



Belgisch **Wegen**congres Congrès belge de la **Route**

LEUVEN · 4-7.04.2022

EU Mobility Data Space: Architecture and components

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ERTICO VISION & MISSION

VISION

BRINGING INTELLIGENCE INTO MOBILITY TOWARDS:

SUSTAINABLE MOBILITY → REDUCED IMPACT ON THE ENVIRONMENT

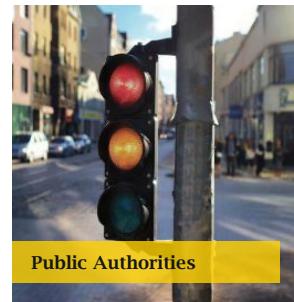
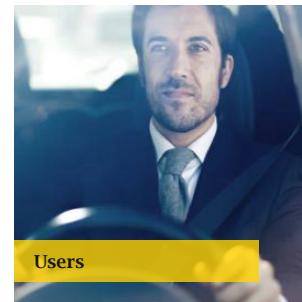
EFFICIENT MOBILITY → ZERO DELAYS AND FULLY INFORMED USERS

SAFE MOBILITY → ZERO ACCIDENTS

MISSION

ERTICO DEVELOPS, PROMOTES AND DEPLOYS
INTELLIGENT MOBILITY SERVICES, BY PROVIDING
A MULTI STAKEHOLDER PLATFORM FOR ACTION

Bringing together
8 mobility sectors
to make **mobility**
cleaner, safer and
more efficient.



ERTICO Partners

MOBILE NETWORK OPERATORS



PUBLIC AUTHORITIES



RESEARCH



SERVICE PROVIDERS



SERVICE PROVIDERS



SUPPLIERS



TRAFFIC AND TRANSPORT INDUSTRY



USERS



VEHICLE MANUFACTURERS



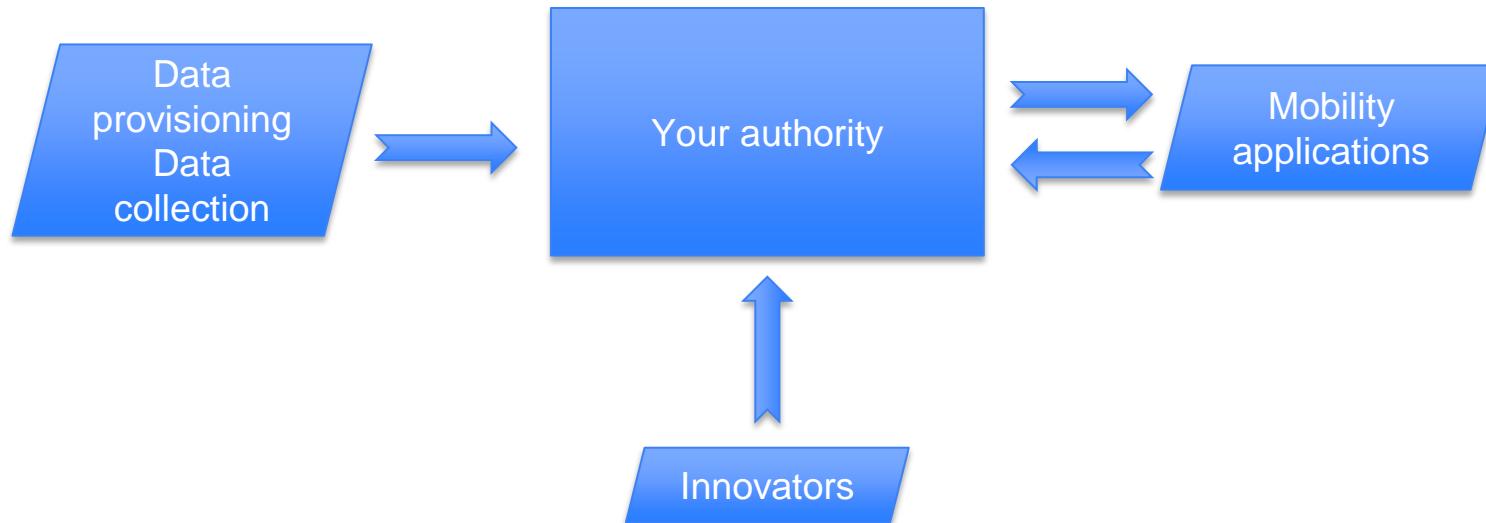


Mobility Data Sharing: Status EU cities

- Building Intelligence on 300 cities and their ITS implementation status
- One of the major topics is “DATA”
- Following slides are a report on “data” status
- Full report presented at the Hamburg ITS World Congress October 2021

