WEBINAR P+R

13 December 2023

10-11h30

PRACTICALITIES

Please keep your **microphone and video off** at all time

The **moderator** will guide you through the meeting. The meeting will be **recorded** *(please signal if you disagree)*
*Everybody speaks his/her **language***

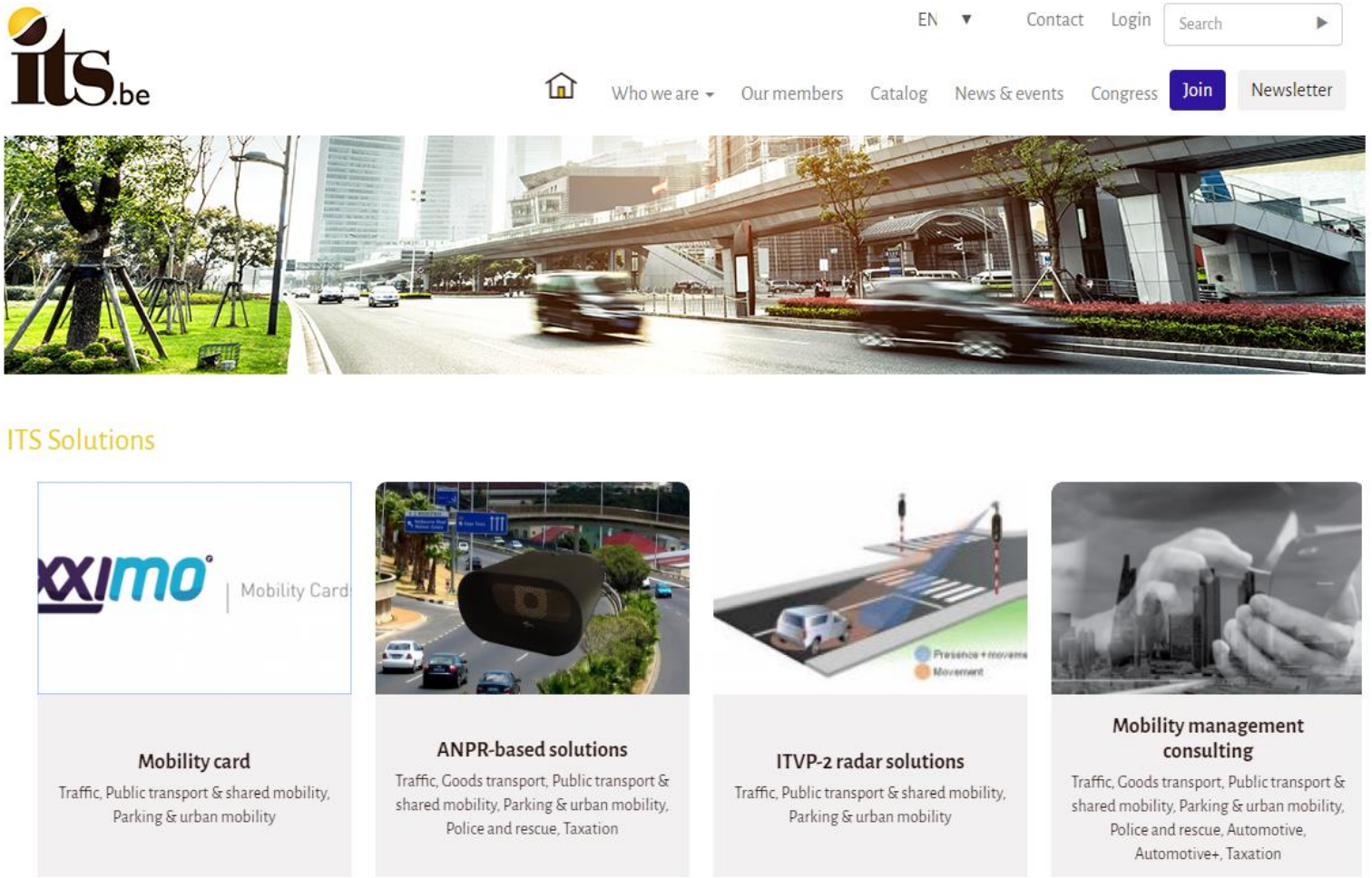
Don't hesitate to **comment** or ask **questions**, or to use the **chat box**.

Please change your **nickname** in *"first name last name (organization)"*

All **slides** will be send to you afterwards

ITS.BE

"SUSTAINABLE MOBILITY ENABLED BY INNOVATION - IMPARTIAL, PUBLIC-PRIVATE, MULTIMODAL"



AGES
AGORIA
ANYWAYS
edit, test & publish alternative transport schemes
ARCADIS
ARVAL
BNP PARIBAS GROUP
BAAV
Belgian Mobile ID
itsme
BEMOBILE
BMC MOBIB n.v./s.a.
BOSCH
Invented for life
BRUXELLES MOBILITÉ
BRUSSEL MOBILITEIT
SERVICE PUBLIC RÉGIONAL DE BRUXELLES
GEWESTELIJKE OVERHEIDSDIENST BRUSSEL
cegeka
cyclomedia
D'Ieteren
De Lijn
Deloitte.
AGENTSCHAP DIGITAAL VLAANDEREN
dott
espaces mobilités
europ assistance
Europcar Mobility Group
FAIRTIQ
fbaa
flibco
TELEDYNE FLIR
FLIXBUS
SERVICE PUBLIC FÉDÉRAL
MOBILITÉ ET TRANSPORTS
FEDERALE OVERHEIDSDIENST
MOBILITEIT EN VERVOER
GEOSPARC
H.
HASSELT HEEFT HET.
icoms
Better detection . Better mobility
An ifd Team Member
imec
kapsch
challenging limits
KATHOLIEKE UNIVERSITEIT LEUVEN
LAB BOX
lantis
Liège
Une ville, un esprit.
LIEGE AIRPORT
leuven
LOGISTICS IN WALLONIA
L'OCALYSE.
PUT YOUR LOCATION DATA TO WORK
Macq
traffic & automation
monotch
SMART MOBILITY PLATFORMS
Vlaanderen
is mobiliteit & openbare werken
modalizy
smart mobility
MOVIAS
smart mobility
VILLE DE NAMUR
OLYMPUS MOBILITY
OPTIMILE
orange
paradigm .brussels
proximus
PTV GROUP
the mind of movement
Pulsar consulting
pwc
Q2C Genetec
Q8
QPARK
RAUWERS
renta
Satellic
SIGMAX
skipr
Wallonie infrastructures
SOFICO
SPIE
Wallonie
SPW
Service public de Wallonie
gent:
swarco
Tein Technology
The New Drive
Samen België schoner maken
TRANSPORT & MOBILITY LEUVEN
TOURING
TRACTEBEL
ENGIE
TRANZER
TripService
Uber
universiteit hasselt
VAB
VIAS institute
VIX
voi.
WORLDLINE
XXIMO
powered by tendris and sodexo
YUNEX TRAFFIC
its.be

