TN-ITS
SWG 4.2 NAPCORE

4-11-2022
Multi-day event Paris
NAPCORE
ir Frank Daems

Agenda

- Intro what is TN-ITS (intro only)
- TN-ITS –NAPCORE (intro only)
- Interactive session:
  - Applications & services and role of TN-ITS
  - Role of private industry
  - Case study: (after market) ISA in Helmond (Nl)
  - Member state survey response -analysis
    - Proposed actions -go forward
    - Action 2023 –road show MS engagement

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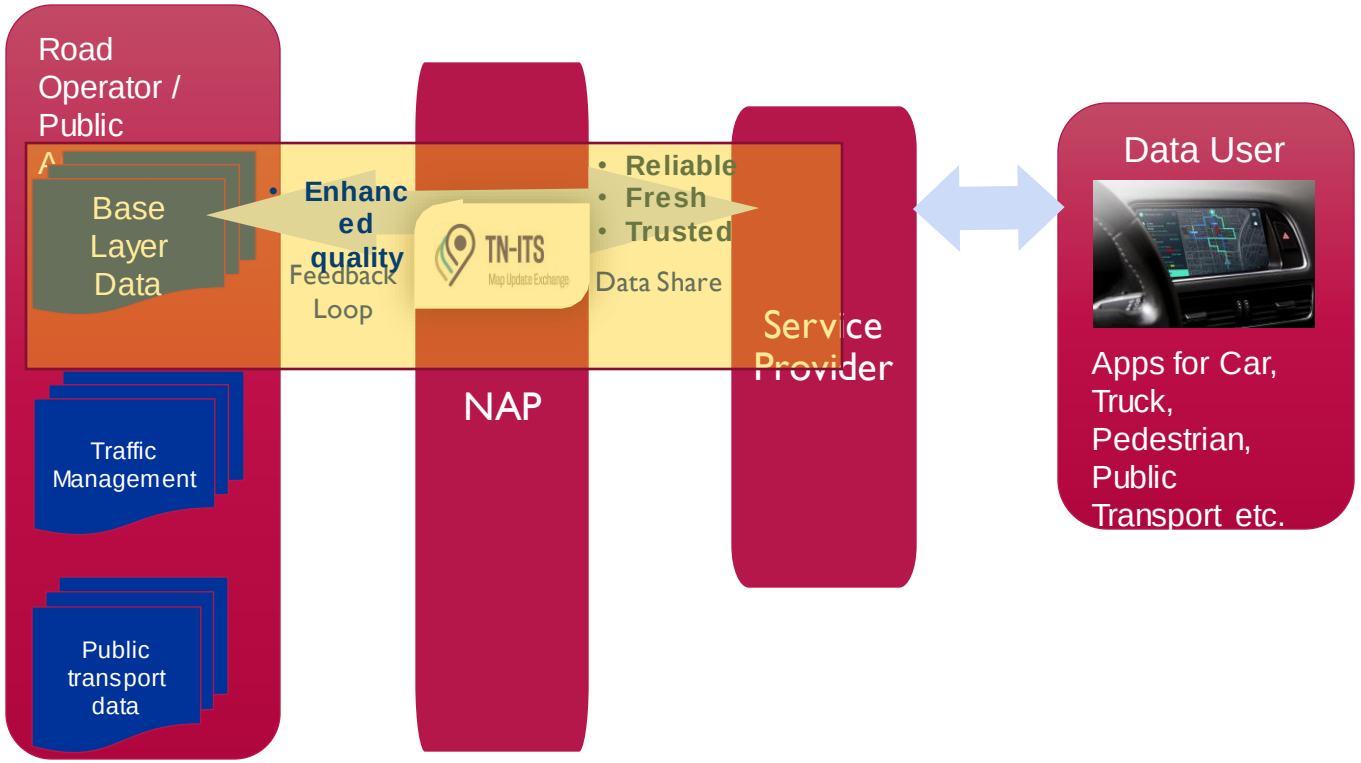
TN-ITS
Map Update Exchange