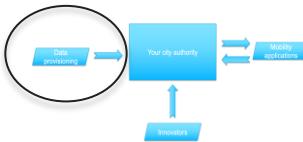


Data Sharing concept

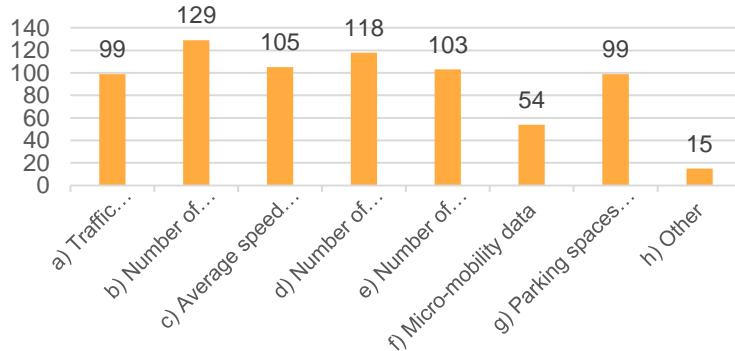




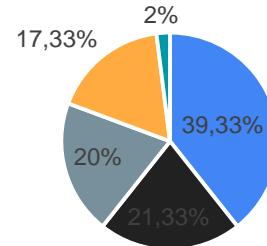
ERTICO City Moonshot: Status 2021 Data provisioning



What type of transport (traffic) data is typically collected in your city?



Are you willing to pay for data from mobility service providers?



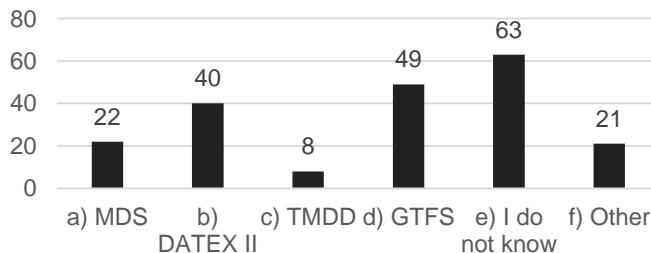
■ a) Yes ■ b) No ■ c) I do not know ■ d) Other ■ e) No response



ERTICO City Moonshot: Status 2021 Data Sharing



Do you currently use any of the following standards for data sharing?



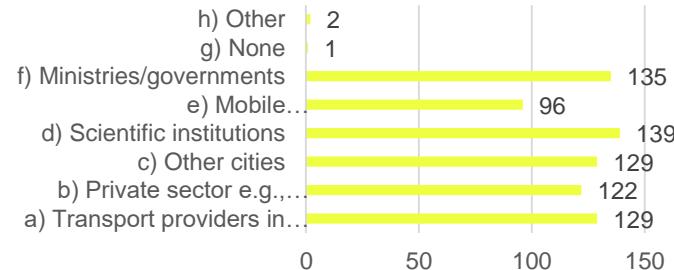
MDS: Mobility Data Specification

DATEXII: Traffic information

TMDD: Traffic Management Data Dictionary

GTFS: General Transit Feed Specification

Who are you willing to share your data with?





Why and how: Case study TN-ITS

Data generation

Data collection

Road Operator /
Public Authority

Base Layer
Data

Traffic
Management

Other data
sources

Enhanced
quality



Feedback
Loop

- Reliable
- Fresh
- Trusted

Data Share

Data processor

Service
Provider

Data consumer

Data User



Apps for Car,
Truck, Pedestrian,
Public Transport
etc.