PRIORITY DOMAINS

- **Multimodality**
  - » **MaaS** - Mobility as a Service
  - » **MMM** - Multimodal Mobility Management

- **Automotive**
  - » **ACE** - Autonomous, Connected and Electrical vehicles
  - » **RUC** - Road User Charging extensions

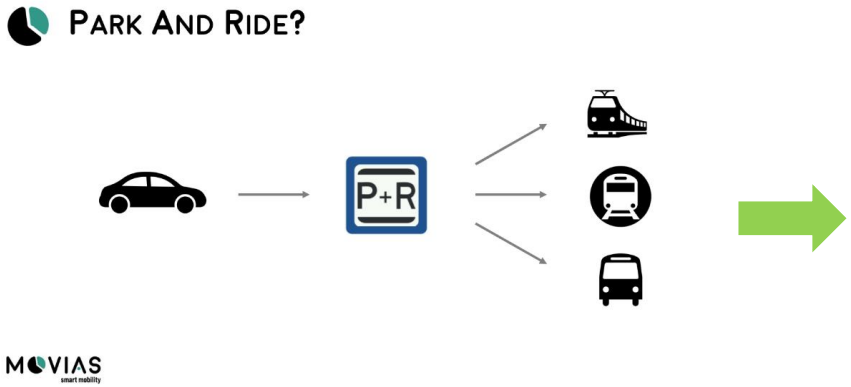
OUR MEMORANDUM

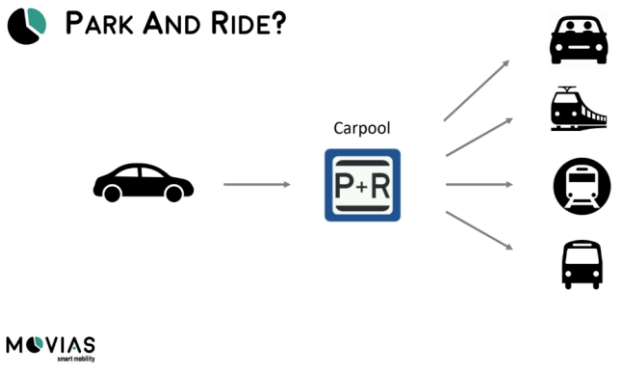
1. Digital access rights to cities
2. Digital road operators
3. Optimal use of public charging infrastructure
4. Commercial licenses for autonomous driving
5. Advances in intelligent road charging
6. P+R
7. Fully-digital ticketing

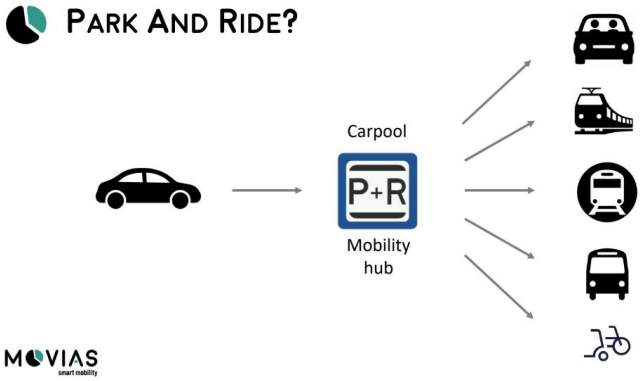
AGENDA

1. Welcome - Peter Van der Perre, director ITS.be
2. Short pitches:
   - P+R's in Antwerp - *Candide De Bruyn team lead sustainable mobility Lantis*
   - *P+R's in Wallonia - Slaven Bosnjak attaché SPW MI*
   - P+R's in Liège - *Bruno Sciannamea mobility consultant city of Liège*
   - P+R's in Brussels - *Emmanuel Dawans project manager Parking.Brussels*
   - P+R data within the NAP - *Laura Kupers attaché NGI/IGN*
3. Open discussion

P+R


PARK AND RIDE?
P+R
MOVIAS


PARK AND RIDE?
Carpool
P+R
MOVIAS


PARK AND RIDE?
Carpool
P+R
Mobility hub
MOVIAS

END USER CENTRAL

Park And Ride Evolutions

- Large public infrastructure investments

=> How to convince the user?

