



# Introduction to TN-ITS and NAPCORE PrepDSpace4Mobility workshop

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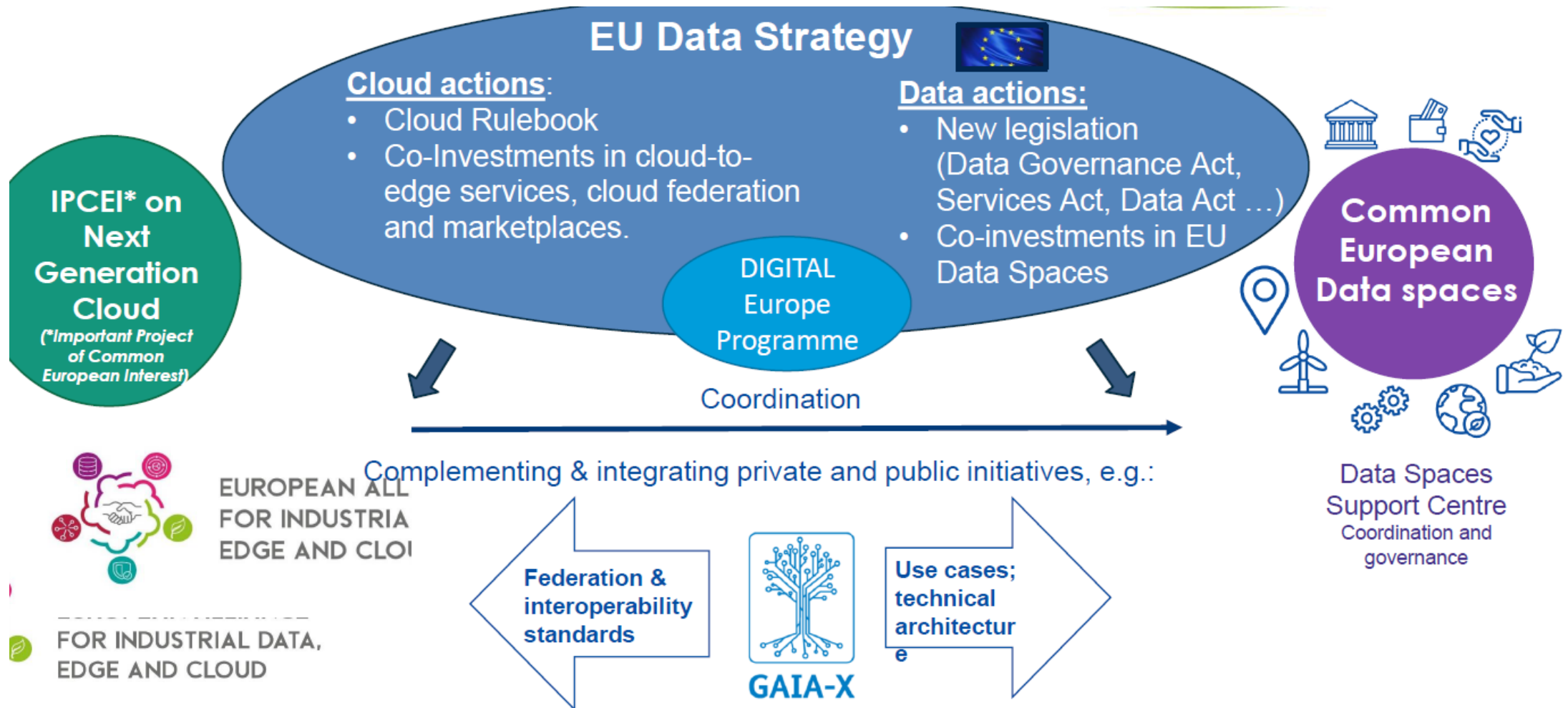
# Agenda

- EU data strategy
- ERTICO & TN-ITS
- TN-ITS in EU mobility data space
- NAPCORE





# Helicopter view on the European data strategy



# Helicopter view on the European data strategy

Centre for the Fourth Industrial Revolution Japan  
**Developing a Responsible and Well-designed Governance Structure for Data Marketplaces**  
BRIEFING PAPER  
AUGUST 2021

WORLD ECONOMIC FORUM

Study on technological and economic analysis of industry agreements in current and future digital value chains

Data for Common Purpose Initiative

The World Economic Forum-led Data for Common Purpose Initiative (DCPI) is a global initiative that enables close exchanges and interactions for the common good. With more than 100 global partners in 20 countries including seven governments, the project looks to extract trust and fairness into the global data ecosystem by promoting the use of data, closing innovation and ensuring public good in the Fourth Industrial Revolution.