Why and how: Case study TN-ITS

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:
 - o TODAY: There is a need for accurate maps
 - o TOMORROW: A necessity to support applications like ISA
 - o 2025+: Supporting Regulations for Automated drive, etc.

- Services using the TN-ITS standard interface are a needed asset in the Mobility data space:
 - o EU based: Delegated Regulation on RTTI (static data)
 - o Standards: Strong co-operation with and member of CEN/TC 278 WG7
 - o TRUST: Data originates from the public authority◊ A basis for TRUST: a unique feature of TN-ITS data



Why and how:

Benefit from the enabled applications to reach city mobility goals

e.g.:

- Traffic management TM2.0
- MaaS
- Parking
- Third parties and start ups
- ...
- -> Impact on Green Deal, Safety, liveability, mobility & logistics efficiency, ...

Have impact on those applications

Data controls the applications !

Make use of available data (e.g. car sensors) to improve on quality, exactness,

Ensure visibility:

Mark/logo/brand the origin of data (Authentication, trust,...)



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EAVP (Brand new)

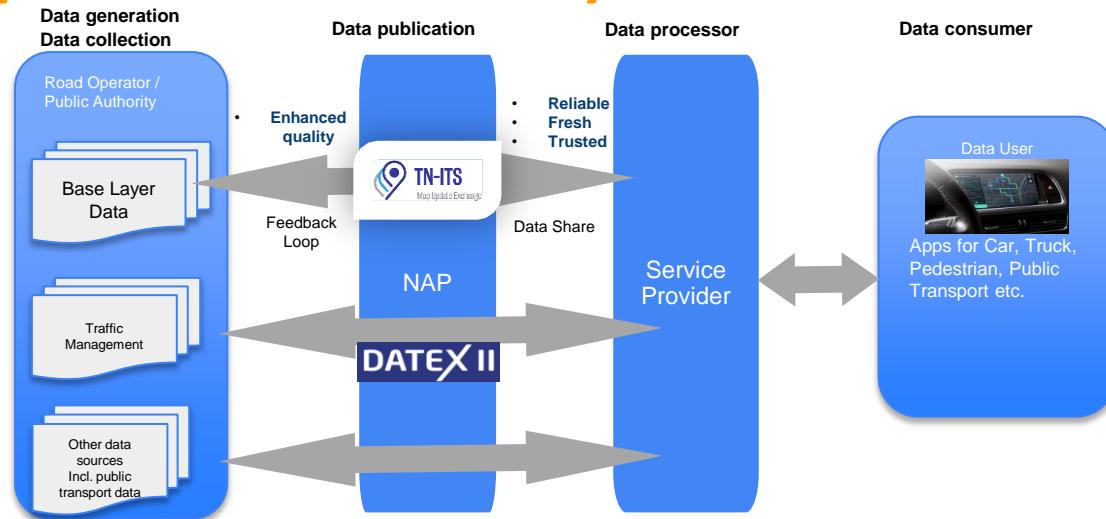
SENSORIS

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Why and how: EU Mobility data architecture





Why and how: EU Mobility data architecture



National Access Point Coordination Organisation for Europe

Making Mobility Data Flow

NAPCORE is a project to coordinate the European National Access Points (NAPs) and National Bodies (NBs) established under the ITS Directive.

The NAPCORE project website is still under development and expected to go live in 2022.

napcore@bast.de [NAPCORE LinkedIn Group](#)





Conclusion: Steady progressing but with great outlooks:

- More awareness
- Proven implementations: e.g. TN-ITS in 14 Member states
- A need for a single and recognised data access, and data availability
- A need for a full road network coverage , including Urban area's
- Nation wide
- EU wide
- More applications bring you value and need your data
- Data Trust
- Data Integrity
- Data Quality and Accuracy



EAVP (Brand new)



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EEN ORGANISATIE VAN



AGENTSCHAP
WEGEN & VERKEER

MET DE STEUN VAN



Opzoekingscentrum
voor de Wegenbouw



BRUSSEL MOBILITEIT
GEWESTELIJKE OVERHEIDS Dienst BRUSSEL

 **Wallonie**
mobilité infrastructures
SPW



BFAW
Belgische Federatie van Aannemers van Wegenwerken vzw



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