MOVIAS smart mobility

Target users

Types of trips

Competing alternatives

Classification type of trips

	Once	Regular
Ad hoc		
Planned trip		

lantis bouwen aan verbinding

Park + Rides - Lantis

Candide De Bruyn – Teamleader Modal Shift

13/12/2023

Modal shift by Lantis

Local cycle and footpath

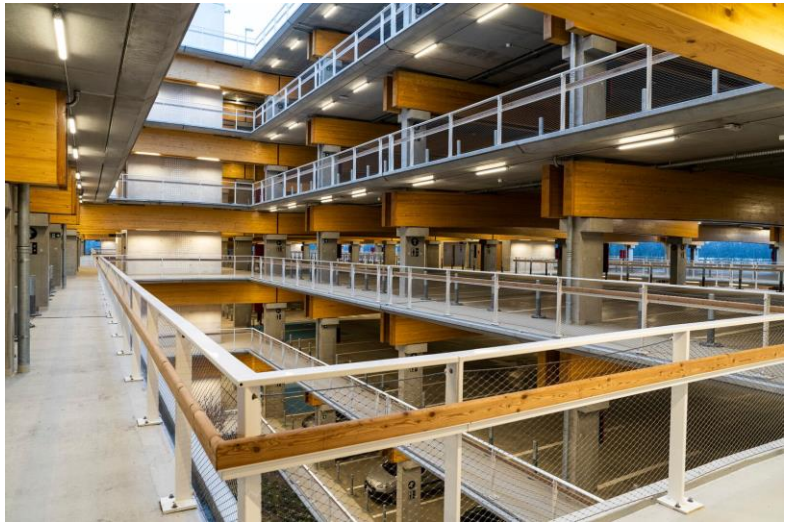
Cycle highways

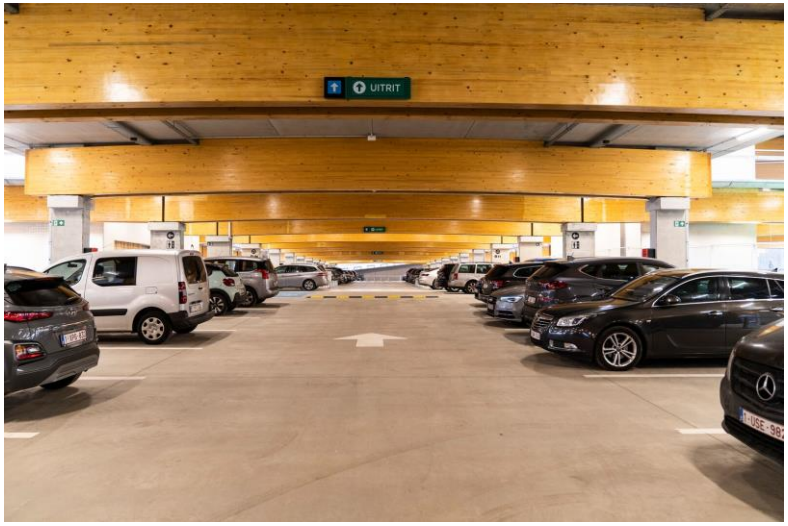
Shared electric bicycle network

P+R's, gateway to the city

Bus lane A12

P+R bicycle parking

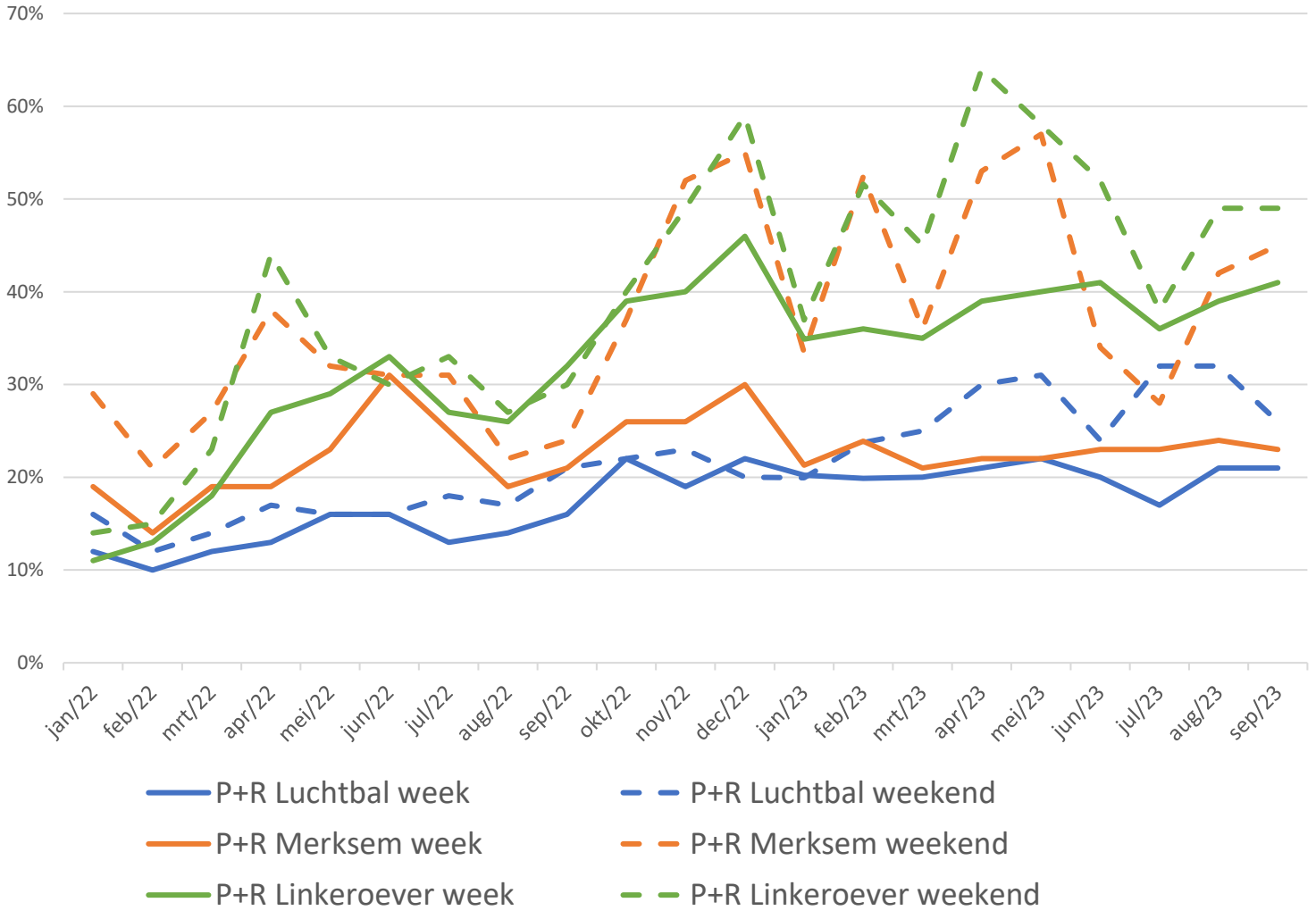



UITRIT

P+R

P+R
P+R

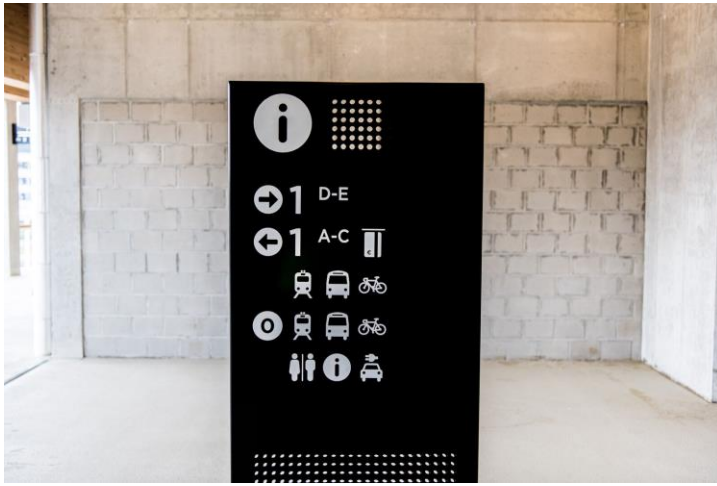
Occupancy rate P+R / month



Lessons learned

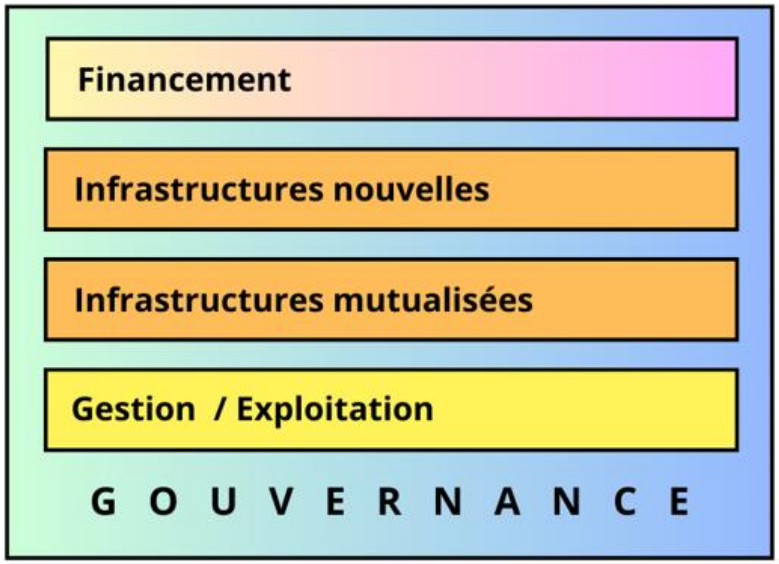
- Ticketless needs explanation
- Payment options
- Combiticket & MaaS
- Wayfinding
- No long-term parking
- Charging infrastructure & policy
- Unwanted visitors
- Reservations

