

# SIMPLE Logistics: A digital solution for data-sharing across Europe

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# A digital solution for transport and logistics domain in Spain

SIMPLE

SIMPLE



Puertos del Estado



## And also, a solution for transport and logistics domain in EU



*Establishes a legal framework for freight transport operators to share information electronically with the competent authorities.*

*Digitalization of logistics and freight transport processes through electronic information exchange*



*Federated platform network concept to enable data exchange in the logistics chain while providing interoperability and harmonization between individual platforms*

<http://www.federatedplatforms.eu>



Netherlands  
Finland  
Sweden  
Spain  
Italy  
Benelux

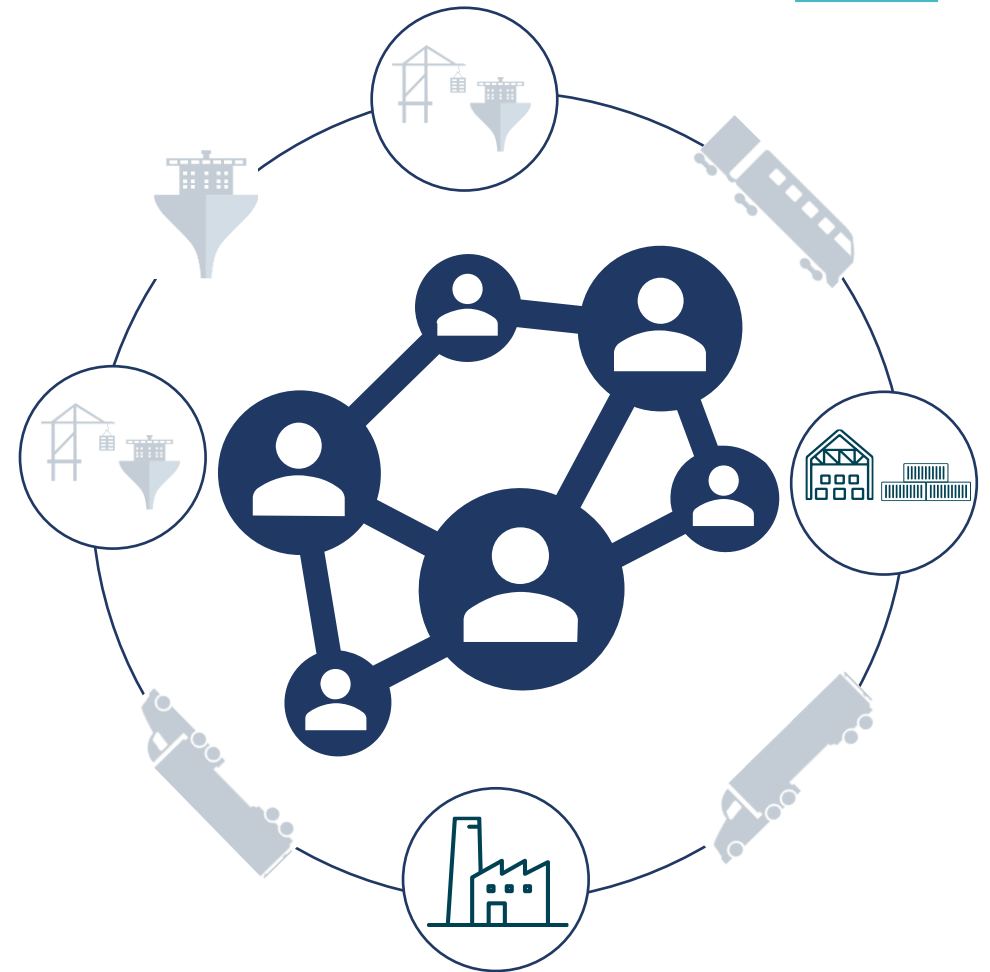


Co-financed by the Connecting Europe Facility of the European Union

# What is SIMPLE?

SIMPLE

**SIMPLE** is a federative technological platform for the integrated and digital management of data linked to the transport of goods, between the different nodes and modes of the transport chain



# SIMPLE Objectives



- Promote and facilitate the exchange and the reuse of data by **digital means**
- Provide **B2B, B2A & A2B services**
- **Real-time** traceability of goods, means of transport, main events, including incidents.
- Visibility in the logistics & transport chain, making it easier for the actors to **plan ahead**
- Enable interoperability **between external systems and platforms**.
- **Improve** knowledge of Spain's national and import/export **transport flows**, and their nature
- Ensure secure solutions that **guarantee the confidentiality and security of the data** exchanged through the platform (strict cybersecurity measures, Blockchain...).

