



**CIM SPA**  
INTERPORTO DI NOVARA

# FVS ELODIE

Technological Transition of  
**MULTIMODAL LOGISTIC ENVIRONMENT**

IL QUADRO NAZIONALE ED EUROPEO  
**DELL'EVOLUZIONE TECNOLOGICA PER LA LOGISTICA**

# ELODIE

**E**uropean **L**ogistic **O**rganized **D**ata **I**nterchange **E**nvironment

.... Something about ... Technology and logistic ....





## INTEROPERABILITY

**Allow, through unifying procedures,  
interchange and interaction in the  
fields of information technology,  
telecommunications, rail and air  
transport and traffic safety systems**

**IT'S NOT A SIMPLE CONNECTION**

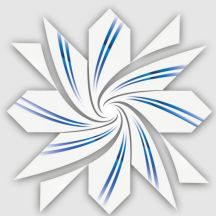


# DATA SHARING

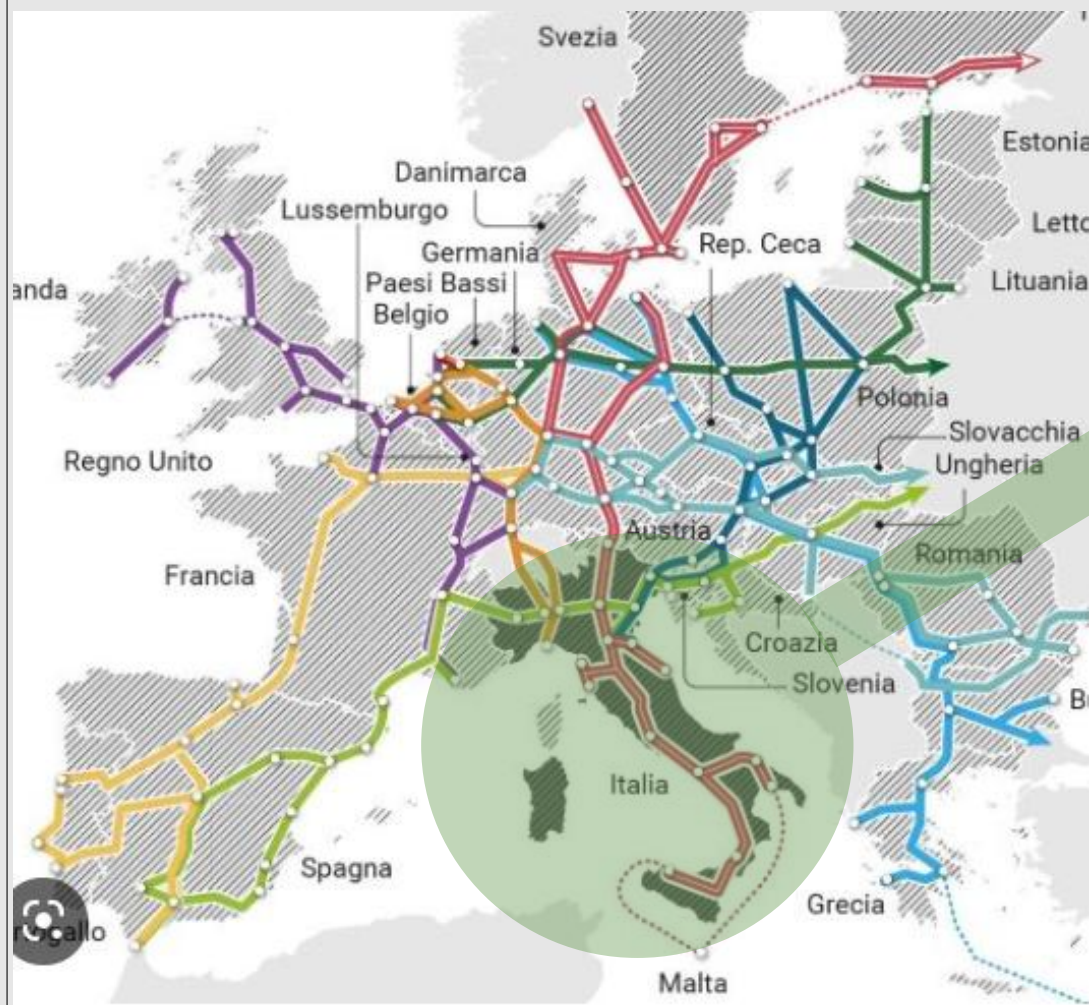
data sharing practices aimed at achieving the aim of analysing such data as widely as possible to arrive at new results, according to a common strategy.