TN-ITS –what?-→ https://tn-its.eu/

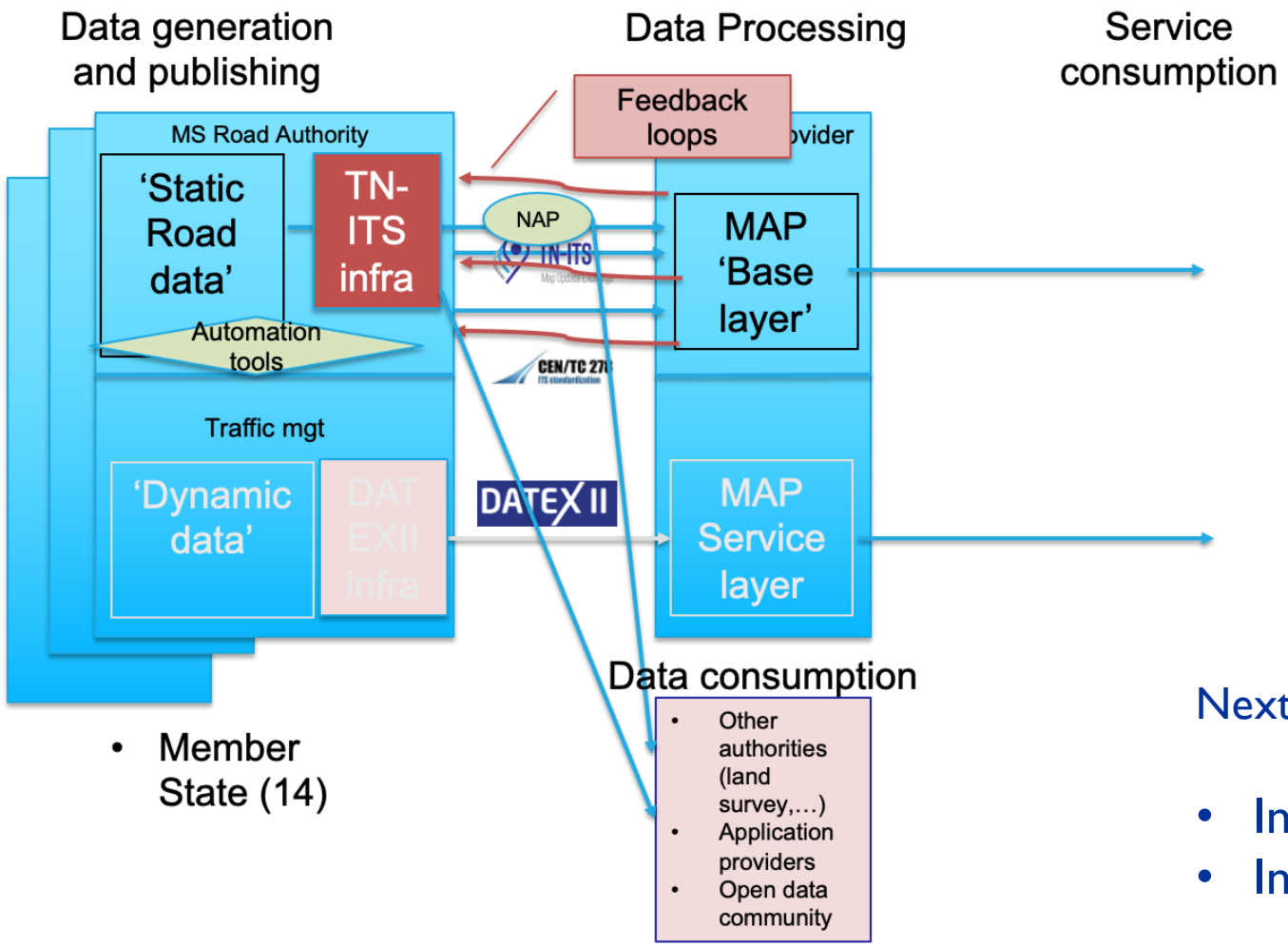
Exchange information on changes in road attributes

- Road Data used in digital maps for ITS Services
- Road attributes based on regulations
  - Speed limits
  - Other restrictions and warning signs

TN-ITS service: Position and role within the MDS



Evolving data chain, Status 2021



- Member State (14)

Next step:

