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The importance of cycling data within mobility data

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Policy note 2019-2024



- ▶ Increase to € 300 million by the end of the legislature for cycling infrastructure
- ▶ Invest in dynamic and smart traffic lights
- ▶ Invest in active detection systems for cyclists
- ▶ Increase the share of sustainable modes to at least 40% for Flanders
- ▶ Provide a strong impetus to shared mobility through:
 - The availability of bicycle sharing systems
 - high-quality bicycle parkings
 - mobihubs
- ▶ Identify and eliminate dangerous locations
- ▶ Cooperate with GPS operators in order to avoid locations with many vulnerable road users in the route suggestions.

Different initiatives focussing on (cycling) data

- ▶ ITS action plan
- ▶ Regulatory framework open data
- ▶ Mobility central
- ▶ Mobihubs
- ▶ **NAP MMTIS (and other European obligations)**
- ▶ **Geoaccess point bicycle 3.0**
- ▶ **Mobilidata programme**
- ▶ ...



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NAP MMITIS Regulatory framework

Directive 2010/40/EU: Framework for the Deployment of Intelligent Transport Systems

► Context

- Fast technological development
- Fragmented and uncoordinated deployment
- Low degree of intermodality
- Patchwork of national, regional and local solutions

► ⇒ **ITS directive and action plan**

- Establishing a framework for coordinated and effective deployment and use of ITS
- Setting common priorities
- Development of specifications and standards

4 priority areas

**Optimal Use of Road,
Traffic and Travel Data**

**Continuity of
Traffic and
Freight Management**

**Road Safety
and Security**

**Linking Vehicle and
Transport Infrastructure**

6 priority actions

A: EU-wide Multi-Modal Travel Information



- Availability and accessibility of traffic data
- Crossborder electronic data exchange
- Updating the available road and traffic data
- Updating the multimodal travel information



6 priority actions

- ▶ **B: Realtime** traffic information services
- ▶ **C: Safety** -related minimum universal traffic information
- ▶ **D: Interoperable EU-wide eCall**
- ▶ **E: Truck parking information**
- ▶ **F: Reservation Services for Truck Parking**

National Access Points

- ▶ Digital architecture with open and common standards and interfaces and an efficient, but secure data ecosystem
- ▶ Need for National Access Points
 - Multimodal Travel Information Services
 - Safety -related Minimum Universal Traffic Information Services
 - Real -time Traffic Information Services
 - Truck Parking



Delegated Regulation (EU) 2017/1926

▶ What?

→ EU regulation supplementing the ITS Directive

▶ Why?

→ For the provision of EU-wide multimodal travel information services (MMTIS)

▶ How?

→ NAP for all data related to the transport of persons

× Facilitate data **access**

× Improve **interoperability** through the use of **standards**

× Stimulate the **use and reuse** of data

× Obligation for all data owners to **provide** transport related data, at least static, but we also recommend dynamic data

