



TN-ITS

Map Update Exchange

DATEX / TN-ITS Session

07-11-2024 @ 11h – 12h30

Mobility Data Days - Torino

Overview

- TN-ITS goals



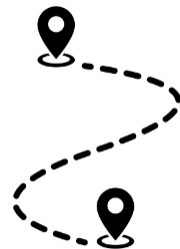
- The Declaration of Lisbon



- TN-ITS efforts



- Standards roadmap



- Co-operation agreement



- Outlook (NAPCORE X)

- Feedback from audience



The TN-ITS Focus



Be the EU reference standard for the trusted exchange of changes of road attributes between authorities and map/service providers



Target the full EU(+) deployment in agreement with the RTTI Delegated Regulation



Be the EU supported community group for map related data



Focus to speed limits and ISA, extend to all other road attributes and full geo coverage including cities.



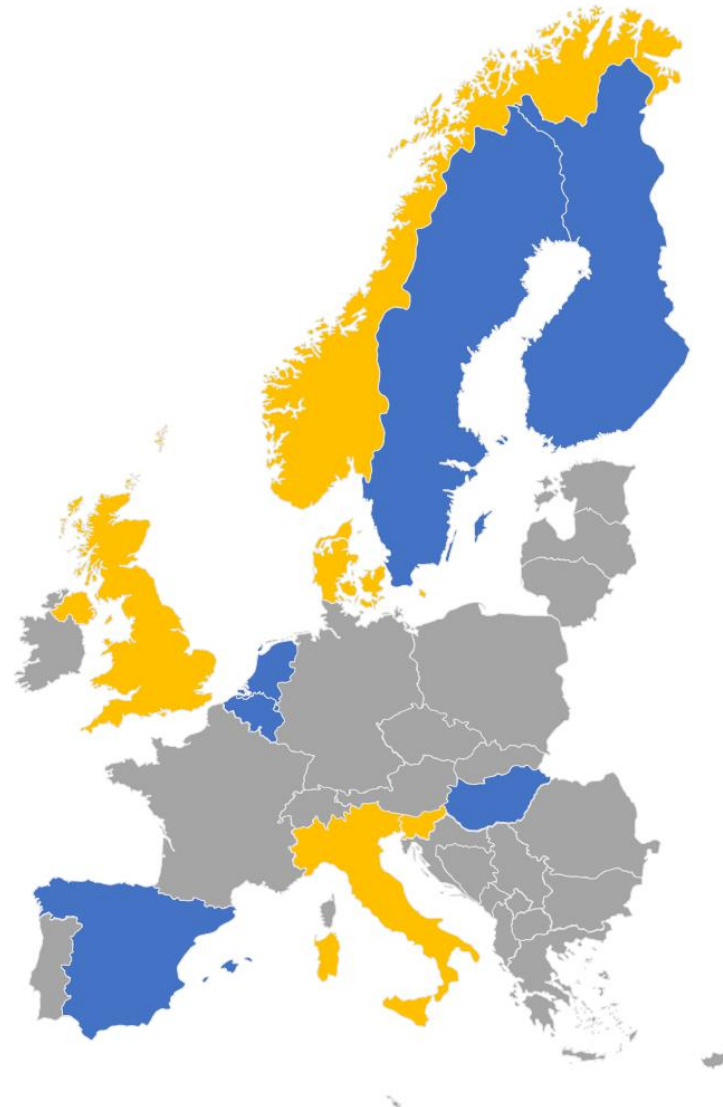
Deploy a roadmap to implementation

TN-ITS Services in Europe

Operational Service



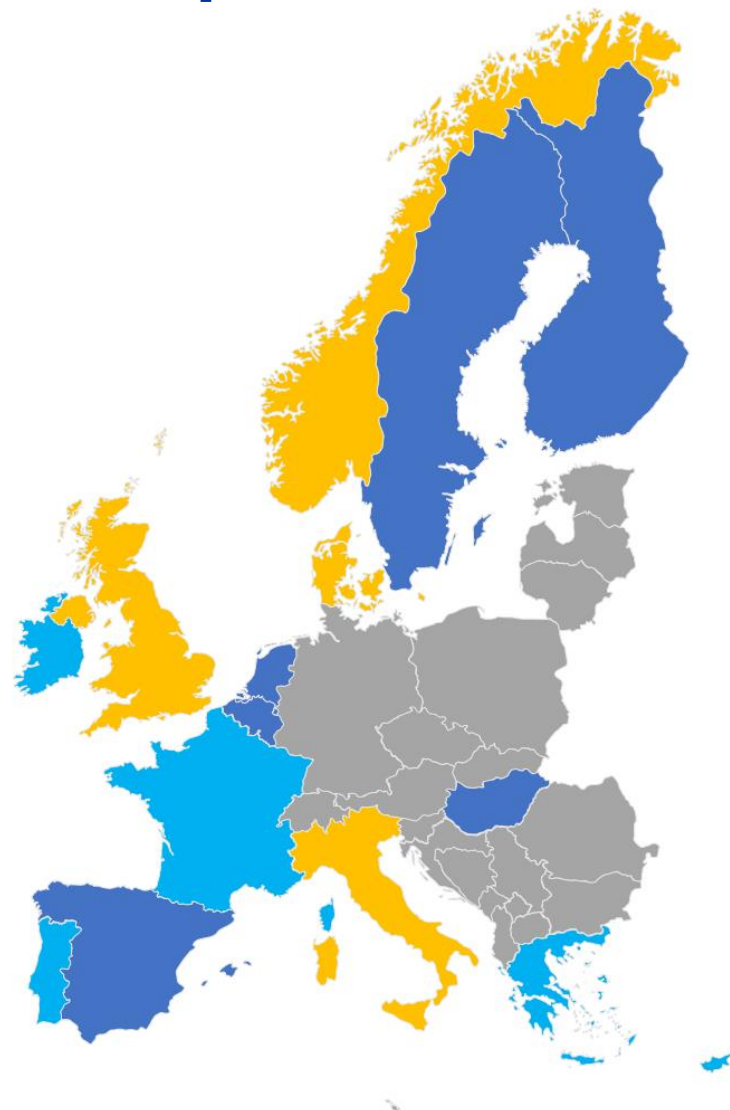
TN-ITS Services in Europe



Operational Service

Service in 2025

TN-ITS Services in Europe



Operational Service

Service in 2025

Pilot Service

TN-ITS services used by Map & Service providers

- Input Christian ????????????

The TN-ITS Goals

- Combine efforts with DATEX to accelerate TN-ITS services deployment by:

- increasing awareness



avoiding confusion wrt use of standards



- aligning technical specifications under CEN TC278 WG8



- jointly addressing future versions of the standards 2025+



