrate compliance with customs regulations, security standards, and other relevant requirements.

Global Recognition:

AEO-certified entities benefit from mutual recognition agreements between the EU and other countries, allowing easier access to international trade.

Security and Compliance:

Focuses on securing the supply chain and ensuring that businesses meet international standards for customs operations.



Key Requirements:

- › Compliance with customs and security regulations
- › Proof of financial stability and track record
- › Implemented security management systems
- › Subject to periodic audits



Process:

- › Submit application for AEO status
- › Customs audit for compliance
- › Receive AEO certification upon approval
- › Ongoing compliance and audits

BENEFITS

- ✓ Faster customs clearance and fewer checks
- ✓ Access to trade agreements and reduced timelines in shipments.
- ✓ Cost savings through streamlined processes



FAST CORRIDOR

Digital customs procedures that accelerate the movement of goods by enabling faster clearance, reducing storage costs, and providing real-time tracking through controlled corridors.

Controlled Corridors:

Designated routes for transferring goods between temporary custody warehouses, streamlining customs processes.

Customs Checks & Formalities:

All customs procedures are completed directly at the destination warehouse, reducing port time.

Modes of Transport:

Includes both road and rail transport for goods in transit



Key Requirements:

- › AEO Certification (AEO-C): Required for both departure and destination warehouses.
- › Goods Tracking: Mandatory for monitoring and secure handling.
- › Proper Storage: Customs-approved handling of temporary custody consignments.



Process:

- › Goods are transferred via designated fast corridor (road/rail) without customs transit declarations.
- › Customs checks and formalities are completed at destination temporary storage.
- › Goods arrive at the destination warehouse for final clearance.

BENEFITS

- ✓ Decongestion of Ports
- ✓ Cost Savings: Lowers expenses tied to port stopovers
- ✓ Increased Security
- ✓ Fully digitalized process for efficiency and tracking



AIR FAST TRANSFER

Digital customs procedures that accelerate the movement of goods by enabling faster clearance, reducing storage costs, and providing real-time tracking through controlled corridors.

Digitized Customs Corridor:

Applies the fast corridor concept to air cargo, enabling quicker transfer and customs clearance.

Temporary Custody:

Non-Union goods stored at temporary storage are transferred outside the airport to an inland warehouse for clearance.

Automated Process:

Fully digitalized, with geolocation and tracking via a monitoring platform.



Key Requirements:

- › Digitized Platform: Automatic tracking and monitoring of goods.
- › Manifest Validation: Requires operator's validation and designation of controlled corridors.
- › Temporary Storage Transfer: Goods must be received to the destination temporary storage for clearance



Process:

- › Goods arrive at the airport's temporary storage.
- › Customs procedures are initiated with digital tracking and geolocation.
- › Goods are transferred to inland warehouse temporary storage for final clearance.

BENEFITS

- ✓ Efficient flow management
- ✓ Enhanced security
- ✓ Complete digitalization
- ✓ Faster clearance
- ✓ Faster handling with reduction of airport storage costs



INTERNATIONAL FAST & SECURE TRADE LANES

Optimized trade routes that ensure quick and secure transportation for international shipments.

End-to-End Solution:

Designed to optimize maritime, logistics, and transport processes, enhancing efficiency and security across the supply chain.

IoT Integration:

Uses Internet of Things (IoT) technologies to simplify and integrate information flows.

Standardized & Digitalized Documentation:

Focuses on digitalizing and standardizing document flows, improving overall operational efficiency.



Key Requirements:

- › IoT Devices: Utilization of sensors and tracking devices for real-time data on goods and containers
- › Data Integration: Seamless exchange of information between various actors (customs, logistics, transport) to ensure smooth operations
- › Customs Procedures automated customs processes



Process:

- › Goods are tracked in real-time using IoT devices
- › Digital documentation is exchanged between involved parties
- › Automated customs processes streamline clearance
- › Continuous monitoring and control of operations via integrated digital tools

BENEFITS

- ✓ Fully visibility
- ✓ Enhanced security
- ✓ Simplified customs
- ✓ Faster operations

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Telematics

Advanced technology platforms to revolutionize real-time traffic management & data analysis. It collects and analyzes critical data on vehicle movements and traffic flows across road and highway networks. It provide continuous traffic monitoring, enabling efficient transportation management, reduced travel times, improved operational planning.



Infomobility

Logistic flows optimization by integrating data from multiple sources, ensuring transparency, traceability, and interoperability across the supply chain. Advanced technologies such as electronic seals (e-SEALS) and Bluetooth/NFC solutions enhance transit security, customs compliance, and operational efficiency.



Gate Automation

Simplification, IoT tech, automation access management at road and rail crossings, integrating payment systems and image recognition technologies. These solutions reduce waiting times, streamline operations, seamlessly connect with TOS, PCS, ERP, and TMS systems to ensure synchronization and security across logistics networks.

3 Principles for an Interoperable Logistics Chain:

1. ***Distinct but Federated Digital Solutions:***

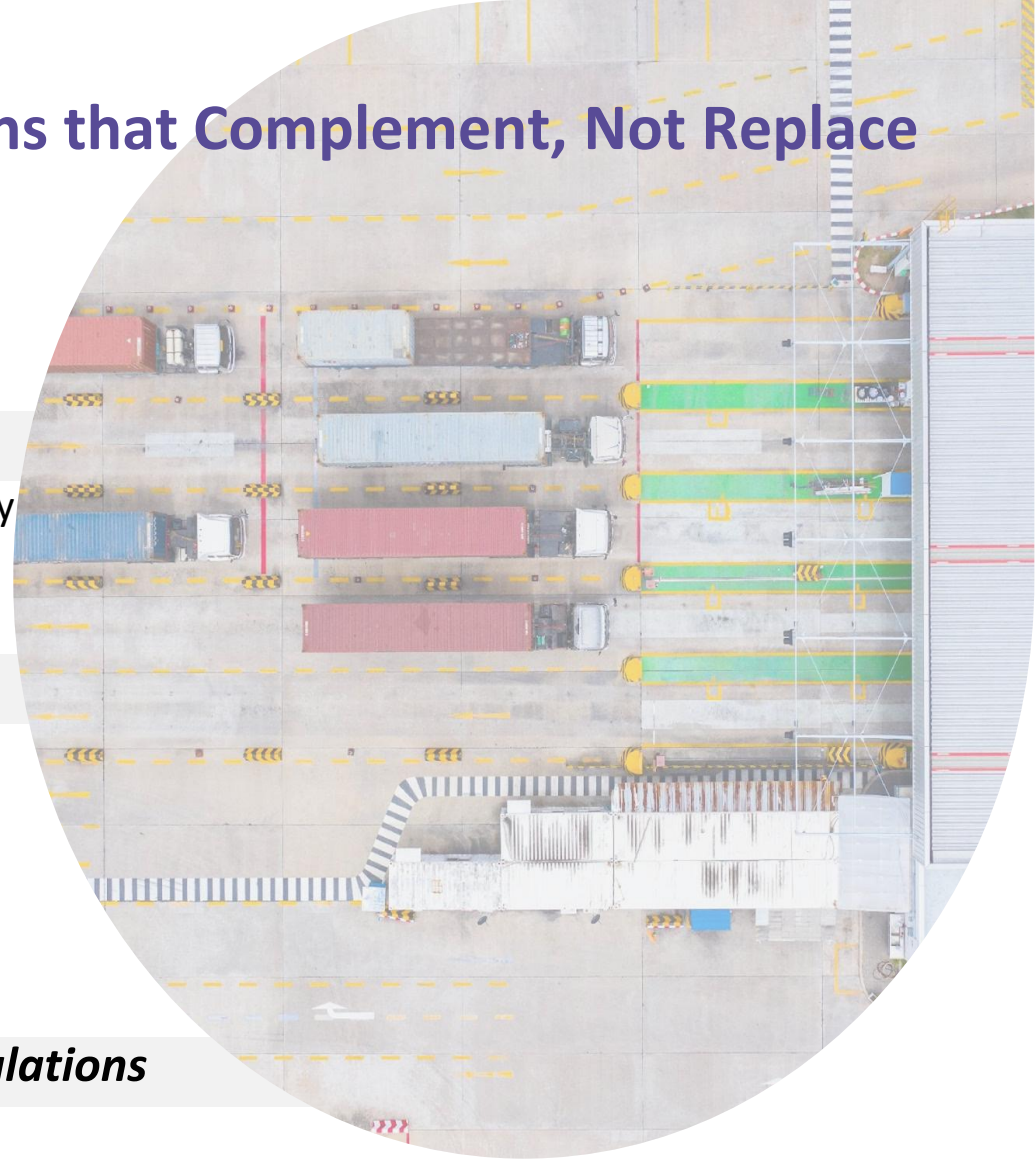
Solutions that are independent but connected with each other and third-party systems, respecting the operational needs and specific requirements of each stakeholder.