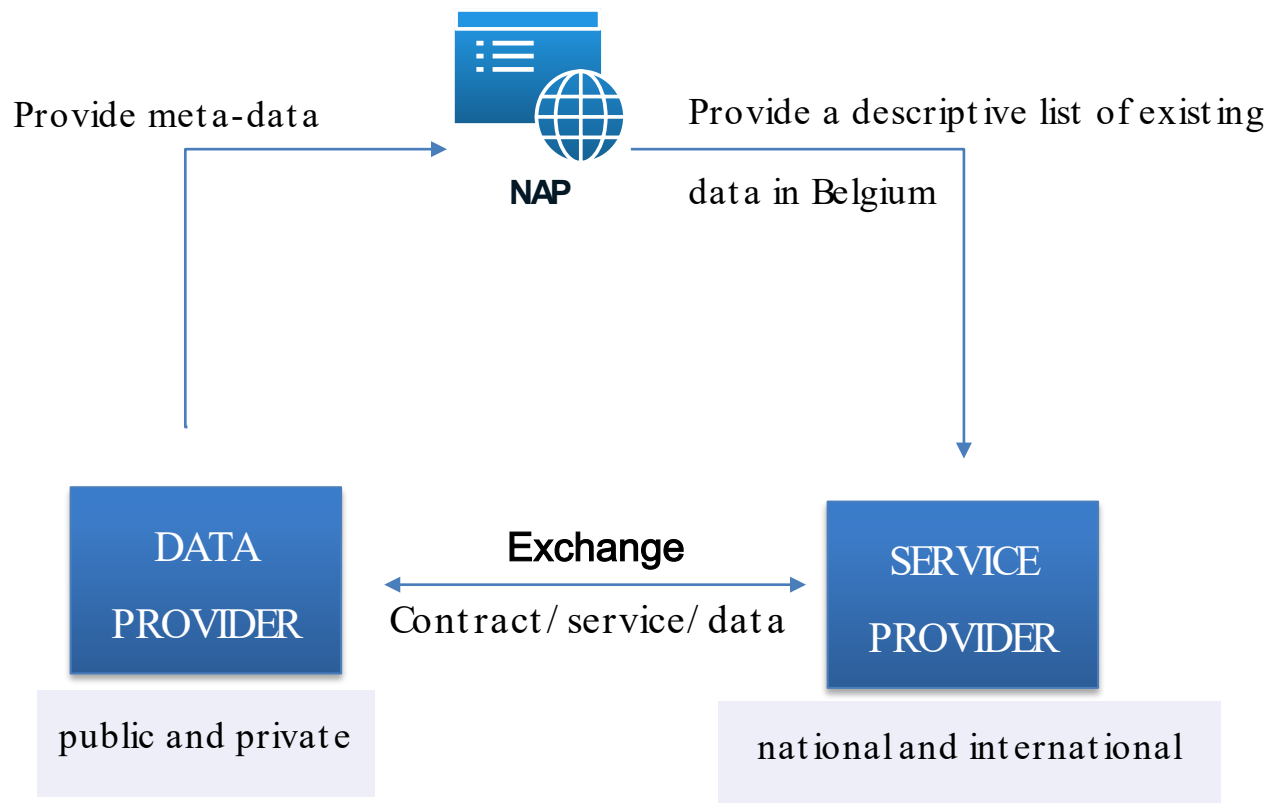
National Access Point MMTIS

- ▶ Static (& dynamic) data of different transport modes
- ▶ Data -updates
- ▶ Metadata
- ▶ Information on the quality of the data

- ▶ The access point may take various forms, such as
 - a database,
 - data warehouse,
 - data marketplace,
 - **repository**,
 - **register**,
 - **web portal**.



National access point MMTIS



Which “modes of transport” and which data are concerned?

▶ **Scheduled**

→ Air, rail including high speed rail, conventional rail, light rail, long-distance coach, maritime including ferry, metro, tram, bus, trolley-bus

▶ **Demandresponsive**

→ Shuttle bus, shuttle ferry, taxi, carsharing, carpooling, car-hire, bike-sharing, bikehire

▶ **Personal**

→ Car, motorcycle, bicycle

Who are the data providers?

▶ **Transport authority**

→ any public authority responsible for the traffic management or the planning, control or management of a given transport network or modes of transport, or both, falling within its territorial competence;

▶ **Transport operator**

→ any public or private entity that is responsible for the maintenance and management of the transport service;

▶ **Transport on demand service provider**

→ any public or private provider of transport on demand service to users and endusers, including travel and traffic information thereof;

▶ **Infrastructure manager**

→ any public or private body or undertaking that is responsible in particular for establishing and maintaining transport infrastructure, or part thereof;



Who are the “users”?

▶ Any public or private entity which uses the NAP such as:

- Transport authorities,
- Transport operators,
- Transport on demand service providers,
- Infrastructure managers
- Travel information service providers,
- Digital map producers,

Detailed timetable

- ▶ ~~01.12.2019~~ service level 1
 - Location (point of departure & point of arrival), travel plans, calculation of route schedule for organized transport & for personal transport, networks, time tables, facilities, accessibility, ...
- ▶ ~~01.12.2020~~→ service level 2
 - P&R locations, bike & car sharing stations, refueling stations, information on how & where tickets are sold ...

Detailed timetable

- ▶ 01.12.2024 service level 3
 - Detailed information on fares, how to book, how to pay, calculation of route, environmental factor, special features bicycle network..
- ▶ 01.12.2023
 - all elements all over the country

What will be the obligations of stakeholders?