The **TN-ITS**–DATEX II merger Goals

- Focus on technical (specifications) and governance alignment with DATEX
- Ensure NAPs capture right TN-ITS services to facilitating awareness of & access to data

The Declaration of Lisbon, May 24th 2023

Declaration of Lisbon

24th May 2023

DATEX II and TN-ITS have identified a strategic need and a joint objective to align and harmonize the two standards, in order to support current and future European road and traffic management services in a coherent way.

Therefore DATEX II and TN-ITS declare that they will, in the context of NAPCORE, together :

- develop and deploy the merging of the two technical standards
- setup a sustainable governance of the resulting standard
- facilitate user adoption to support relevant EU policies
- support stakeholder-engagement communities





European Commission



European Commission



European Commission

Bard de Vries
Chair of the DATEX II Change Management Board

Lisbon 24th May 2023

Timo Hoffmann
Coordinator of NAPCORE

Lisbon 24th May 2023

Christian Kleine
President of the TN-ITS platform

Lisbon 24th May 2023



TN-ITS efforts in NAPCORE wrt alignment with DATEX

- Technical alignment & Standardisation work
- Governance
- Integrating into DATEX TB/CMB

Technical Alignment

- Peter Schmitting
- 2023 Comparison of Conceptual Data Models
- Report Knut
- Work filling RTTI GAPS in alignment with Part I I