- Involve data providers
- Involve (more) data users

TN-ITS , Why

Digital maps for ITS need to be reliable, fresh and trusted

- Delegated Regulation on RTTI (static data)

- Road authorities initiate changes through regulations
  - main source for road data updates

    - Requires Digital storage and maintenance
    - Common exchange format is needed

TN-ITS data exchange aspects

- Trusted Source
- Incremental updates – pointing to the changes
- Daily updates – near real time
- Standardization – CEN/TS17268
- Machine readable data
- Automatization

TN-ITS = Multi stakeholder ERTICO innovation platform

- Facilitate and foster the exchange of ITS-related spatial road data between road authorities and data users
- Bringing fresher digital map data to intelligent transport services
- Implementation and deployment Support
- Standardization CEN TS 17268
- https://tn-its.eu

In collaboration with:

European Commission
CEN/TC 278 ITS standardization
JRC EUROPEAN COMMISSION
ITS NATIONALS

Current EU service coverage by TN-ITS Go project 2018-2021

- 20 Partners in Europe
- Towards TN-ITS Services in 14 Member States
- Minimum coverage TEN-T Network – ambition is more
- New features supporting new use cases (multimodal)
- Duration Jan 2018 – Dec 2021

TN-ITS GO is co-financed by the European Union's Connecting Europe Facility, grant agreement no. MOVE/B4/SUB/2017-63/CEF/PSA/SI2.770546

TN-ITS and NAPCORE

- NAPCORE =
  - National Access Point Coordination Organisation for Europe
  - a newly formed organisation to coordinate and harmonise more than 30 mobility data platforms all over Europe.
- TN-ITS activity in NAPCORE (SWG4.2)
  - 11 Partners 'Active' involved (10 MS + Ertico)
  - Duration: Q2 2021 – Q4 2024
- Tasks:
  - Alignment in standards
  - Daily mgt and execution of the platform
  - Specification and standardisation
  - Data chain enhancement
  - Member State engagement
  - Communication & Dissemination

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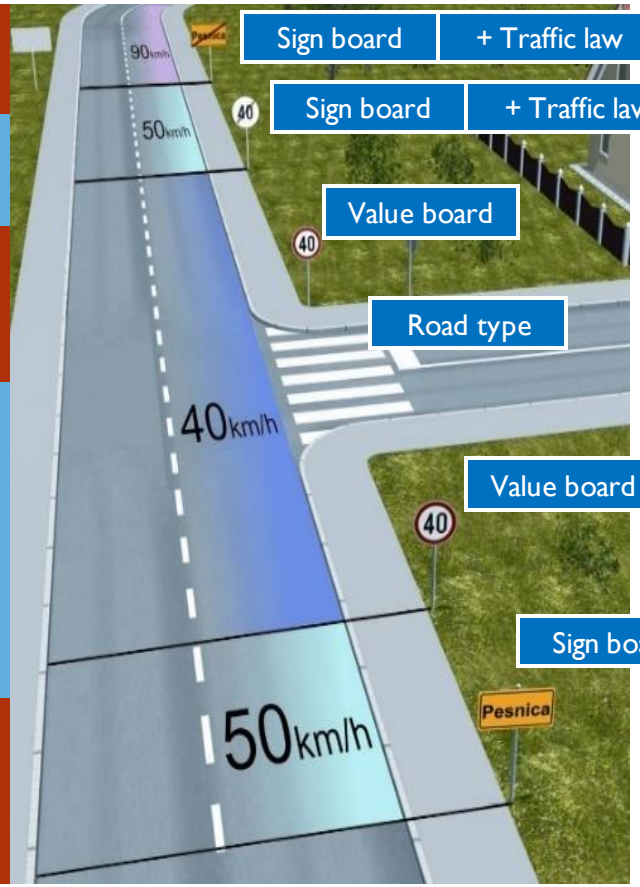
Co-financed by the Connecting Europe Facility of the European Union

ISA and TN-ITS

TOMTOM 'ISA needs a digital map'

Implicit: road-classification	Sign board + Traffic law + Road physical layout
Implicit: area	Sign board + Traffic law
Explicit overrides Implicit	Value board
Explicit	Road type
Implicit: area	Value board
	Sign board + Traffic law