2. ***"1+1=3" – Value-Driven Solutions:***

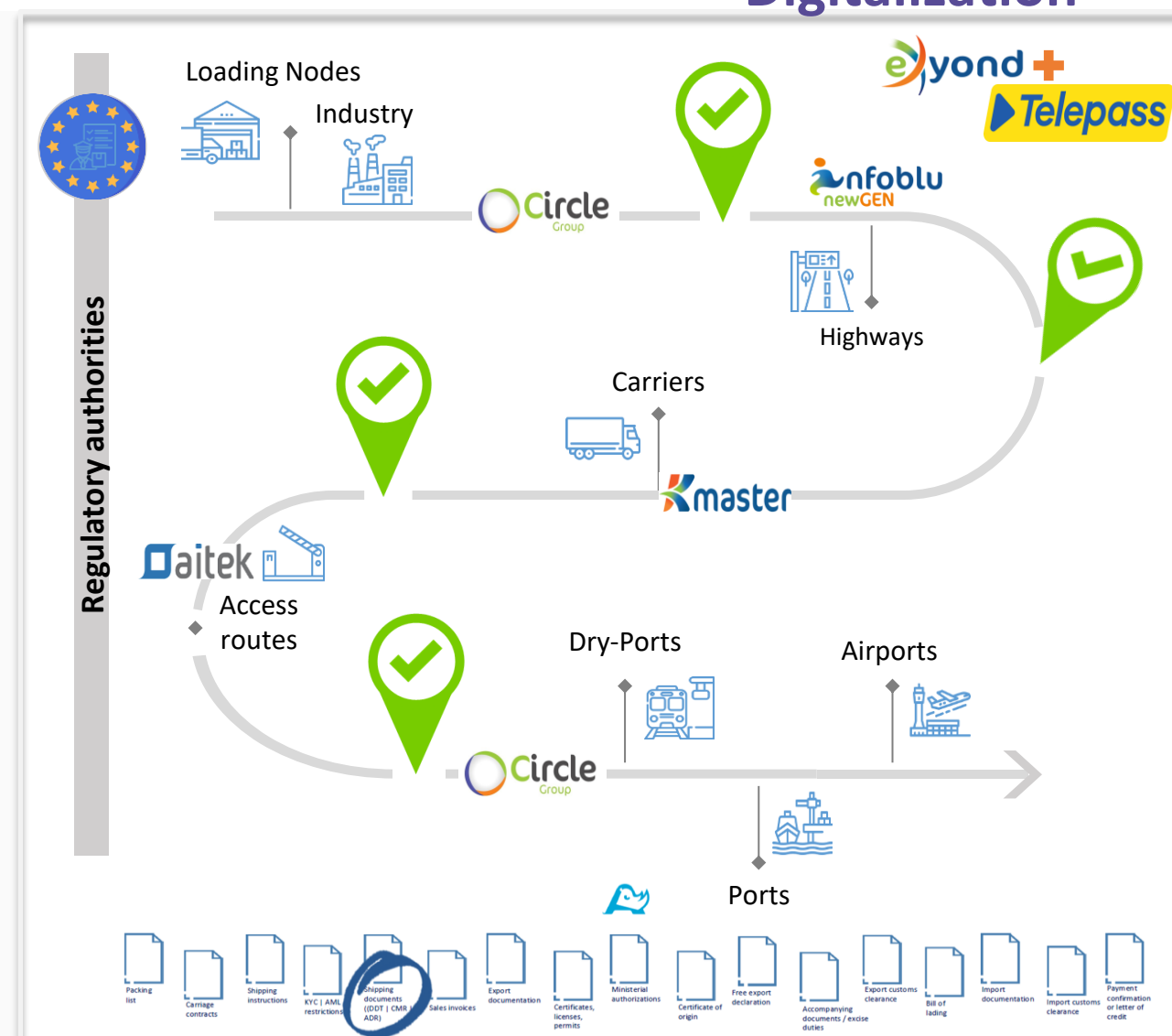
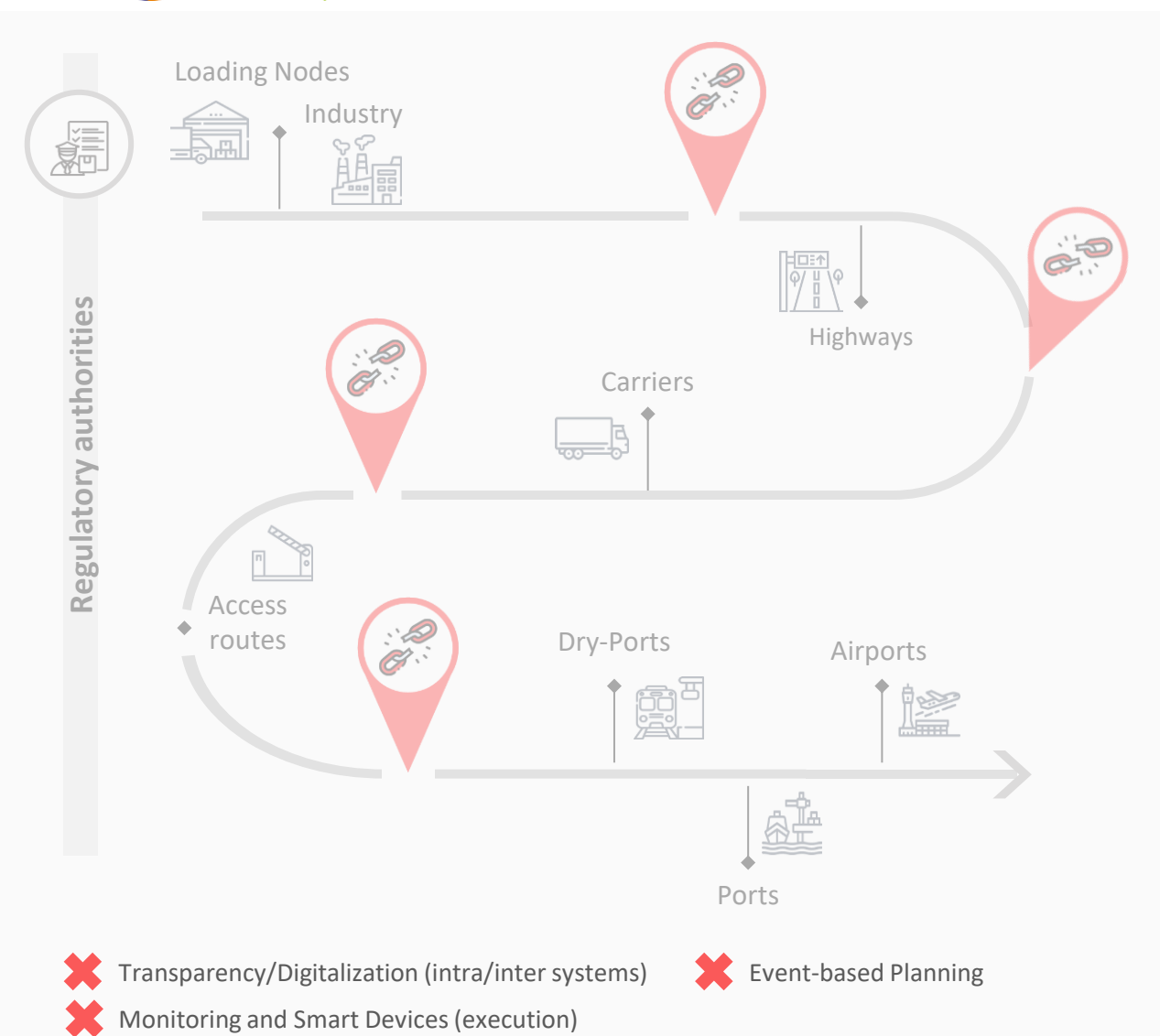
Solutions that:

- › Provide immediate value to the implementing stakeholder (e.g., reduction of operational costs, enhanced security, tax reliefs, financial incentives, etc.)
- › Interoperating with previous and next stakeholders, increasingly generate benefits as the logistics chain becomes more digital and interoperable.