- ▶ Data providers will have to
 - Register on the NAP:
<https://www.transportdata.be/>
 - Fill in the data catalogue with mandatory informations

Data users will have to:

- ▶ Use the data in a neutral manner and without discrimination or bias
- ▶ Indicate the source of data and the date and time of last update
- ▶ Provide the possibility of reuse of the data
- ▶ Respect the license agreement

The implementation of the NAP is supported by Program Support Actions



Stakeholder engagement

- Mapping of Belgian NAP actors (suppliers, users and developers)
- Setting up a community of interest, a platform for concrete Public-Private Projects



Benchmarking

- The user needs
- The architecture of NAP
- The management of the NAP





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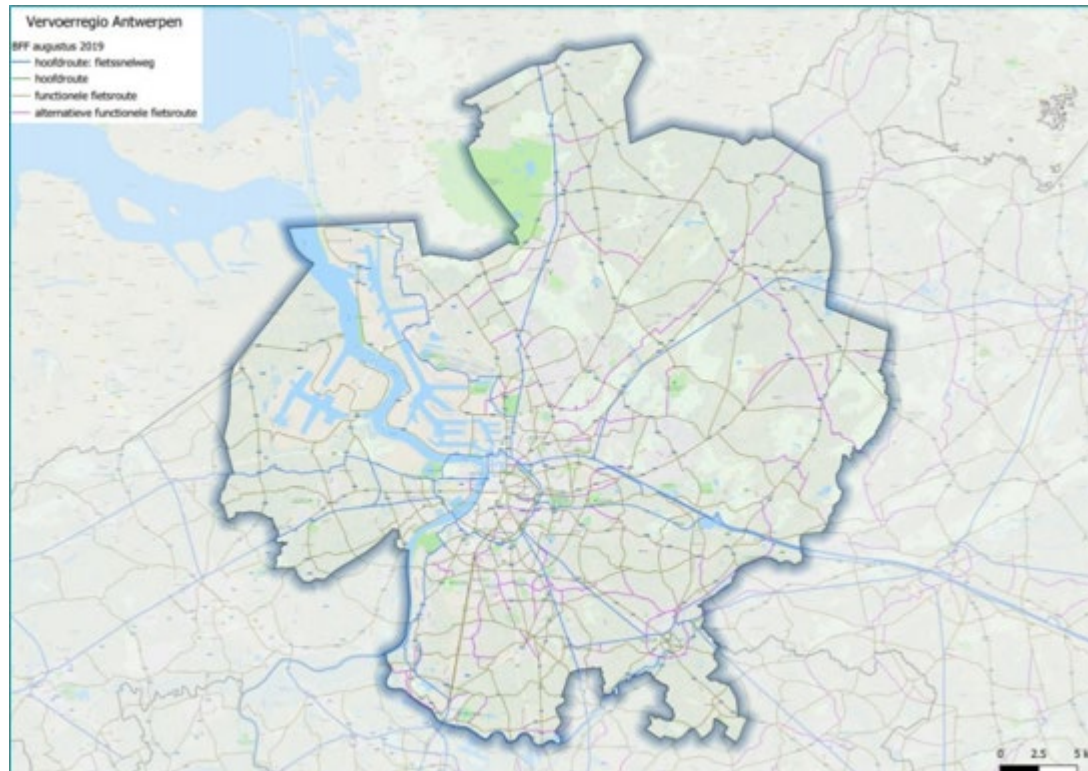
Geo access point bicycle 3.0



