



KEYSTONE

07/02/2022

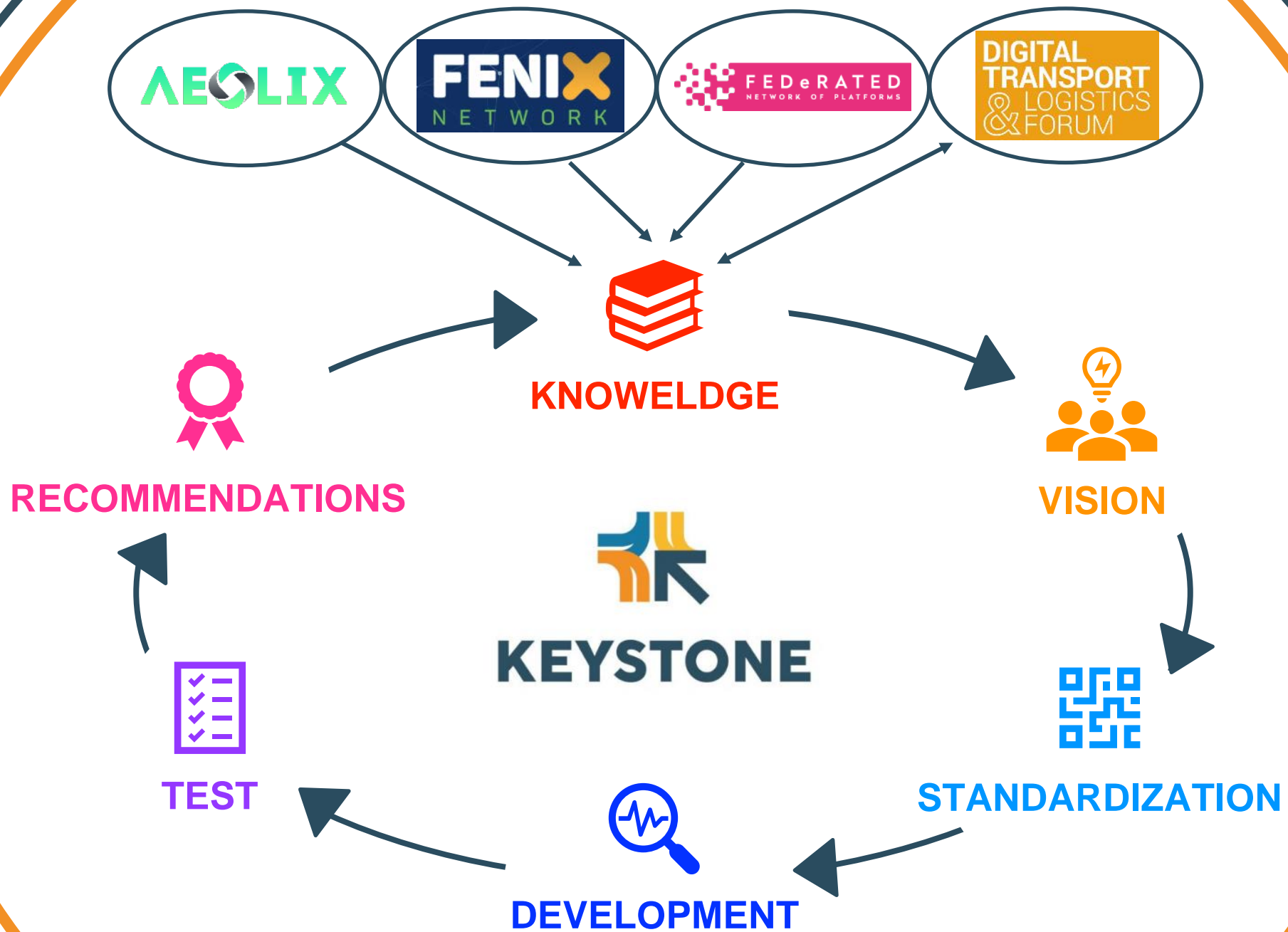
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KEYSTONE in a nutshell