3. ***Compliance with Cybersecurity and National/International Regulations***



The Consequences of Not Implementing Interoperability and Digitalization



Integration with Intermodal Nodes: A Driver for Industrial Growth

BENEFITS

- ✓ **APPROXIMATELY -30% TIME FOR ARRIVAL | ENTRY | STAY | EXIT IN NODES**
- ✓ **LESS THAN 90% PAPER USAGE**
- ✓ **- 90% REDUCTION OF MANUAL ERRORS**
- ✓ **IMPROVEMENT OF EFFICIENCY**



Before Arriving at the Gate:

- › Preview of information digitally at the terminal – **Full digital information flow**



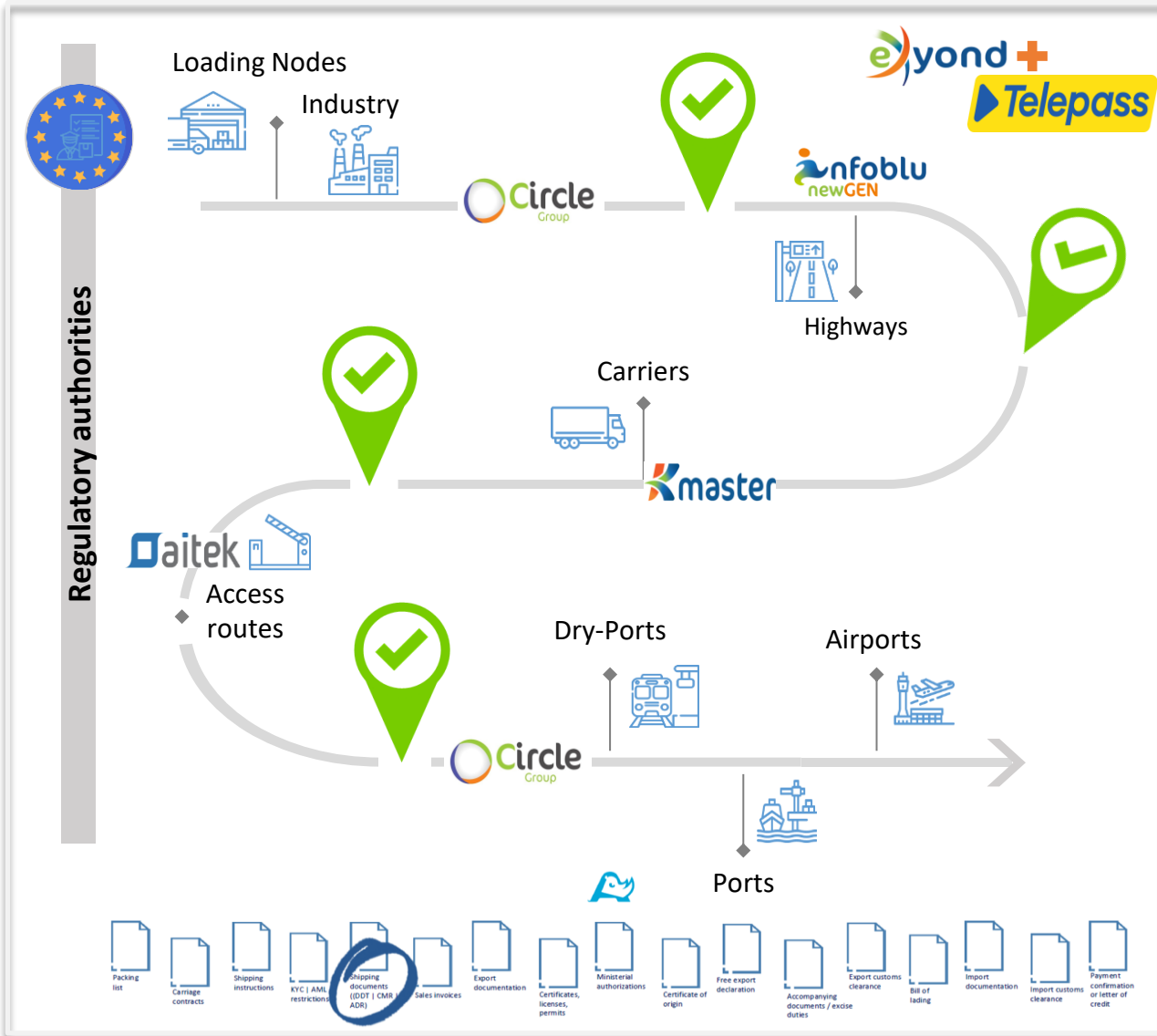
Just Before Arriving at the Gate:

- › When approaching the Gate it is possible to **communicate with the APP**



At the Gate:

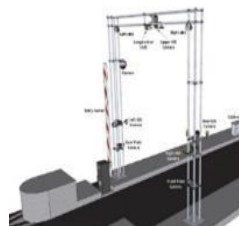
- › Is it possible to exploit the benefits of Gate Automation **OCR Cameras**



EXYOND INDUSTRIAL GATE PLATFORM



Gate Operating System



Gate Automation



Totem Interface Road-Lane

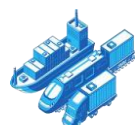


Exception Handler

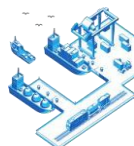


Pre-Advice & Truck Appointment Platform

INDUSTRIAL CONNECTORS



Freight Village System



Terminals (Port & Inland)

Port Community System



Industry



Complete hardware and software solution for management of gate movements

Compliant with OCR and RFID technologies; and interoperable with MILOS Truck Appointment Platform



Integrated solutions dematerialization and automation of road and rail access procedures

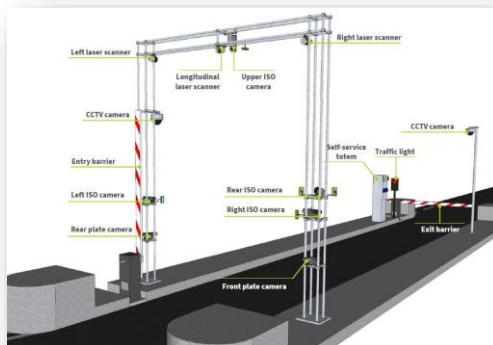
Digital platforms to simplify and automate procedures for managing advance notice and industrial access through road and rail gates, integrated with payment and image recognition systems for classifying container codes, number plates, vehicle type, damage registration, and more.



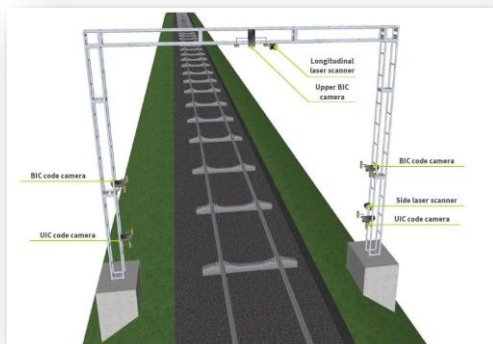
Automation of industrial access nodes through PCS/TOS/ERP/TMS interoperability

Natively integrated solutions with PCS/TOS/ERP/TMS to automate and simplify check-in and access procedures.

Road Lane



Rail Lane



Benefits:

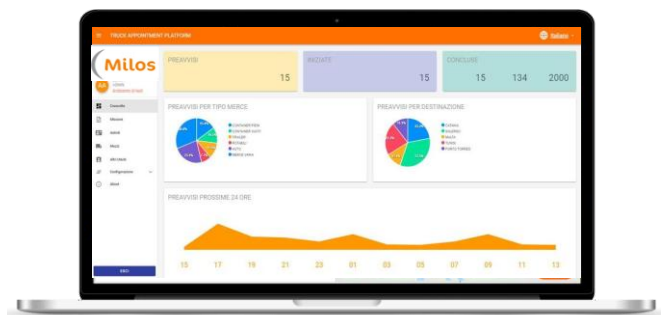
- ✓ Reduction of manual input errors
- ✓ Reduction of exceptions
- ✓ Dwell time reduction

Gate Automation equipped with RFID technology



Pre-Advice (PA) solution

Empowers road hauliers to initiate ITU (Intermodal Transport Unit) delivery and/or collection requests by submitting detailed information on the ITU and associated cargo, as well as uploading mandatory documentation. This process enables the industrial gate to verify, approve, and authorize the operation prior to gate access itself.