(Lessico del 2012 – Enc. Treccani)



# STRATEGIC LOCATION



TRANS-EUROPEAN CORRIDORS **9**

ITALY IS POSITIONED AT THE  
INTERSECTION OF TEN-T CORRIDORS **5**

ALMOST 50% OF THE TEN-T CORRIDORS  
CROSS OUR COUNTRY

**Mediterranean**  
**Rhine-Alpes**  
**Scandinavian Mediterranean**  
**Baltic Adriatic**



# IDENTITY CARD

Cognome	Interporto
Nome	Nodo logistico intermodale
nato il	1990
(atto n. 240/90 P. 204/95)	
a	ROMA (ROMA)
Cittadinanza	Italiana
Residenza	Territorio Nazionale
Via	
Stato civile	Rilevanza Sociale
Professione	Modal Shifter
CONNOTATI E CONTRASSEGNI SALIENTI	
Statura	0 - 3mIn M2
Capelli	
Occhi	
Segni particolari	INTEROPERABILE CONNESSO

Firma del titolare	<b>MINISTERO INFRASTRUTTURE TRASPORTI</b>
Impronta del dito indice sinistro	IL SINDACO

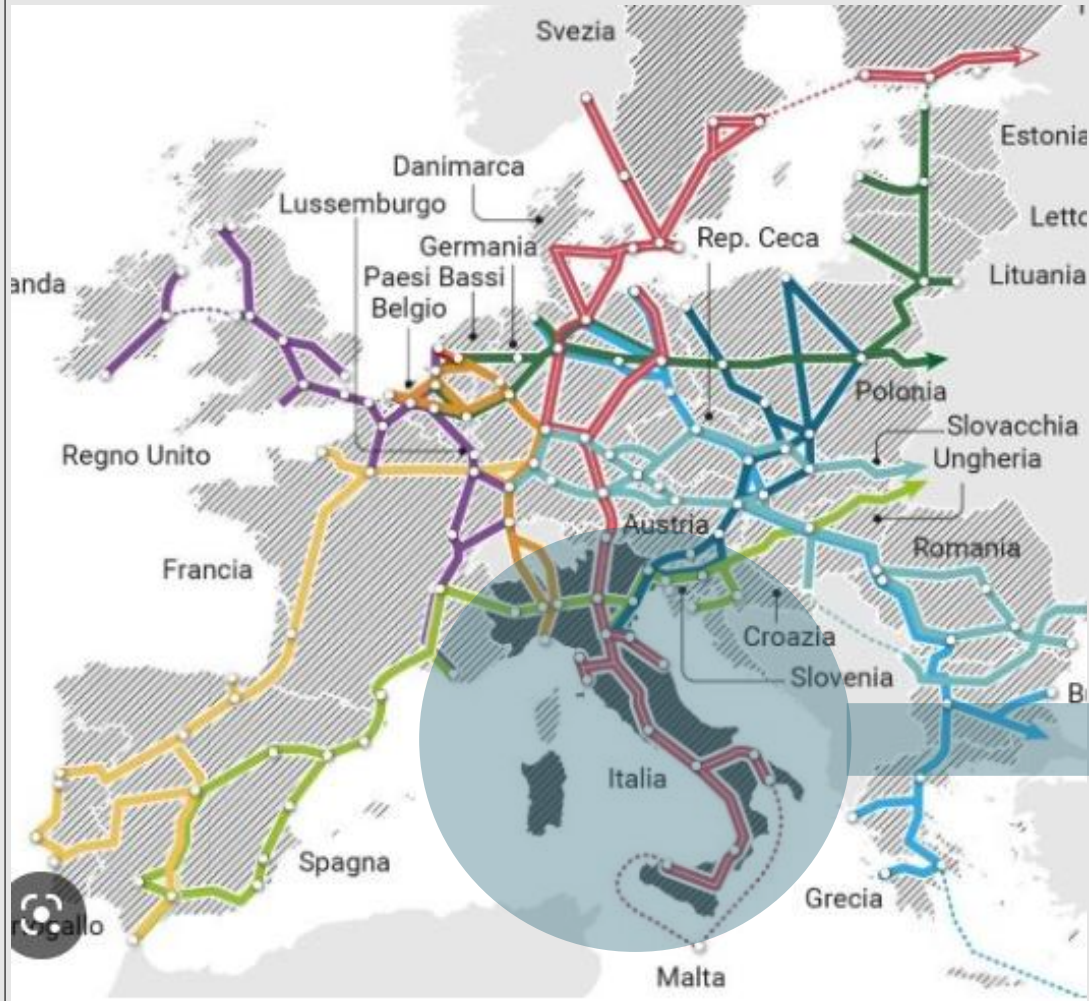
- MODAL shift road/rail
- Logistics / Warehouses
- Personal Services
- Dogane e Fast Corridor
- Repair Shops
- Park and equipped areas
- Office Rental
- Washing and Supplies