●  
Eliminate  
inefficiencies in  
current processes

●  
Contribute to cost  
reduction and better use of  
resources

●  
Allow interoperability  
between different actors  
and modes of transport

●  
Get information in  
real time

●  
Contribute to a more  
sustainable multimodal  
transport chain

●  
Facilitate Logistics &  
Transport sector  
digitalisation

# Identity and Access Management

SIMPLE

## User Management

- Setting up new users through the Support Center
- Administrator Users of an Entity can register and configure users of their own Entity
- Users can review and modify their personal data and preferences

- Setting up new entities through the Customer Service Center
- Self-service mechanism in the Public Portal for the registration of Entities
- Entities can decide how to participate in SIMPLE

## Entities Management

## Access Management

- Permissions management based on entity roles in logistics flows
- SIMPLE authentication through integration with Cl@ve system (aligned with eIDAS regulation)
- For users who can't integrate via Cl@ve, username and password authentication option
- Contingency mechanisms for unavailability of Cl@ve

# Services and main functionalities

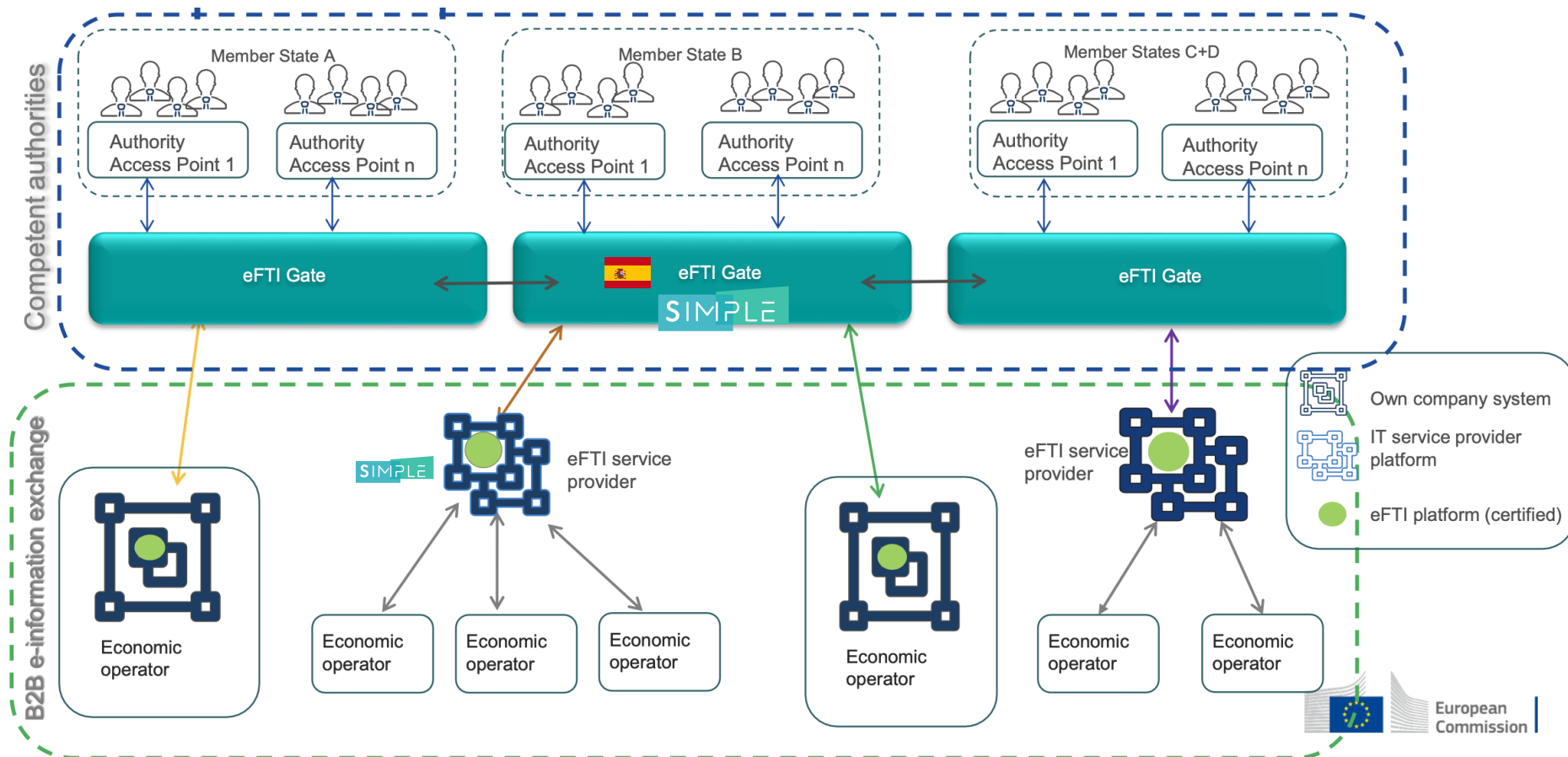