TAP Dashboard delivers a real-time, user-friendly interface for terminal operators, offering visibility into upcoming arrivals at industrial gate.

It flags operational risks, such as excessive unauthorized pre-arrival notices and projected gate congestion during peak hours.



Milos® TAP

Enhances the PA (Pre-Arrival) module by enabling road hauliers to schedule ITU (Intermodal Transport Unit) deliveries and/or collections within predefined time slots configured by the terminal, supporting a structured and efficient appointment system inside the industrial gate.



Mobile App

The system is fully integrated with a dedicated mobile application, allowing drivers to submit pre-arrival notifications and upload all required documentation in advance, ensuring compliance and streamlining industrial gate-in procedures.



Benefits

- ✓ Increased effective planning and resource utilization
- ✓ Reduced waiting times
- ✓ Faster turnaround of goods
- ✓ Coordinated & automated communications
- ✓ Save on process costs



Cofunding





TEST BEFORE INVEST



TRANSITION 5.0*



CONCEPT

The **Start 4.0** service provides companies access to services from accredited suppliers at the Start 4.0 competence center. These services may include developing a Proof of Concept or a test

A tax credit based on expenses for new investments in production facilities. Eligible investments include software, systems, and platforms for plant intelligence, with a requirement to show energy consumption improvements. Main interventions:

Type A: Software, systems, platforms for plant intelligence.

Type B: Employee training for production process transition.



CO-FINANCING PERCENTAGE

- › **80%** for small enterprises,
- › **70%** for medium-sized enterprises,
- › **30%** for large enterprises

The tax credit percentage depends on the energy savings achieved:

- › **45%:** Investments up to €2.5 million
- › **25%:** Investments between €2.5 million and €10 million
- › **15%:** Investments over €10 million



CONTRIBUTION LIMIT

No fixed contribution limit but, recommended not to exceed €120,000 – €130,000 to keep procedures streamlined

No specific limit



EXAMPLE

Logistics investments in the development of a Proof of Concept or test for digital solutions

Logistics investments in software to improve fleet route management, logistics flow, and goods traceability

**The cofunding opportunity is valid; however, it is necessary to await the go-live of the related regulations before proceeding*



References & Success cases



International Fast & Secure Trade Lanes Project - stakeholders



Main e-CMR Projects together with



<p>Federated Platform for Transport execution</p> <ul style="list-style-type: none"> › Real-time Unit Monitoring: +95% visibility of active transport units › App-to-App Interoperability: 100% integration with operator IT systems › Mobile Operations Management: -50% reduction in manual coordination time › Event Sharing & Documentation Upload: +90% of transport events digitally captured & timestamped › Full Traceability & Auditability: 100% digital chain of custody on shipments <p>(Milos • TFP)</p>	<p>ERP Integration & KPI Dashboard</p> <ul style="list-style-type: none"> › Real-time shipment visibility: +98% real-time tracking accuracy › ERP System Integration (via Connectors): 95% of shipments digitally managed and zero-paper usage › Exception Management: -70% effort in handling logistics anomalies › Partners Integration: +90% digital connectivity with logistics partners <p>(Milos • GSCV)</p>	<p>ESG Solutions</p> <ul style="list-style-type: none"> › Real-time CO₂ Monitoring: +95% coverage of emissions data across transport modes › ESG Reporting Readiness: 100% alignment with EU ESG & CSRD standards › Operational Sustainability: -20% emissions per shipment (average reduction) › Decision-Making Support: +30% optimization in route/supplier selection <p>(Milos • Green Dashboard)</p>
<p>Dematerialization & eFTI</p> <ul style="list-style-type: none"> › Paperless Process Efficiency: -90% reduction in physical document handling › Regulatory Compliance (EU eFTI): 100% readiness for EU Regulation 2020/1056 › Faster Border & Terminal Clearance: -50% average processing time at checkpoints › Lower Administrative Costs: -30% reduction in document processing and archiving › Improved Data Accuracy: -98% manual entry errors <p>(Milos • TFP)</p>	<p>Customs innovative procedures</p> <ul style="list-style-type: none"> › Faster Cross-Border Flows: -65% average cargo dwell time at customs › Optimized Inventory Management: -25% reduction in buffer stock requirements › Reduced Congestion & Costs: -30% savings on warehousing and demurrage fees › End-to-End Traceability & Compliance: +95% real-time visibility of customs status <p>(Milos • eCustoms)</p>	<p>Seamless Access Automation and Integration for Road and Rail Transport</p> <ul style="list-style-type: none"> › Automated Gate Procedures (OCR/Rfid): -70% reduction in gate processing time › Vehicle Classification & Check-in Automation: +90% accuracy in vehicle identification › Advanced Notice Management: +80% pre-advised transport arrivals › Reduced Congestion & Idle Time: -50% average truck dwell time at terminal gates <p>(Milos • TFP) (Milos • TAP)</p>

Challenge

ITALIANSPED is a **SACMI Group** company specialized in shipping, transport and integrated logistics services.

The company, a benchmark in the field of **logistics engineering**, is committed to concentrating its activities in the main logistics areas, so as to enhance the synergy between the territory and the services offered, guaranteeing ever greater punctuality, precision and attention to its customers.

The **federated tracking project** goes in the direction of obtaining more proactive information, speeding up data exchanges among its partners, increasing the efficiency of operations.