In December 2020, the Forum's Centre for the Fourth Industrial Revolution, Japan launched the Study Group on Validation of Data Marketplaces, a coalition of experts from government, private sector and academia in Japan to explore data marketplaces as a model for advancing the aims of the DCPI and as a starting point of data marketplace regulation for Japan.

DMSPs: A key governance component

The exchange of data and its use are essential to addressing urgent problems – from fighting COVID-19 and improving the state of global healthcare, to preventing and recovering from natural disasters. But many data governance, public and legislative challenges and barriers to technology make the ability to through data sharing crucial to with responsible data sharing and

Relative to the vast amount of an amount that is exchanged across systems small. The market for public data for quantity of needs the general public remains constant or decreasing. Since the year control over their data.

FINAL STUDY REPORT  
21 July 2021

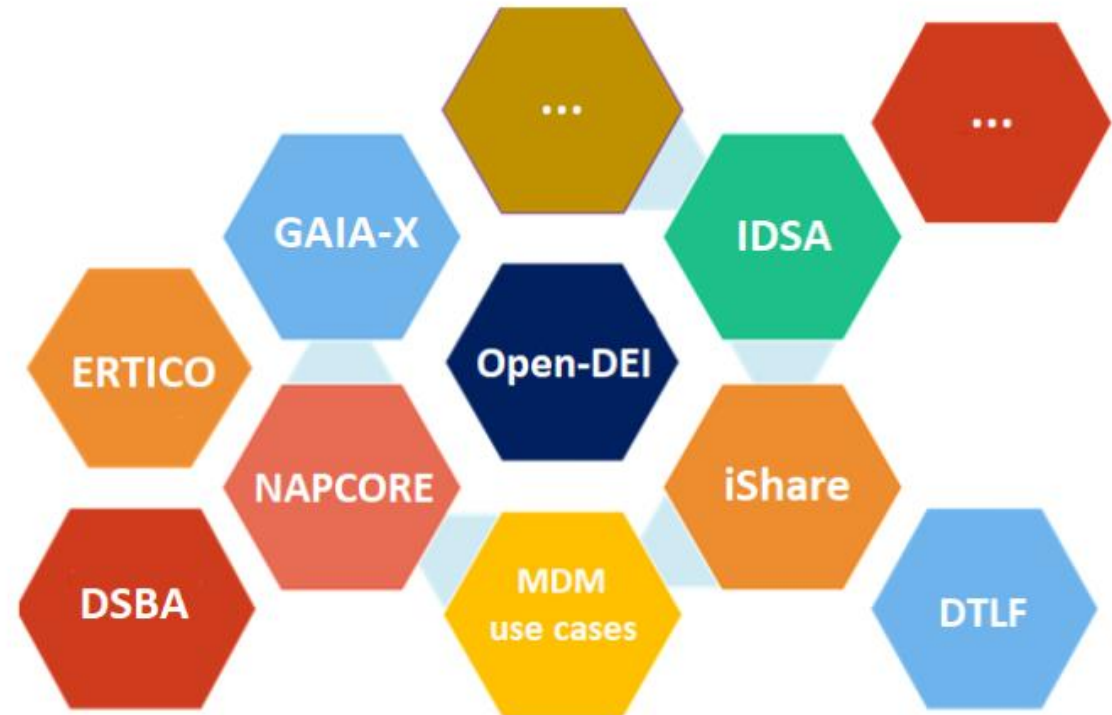
OPEN DEI TASK FORCE 1

**Design Principles for Data Spaces – Position Paper**

Converging guidelines worldwide

Data space experts team up to define for the first time cross-sectoral and across initiatives the fundamental design principles to build data

## Ongoing data spaces initiatives across Europe



## TN-ITS

- Duality

- EU Standard for data sharing of digital map attribute updates ('static data'—RTTI DR 2022-670-CEN TC 278WG7) (14 MS implementations thanks to TN-ITS GO)
- Multi stakeholder association as 'innovation platform' under ERTICO to maintain, disseminate, deploy and develop the standard



# TN-ITS Vision & Mission

Vision = Bringing fresher and trusted map data to intelligent transport services

Mission = Facilitate and foster the exchange of ITS-related spatial road data between road authorities as trusted data providers, and data users as map makers and other parties,

# TN-ITS –MAPS –Why?

## Sensor data - Why additional location intelligence is required

Not all sensor detections will result in an update, because...