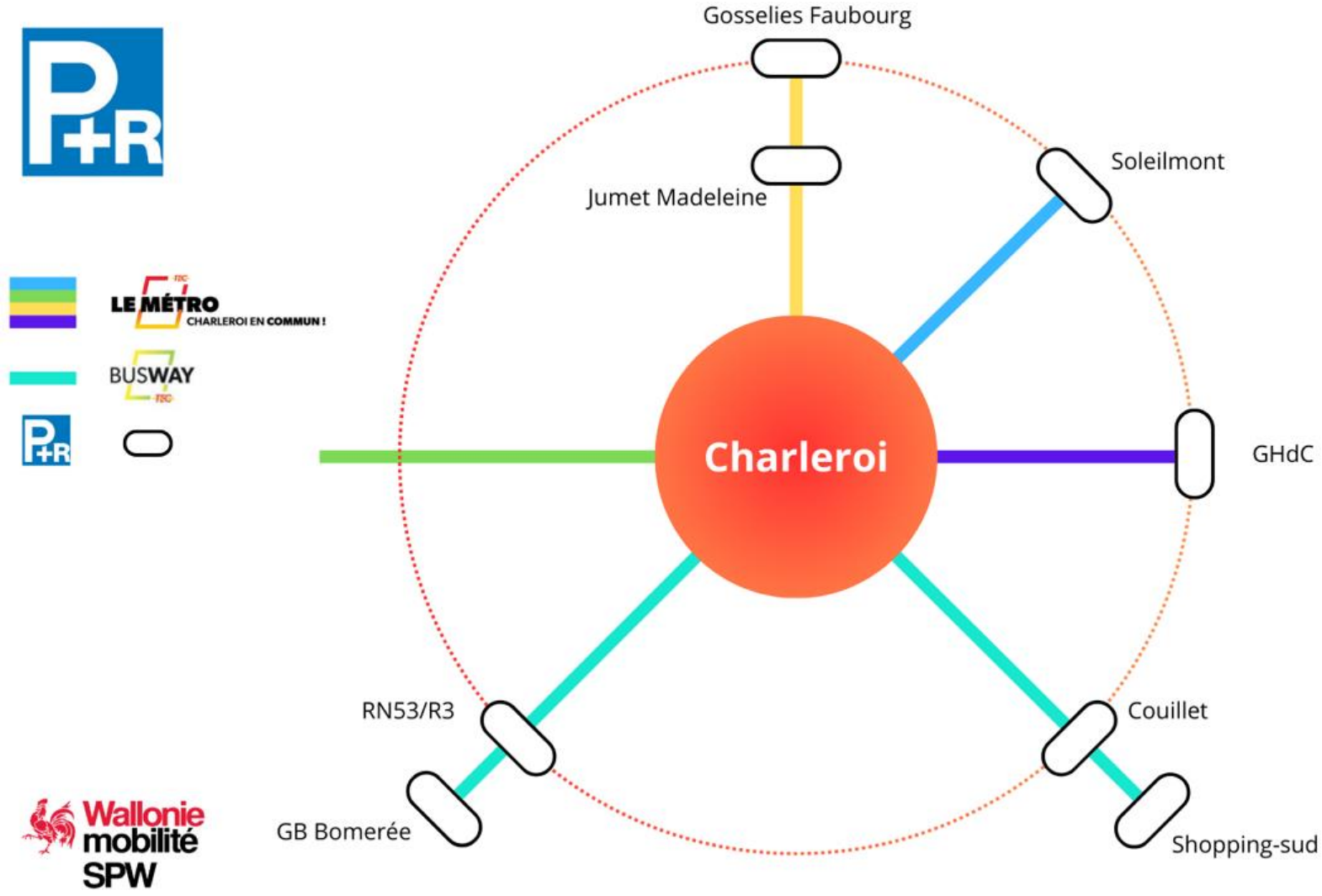
- Behavorial change
- BE PATIENT

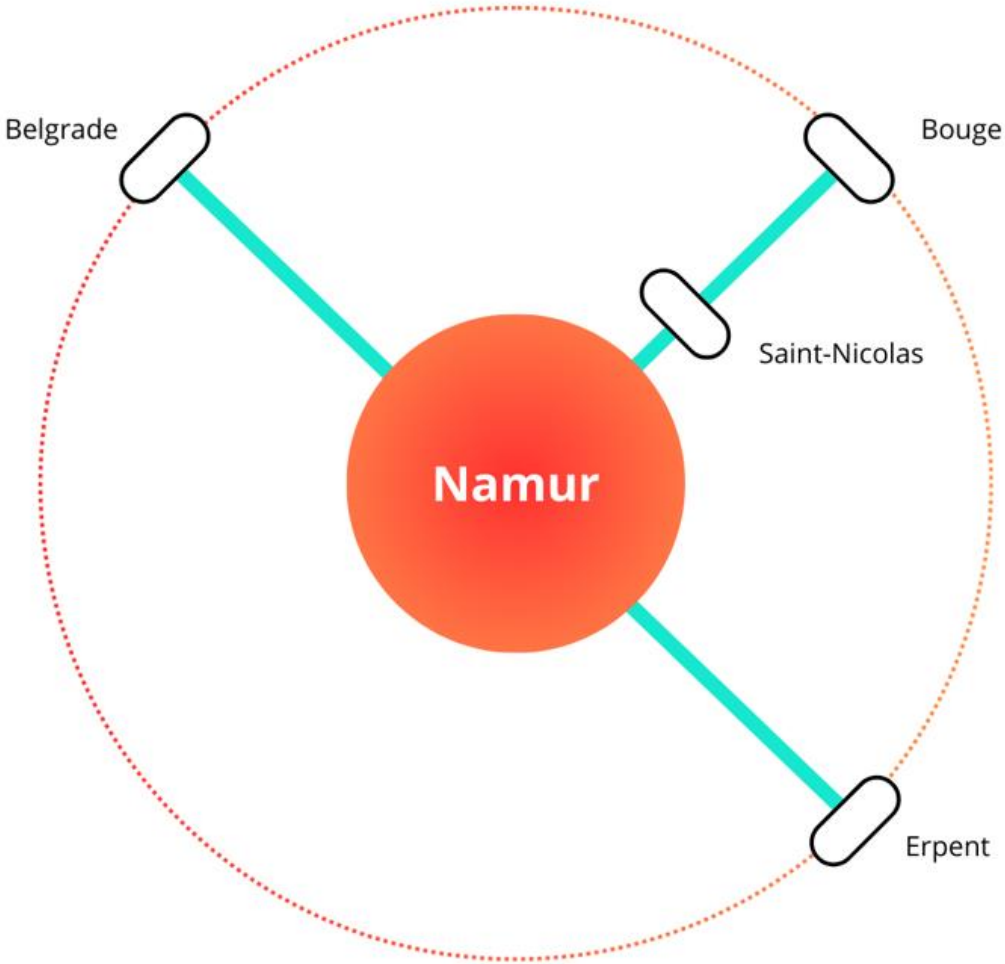


Candide De Bruyn
Teamleader Modal Shift
Lantis
Candide.debruyn@lantis.be
0472/53.19.36