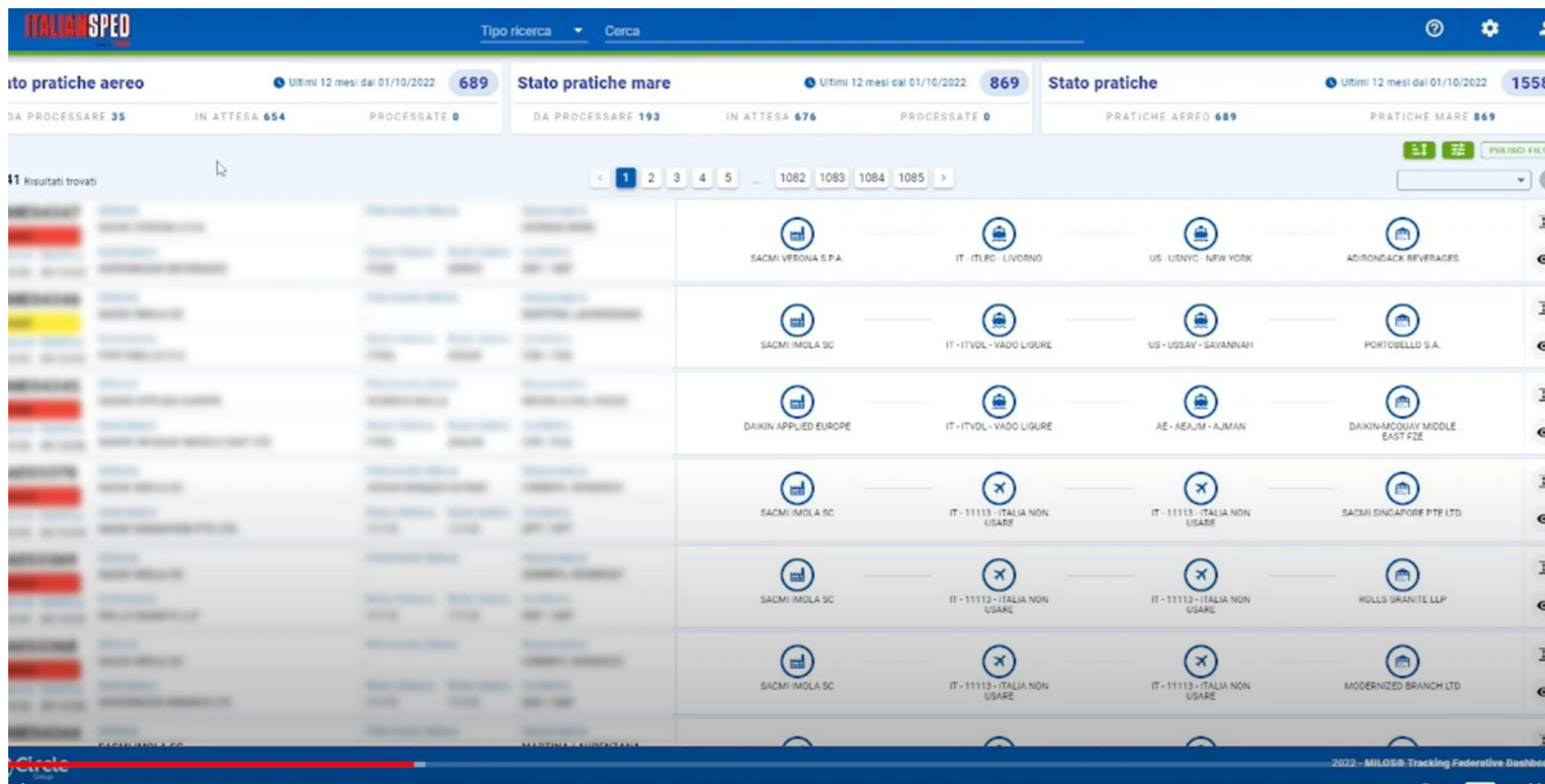


Solutions

- Implementation of the suite “**Global Supply Chain Visibility**”
- Development of Unified Dashboard for real-time tracking of multimodal transportation
- Improve the communication flow with other Supply Chain partners

Benefits

- ☐ Real time visibility of information flows
- ☐ Immediate data access and simplification of procedures
- ☐ Improvement of the logistic process
- ☐ Digital integration with Supply Chain partners



This example of an important international player, gives the opportunity of having a real time control of all goods (import and export) with an operative, security, customs, tracking DASHBOARD with ALERT and PROACTIVE approach.

Challenge

IKEA, multinational company that designs and sells home furnishings, has a strategic logistics hub in Piacenza (Italy). From this place goods are distributed to Italy, North Med and Middle East.

The process of customs clearance, for goods coming from non – EU countries, must occur at the time the container is discharged, so the time of arrival at destination, and their availability in the warehouse, is heavily affected from customs and port activities.



Solutions

- Implementation of the suite **“Global Supply Chain Visibility”**
- Development of specific integration among IT systems of IKEA and port, customs and logistic actors
- Implementation Track & Trace and simplified customs procedures

Benefits

- ☐ Information in real time on a single dashboard
- ☐ Integration with Customs and Port Security information
- ☐ Digitalisation of custom procedures in import and export
- ☐ Full digital platform able to share documents
- ☐ “Certified Information” arising from the use of IoT devices

Direct cost
reduction x TEU

- 30 %

Paper usage

- 100 %

Shipped
container's volume

80 %

Reduction of the
transit time

35 %

Dwell time
reduction

80 %

Miloe eCustoms

CRUSCOTTO

Welcome, Ikea Sede Selezionata: IKEA Logout

FILTRI

Id Container: Numero A3: Emissione A3: Porto Sbarco: Quadrimestrali inviati: Refresh

Stato Container: Stato operativo: Mese riferimento: Anno riferimento: dal ID Viaggio Treno:

	PRG INT	PRG DOG	STATO CTR	STATO OPERATIVO	TIPOLOGIA CORRIDORO	COMPAGNIA DI NAVIGAZIONE	SIGLA CNTR	TIPO CNTR	PORTO DI SBARCO	NOME NAVE	ETA	ET
1471	0		In Arrivo	Fuoco Arrivi		APL	CMAU4525590	40 HC	GENOVA	CSCU URANUS		
1470	0		In Arrivo	Fuoco Arrivi		APL	BMOU5423394	40 HC	GENOVA	CSCU URANUS		
1469	0		In Arrivo	Fuoco Arrivi		APL	APHU7028840	40 HC	GENOVA	CSCU URANUS		
1468	25757		In TC Virtuale	ETA-ATA PCS		APL Co. Pte Ltd	TLLU4510523	C40HC	ITGOA	COSCO PACIFIC	07/07/2019	07/07
1467	25756		In TC Virtuale	ETA-ATA PCS		APL Co. Pte Ltd	TCNU5570892	C40HC	ITGOA	COSCO PACIFIC	07/07/2019	07/07
1466	25755		In TC Virtuale	ETA-ATA PCS		APL Co. Pte Ltd	TCNU5547742	C40HC	ITGOA	COSCO PACIFIC	07/07/2019	07/07
1465	25754		In TC Virtuale	ETA-ATA PCS		APL Co. Pte Ltd	SEGU5239358	C40HC	ITGOA	COSCO PACIFIC	07/07/2019	07/07

(1 OF 5)

Implemented Services

- ☐ Track & Trace
(Transport Federative Platform)
- ☐ Simplified Customs Procedures
(Fast Corridor)



WorldWide



2014

Challenge

Alpe Adria is an Italian logistics company, equally owned by the Port Authority of Trieste, Friulia and Mercitalia Rail. It provides **intermodal services** by **combining road, rail and sea modes**.

It operates through an **integrated network of connections to and from North-Eastern Italy and Central-Eastern Europe**.

As part of its eco-sustainability strategy, the customer has decided to adopt a carbon footprint tracking system for multimodal shipments.



Solutions

- Identification of CO2 tracking solution service provider (GLEC standard)
- Automatic «green» reporting generation and ESG dashboard
- Digital integration of informative system (MILOS MTO Suite) with 3rd party service API

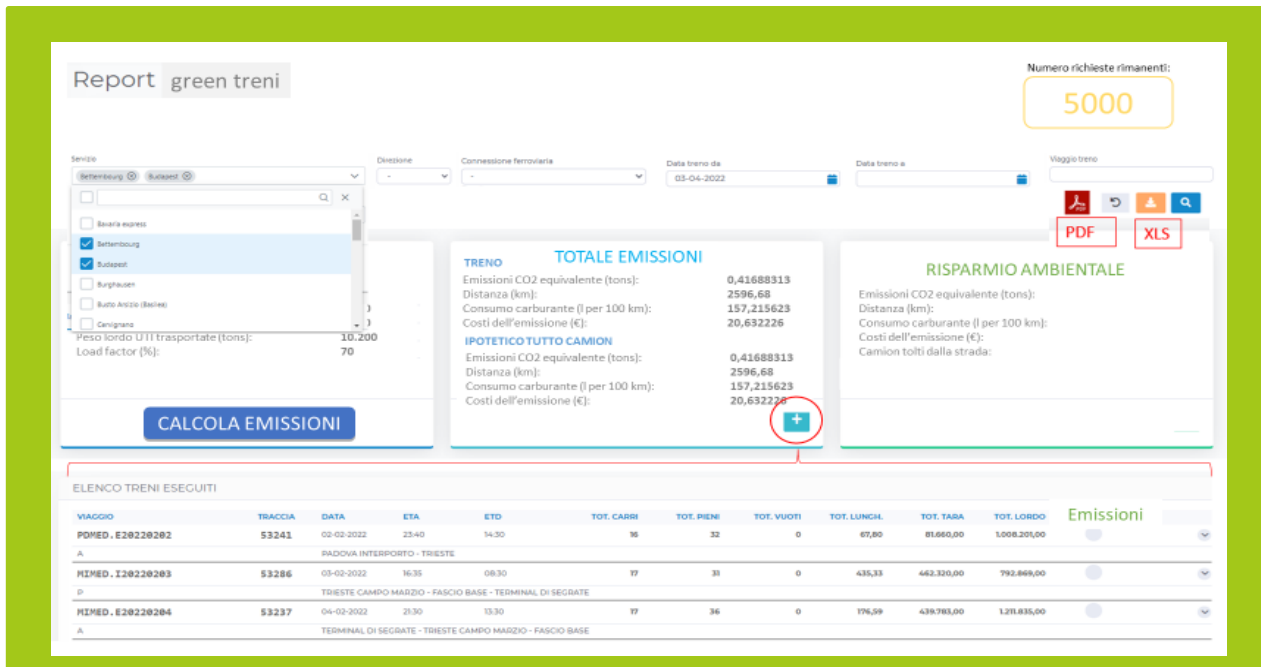
Benefits

- Real time visibility of the carbon footprint
- What gets measured, gets managed
- Consistent calculation for global, intermodal transport chains
- Future proof. CO2 emissions calculation is subject to regular methodical updates and adjustments to current standards and sources

The solution, developed for the customer, reads information such as: Transportation mode, Type of goods, Quantity, Handling, Origin and Destination for each leg of the transport.