Shipment	■ Functionalities associated with the Registration, Consultation and Export of events related to a logistics flow.
Deposit	■ Functionalities associated with the management of the storage of goods in terminals and warehouses
Trazability and visibility	■ Complete view of all events that occur throughout the lifecycle of a freight shipment
	■ Access to data stored on the various eFTI platforms
	■ Functionalities required for Roadside Inspection and Control tasks for DGTT users
	■ Information on ship calls at ports in the Spanish port system, for use in the context of logistics flows
	■ Information on the circulation of freight trains on the Spanish railway network, for use in the context of logistics flows
Marketplace	■ Mechanism to enable future inclusion of new functionalities/APIs by third-party providers
Data analytic	■ Specific and customizable dashboards for analyzing data related to operations recorded in SIMPLE
IA and ML	■ Functionalities for exploiting data through Artificial Intelligence (AI) and Machine Learning (ML) techniques

Local eFTI platform
Traffic inspection
Scales data
Train circulations

# Services and main functionalities.

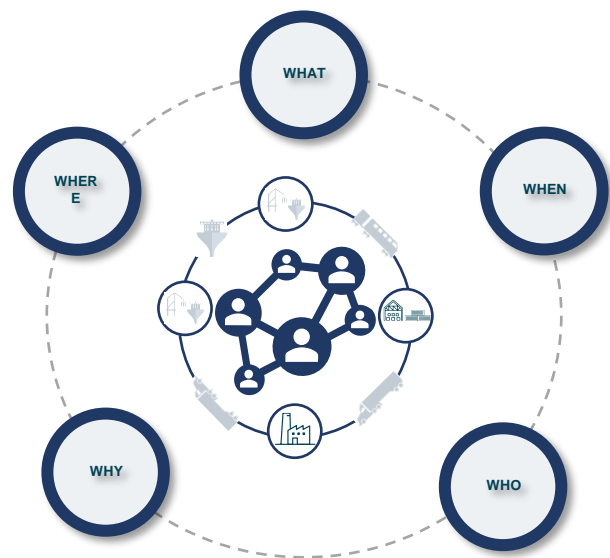
## SIMPLE as eFTI Gate



Source: Document eFTI implementation and latest developments (Dic 2022, Villu Varjas, DGMOVE)