**240/90**

Interporto means an organic complex of structures and integrated services aimed at the exchange of goods between the different modes of transport, in any case including a railway station suitable for forming or receiving trains and in connection with ports, airports and roads of great communication.

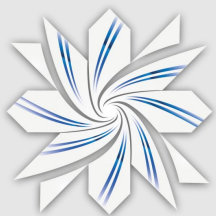


# INTERMODAL NODES - FREIGHT TERMINALS

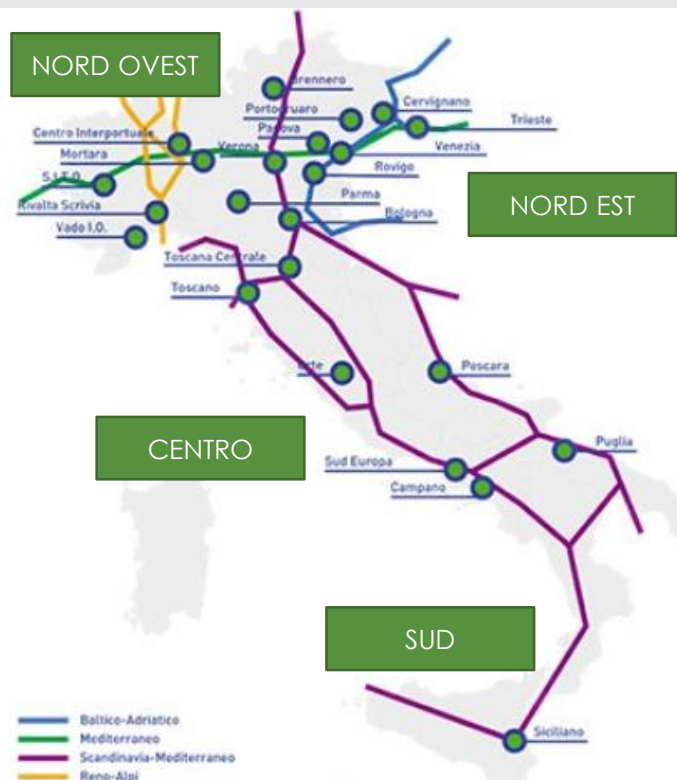


## 29 INTERPORTI





# NETWORK & SYSTEM



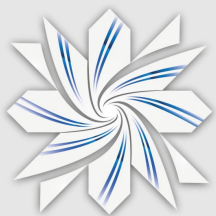
29 Interporti

**UIR**  
**Unione Interporti Riuniti**

- ABRUZZO: 1
- CAMPANIA: 2
- EMILIA R.: 2
- FRIULI VG: 2
- LAZIO: 1
- LIGURIA: 1
- LOMBARDIA: 1
- PIEMONTE: 3
- PUGLIA: 1
- SICILIA: 1
- TOSCANA: 2
- TRENTINO AA: 1
- VENETO: 5

Italian freight terminals are a network of nodes that connect the main railway directives from north to south throughout the country. Interport nodes represent one of the main intermodal logistics systems. They are equipped with facilities that can provide multiple services within the same area. Interports are entities that apply various information technologies and are equipped with advanced management and data collection systems.