Objectives

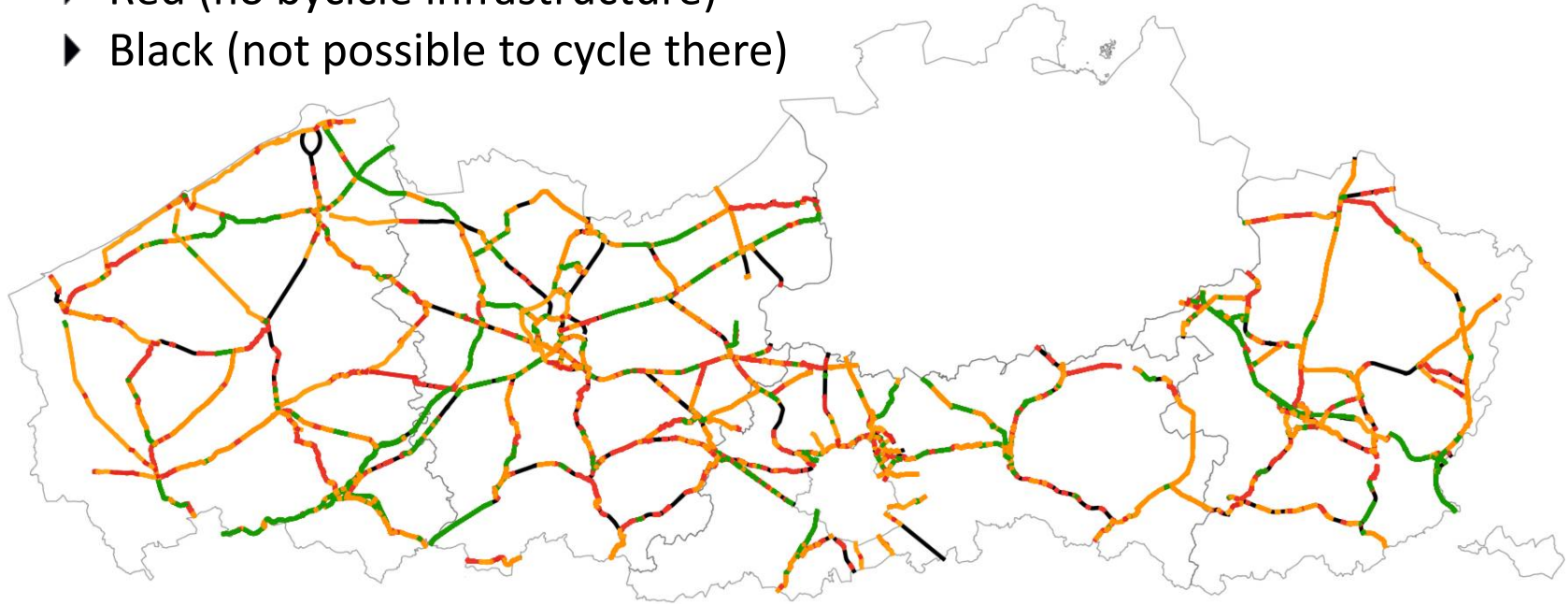
1. **Location** of the supra-local functional bicycle network and collect and report data on the **cyclepath and network**
 2. Inventory of **conformity parameters** for bicycle infrastructure & Calculate **conformity score**
 3. Collect and publish information about **infrastructural projects**
 4. Collecting and publishing **cycling data**
 5. Publish **bicycle accident data**
- ▶ The result will consist of 5 different GIS layers in one GIS viewer that can be consolidated by end users in their own GIS desktop environment.

BFF – transport region of Antwerp



Conformity score

- ▶ Green (conform requirements of 'cycle highways' in the vademecum bicycle facilities)
- ▶ Orange (to be improved)
- ▶ Red (no bicycle infrastructure)
- ▶ Black (not possible to cycle there)





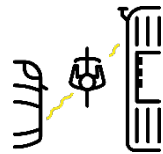
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Mobilidat a

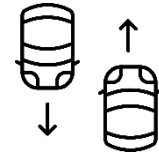
for safer, smarter and more sustainable
traffic

Mobilidat a

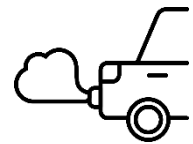
Realise a positive contribution in Flanders in relation to



Road Safety



Traffic flow

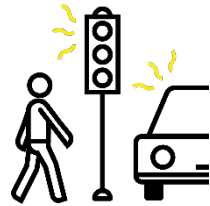


Emissions

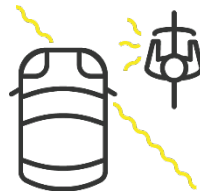
By implementing a sustainable digital data-
infrastructure and the stimulation of the use
thereof within innovative applications

