



**EUROPEAN  
CONGRESS**  
**SEVILLE**  
**19-21 May 2025**  
Clean, resilient and  
connected mobility.

# Exploring use-cases for cycling data in NAPCORE

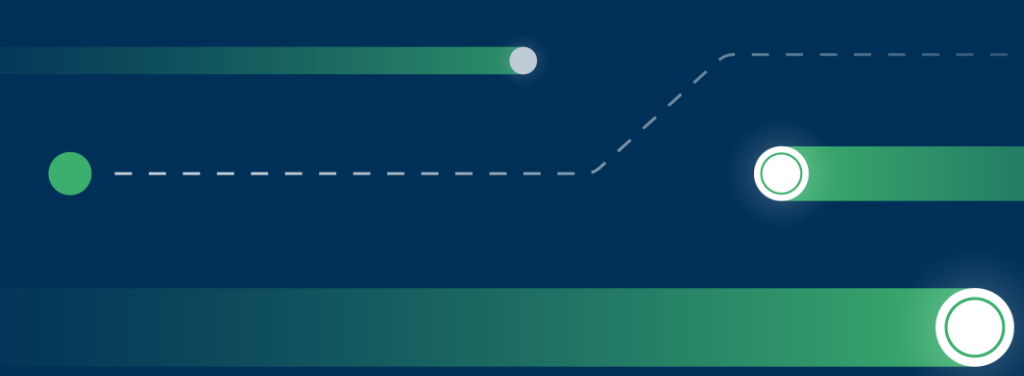
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Ambassadors for the cycling data

TP2 Adaptive mobility technology 1 (19/05/2025)



Nationaal  
Toegangspunt  
Mobiliteitsdata



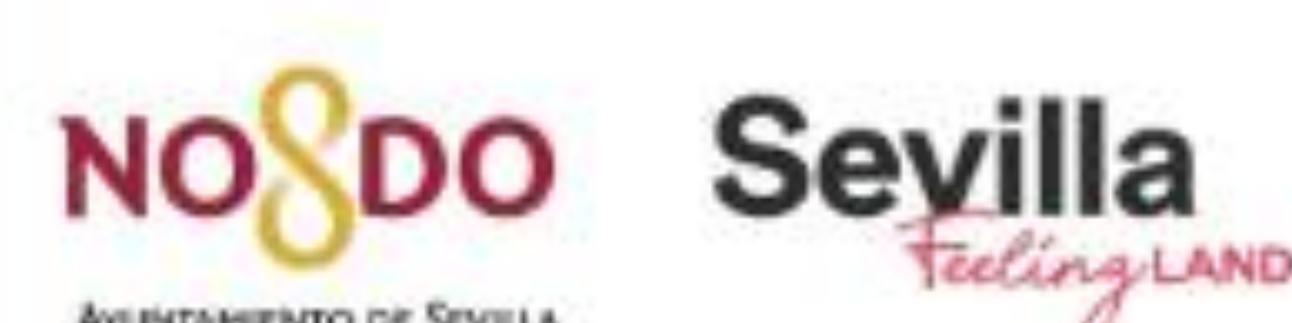
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# European considerations and context

EUROPEAN environmental and mobility **objectives**:

- Reduce the transportation impact on the environment and promote multimodal mobility
- Provide open and accessible mobility data, including active modes as cycling

=> *EU Declaration on cycling (April 2024)*



NAPCORE Cycling Ambassadors and taskforce **missions**:

- Exchange internal/external information about cycling data
- Contact point for stakeholders and more visibility to cycling

=> *Cycling community and commons workshops*





# Actions carried out in 2024

- Strengthen the partnership with POLIS network
  - Objective: collect use-cases from cities & regions
- Organise open workshops with the cycling community
  - Objective: discuss data types and standards
- Identify priorities to build recommendations concerning:



<b>Static/planned and dynamic data</b> <ul style="list-style-type: none"> <li>•Infrastructure</li> <li>•Parking</li> <li>•Counting</li> <li>•Real-time</li> </ul>	<b>Safety</b> Assessing the safety of cycling infrastructure and identifying high-risk areas	<b>Planning</b> Understanding the destinations and purposes of trips (commuting, leisure)	<b>Infrastructure performance</b> Measuring and evaluating the infrastructure
	<b>Multimodal Mobility</b> Exploring how cycling integrates with other modes of transport, such as public transport	<b>Traffic Management</b> Analysing cycling patterns to determine and manage peak hours	<b>Modal share</b> Measuring the modal share of cycling
	<b>Parking</b> Improve parking provision and ensure the safety and security of parking facilities	<b>Communication</b> Improve services and communication on specific situations (road works, planned changes)	<b>Investments (infrastructure)</b> Assessing current infrastructure, users' behaviours and other parameters for future investments



# Infrastructure: priority use cases



The main use cases for the cycling infrastructure concern:

- Safety, routing, accessibility, performance, investments...

