Data Standards and Profiles for Multimodal Data

Jorge Gonzalez | French Ministry of Transport
Task 4.3 Leader (Multimodal Standards)

Date: 08. 10. 2026

What Multimodal Data?

DATA CATEGORIES

(referred to in Articles 2, 3, 4, 5, 6, 8 and 10)

Partition of transport modes and transport means and included services, such as

Scheduled transport such as:

Air, rail including high speed rail, conventional rail, light rail, cableways, long-distance coach, maritime including ferry, inland waterways, metro, tram, bus, trolley-bus.

Transport on demand such as:

Shuttle bus, shuttle ferry, dial-a-ride services, taxi, car-sharing, car-pooling, car-hire, ride-sharing, bike-sharing, bike-hire, bike-rental, e-scooter sharing.

Personal transport such as:

Car, motorcycle, bicycle, scooter, walking.

- MMTIS DR Annex is extensive

napcore

What Multimodal Data?

1. TYPES OF THE STATIC, HISTORIC AND OBSERVED TRAVEL AND TRAFFIC DATA

1.1. **Level of service 1**

(a) location search (origin/destination):

(i) addresses (building number, street name, postcode);

(ii) topographic places (city, town, village, suburb, administrative unit);

(iii) points of interest (related to transport information) to which people may wish to travel;

(b) trip plans: operational calendar, mapping day types to calendar dates;

- MMTIS DR Annex I includes topographic information, schedules, fares, observed and historic data

napcore

What Multimodal Data?

2. TYPES OF THE DYNAMIC TRAVEL AND TRAFFIC DATA

2.1. **Level of service 1**

Passing times, trip plans and auxiliary information:

(i) disruptions, such as network closures and/or diversions, and when possible, the reason;

(ii) real-time status information, such as estimated departure and arrival times of services, delays, cancellations, guaranteed connections monitoring;

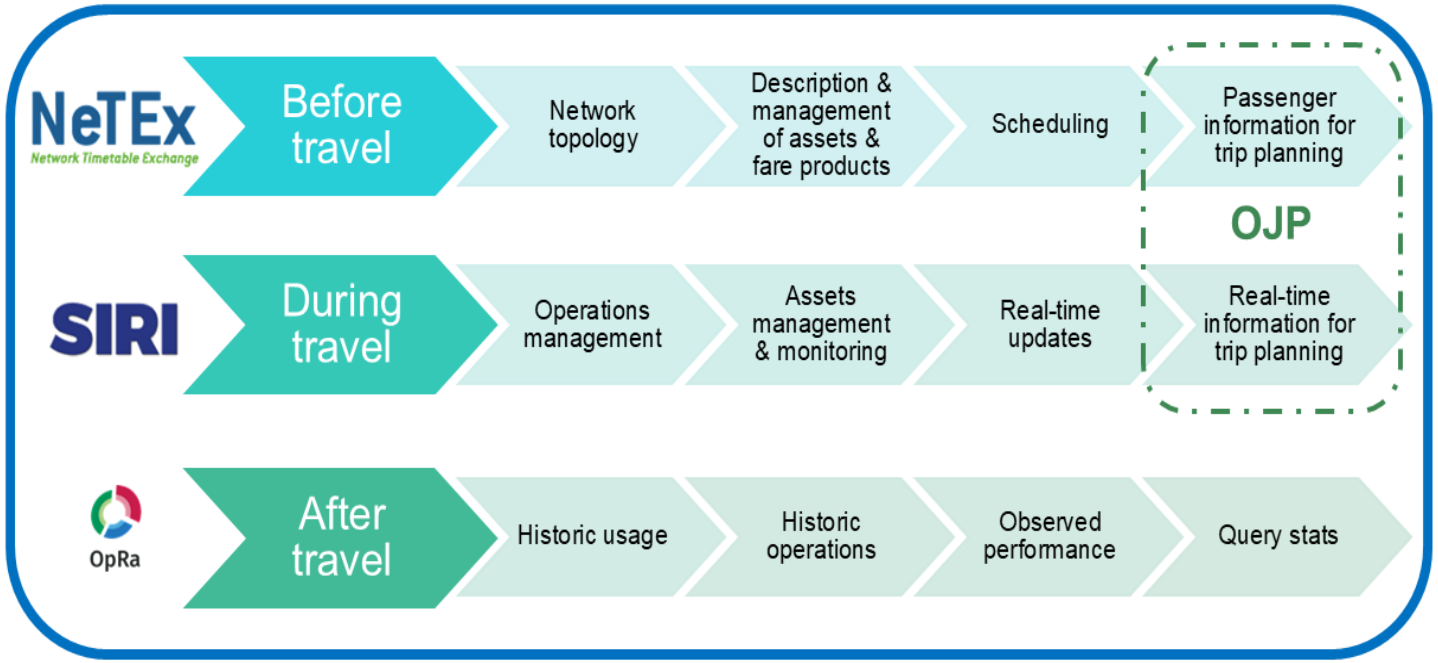
(iii) status of access node features (including dynamic platform information, operational lifts/escalators, closed entrances and exit locations) – for scheduled transport.