- **Project name:** Knowledgeable comprehensive and fully integrated Smart solution for resilient and optimized transport operations.
- **Type of action:** Research and Innovation Actions, Horizon Europe
- **Project duration:** 1 June 2023 - 31 May 2026 (36 months)
- **Consortium:** 15 partners from 6 countries
- **Pilots:** Cim + Gruber Logistics
- **Budget:** 3.997.417 euro





Opportunities & Challenges

OPPORTUNITIES

- Direct and contactless access to real-time information
- Improve access to market services and platforms
- Increase collaboration among stakeholders
- Standardize and harmonizing digital data exchange in supply and logistics
- Interoperable software
- Remote and targeted controls

CHALLENGES/BARRIERS

- ❖ Existing data exchange systems and data models
- ❖ Divergent software, processes and paper documents
- ❖ Limited access to real-time data
- ❖ Paper-based control processes
- ❖ Multiple enforcement authorities
- ❖ Transport workers' social conditions
- ❖ Sustainability compliance
- ❖ Business logics

Our Objectives



Contribute to safety standards with digital information exchange



Promote collaboration among logistics stakeholders and with enforcement auth.



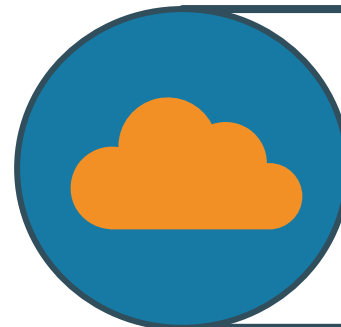
Reduce compliance logistics costs through interoperable solutions



Develop standardized APIs and Plug-and-Play design for logistics platforms



Replicate success at the EU level with stakeholder involvement



Reduction of fuel consumption and of CO₂ and NO_x emissions

Our Goals

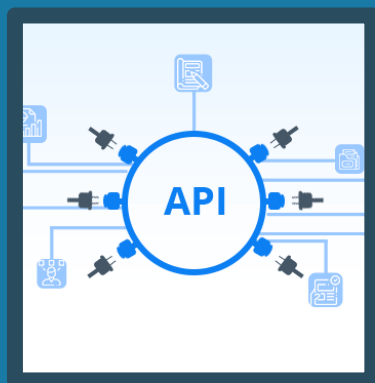
Smart Enforcement for resilient, sustainable, and more efficient transport operations

Establish an EU-wide **automated, sustainable, and cooperative** enforcement system, powered by digital technology

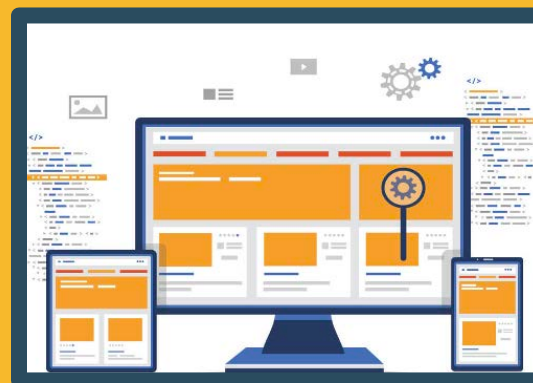
Compliance controls for all transport stakeholders (efficient and non-discriminatory with trusted and secure data exchange among entities)

Develop tools to support the **federated operation of data sources and platforms** to automate enforcement, promote smart enforcement and allow easy compliance of stakeholders to regulations and rules.