### Invalid Sensor detections, for example:

- Irrelevant detections (sticker on back of a truck, pre-warnings, etc.)
- Speed limit detections on main road for off-ramps – Figure 1
- Signboards that look like speed limits but are not – Figure 2
- Values on variable speed signs, in the static map only locations of the variable signs are included (not the values) – Figure 3
- Detections of speed limit signs for non-supported vehicle types (e.g., caravan) – Figure 4



Figure 1



Figure 2



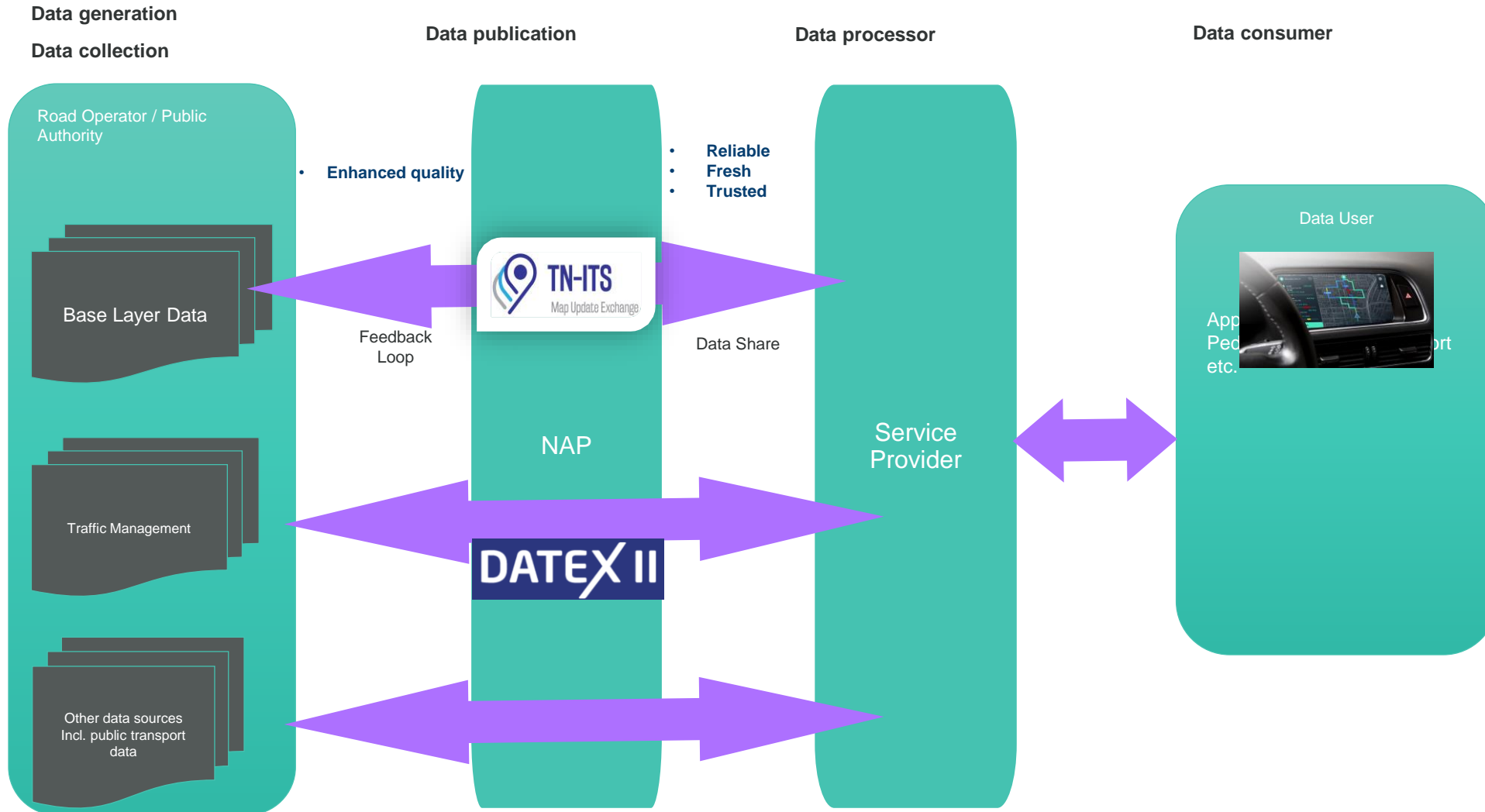
Figure 3



Figure 4



# TN-ITS within the EU mobility data Space



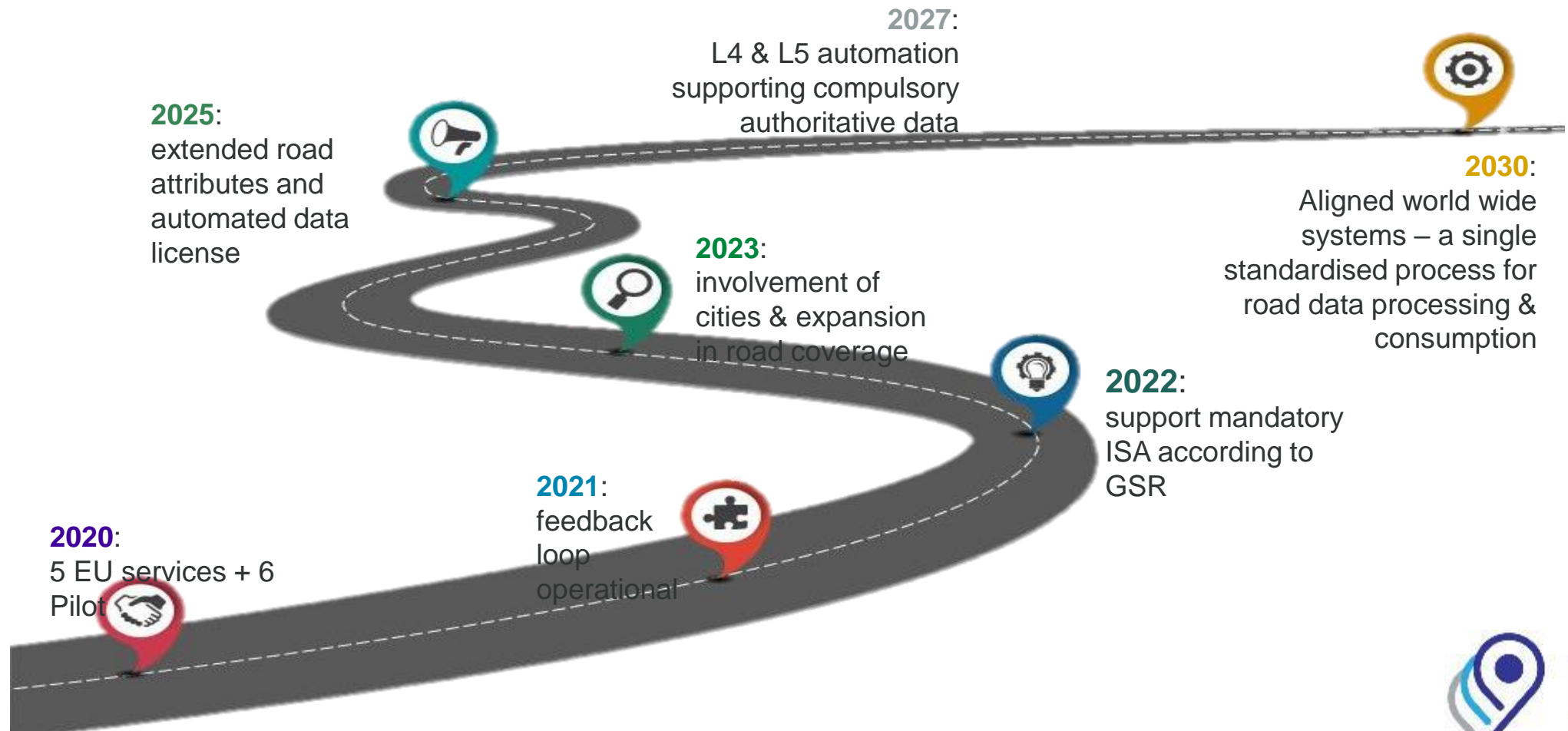


# TN-ITS within the EU mobility data Space

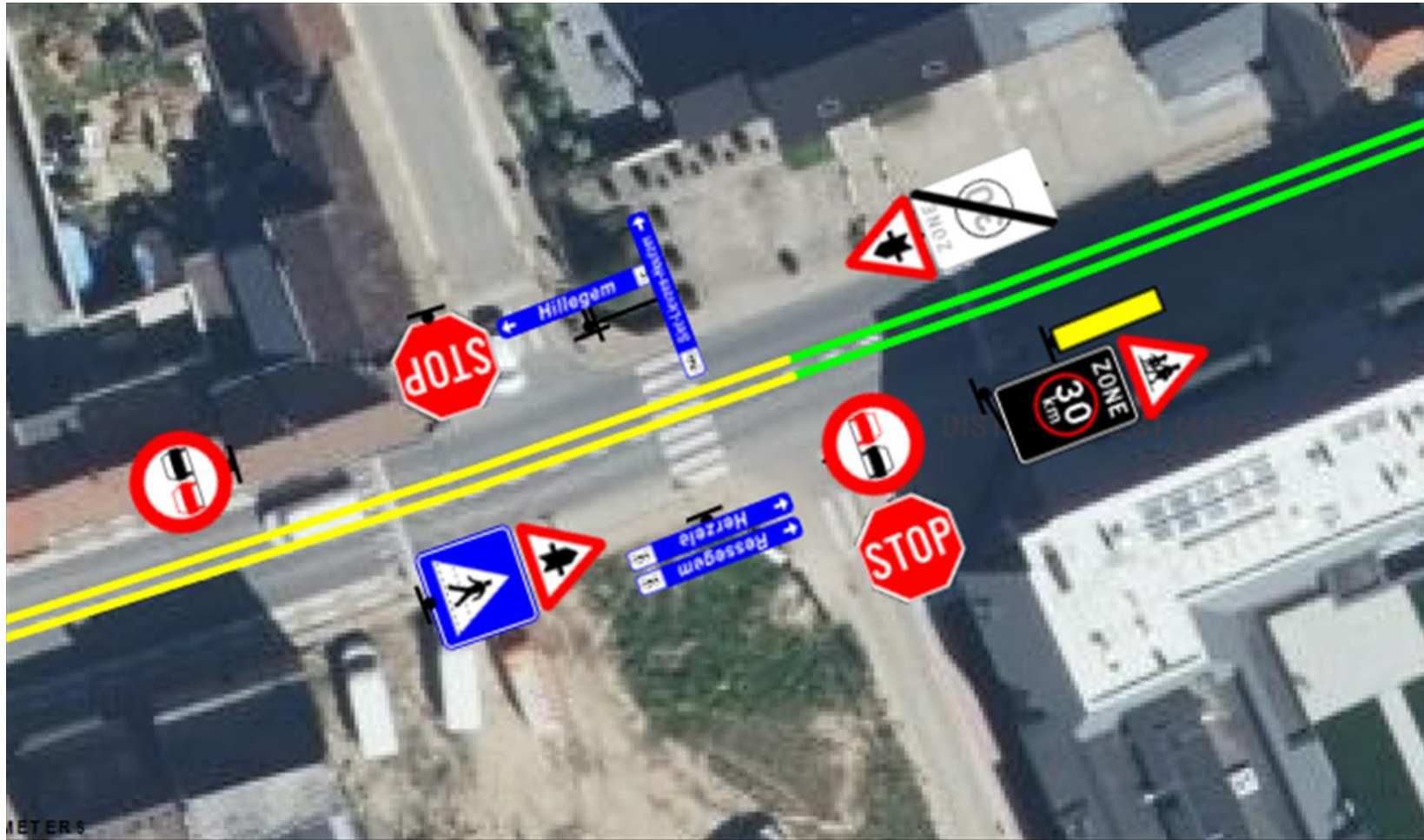
Reasons for MS road operators to implement TN-ITS interfaces in their mobility data space are therefore manifold:

- Services using the TN-ITS standard interface are market driven:
  - TODAY: There is a need for accurate maps
  - TOMORROW: A necessity to support applications like ISA
  - 2025+: Supporting Regulations for Automated drive, etc.
  