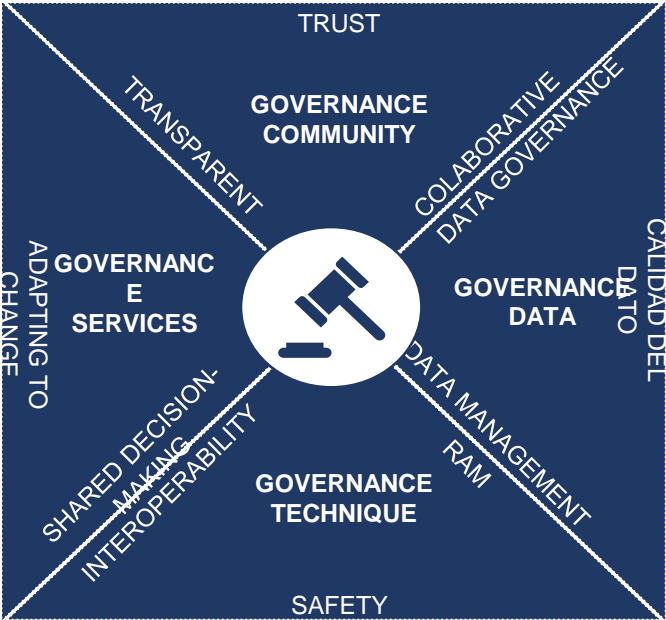
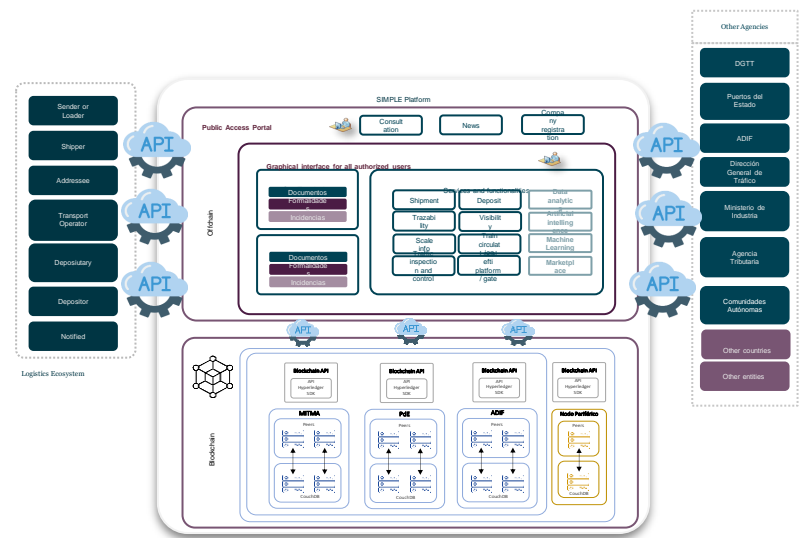