A green report is generated for each shipment and results can be exported in several formats (PDF, Excel, CSV).

GLEC Framework, EN 16258 as well as GHG Protocol (Corporate Standard); preparation for ISO 14083 currently under development.



Report green treni

Numero richieste rimanenti: **5000**

TOTALE EMISSIONI

TRENO

Emissioni CO2 equivalente (tons): 0,41688313
 Distanza (km): 2596,68
 Consumo carburante (l per 100 km): 157,215623
 Costi dell'emissione (€): 20,632226

IPOTETICO TUTTO CAMION

Emissioni CO2 equivalente (tons): 0,41688313
 Distanza (km): 2596,68
 Consumo carburante (l per 100 km): 157,215623
 Costi dell'emissione (€): 20,632226

RISPARMIO AMBIENTALE

Emissioni CO2 equivalente (tons):
 Distanza (km):
 Consumo carburante (l per 100 km):
 Costi dell'emissione (€):
 Camion tolti dalla strada:

ELENCO TRENI ESEGUITI

VIAGGIO	TRACCEA	DATA	ETA	ETD	TOT. CARB.	TOT. PIENI	TOT. VUOTI	TOT. LUNGH.	TOT. TARG.	TOT. LORDO	Emissioni
PIED. E20220202	53241	02-02-2022	23:40	14:30	16	32	0	67,80	81.660,00	1.008.201,00	
A. RADOVA INTERPORTO - TRIESTE											
PIED. I20220203	53286	03-02-2022	16:35	08:30	17	31	0	435,33	442.320,00	792.869,00	
P. TRIESTE CAMPO MARZIO - FASCIO BASE - TERMINAL DI SEGRATE											
PIED. E20220204	53237	04-02-2022	21:30	13:30	17	36	0	176,59	439.783,00	1.211.835,00	
A. TERMINAL DI SEGRATE - TRIESTE CAMPO MARZIO - FASCIO BASE											

Implemented Services

- ❑ Carbon footprint tracker
(Native integration with MILOS MTO Suite)
- ❑ Automatic Green Reporting & Dashboard
(CO2 emissions reporting)



Italia



2022

Challenge

To boost precision and responsiveness in its logistics network, SACMI, a leading logistics engineering company, implemented a **federated tracking system** that enhances **data sharing and real-time visibility across transport partners**.

For each shipment, the system captures key logistics data—mode, type of goods, quantity, handling steps, origin, and destination—across all transport legs. It generates a **Green Report for each shipment**, exportable in multiple formats (PDF, Excel, CSV), supporting **environmental reporting**.



Solutions

- Improve the communication flow with other Supply Chain partners
- Development of Unified Dashboard for real-time tracking of multimodal transportation

Benefits

- ☐ Real time visibility of information flows
- ☐ Immediate data access and simplification of procedures
- ☐ Improvement of the logistic process
- ☐ Digital integration with Supply Chain partners

Green report is generated for each shipment and results can be exported in several formats (PDF, Excel, CSV).

GLEC Framework, GHG Protocol (Corporate Standard); ISO 14083:2023 compliant.

GREEN DASHBOARD

Dashboard > Emissions >

Departure From: [] Departure To: [] Delivery From: [] Delivery To: []

Origin: [] Destination: [] Provider: [] Transport Mode: []

Circle Client Reference Number

The emissions are collected, calculated and certified in accordance to ISO 14083:2023

ORIGIN	DESTINATION	WEIGHT (T)	HANDLING UNIT	TRANSPORT MODE	DEPARTURE DATE	CLIENT	CONTRACT	CALCULATION DATE	REFERENCE NUMBER	STATUS	ACTIONS
HANNOVER, DE	LEIPZIG, DE	10.05	PALLET	ROAD	2024-09-10	DEMO CLIENT	1200001	2024-10-07	REF0002	PROCESSED	
LEIPZIG, DE	NEW YORK, US	10.05	PALLET	AIR	2024-09-14	DEMO CLIENT	1200001	2024-10-07	REF0002	PROCESSED	
NAPLES, IT	JEDDAH, SA	6.125	CONTAINER40HC	SEA	2024-10-02	DEMO CLIENT	1200001	2024-10-07	REF0001	PROCESSED	
BARGELLINO, IT	NAPLES, IT	6.125	CONTAINER40HC	ROAD	2024-09-05	DEMO CLIENT	1200002	2024-10-07	REF0001	PROCESSED	

Online website screen snapshot - Green Report: Road

EMISSION CALCULATION REQUEST

Calculation Date: 2024-10-07 Weight: 10.05 T Handling Unit: PALLET Group Reference Number: REF0002

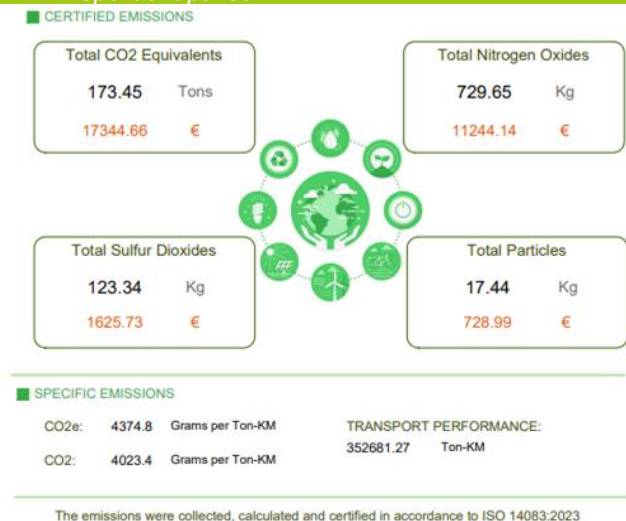
Client: DEMO CLIENT Contract: 1200001 Departure Date: 2024-09-10 Delivery Date: 2024-09-14

CERTIFIED EMISSIONS - ROAD

Container: LADEN
Calculation weight: 10.05 T

DEPARTURE	ARRIVAL	PRIMARY ENERGY	CO2 EQUIVALENTS	CARBON DIOXIDE	NITROGEN OXIDES	SULFUR DIOXIDES	PM10	PARTICLES	DISTANCES	SPECIFIC CARBON DIOXIDE	SPECIFIC CODE (BILLION TONNE-KM)	SPECIFIC TRANSPORT PERFORMANCE (Tonne-KM)
[04] Hannover Lit	[04] Leipzig Altdorfer	3357.87 MJ	0.22 T	0.2 T	0.2 KG	0.13 KG	0.33 KG	0.02 KG	257.85 KM	75.31 GTKM	84.31 GTKM	2891.43 TGM

PDF Report snapshot



Circle Group **EcoTransIT**

GENERAL INFORMATION

Create date: 25/10/2024
Departure date: 08/08/2024 - 02/10/2024
Origin: []
Destination: []

CALCULATION PARAMETERS

Gross weight: 116.470 T Company: CIRCLE
Distance: 48772.8 KM Client: []

Implemented Services

- Carbon footprint tracker
(Native integration with MILOS GSCV Suite)
- Automatic Green Reporting & Dashboard
(CO2 emissions reporting)



Italia



2024

Challenge

Paper documents travel throughout the supply chain, making The processes slow, inefficient, with a high risk of errors and operational costs. This is why it is important to digitize, making the export process secure, simple and fast, in a collaborative ecosystem that ensures handling greater volumes of goods with lower operational, logistical and administrative costs. Thanks to the In Cloud platform developed by ACCUDIRE (with which Circle Group collaborates), leveraging Blockchain technology, the first Pilot Project was launched between the Port of Trieste (ADSP MAO) and Benetton to export goods between Italy and Turkey.