Innovative solutions in 4 domains

Roll-out of C-ITS applications with intelligent traffic light control systems



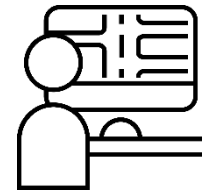
Roll-out other CITS applications



R&D nextgen smart mobility applications



Public policy supporting applications

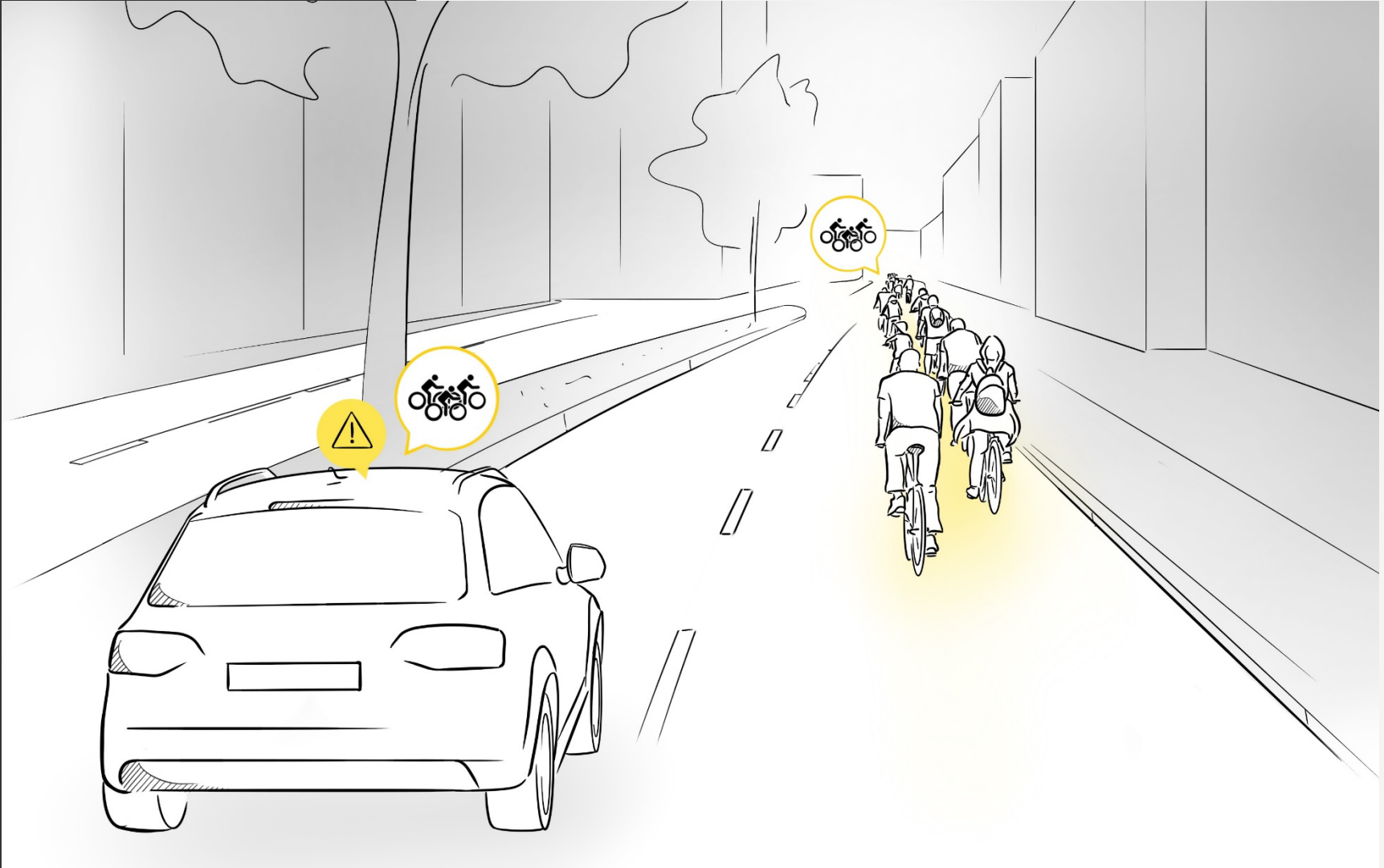


Join forces for

- ✓ Innovate technologies
- ✓ A smart (add-on) device for cyclists
- ✓ Wild ideas to facilitate cycling
- ✓ A platform to share data
- ✓ Looking for pilot testing/studies
- ✓ Gain more insights about VRU







Questions?



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