Technical Alignment

- Peter Schmitting
- Standardisation work

TN-ITS efforts

- Technical alignment and standardization work
- **Governance**
- Integrating into TB/CMB

Governance matters

Elements of alignment: **technical** and non technical

Topic	Definition	DATEX	TN-ITS	Target Part 14
Bug reporting	Method	Bugzilla (moving towards Github - under investigation)	via email & Github	TN-ITS to be integrated in the DATEX Issue Track (moving to GitHub)
Bug tracking	Registering & handling known issues	Bugzilla (moving towards Github - under investigation)	MS Word & Github	See above, one environment, issues: feature request & issues
Schema files	Conversion from UML to Schema files	Proprietary tool	ShapeChange tool	Common toolkit and use in Phase 2, work item in NAPCORE X
Publication Repository	Digital files related to the specifications	On website (open), incl UML (as PIM)	On 'hidden' webpage and on GitHub, excluding UML	Follow DATEX approach (free & open UML), supported by NAPCORE and CEN convenors (Blaive, Harrod Booth, de Verdalle)
	Hosted reference sources	UML is part of SVN (to move to GitHub), Master is in second repository (with figures)	GitHub & Sharepoint	Part 14 to be part of DATEX Documentation management Idea Transfer or Linked to DATEX GitHub - Paal and Peter S (migrate or start from scratch)
Data modelling	Conceptual data modelling	Enterprise Architect	Enterprise Architect	Continue as is on EA, preferred by CEN
Profiling	Subset of specification	A publication	Not available yet	TN-ITS has only have one today; TN-ITS could be a DATEX profile eg in Phase 2
Profiling	Data categories	Reference profiles - make specific for Use Cases	Not available yet	Possible for TN-ITS (e.g. ISA use cases), to be discussed
Exchange specification	Mechanism for data exchange / (publishing/hosting data)	Standardised exchange mechanism (2 standards - Platform Independent (functionals) platform specific (SOAP interfaces) Open API in roadmap Considering message brokers (MQTT) - incl trust & authenticity	Websites hosting of XML files & Rest API	TN-ITS to investigate opportunities for alignment, including elements as trust/authentication (idem public transport data) (broader than TN-ITS and DATEX) (related to WG2 General NAP architecture) George C. aligning with Massi M. (4.2.7)
Feature updating	Feature update request	Github/CMB/TB	Github/Board	See row 2 and 3; refer to "issues"
Release notes	Procedure on sharing updates of specifications	Included in SVN, published on D2 website	Included in repository (specs), for the code lists	Align the process : to be integrated in DATEX: target 2024

Governance matters

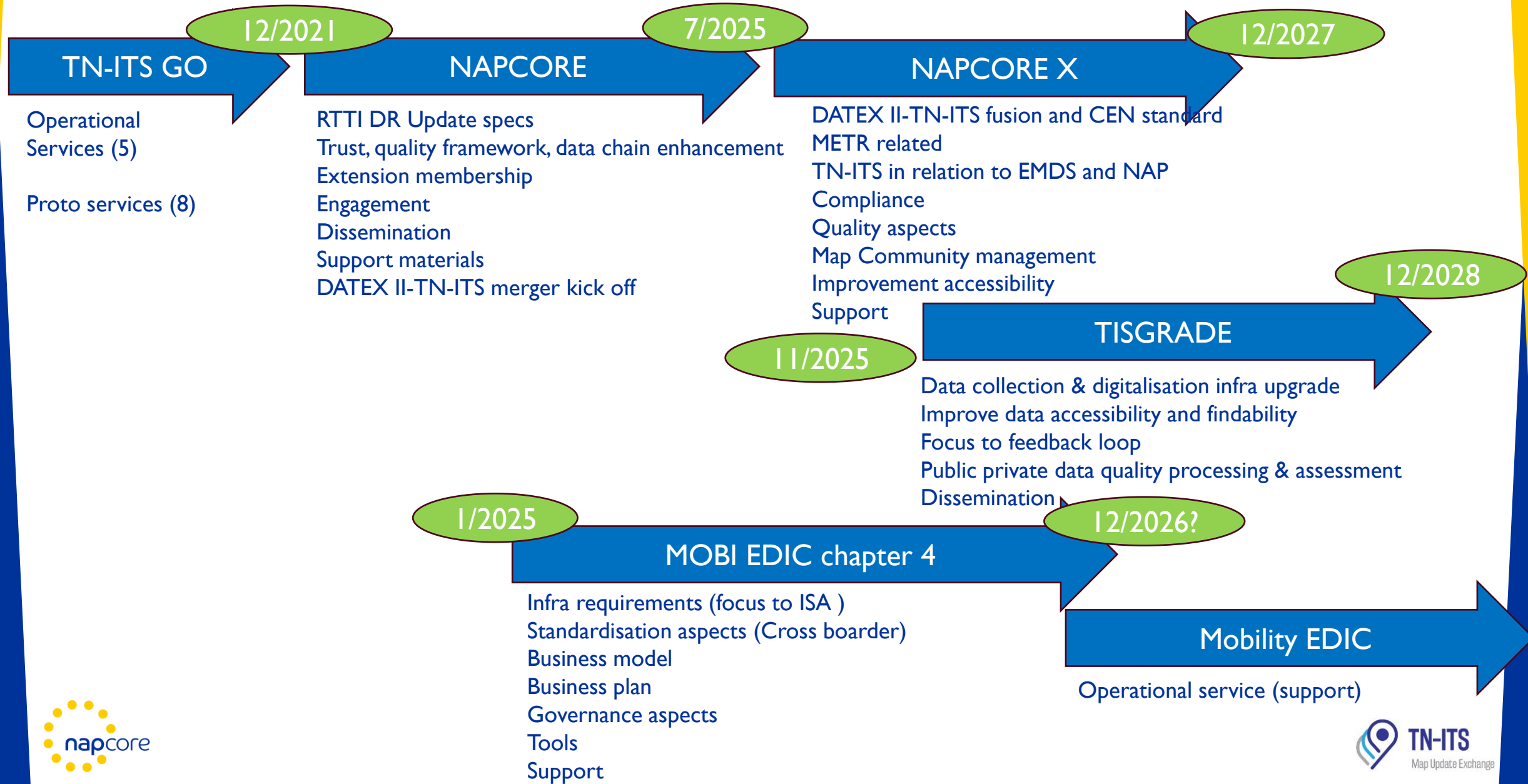
Elements of alignment: technical and non technical

Topic	Definition	DATEX	TN-ITS	Target Part 14
Governance Community/Platform	Platform focus	CMB: Steering Committee	Management team, Board, under Terms of Reference	Cooperation Agreement defining governance aspects
Governance of Standard	Technical focus on specifications	CEN TC278 WG8 with Technical Board under ToR	CEN TC278 WG7 with Technical team	Phase 1: start process to redefine the DATEX Terms of reference (Bard to initiate & run) Representatives of TN-ITS in DATEX CMB and TB In Phase2: TN-ITS as DATEX Part 14
Formal standardisation	Relation to CEN	CEN, yet "DATEX Exchange" is in ISO, managed under CEN working group Rules of procedure are defining the mode of operation between CEN TC278 WG8 and D2 community	CEN (TN-ITS is a Liaison Organisation)	NAPCORE strives to a coherent arrangement of mobility data standards with CEN (identified by H1) This is considered to be a NAPCORE WG4 topic This will impact TN-ITS and DATEX
Legal Structure & power of signature	Type of association	No specific legal structure under project Grant Agreement/Cooperation Agreement (NAPCORE)	Legal entity under ERTICO umbrella (Innovation platform) Also under NAPCORE	DATEX can explore EDIC and Legal Structure is on the NAPCORE X program list No TN-ITS impact
Training	Material for managers and engineers	Available for three categories of users Youtube channel, technical documents, general website	Video (Youtube)/Webinars (ERTICO website), Implementation documents (on website), Data manipulation (Python code) on GITHUB	In the DATEX FrontEnd integrate TN-ITS links to training & documentation
Website	Internet presence	Reworked summer 2024	Covering general aspects, extension .eu, no update/message on merger	Step 1: common lay-out : TN-ITS adopted DATEX menu position & names (September 2024) Step 2: cross referencing on datex2.eu and tn-its.eu (asap 2024) Step 3: Put the TN-ITS specification info on the DATEX2 website and have TN-ITS site point to D2 - to be investigated - end 2024 & 2025
Dissemination	Sharing information, channels	LinkedIn, Website, NAPCORE newsletter	LinkedIn, ERTICO newsletter, TN-ITS newsletter, Linktree, papers,	Alignment related to the standard only - eg via projects
Events	(User) Interaction events	DATEX II (Virtual) User Forum	Quarterly Partner Meetings (now under NAPCORE)	TN-ITS to join the DATEX user forum in Bucharest (October 9-11), incl promotion of this event - topic: completion of the merger TN-ITS to support the Program Committee (TN-ITS management to decide asap) DATEX is invited to TN-ITS Quarterly Partner meetings and yearly General Assembly (December)

TN-ITS efforts

- Technical alignment and standardization work
- Governance
- Integrating into DATEX TB/CMB

TN-ITS from project to deployment roadmap



Joining the DATEX CMB and TB

- Online meetings
- Utrecht, Cyprus, Vienna, Bucharest



DATEX **TN-ITS** Cooperation



Joint action

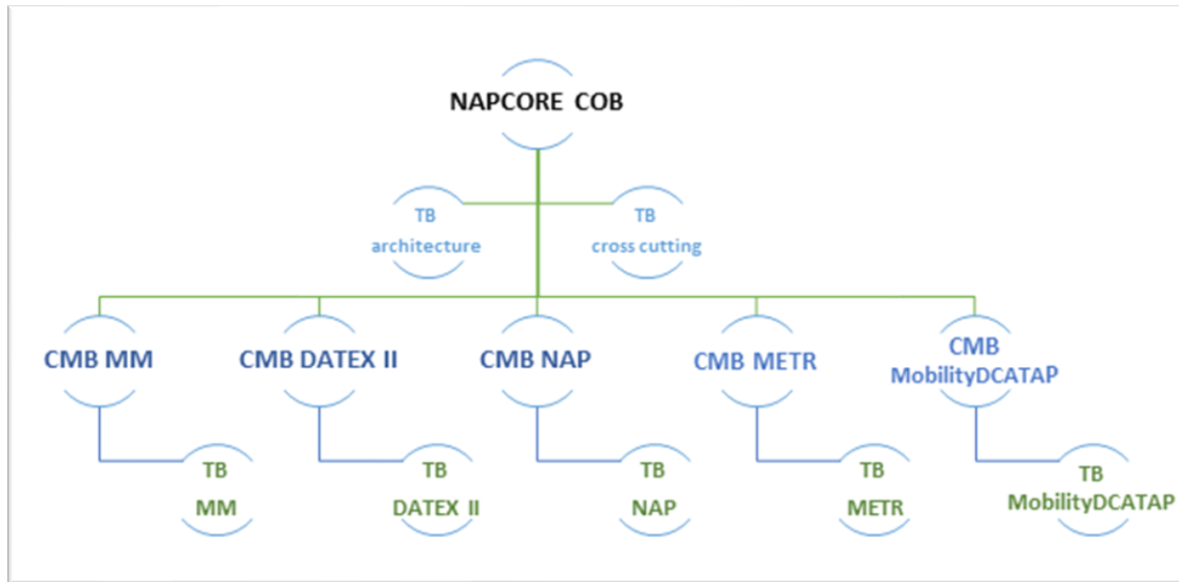


Elements



INPUT TABLE OF ELEMENTS
FOR CA (STS)

Outlook 2025+



- Future Architecture and Standardisation in NAPCORE
- .

Feedback from Audience

- What are your expectations?
- What is the impact on deployment of TN-ITS Services?
- Does this merger help on your choices to publish map related data?
- What is missing?



Summary of the audience input