Solutions

- ACCUDIRE's cloud-based platform that leverages Blockchain technology to ensure a digital interaction between Port (ADSP MAO) and operators to transmit in advance the documents of the goods (customs, sanitary, etc.), track it to the place of destination, where once it arrives, notification of take-over at destination will be given via signature on the e-CMR to the exporter (Benetton Group)

Benefits

- Notarization of information (date, digital identity and geolocation)
- Fully paperless process due to full digital flow
- Reduction of manual errors, corrections, mitigation of business risks and operational costs.
- Full shipment monitoring and control through interaction with involved stakeholders
- Safety, speed and simplification of processes

Challenge

Terminali Italia is the company of Rete Ferroviaria Italiana in charge of managing terminal services within the networked intermodal freight terminals. It offers first and last mile rail services such as terminal access, handling, intermodal transportation unit (UTI) and rail shunting services. Connected to their core business is also international freight transportation for which they offer an origin and destination point along land and sea routes. The activities and business strategies adopted by the group, are aimed at the revitalization and development of rail transport with projects directed at the modernization and integration between sea and rail transport and with a view to increasing the development of rolling stock interoperability between rail networks.



Solutions

- Consulting for obtaining **"AEO" certification** to take advantage of the benefits and facilities offered by customs to authorized operators
- **Temporary Digital Storage** and **Fast corridor** services for the proper management of CT, Mrn lots and digitization of information and document flows.

Benefits

- ☐ Facilitated access to customs simplifications
- ☐ Reduction of physical and documentary controls
- ☐ Ability to request a specific location for control
- ☐ Reduction in customs port transit and customs clearance time at destination
- ☐ Reduction in overall transportation costs

Challenge

GDT Logistic is an international forwarding agency operating in the food, chemical, plant and textile sectors. Furthermore it is a C.A.D. (Customs Assistance Center) and A.E.O. (Authorized Economic Operator). The preparation of customs documents in the name and on behalf of clients is an activity that requires interaction with different parties, with a consequent increase in costs and a reduction in process efficiency. The challenge was to define a new method of process management and to optimise customs operations.



Solutions

- Implementation of MasterSPED® solution providing the automation and optimisation of information and documentation flows.
- “Bill Listener” application to have the complete digitalisation of the customs documents received from the various parties involved, centralising the main functions on a single dashboard.

Benefits

- Real-time management of customs flows
- Real-time control and management of supplier work
- Increased efficiency of internal document management
- Time reduction of over 40% within the process
- Manual errors reduced by up to 80%

Challenge

Nord Ovest SpA is one of the main international players in the world of shipping and logistics (rail – road – air – maritime) , which today has 7 offices scattered throughout Italy. The company develops ad hoc services for customers. Furthermore, the warehouses are easily accessible from the highways and offer a unique service of its kind. To ensure **efficient and streamlined process management**, the company requested the implementation of a series of technological tools in order to send Booking and Shipping Instructions and receive information about the Tracking of shipped ITUs (depending on the features made available by the individual Company). In this project, the client plays the role of **Freight Forwarders** and **Shippers**



Solutions

- Implementation of innovative and simplified digital solutions with Italian Customs (**Italian Fast Corridor**)
- **Asset Tracking – Federative Services»** to ensure the visibility of Transport Units involved in logistics flows

Benefits

- ☐ Full interoperability for security operations with Ports
- ☐ Full integration with Customs information systems
- ☐ Compliancy with EU and European standard
- ☐ Reduction of dwell time and improvement of security
- ☐ Digitalization of the process

Challenge

SEA, the operator of **Milan Malpensa and Linate airports**, manages a wide range of cargo services—from air freight handling and customs clearance to road cargo coordination and air space bookings.

In 2021, SEA processed 743,000 tons of cargo, representing over 70% of Italy's total air freight, with a 44.6% year-over-year growth.

With cargo volumes on the rise, there was a critical need for faster, more agile customs processes to support just-in-time logistics and reduce operational bottlenecks.



Solutions

- **“Air Fast Transfer”**: Adoption of the Customs Corridor model - successfully applied in maritime logistics - now extended to air freight
- **Full Digital Integration**: Seamless data exchange among key players in the logistics chain, including Customs, airport handlers, freight forwarders, and airlines.

Benefits

- ☐ Decongestion of airport areas
- ☐ Reduction of dwell times by cargo in the airport warehouses
- ☐ Reduction of travel times
- ☐ Greater security
- ☐ Digitalization of the process

Challenge

Sebi was established in 1974 as a customs agency at the airports of Milan Malpensa and Linate: today it has customs and domestic warehouses equipped with integrated logistics and provide import and export services by sea, land and air. In this regard, SEBI represent a Transport Company, Freight Forwarders and Customs Operator: in addition to the implementation of Air Fast Transfer and integration with the Transport Federative Platform, SEBI has implemented the digital signature service that generally covers all customs procedures, including Temporary Custody, Import and Export Customs Bills, Manifest, etc. according to which all operators must adopt digital signature service.



Solutions

- Implementation of «**Air Fast Transfer**», to apply the Customs Corridor model already used in the maritime sector
- Interoperability with **Transport Federative Platform**
- Implementation of **massive customs digital signature service** for transmission of files and documents in digital mode with signature certificate

Benefits

- ☐ Automation of processes and simplification of procedures
- ☐ Speeding up and reducing work time and dwell time
- ☐ Reduction of manual errors
- ☐ Single point of contact with full digital integration

Challenge

The Port System Authority of the Eastern Ligurian Sea encompasses the Ports of La Spezia and Marina di Carrara. The node is one of the main ones in Northern Italy: in 2022 the port handled + 18,000,000 tons of cargo, + 1,300,000 containers, + 8,000 trains handled. The customer's request relates to the implementation of a software module that interfaces both with the S.U.DO.CO. portal, with the portal of the Italian Customs Agency and with the information systems of the Port Authority itself, in order to allow a **total integration of the procedures of all the Administrations and Users (Sernav, Laghezza Spa and La Spezia Port Service Srl)**, as well as the transmission of information in one place and only once and the coordination of the various controls on the goods



Solutions

- Implementation of **Digital Federative Services and related modules** aimed at integrating the current S.U.DO.CO. to grant a full interoperability between systems of all actors involved, both private and public.
- Integration of the model with management functions of the **Inspection Corridor** between the Port of La Spezia and Santo Stefano Magra Dryport

Benefits

- ☐ Real-Time monitoring of customs declaration flows & documents
- ☐ Reduction of times and costs of customs clearance
- ☐ Integration & full interoperability with Customs and Authorities Systems
- ☐ Digital information exchange with the Systems of third parties of the Port Community

Thank you



www.circlegroup.eu



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Circle Group

CIRCLE Group, headed by **CIRCLE S.p.A.**, is an international leader specialised in the analysis and development of **innovative digital solutions for port and intermodal logistics**, and further delivering **international consultancy services** that supports ports and logistic innovation with an extended focus on **environment, sustainability and energy transition**.

**Since
October 2018**

listed on Euronext Growth Milan

Main products

Milos®: focused on intermodal logistic operations (inland & port terminals, MTOs & maritime)

Extended Port Community System: connecting all players & processes involved in port

MasterSped®: evolutive platform for customs operators

Milos® Federative Services,

Milos® GSCV & TAP for industrial & distribution

Milos® e-Customs

StarTracking®: airport-to-airport tracking solution with real-time status updates

GOS - Gate Automation & IoT

KMaster® | Truck telematics

EU Affairs Consultancy

EU Funding Accelerator: developing successful applications for funding

Strategic Communication and Advocacy: Visual and Brand Identity,, Social Media Management, Events, PR/Press, Roadshows, Advocacy and representation in Brussels

International Consultancy: policy making and strategic technical orientations in the port, maritime and transport field

Infomobility

InfoBlu® collects data through cameras, black boxes and other means

Provides traffic data and B2B traffic information services to public and governmental agencies

+170

direct employees and a network of professionals

8 successful M&As since end of 2017

51% of Info.Era , specialised in port sector through Sinfomar®

100% of Progetto Adele (now NEXT FREIGHT), specialised in freight forwarders and custom operators systems

92% of eXyond, (formerly Log@Sea) which acquired 54,5% of Circle Garage and the business unit owned by Telepass Innova S.p.A. (InfoBlu & KMaster).