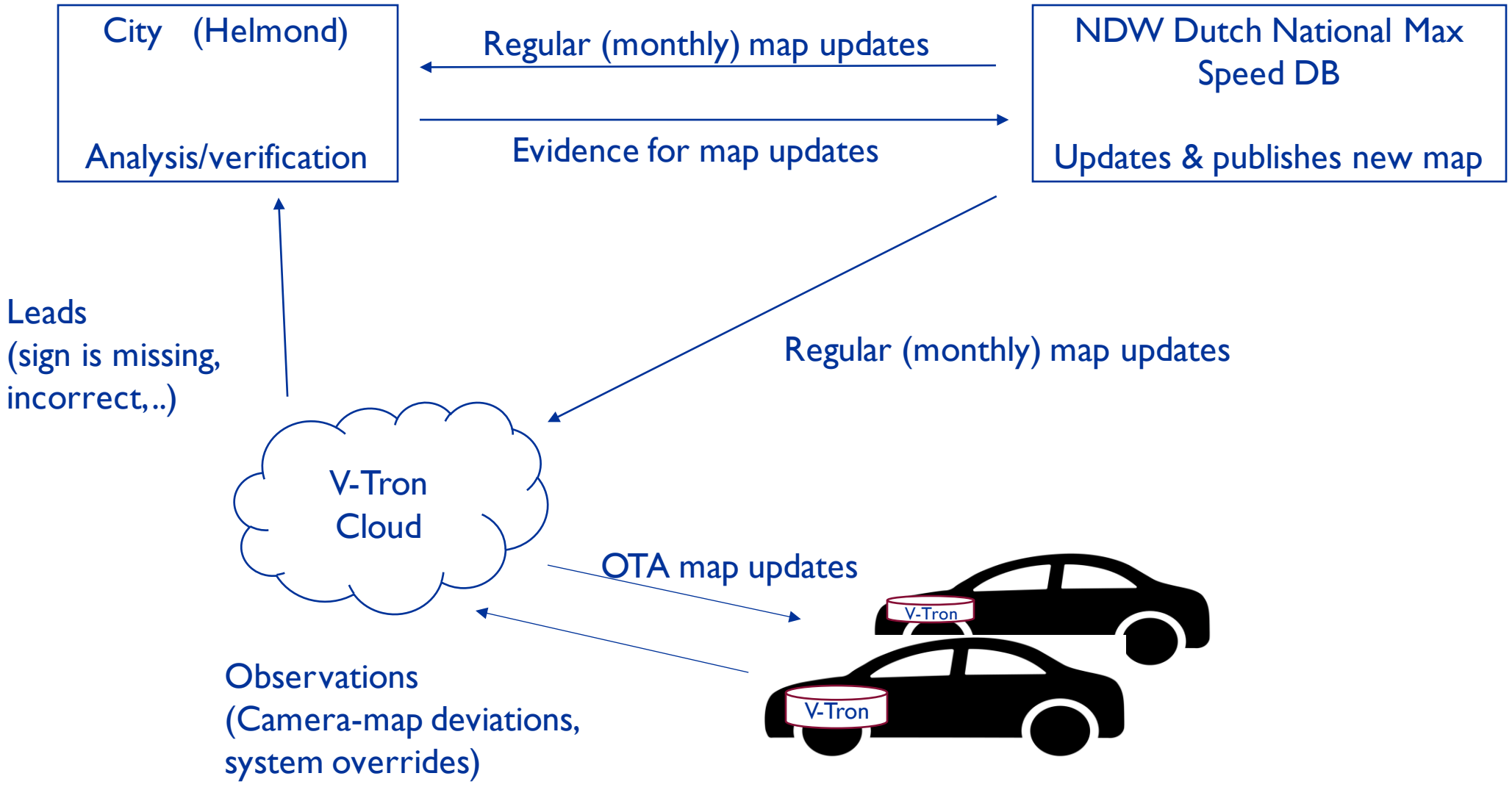


Case study: ISA in Helmond

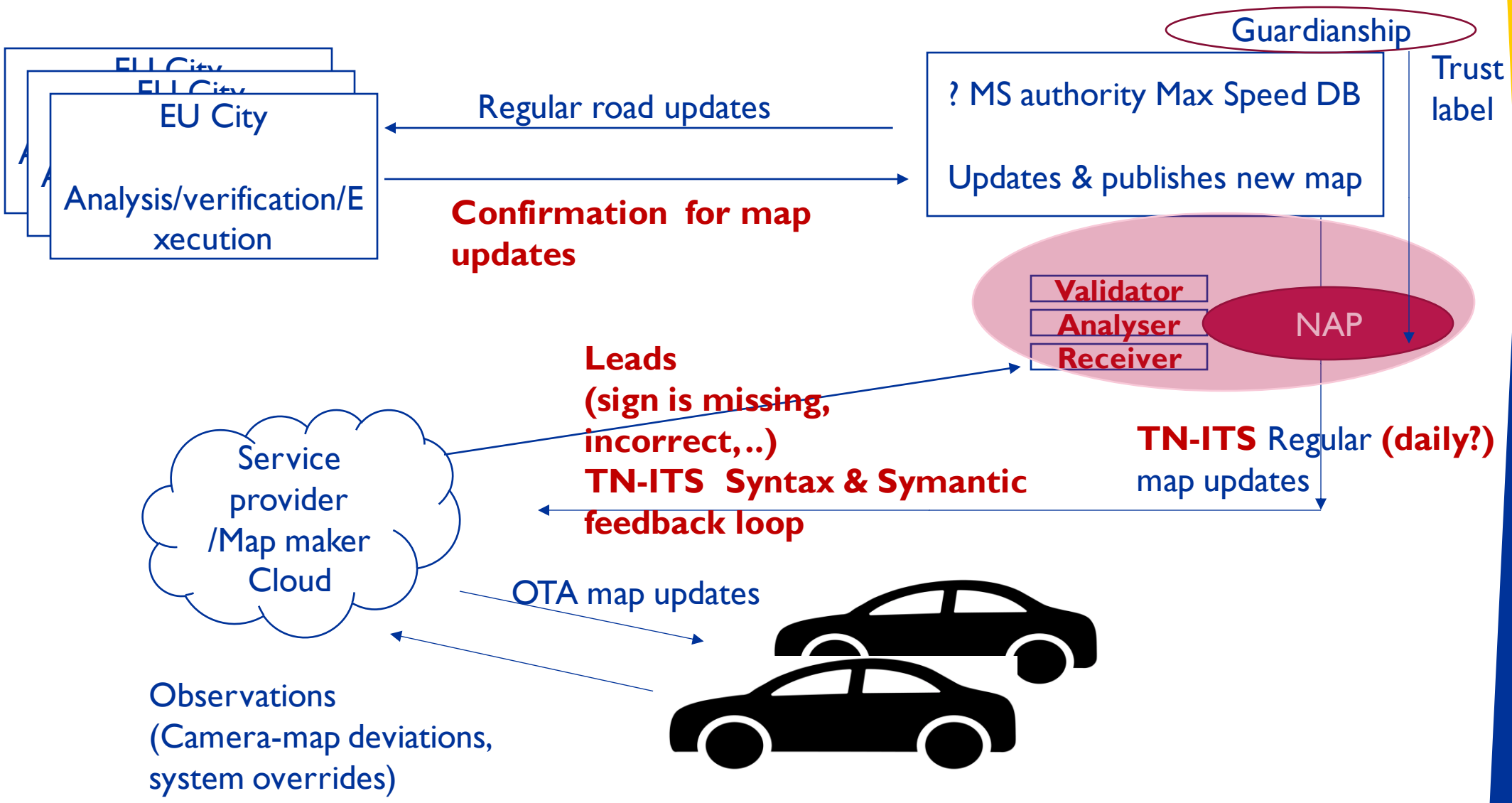
- Life environment to proof technical readiness for aftermarket ISA
- Seamless automated speed adaptation,
- Following the traffic sign boards & digital map.
- Detected gaps in the current EU Mobility data Space
  - data quality,
  - integrity ,
  - sovereignty
  - trust