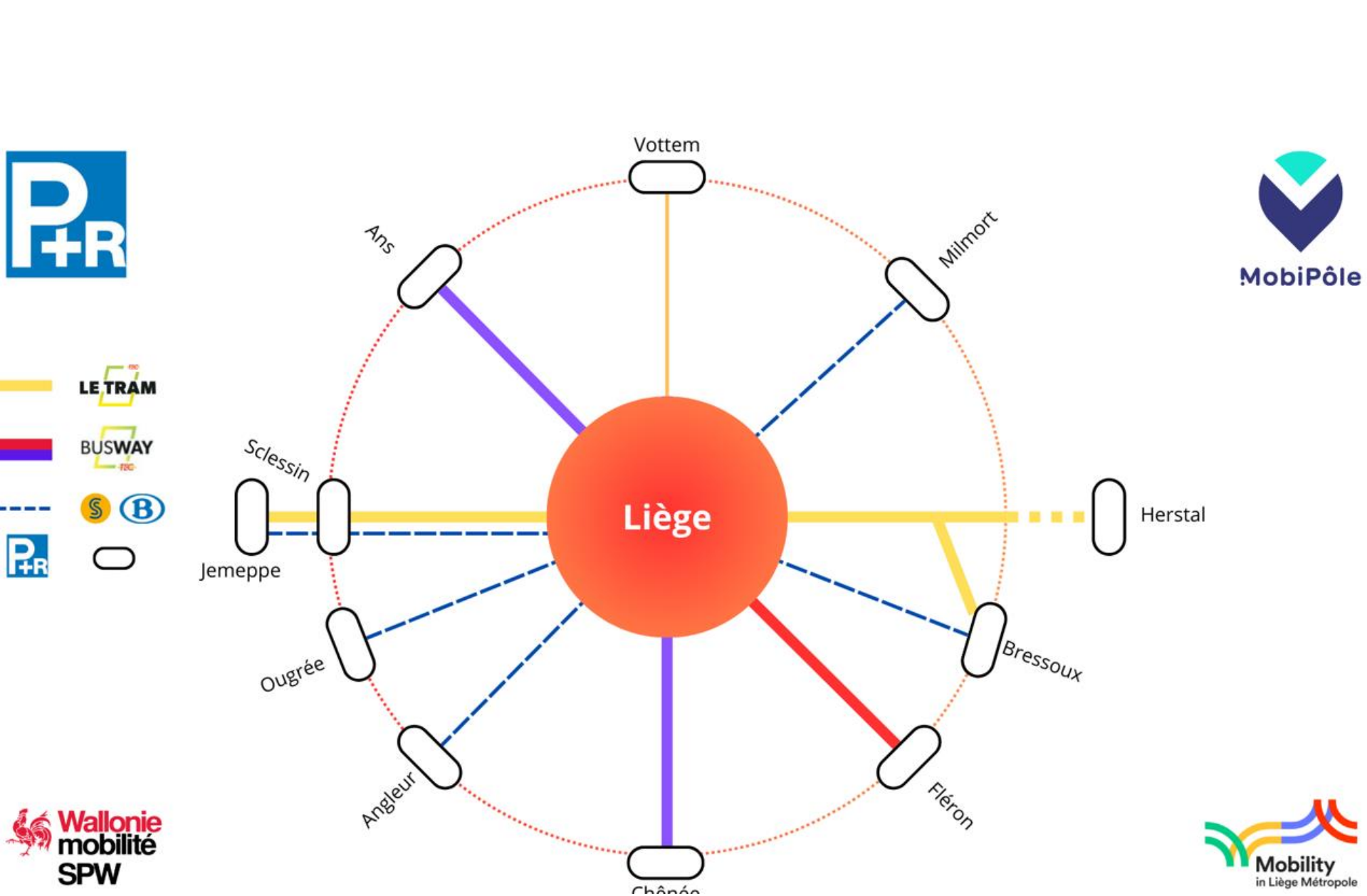
P+R en Wallonie




Gosselies Faubourg
Jumet Madeleine
Soleilmont
Charleroi
GHdC
RN53/R3
GB Bomerée
Couillet
Shopping-sud



BUS


P+R
LE TRAM
BUSWAY
P+R
MobiPôle
Vottem
Ans
Milmort
Sclessin
Liège
Herstal
Jemeppe
Ougrée
Bressoux
Angleur
Fléron
Chênée
Wallonie
mobilité
SPW
Mobility
in Liège Métropole

mobicité

LA MOBILITÉ EN CITÉ ARDENTE POUR TOUTES ET TOUS !