51% of Magellan Circle, advocacy services towards European institutions

51% of Cargo Start, Innovative Start-up providing innovative technological products in the air cargo field

51% of NEXT Customs

21% of Accudire for e-CMR

More than 30%

of revenues (CIRCLE) realised outside Italy; focus on Southern Europe, Mediterranean area, Black Sea and Middle East

Financial Year 2024

Revenues € 14.6 +6.8 mln

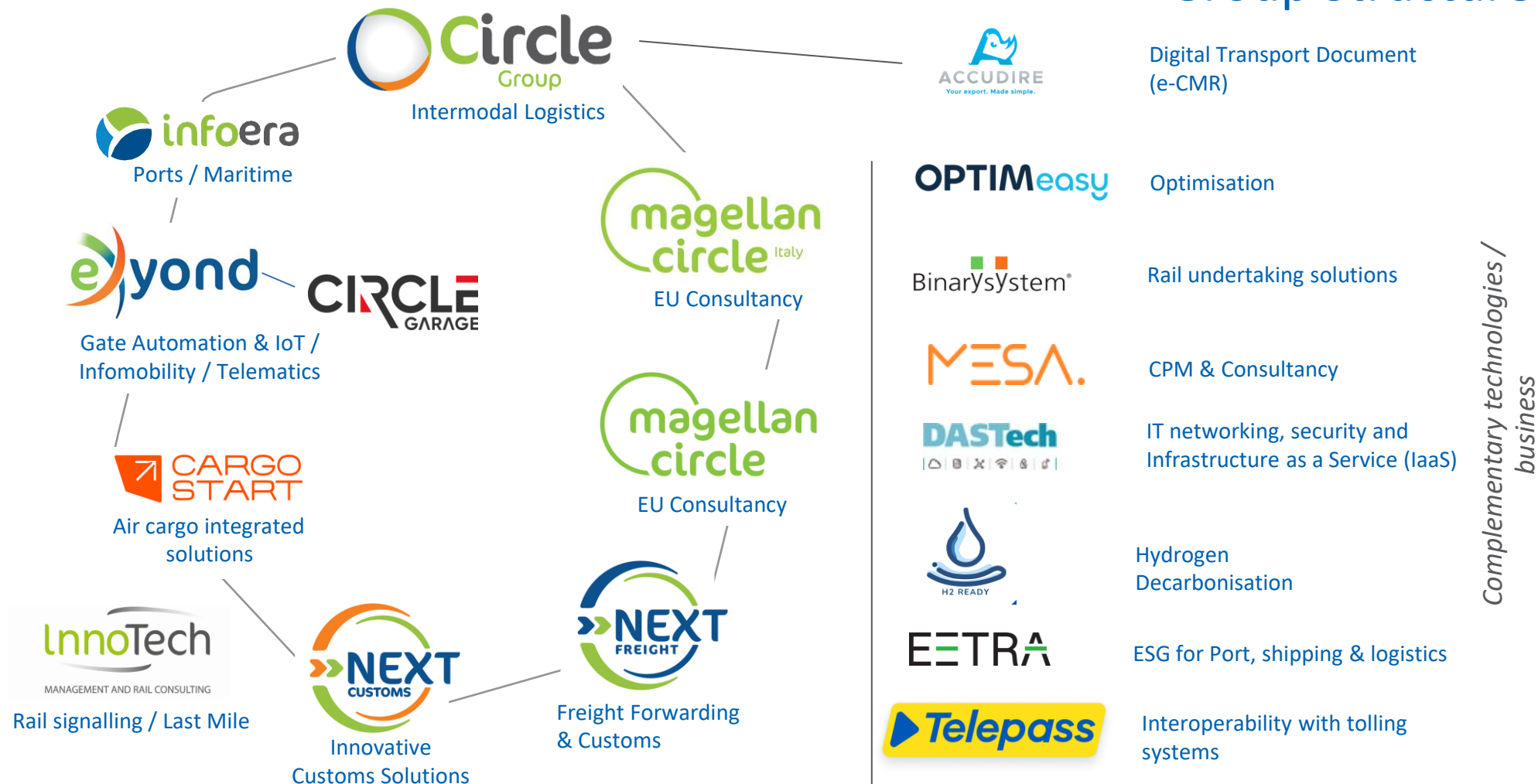
Ebitda adj: € 3.3 (4,3) mln

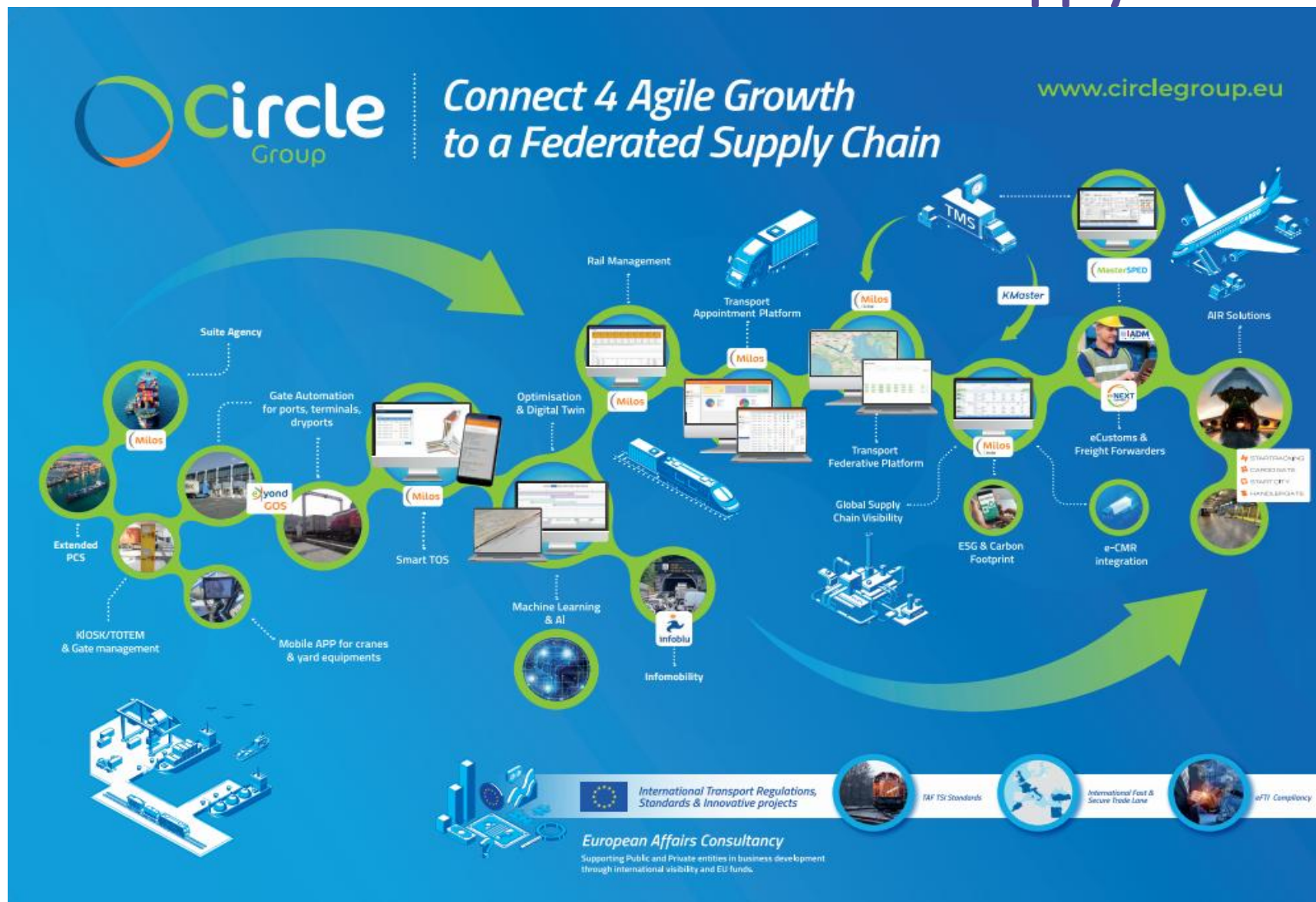
Ebitda margin adj: 23% (21%)

Net Profit Adj: € 1.8 mln

NFP adj: 2 cash +€ 2.3 mln

Group Structure





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