# Design and development of SIMPLE



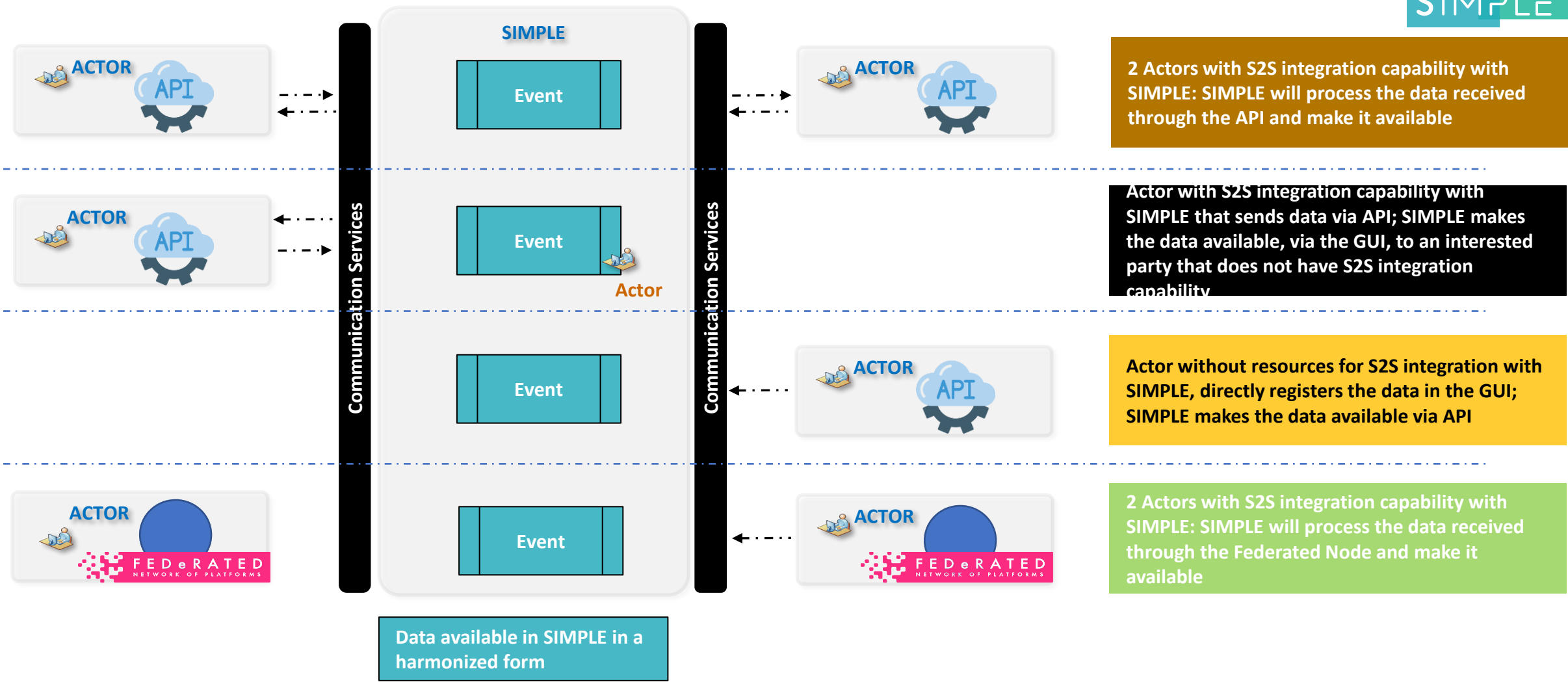
**SIMPLE ARCHITECTURE  
OFF CHAIN & ON CHAIN  
DIGITAL SOLUTION**