Liège

PUM et PCM
Urban and Municipal Mobility Plan

2019

P+R Localisation

771 pl

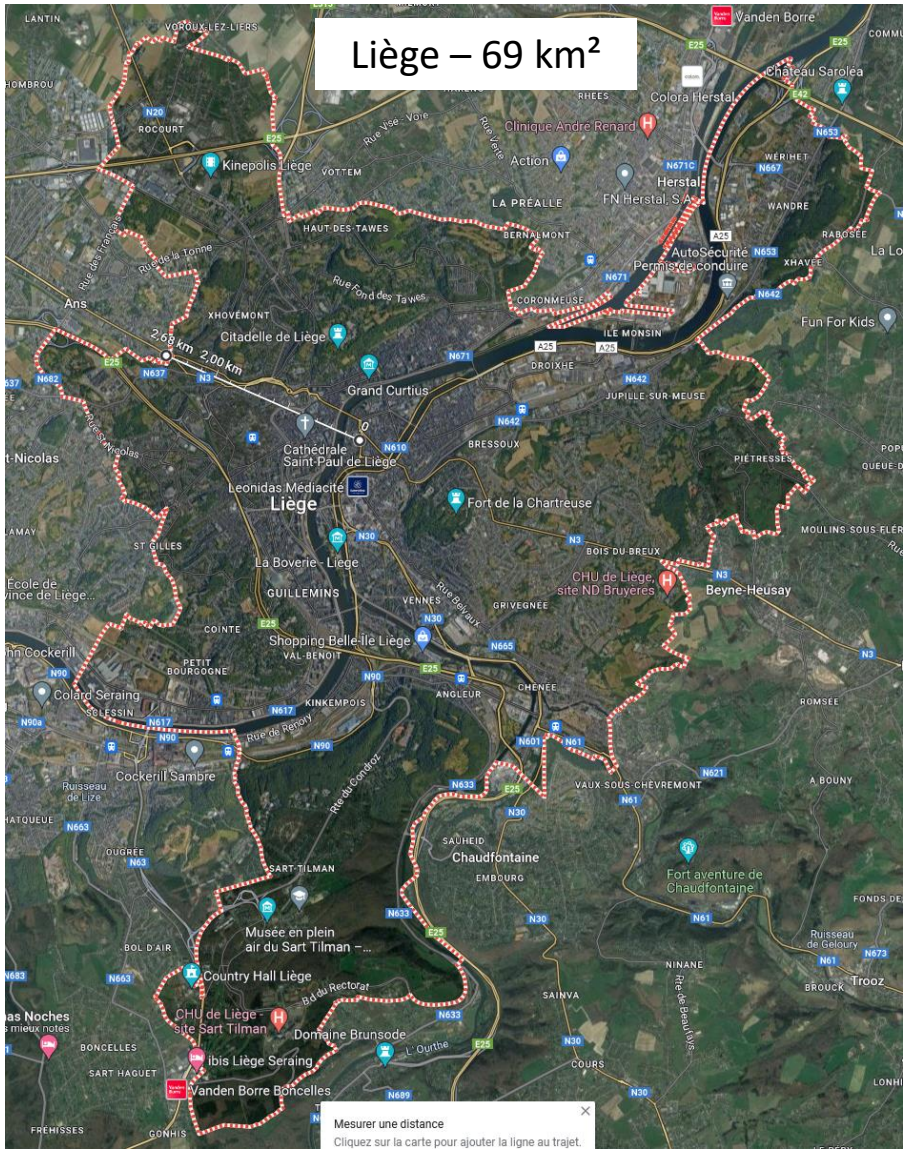
1350 pl

665 pl

In discussion

145 pl et P+R

Size of the city - comparison



Merci

parkandride.brussels

From P+R to Mobility Hubs

2023.12.13

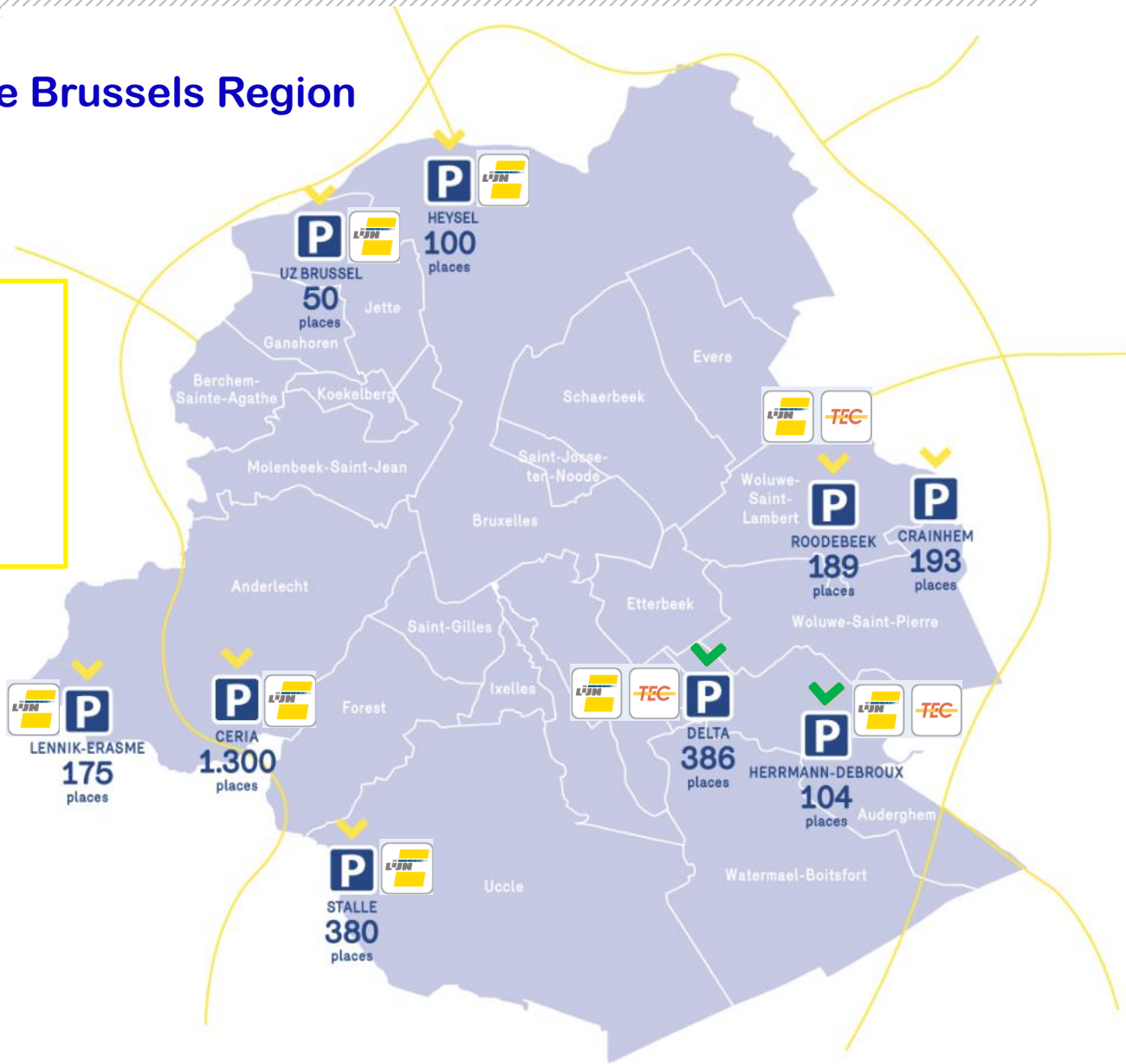
parking.brussels
agence du stationnement | parkeeragentschap

Park & Ride : P+R

9 P+R sites in the Brussels Region

P+R with
- Open access
- Controlled access

P+R for casual users:
CERIA only



Park & Ride current experience in Brussels

P+R and Mobib Subscriber

- Who : Regular commuters
- *Price : Free subscription and free parking for first 24h. Fee over 24h: 1€/h (max 15€/day)*
- Payment : post-paid invoicing (LPR *)
- Conditions (registration) :
  - Residence > 2 km < 40 km
  - Work place at min. 3 km from parking
  - Valid Mobib yearly subscription

* LPR: License Plate Recognition

Casual P+R user with Mobib ticket

- Who : visitors, tourists, locals, occasionnal users
- *Price : no subscription, free parking for first 24h. Fee over 24h:1€/h (max. 15€/day)*
- Payment : scan at parking booth the Mobib card used for PT + balance payment at booth
- Conditions (for activation in **API WPS-Mobib**) :
  - STIB Mobib ticket to scan at parking booth at exit
  - Min. 3 PT stops (3km) from the parking
  - Min 4H30 parking

Other

Who: Rotational parking / locals / events, without Mobib or **PT paid with bank card**

Full parking payment (1€/h, max 15€/24h), or advantageous rate for partner's events

Park & Ride current experience in Brussels (next)

Data sources related to P+R in Brussels

Different data sources to combine:

- Dedicated website: www.parkandride.brussels