The priority is to have **precise, up-to-date and available** digital data:

- Characteristics of cycling infrastructure (at minimum type, surface, width)
- Harmonized typologies of cycling infrastructures (UNECE report)

## Recommendations for cycling infrastructure data

- Common standards or conversion tools between data and existing standard (OSM):
  - Additional **quality check** in the areas where official data are available
  - Providing **geolocated data** obligatory for new EU cofinanced projects



# Parking: priority use cases

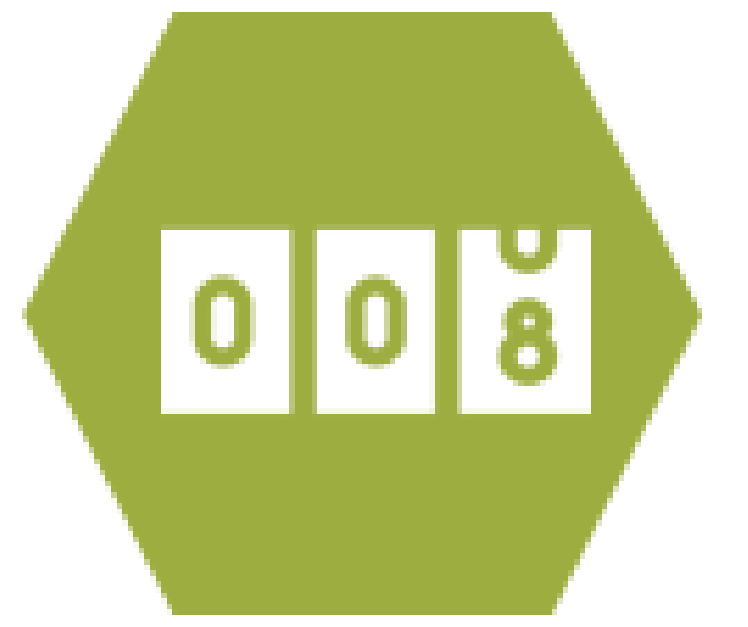


The main use cases are related to the **mode shift** for cycling:

- **Location and description** of the parking (availability, types of bicycles)
- **Safety details** for both vehicles and cyclists (parking guarded)
- **Additional services** (pricing, supplying, cleaning, etc.)

## Recommendations for cycling parking data

- Considering existing standards, parking data is easiest to move forward:
  - **Extend NeTEx and APDS**, relying on their usual standardisation processes
  - **Share data with NAPs** and collect data consumers to get feedback



# Counting: priority use cases

The main uses cases related to cycle counting concern:

- **Modal split/share:** types of cycles, differences in cyclists
- **Planning:** safety, routing information, optimizing routes
- **Monitoring and evaluation:** traffic management, strategies

## Recommendations for cycling counting data

- **Uniformity in counting data and cycling definitions:**
  - basis for a standard to be developed (including geodata, modes, direction, flow)
- **Use cases** can be answered with the information collected by counting:
  - knowledge on multimodal mobility, transport infrastructure evaluation





# Real-time: priority use cases

Real-time cover dynamic data on **information and services for cyclists:**

- Real-time **route/path safety** (road works/incidents)
- Seasonal **maintenance** (de-icing, sweeping, water hazards)
- Parking **availability** (information and services for cyclists)

## Recommendations for cycling real-time data

- Provision of static/dynamic cycling data in the NAPs,  
to better incorporate cycling data to traffic data
- The specific real-time topic should be further addressed,  
in complement to the data mentioned above

# General recommendations to European Commission

We have identified some **low hanging fruits** in a short-to-middle term:

1. **Parking data** for cycling based on the extension of existing standards
2. **Cross Member States body** to develop generic or compatibility standard for **counting** cycling
3. **Make providing geolocated data** in the common standard about the **infrastructure** built
4. Whenever there is work on static data for cycling, **to always add the real-time** component to it.



*Call for proposal (2025): Standardisation activities CEN, CENELEC and ETSI*



# CONCLUSIONS AND PERSPECTIVE



- **Collaborations** that could encourage stakeholders to share their data:
  - Support for demonstrators and initiatives of interoperable platforms
  - Coordination between cycling projects to led actions more effective
- Technical work on **common standards or conversion tools** for:
  - cycling **infrastructure** data
  - cycle **counting** data
  - cycling **parking**
  - **real-time** information for cyclists
- **Cycling data standardization roadmap for Europe:**
  - inspiration MMTIS, RTTI, SRTI DR
  - traffic management including cycling



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# THANK YOU!



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