- MMTIS DR Annex 2 includes real-time information such as availability, delays, access status, occupancy

napcore

What Standards?

Multimodal Standards or Transmodel-based Standards



- Static data
- Dynamic data
- Historic and observed data

napcore

Objective 1: Support the Transmodel Ecosystem

Pre-identified issues:

- Insufficient number of experts
- Lack of visibility and coordination in funding mechanisms
- Persistent confusion arising from unclear boundaries between domains
- Unbalanced distribution of effort across Europe

Output

- D4.3.1 Sustainable governance and funding recommendations for the Transmodel ecosystem

napcore

Objective 2: Support adoption of standards

Via the NAPCORE Helpdesk & the Transmodel website

- Establish and staff the NAPCORE Helpdesk: a dedicated tool and expert team for all NAPs
- Support maintenance and management of the Transmodel portal (https://transmodel-cen.eu/)
- Organise support, documentation, training

Key Contributions

- Provide guidance and support for users of Transmodel-based standards
- Compile and share key outputs from ongoing standardization work on D4.3.2 and D4.3.3 Report on maintenance & update of Transmodel-based standards

napcore

What Profiles?

- MMTIS DR articles 4 and 5 state the use of *minimum EU profiles* or *national profiles*

2. The static, historic and observed travel and traffic data listed in point 1 of the Annex, for which NeTEx and DATEX II are applicable, shall be represented through minimum EU profiles or national profiles.

2. The dynamic travel and traffic data referred to in points 2.1 and 2.2 of the Annex, for which SIRI and DATEX II are applicable, shall be represented through minimum EU profiles or national profiles.

napcore

Objective 3: Establish Guidelines on Profiles

Both National and EU profiles exist, leading to:

- Cross-border interoperability issues hindering data reuse
- Confusion on data specification requirements hindering data availability

Our Key Contributions on D4.3.4 Report on EU and national profiles for Transmodel-based standards:

- Define a target vision for alignment of Profiles
- Develop a roadmap endorsed by Member States

napcore

What evolution for Standards and Profiles?

- Upgrading all standards from CEN/TS to EN for increased legitimacy
- Creating new European standards to support the Passenger Package: Distribution API and Barcode

	NeTEx (part 1-6) 16614 series	SIRI (part 4-7) 15531 series	Journey planning API 17118 series	NeTEx part 7 (EU fare profile) 16614 series	Distribution API (new)	Barcode (new)
Calls	April 2026	October 2026	October 2026	2027	2027	2027
New TS	-	-	-	**sept 2027**	**sept 2027**	**sept 2027**
From TS to EN	end of 2028	end of 2028	end of 2028	end of 2029	end of 2029	end of 2029

napcore

Objective 4: Support the European Commission's standardisation roadmap

Support ongoing standardisation efforts

- Support the continuous maintenance of Transmodel-based standards
- Contribute to the collection of examples

Key Contributions

- Provide complementary resources for ongoing projects led by CEN
- Provide resources for chronically underfunded CEN standardization activities

No NAPCORE deliverable – contribution through coordination and expertise

napcore

Thanks

- Jorge Gonzalez – jorge.gonzalez@developpement-durable.gouv.fr
- Emmanuel de Verdalle – emmanuel.de-verdalle@itxpt.org
- Brewenn Métayer – brewenn.metayer@transport.data.gouv.fr

napcore