- Services using the TN-ITS standard interface are a needed asset in the Mobility data space:
  - EU based: Delegated Regulation on RTTI (static data)
  - Standards: Strong co-operation with and member of CEN/TC 278 WG7
  - TRUST: Data originates from the public authority ◊ A basis for TRUST: a unique feature of TN-ITS data

# TN-ITS roadmap



# TN-ITS implementation in Flanders



# TN-ITS implementation in Flanders

Mobile app for updating the traffic sign database

- Add/Change/Delete/NoActionRequired





# NAPCORE



## CEF Program support action (3/2021 - 12/2024)

- Federation of NAPS
- National Access Points: Single URL per Member State
- Link to the authentic data sources
- Mainly authoritative, trusted data, but also data from private instances

## Objective

- Sets up a long-term governance structure
- Harmonise NAPs
- Design and development of common tools
- Plan and coordinate data collection initiatives
- Harmonise assessment of compliance



# NAPCORE Goal of the action

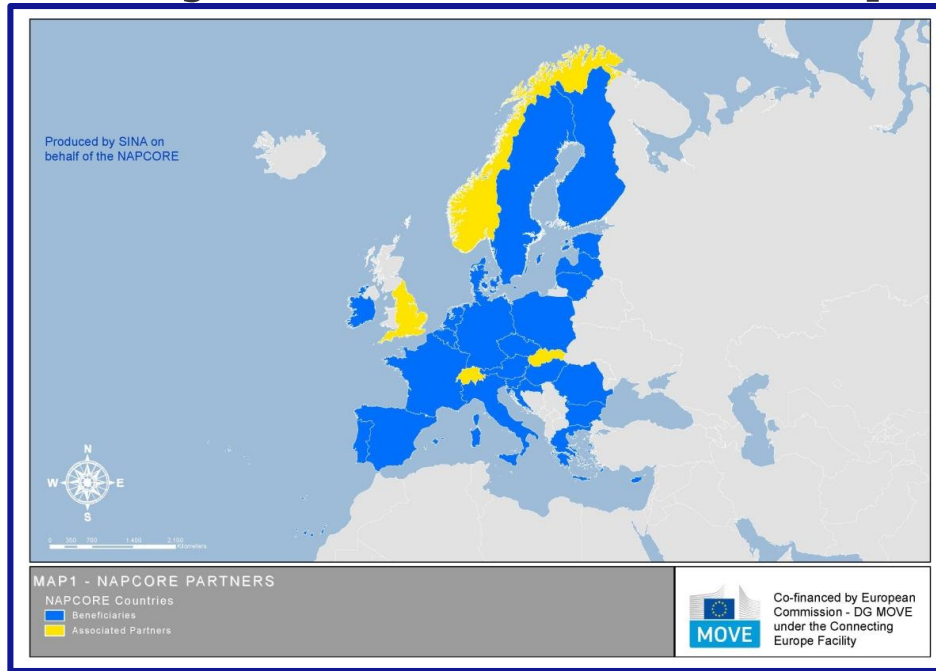


- to empower the National Access Points (**NAPs**) as the **backbone for ITS digital infrastructure**
- facilitating national & EU wide operational coordination for the **harmonisation and implementation of the European specifications**

# Objectives

- The European data strategy enables the European Union to become **a leading player in a data-driven society**
- The creation of **a single market for data** will allow the free movement of data within the EU and between sectors, to the benefit of citizens and travellers across Europe, businesses, researchers and public administrations
- Data-based technologies will also make it possible to **limit the impact of the transport sector on the environment**
- Indeed, **data are the fuel for technological development** in the transport sector and the digital transformation of infrastructure

# Project & Partnership



- 36 participants (incl Notified bodies)
- 29 Beneficiaries
- 26 EU Member States
- 1 Beneficiary no-EU Member State
- 3 International organizations (ERTICO, ITxPT and UITP)
- 3 Associated partners

- Starting date of the action: **1st April 2021**
- Completion date: **31st December 2024**
- Grant is **11,999,999 €** 85% of the eligible costs **14,117,642 €** (w/o overhead)



# TN-ITS/WG 4/Sub-WG 2



Main objective of TN-ITS/WG 4/Sub-WG 2:

- Establish common insights, requirements, alignment and implementation on methodologies to come to real 'regulated' data status
- Create Full EU Awareness , traction and engagement of TN-ITS benefits and implementation possibilities
- Full alignment , acceptance, integration into the NAPCORE mechanisms

Tasks to carry out the TN-ITS/WG 4/Sub-WG2 for 2022:

- 4.2.1 Alignment and harmonisation
- 4.2.2 Management and coordination
- 4.2.3 Specifications
- 4.2.4 Enhancements in data sharing supply chain
- 4.2.5 Engage the EU NAPCORE MS community
- 4.2.6 Communication and dissemination





Innovation for tomorrow's journey.



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