Potenzialmente gli interporti posseggono tutte le caratteristiche per potersi federare in un'unica rete, attraverso sistemi di connessione tecnologici grazie alla dotazione IT di cui sono in possesso



# MANAGEMENT SYSTEMS



**ERP**  
**CRM**  
**EDI**  
**Data security**

**W.M.S.**  
Warehouse  
Management  
System

**T.O.S.**  
Terminal  
Operating  
System

**GATES**  
OCR portal

**SECURITY**  
Video CC  
IP CAM  
Termiche

**DOMOTICA**  
Sensors  
Monitor  
Saving

**S.M.S.**  
Shunting  
Management  
System

**TOS**  
Handling and rail traffic  
management

**Security**  
Active IP Video  
Surveillance

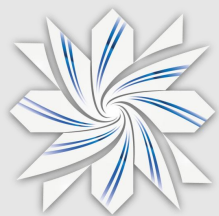
**SMS**  
Railway shunting  
management

**WMS**  
Warehouse management

**DOMOTICA**  
Infrastructure  
Management

**GATES**  
Gates automation OCR

**ERP CRM EDI Data Security**  
Office management  
systems  
(ICT, Amm.ne,  
Accounting...).



**ELODIE**

**A FEDERATED PROJECT**

**10 MLN € FUNDED**

**30/06/2026**

**14 INTERPORTI INVOLVED**



# DIGITALIZATION

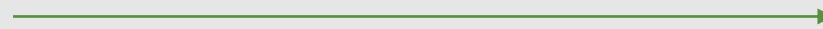
**TOS**  
Gate Auth

**EFTI**  
CONNECTOR  
PLN

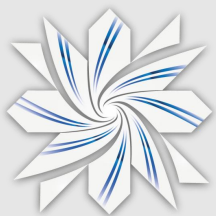
**CONNECTIVITY**  
OPTIC FIBER

**CYBERSECURITY**  
NIS2

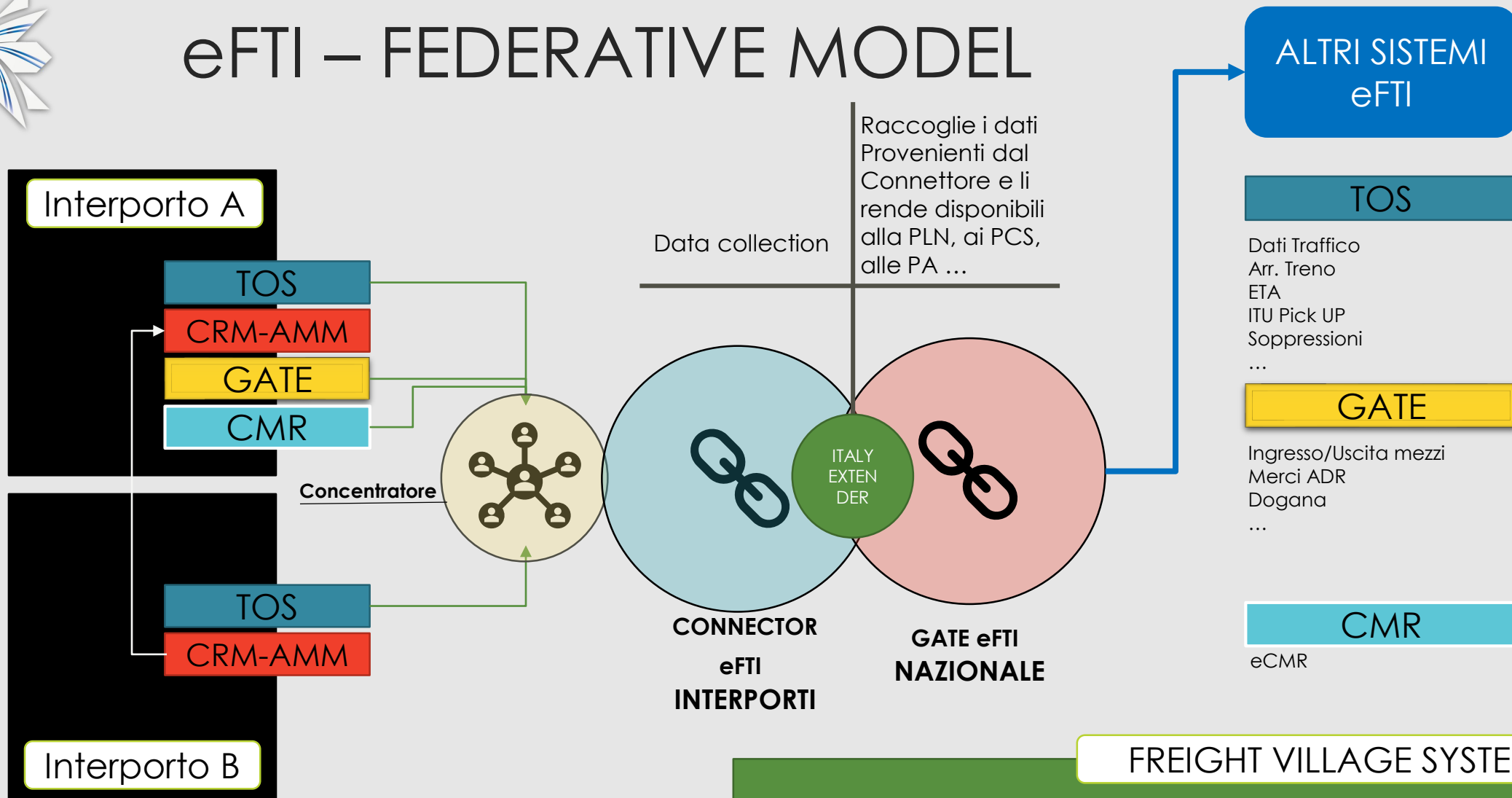
We are here



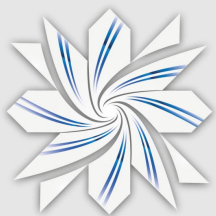
30/04/2026



# eFTI – FEDERATIVE MODEL

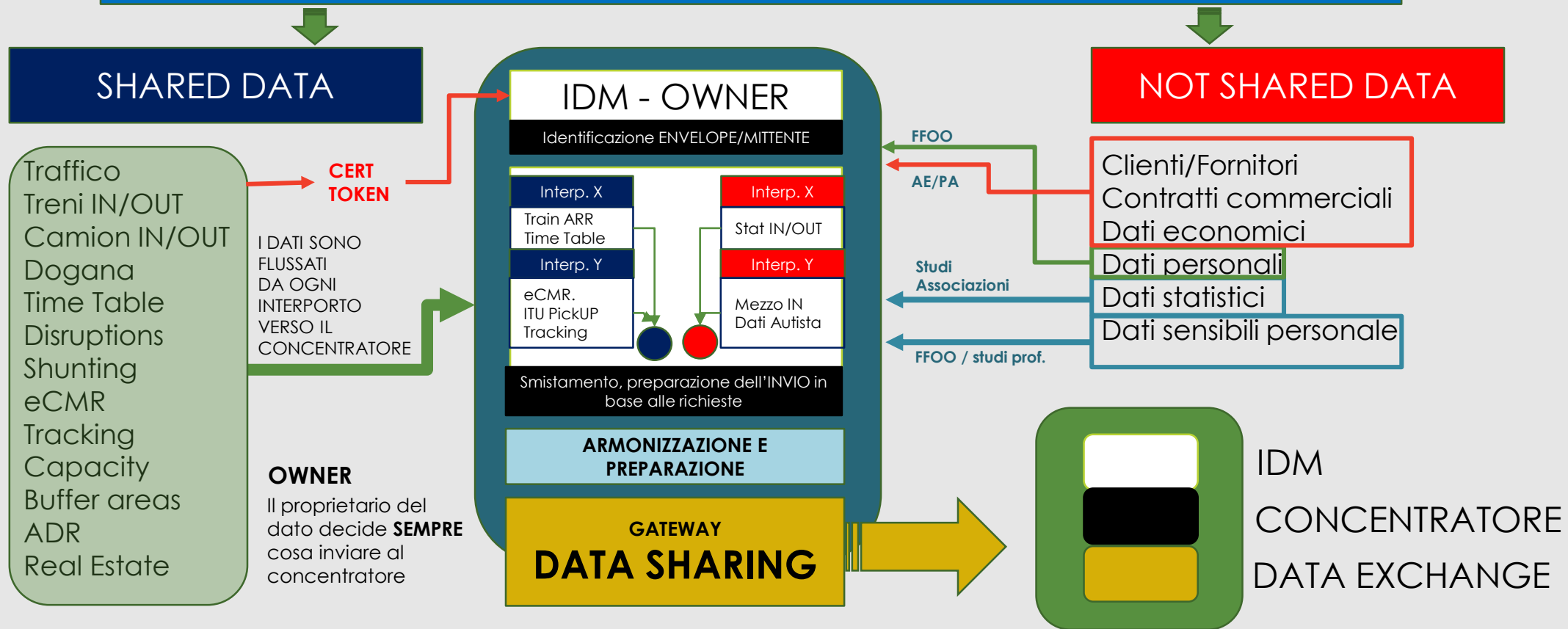


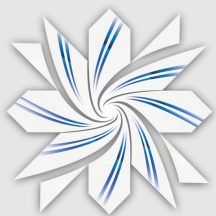
FREIGHT VILLAGE SYSTEM  
**PIATTAFORMA eFTI CERTIFICATE**



# GESTIONE DEL DATA SHARING

DIVERSI SISTEMI DI GESTIONE DEL TRAFFICO E DEL COMPENDIO





# ELODIE

## LE ALTRE FORME FEDERATE IN EUROPA

DATA CHAOS	CHALLENGE	SOLUTION	FEDERATED
Insufficient interconnectivity	Optimal use of data	Data sharing environment	Collaborative innovation

E' essenziale che il SISTEMA INTERPORTI formato da ciascun FVS non rimanga isolato, ma dialoghi con altri sistemi federati già presenti sia a livello nazionale ma anche a livello Europeo. Oltre confine sono in corso progetti CEF e HORIZON promossi dall'Unione Europea e orientati alla creazione di Ecosistemi interoperabili per i nodi logistici, attraverso la costruzione di strutture federate partendo da realtà tecnologiche già esistenti e consolidate.

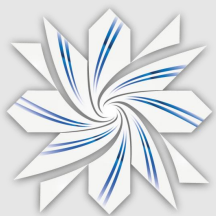


FENIX will develop the first European federated architecture for data sharing serving the European logistics community of shippers, logistics service providers, mobility infrastructure providers, cities, and authorities in order to offer interoperability between any individual existing and future platforms.

The idea of FENIX comes from the work and recommendations of the European Commission's Digital Transport and Logistic Forum (DTLF) to create a viable and valid federative network of platforms as enabler for Business to Administration (B2A) and Business to Business (B2B) data exchange and sharing by transport and logistics operators.