along the data chain

ISA FIT Helmond (NL) : current Data chain



Discussed future EU city related data chain



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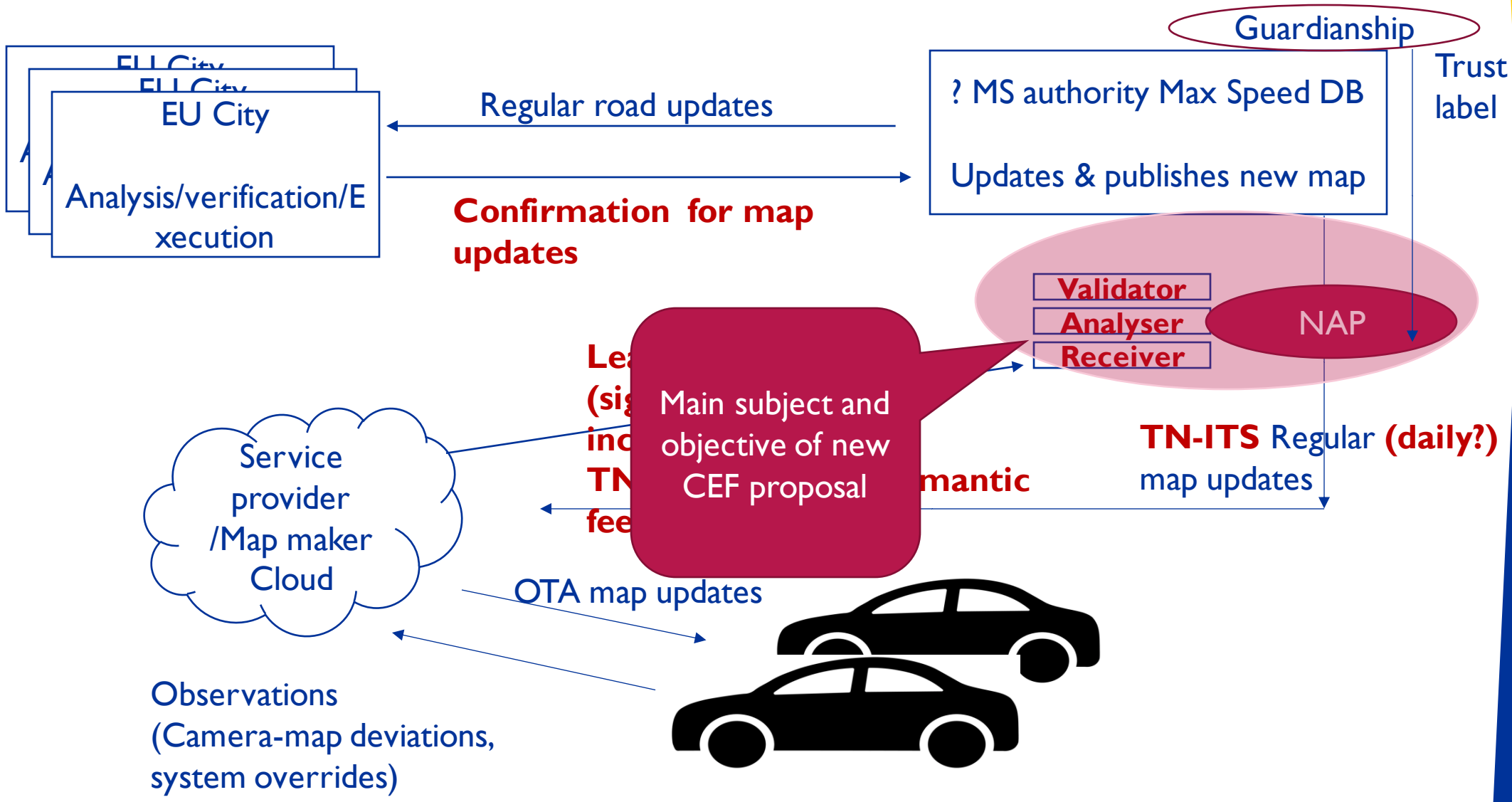
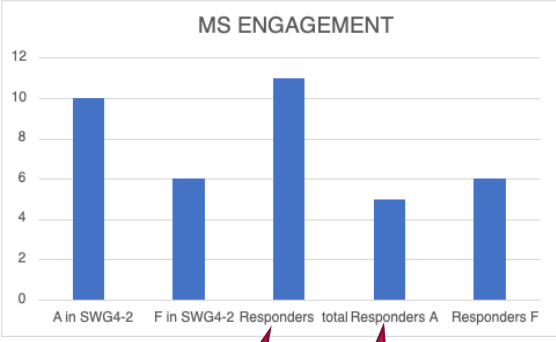