- Parking info: static and dynamic database from the Brussels dynamic parking guidance system (telejal) available in Datex through specific URLs
- Personal use of parking: Parking operators management system + LPR + payment systems
- Public transport : Mobib card / Mobib app
- « soft » ou shared mobility and other services in P+R like Bike & Ride (secure bike lockers)

Evolution towards integration in MaaS, possible steps

to integrate all mobility providers in one place

- Static data of P+R in Floya (under study)
- Dynamic data on P+R in Floya : real time info on level of parking availability (under study)
- Itinerary optimisation : show comparative advantage (on time, cost, greenhouse impact) of itineraries with combined transport modes through P+R, in comparison to car-only itinerary => help for objective choice by the car user
- P+R Payment (for casual users) and parking spot booking

Park & Ride current experience in Brussels (next)

Our focus for a better P+R's Interoperability in Belgium

- **Data standardization**: which sort of data in which format and standard?
  - Common or compatible standards for data on P+R / PP: Datex II / APDS
  - Common or standardized list and format of data on P+R / PP: Good practice?
  - Enforce parking operators to provide harmonised & updated static and dynamic data on parking (through regulation, parking concession / management contract)

- **Harmonized protocols for data exchange** to limit development of specific API's
  - from parking operators to regional / national database
  - from regional / national database to mobility platforms / MaaS
    - > Shared information system / platform?
    - > role for Transportdata?
    - > control of data reliability?