**A COMMON LANGUAGE BASED IN  
FEDerATED PROJECT SEMANTIC  
MODEL USING TWIN DIGITALS**

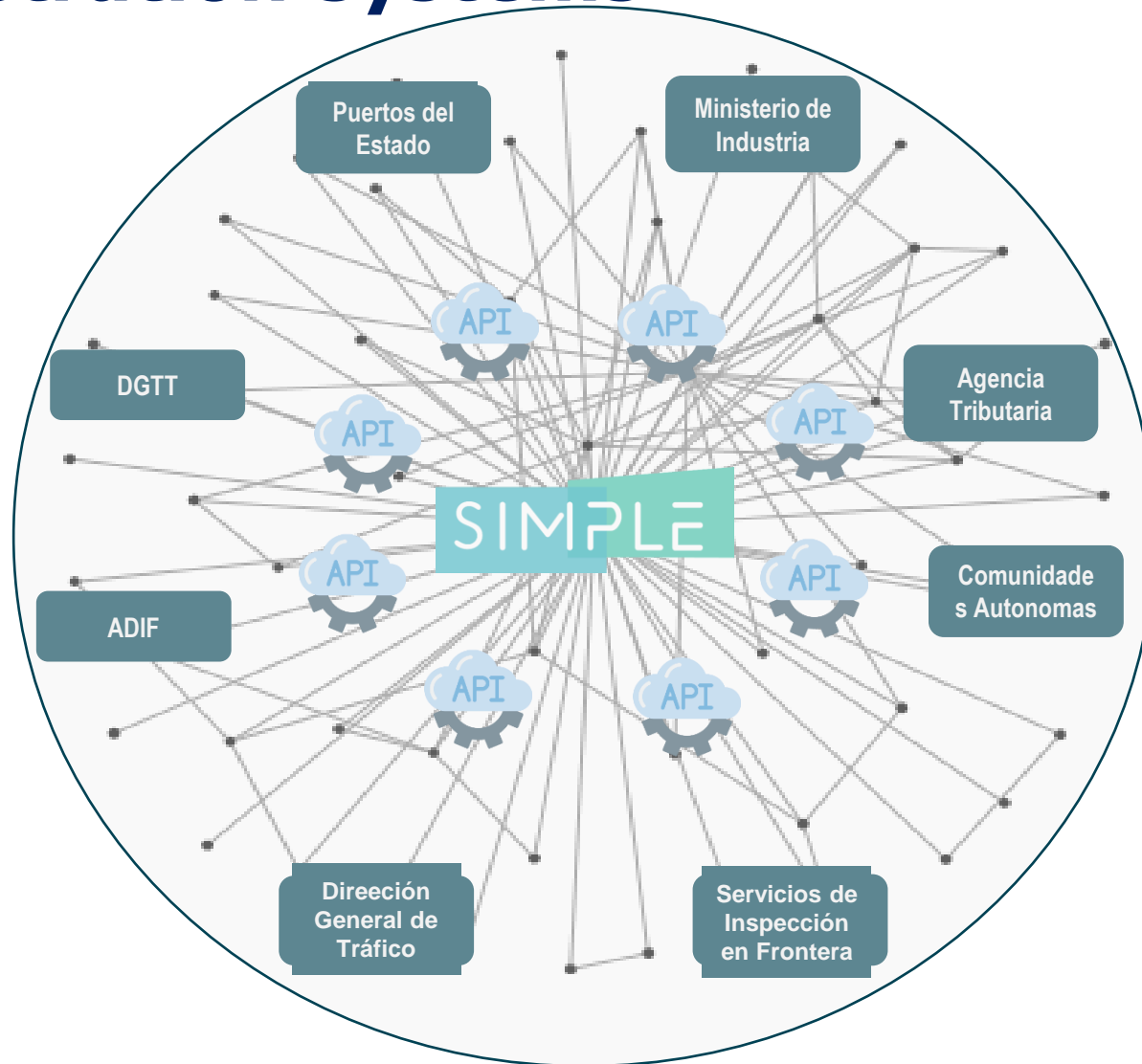


**A GOVERNANCE MODEL BASE ON  
TRUST, OPENNESS AND  
COLLABORATIVE VALUES**







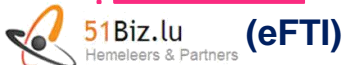




# SIMPLE Interoperability



# SIMPLE Interoperability. Public Administration systems



# Main SIMPLE pilot projects

Without contact	Initial contacts	Defined pilot project proposal	Identified participants	In specification	Under implementation	Partial tests carried out	Finalized	
								
								
								
								
								
								
								
								
								
								
								

# Demo



SIMPLE | Plataforma digital espa

qa-simple-hmi.puertos.es/shipping/management

Bienvenido a SIMPLE

14:10:59

Viernes  
3 de noviembre de 2023

Jorge Irisarri  
Sesión 03.11.23 a 14:04

Gestión de Envíos

Nuevo envío

Todas las categorías

Buscar

0 Elementos seleccionados

Exportar

Descargar

Estado	ID. Envío	Registro	Modo	Origen	Destino	Entidades
Ordenado	ES23A19203939F4VVZTTI	B3 15/10/2023 - 09:32		ES JAB 16/10/2023 - 09:26	ES DMA 22/10/2023 - 09:26	
En ejecución	ES23B38394727IDQS1VCY	B3 02/06/2023 - 12:21		ES VVS 30/05/2023 - 16:00	ES MAD 09/06/2023 - 22:00	
Ordenado	ES233490340DON6D7B1K	B3 08/05/2023 - 17:04		ES ALG 08/05/2023 - 17:00	ES ZAZ 10/05/2023 - 17:00	
En ejecución	ES23A59351817VPSUDUSR	B3 02/03/2023 - 10:37		ES QER 27/02/2023 - 11:00	ES SCT 08/03/2023 - 20:30	
En ejecución	ES232WSLRV0BN	B3 01/02/2023 - 17:49		ES DHM 09/02/2023 - 17:48	ES GRO 11/02/2023 - 17:48	
Finalizado	ES23A59351817MZRDUR9H	B3 01/02/2023 - 16:50		ES QER 13/02/2023 - 14:00	ES SCT 24/02/2023 - 20:00	

Filas por página:

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# Thank you!

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