MS survey feedback on TN-ITS status



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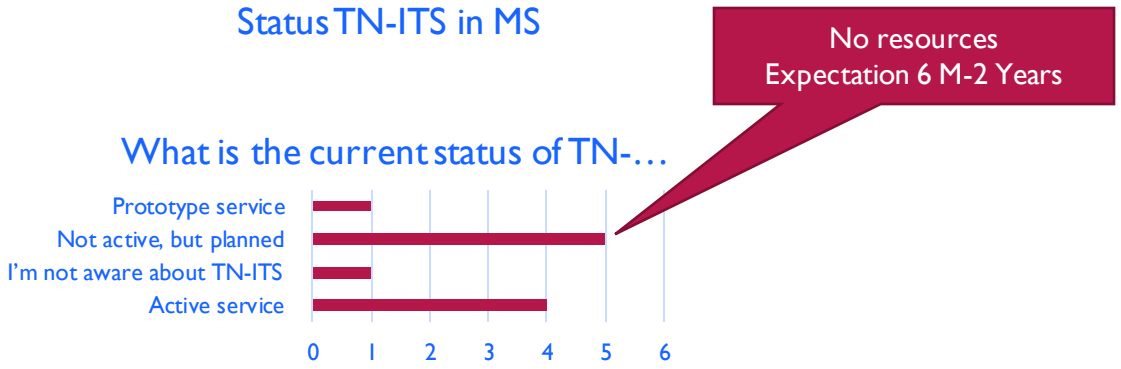

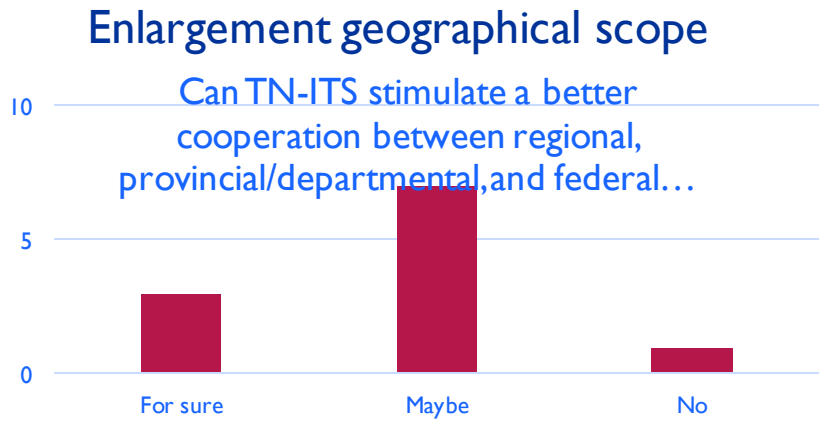

Additional (major) findings of the MS survey

- According to the participants, NAP operations are mostly to support the TN-ITS service, rather than essential for TN-ITS
- In order TN-ITS to achieve a better cooperation between regional and federal within Member States, the best ways are to organise local events with major cities, road operators and develop more applications
- The applications that are considered as most likely to improve TN-ITS service are the Digital Map and Navigation, Safety improvement (ISA: Intelligent speed advice) and Regulatory data feeds
- The data sources that would likely use are: Own created data and Data obtained by other public partners

Interactive session

Next slides and topics

MS engagment: 2023 road show MS engagement

- Input from audience

Role of private industry

- Support applications
- Offering ICT infra elements
- Operating infra elements-data provisioning
- …..Your answer

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Input from Audience

Applications and services

- Priority applications (NAPCORE)
    - Parking
    - Cycling
    - Alternative fuels
    - ISA
    - Automation
    - MaaS
- What is the role of TN-ITS related to these applications?
- What is the role of the application to TN-ITS?

Input from Audience

Thank you !

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