- Collaboration between cities / regions:
  - at PT operators level : TEC-De Lijn-STIB-SNCB / RER to serve P+R > mobility hub
  - at Transport authorities level : ex. for installation of Variable Message Signs (PMV) at border of Bxl to guide to P+R or to specific PP. Promote P+R outside Brussels using RER
  - at digital platforms level: Floya, Route planner, BeMobile… (harmonization, integration, good practices, …)

  Note: Need to limit number of mobility platforms?

- Uniform payment methods to enhance user experience : Mobib / MaaS / seamless connection

Thanks

Team:

Vincent Campeol – vcampeol@parking.brussels
Fanny Ribereau –fribereau@parking.brussels
Alain Horvath – ahorvath@parking.brussels
Emmanuel Dawans – edawans@parking.brussels

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Park & Ride Data

on

TRANSPORTDATA.BE

Laura Kupers

European Commission

Intelligent **T**ransport **S**ystems (**ITS**) Directive

Setup of *National Access Points*

Delegated regulations

Mandatory sharing of data & services regarding:

- Multimodal travel information services (MMTIS)
- Real time traffic information services (RTTI)
- Safety related traffic information (SRTI)
- Information services for safe and secure truck parking (SSTP)

European Commission

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TRANSPORTDATA.BE

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European Commission

Intelligent **T**ransport **S**ystems (**ITS**) Directive

Park & Ride data must be registered on the NAP

Delegated regulations

Mandatory sharing of data & services regarding:

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- Real time traffic information services (RTTI)
- Safety related traffic information (SRTI)
- Information services for safe and secure truck parkings (SSTP)

TRANSPORTDATA.BE

Revision MMTIS : C_2023_8105

Parking data is MMTIS data (no longer overlap with RTTI)

(4) To be consistent and avoid overlaps with Commission Delegated Regulation (EU) 2022/670[13], specific data types on parking should be added to the scope of Delegated Regulation (EU) 2017/1926 and data types on refuelling and charging stations should be removed from the scope of Delegated Regulation (EU) 2017/1926. Data on parking, such as location and availability of parking places, where and how to pay for parking, and information on parking tariffs, are considered important for the further development of reliable travel information services, and should be made accessible by data holders, such as transport authorities, transport operators, infrastructure managers, transport on demand service providers or parking operators.

"The dataholder shall provide the static, historic and observed travel and traffic data and the dynamic travel and traffic data"

(11) "data holder" means any legal person, public or private entity, such as transport authorities, transport operators, infrastructure managers or transport on demand service providers, who has the right to grant access to or to share the data under its control, listed in the Annex, in accordance with applicable Union or national law;

Static data

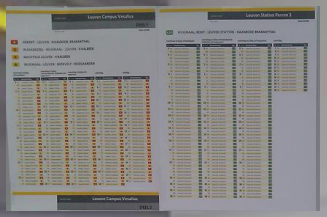
Level of service 1 – must be registered by 01/12/2023 (or 2024*)

(c) location search (access nodes) – for scheduled transport and transport on demand where relevant:

- (i) identified access nodes;
- (ii) geometry/map layout structure of access nodes;

(d) trip plan computation – for scheduled transport and transport on demand where relevant:

- (i) connection where interchanges may be made;
- (ii) default transfer times at interchanges;
- (iii) network topology and routes/lines (topology);
- (iv) transport operators;
- (v) timetables;
- (vi) planned interchanges between guaranteed scheduled services;
- (vii) hours of operation;
- (viii) facilities of access nodes (including platform information, help desk/information points, ticket booths, lifts/stairs, entrances and exit locations);
- * (ix) vehicles, including their accessibility (such as low floor, wheelchair accessible, pram accessible) and accessibility of on-board services (such as toilets);
- (x) accessibility of access nodes, and paths within an interchange (such as existence of lifts, escalators);
- (xi) existence of assistance services (such as existence of on-site assistance);



Static data

Level of service 2 – must be registered by 01/12/2023 (or 2024*)

(a) location search – for transport on demand and personal transport:

* (i) location of parking places (on and off-street), including accessible parking places for persons with disabilities and persons with reduced mobility;

(ii) Park & Ride stops;

* (iii) Park & Drive stops;

(iv) bike-sharing stations;

(v) car-sharing stations;

(vi) secure bike parking (such as locked bike garage);

* (vii) scooter parking zones;

(b) information service:

(i) where and how to buy tickets for scheduled transport, including retail channels, fulfilment methods, payment methods;

(ii) where and how to pay for parking, including retail channels, fulfilment methods, payment methods;

Static data

Level of service 4 – must be registered by 01/12/2025

(d) information on parking tariffs.

DATEX II napcore

NeTEx Network Timetable Exchange

Dynamic data

Level of service 2 – must be registered by 01/12/2026 for TEN-T network and by 01/12/2028 for the entire transport network

(a) information service on parking tariffs – for transport on demand and personal transport;

(b) availability check and location – for transport on demand and personal transport where relevant;

(i) car-sharing availability and location, bike-sharing availability and location, scooter-sharing availability and location, and other vehicle-sharing availability and location;

(ii) car parking spaces available (on and off-street).

- *Which data must be registered?*
- *Who must register the data?*
- *In which format must it be registered?*
- *How can the data be registered?*

…

Mail the NAP helpdesk: contact@transportdata.be

OPEN DISCUSSION

NEXT STEPS

1. Network / platform
2. Compelling use cases
    1. Access to data (static, dynamic)
    2. …
3. Roadmap

Principles

- *End-user central*
- *Public-private*
- *EU context*

DATEX/APDS/OSLO
(static information)
Operator
Infrastructure
Access
Opening times
Tariffs and payment
…
Facilities for electric vehicles
Facilities for people with restrictions
…
(dynamic information)
Occupancy
Status
…

WORK PROGRAM 2024

- Th 1/2 10-11h30 - Data & ITS Solutions for Cycling *(webinar)*
- Fr 29/2 10-11h30 - Digital Access Rights to Cities *(webinar)*
- We 13/3 PM - General Assembly & Membership dinner *(Antwerp)*
- Tu 26/3 all day - P+R & Multimodal Hubs Technical Visit *(the Netherlands) TBC*
- 16-19/4 all day - