

## Standard harmonisation: NAPCORE outcomes

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napcore

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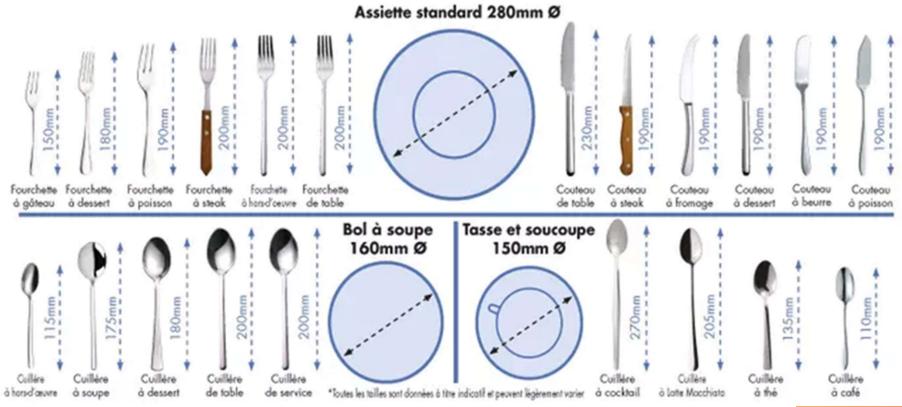








# Can we compare standards which are focus on different needs?







#### What can I trust?





Signsrecognition

versus

Legal speed limit CONGRESS
SEVILLE
19-21 May 2025
Clear, resilier, and connected mobility.

## What are we speaking about?

**Semantic understanding?** 

**Dedicated technical domain?** 

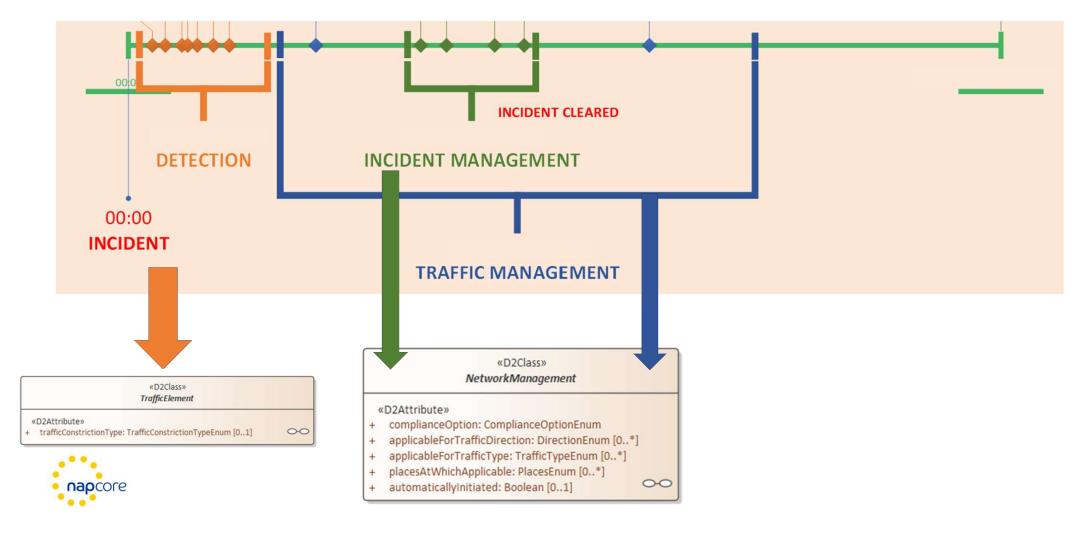
Data mapping?

**Common modelling?** 





# 2 types of road unavailability: Road blocked versus road closed



# Example of an entity mapping: the « source » model explicitly provided by the specification

Source: Datex II deprecated Parking Model (2019)

Target: Transmodel/NeTEx class Class ParkingComponent / class Parking properties ParkingComponent NT Parking MODEL::PARKING +O2Am/buter accessibility: Accessibility (num (0..\*) distanceFromPrimaryRoad: MetresAcNonNegativeInteger [0..1] Booking Url: any Url maximumParkingDuration: Seconds (0...1) parkingFloorOrCevelt Integer (0...1) CardsAccepted: normalizedString perkingMode: ParkingModeEnum (0...1) CurrenciesAccepted: Currency [0..\*] parkingOccupancyOetectionType: OccupancyOetectionTypeEnum (0.\*) parkingReservation: ReservationTypeEnum [0..1] DefaultCurrency: CurrencyType [0..1] parkingSecurity: ParkingSecurityEnum (2.\*) perkingSpaceAccessibility: ParkingSpaceAccessibilityEnum (0.\*) ElectricRechargingAvailable: boolean [0..1] parkingSpaceOrGroupidentifier: MultilingualString [0..1] NT Parking MODEL::PARKING PROPERTIES parkingSpacePhysics: ParkingSpacePhysicsEnum (0...2) FreeParkingOutOfHours: boolean [0..1] NumberOfParkingLevels: integer MaximumStay: duration [0..1] OvernightParkingPermitted: boolean [0..1] ParkingStayType: ParkingStayEnum [0..1] +characterising +characterised by ParkingLayout: ParkingLayoutEnum [0..1] ParkingUserType: ParkingUserEnum [0..1] ParkingPaymentProcess: PaymentProcessEnum [0..1] ParkingVehicleType: ParkingVehicleEnum [0..\* ParkingReservations: ParkingReservationEnum [0..1] SecureParking: boolean [0..1] ParkingType: ParkingTypeEnum [0..\*] PaymentByPhone: PaymentByPhone [0..1] +02Relations only Assigned Parking Id: ParkingPropertiesIdType PrincipalCapacity: NumberOfSpaces [0..1] \*assignedFarkingAmongOthers ProhibitedForAnyHazardousMaterialLoads: boolean [0..1] 0.1 0.1 RealTimeOccupancyAvailable: boolean [0..1] \*DQClass\* SecureParking: boolean [0..1] Parking/hoperties TotalCapacity: NumberOfSpaces [0..1] applicableForUser: UserTypeEnum [0..\*] «UID» parkingDuration: ParkingDurationEnum (0..\* + Id: Parking1dType #D3Class s +D2Class **ParkingPermi** napcore

# Roadmap for alignment and harmonisation of data exchange standards

#### Topics for alignment and harmonisation – June 2025:

#### **Traffic regulations**

DATEX II and TN-ITS have common grounds on this topic

**Decision to merge both standards** (Declaration of Lisbon, May 2023)

#### Parking data

Includes both traveller information aspects and traffic aspects

Previous initiative to harmonise standards was not successful (HARP project)

Importance of legacy (APDS – Alliance for Parking Data Standards) and high commitment of the industry with the development of a convertor from APDS to NeTEx

Decision to develop a European functional parking profile

#### Cycling data

Includes different subtopics: cycling infrastructure, bicycle parking, cycle counts, dynamic cycling info, etc.

All NAPCORE standardisation groups are concerned

Proposal to go for a more advanced discussion with NAPCORE Cycling Ambassadors





# Roadmap for alignment and harmonisation of data exchange standards

#### Other actions for alignment and harmonization:

- Establishment of a communication and change process between standards
  - To ensure a joint solution is sought and found when an issue of overlapping is identified, and to find the resources to tackle the issue

**CEN/TC 278** 

WG16, Cooperative ITS

WG17, Urban mobility

WG7, Geographic Road

WG8. Road Traffic Data

WG15, eSaftev

X

WG1. Electronic Fee

WG3. Public Transport

WG4, Traffic and Traveller

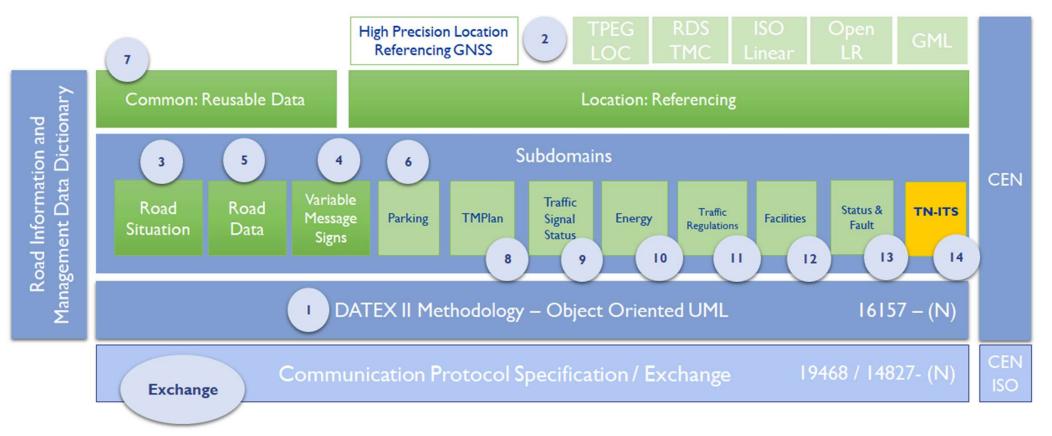
Collection

- To identify potential future overlapping issues
- Better communication with CEN and other standardization bodies
  - To make standards more accessible and more used
  - **CEN / TC278** To deal with any new work item submission that may overla with existing standards





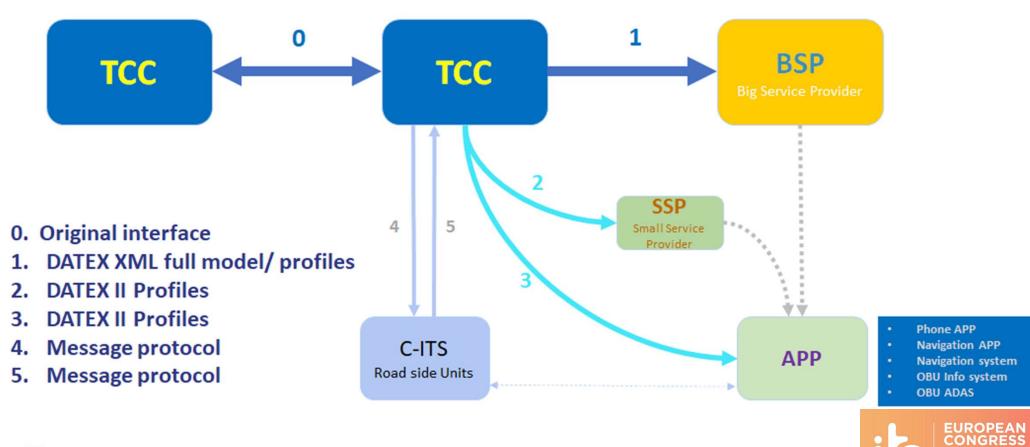
### **Datex II Components**







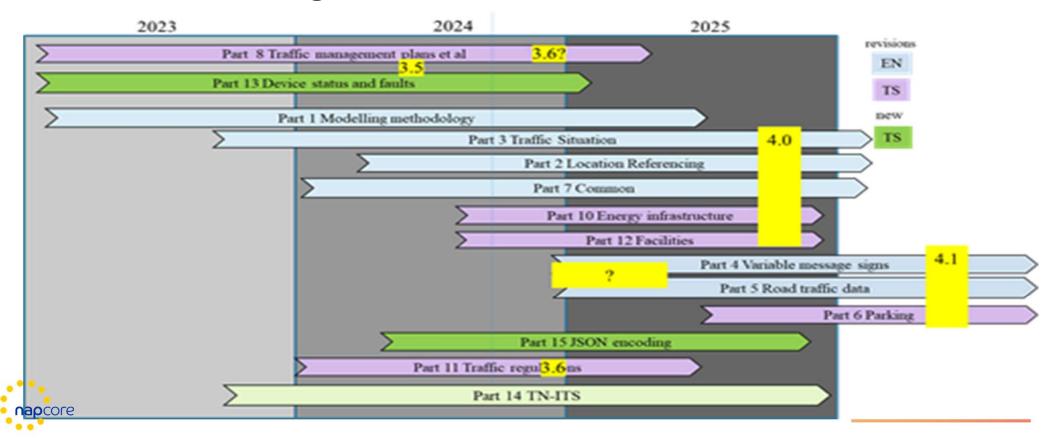
## Landscape of Datex II ecosystems





# On the way

# Free of charge access to the standards Coordination among WGs and their conveinors



# THANK YOU!

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