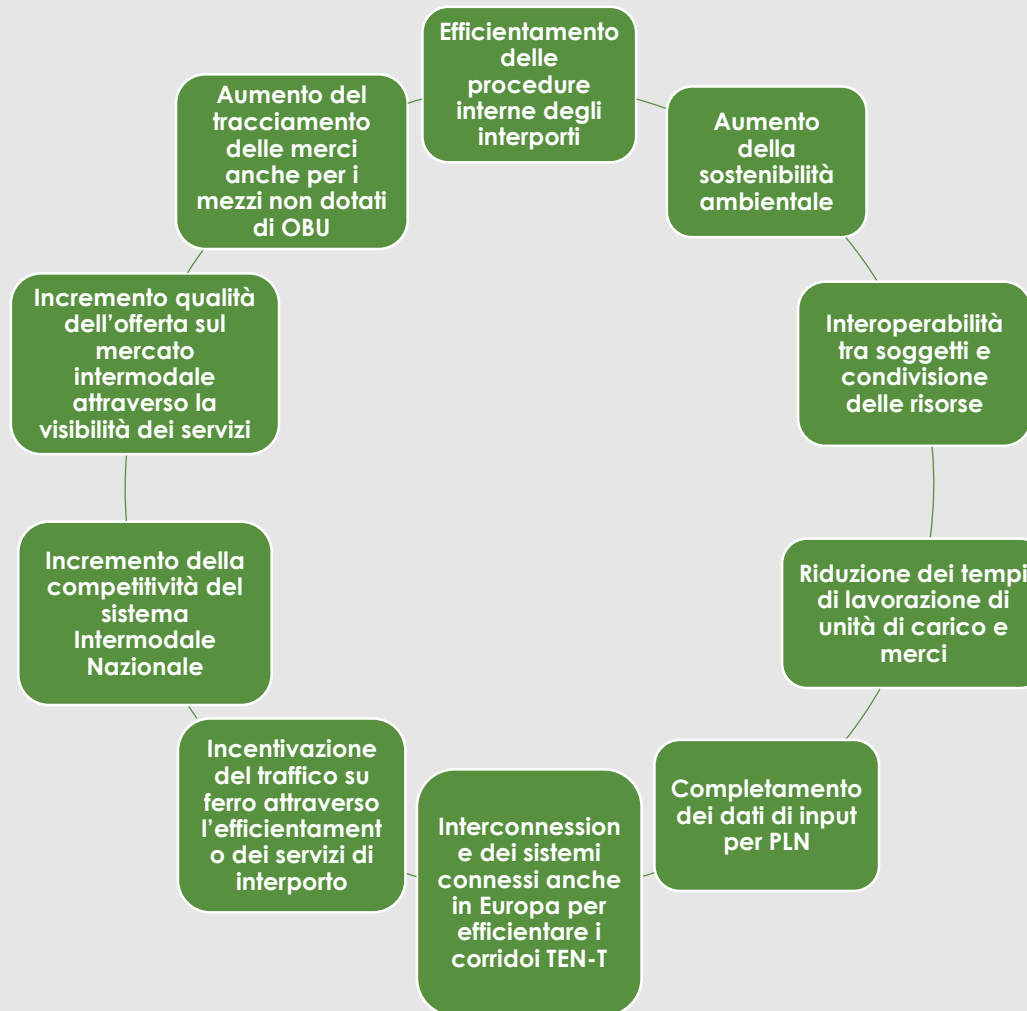


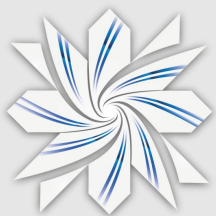
FEDeRATED has developed a future proof data sharing architecture for logistics (seamless multimodal freight transport): our Reference Model . It creates the foundations for executing the EU DTLF networks of platforms approach - the EU Digital Single Market. The goal: Everybody - all stakeholders - should be able to connect with whoever they want on a 24/7 basis. To boldly go where nobody has gone before; - while keeping data at bay. The goal: Green to Gold. To visualize upstream and downstream movements, optimize asset management and infrastructure use, only with legislation and develop new services . To make this happen, all stakeholders should be able to function as a node in the federated network - decentralised data hubs - data resources serving as data holder or data user. This can be done, either as platform or as an individual organisation. To use a methophor. All stakeholders function as a node, being visualised as a tree when they comply with four technical specifications



# ELODIE

## GLI OBIETTIVI DEL PROGETTO RISPETTO ALLE ASPETTATIVE DEL NUOVO MERCATO





# ELODIE

## PERCHE' FEDERARE LE PIATTAFORME DEGLI INTERPORTI?

### VANTAGGI

PRESENZA EFFICACE SUL  
NUOVO MERCATO DIGITALE

INCREMENTO DEL PARCO  
TECNOLOGICO DEL NODO

MAGGIORE COMPETITIVITA'  
SERVIZI PIU' EFFICACI

FACILITAZIONE DEI RAPPORTI  
CON LE PA E LE AUTORITA'

RIDUZIONE DEI TEMPI  
OPERATIVI GRAZIE AI DATI DI  
FORECAST

SOSTENIBILITA' DEI PROCESSI

CERTIFICAZIONE EUROPEA  
eFTI

DISPONIBILITA' DI RISORSE IN  
OTTICA FEDERATIVA

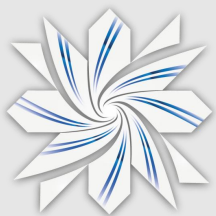
### RISULTATI

AUMENTO DELLA  
PRODUZIONE

OTTIMIZZAZIONE DELLE  
RISORSE

COMPLIANCE UE

RAFFORZAMENTO  
DELL'IDENTITA'



# ELODIE PROPOSTA PROGETTUALE

30/06/2026

- 14 INTERPORTI INTEROPERABILI E FEDERATI CON LE RETI EUROPEE
- STANDARD TECNOLOGICI AVANZATI
- INCREMENTO DELLA CYBERSECURITY
- Efti complinace
- PLN connessa con la rete federata
- GATE con forte componente di automazione





**CIM SPA**  
INTERPORTO DI NOVARA

**THANKS  
FOR YOUR ATTENTION**