Our Solutions



**API Reference
Model and
Standard**



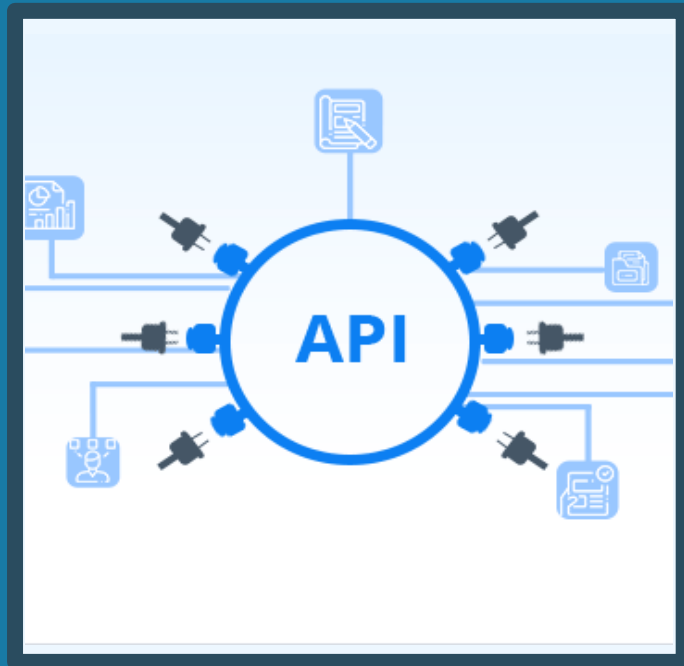
**Smartphone &
Web App**



**Pilots
Implementation**

Our Solutions:

API Reference Model and Standard

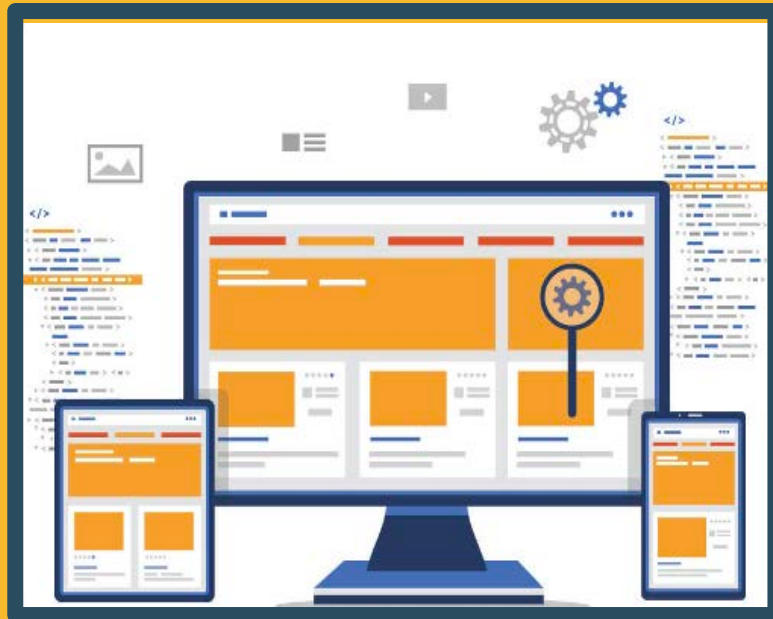


The API reference model can adaptively extend to different end-users and different use-cases.

The model will:

- Allow exposure of the *data that the user wants*
- Provide *converters per data elements* rather than the whole
- Provide API endpoint *exploration services*

Our Solutions: Smartphone & Web App



- App & webapp to ensure the highest usability.
- It can be used:
 - ✓ by **drivers** before and during their trips
 - ✓ by the **enforcement personnel** at crossings and check points
 - ✓ by the **logistics managers** to track the compliance of their drivers.
- Useful to demonstrate the validity of the KEystone solutions.
- Real-time data.
- UI/UX design.

Our Solutions: Pilots Implementation



- Test the automatic sharing of information with authorities (non-stop controls).
- Two demonstration scenarios:
 - The first one will be focused on road transport with the creation of digital ecosystems
 - The second one will include intermodal shipments.

Our on-going activities

WORKSHOPS

FOCUS
GROUPS

INTERVIEWS

SURVEYS

- To discover all the **state-of-the-art** activities
- To understand **needs, regulations, barriers, and challenges** concerned with deployment of **digitalised transport** ecosystem
- To map and analyse the **main stakeholders**
- To identify the **obstacles** and the **needs** of the people employed in transport sectors, logistics, and enforcement authorities
- To facilitate the **cooperation** of the logistics sector and the enforcement authorities at the critical points of border-crossing.

Keep in Touch with us: join the stakeholders' forum



KEYSTONE Survey



- A survey has been launched to map the needs of logistic operators and enforcement authorities!
- Participants can join the KEYSTONE community and benefit from exclusive stakeholder engagement activities.
- Feel free to scan and start! A few minutes of your time for KEYSTONE!

Thanks for your attention!

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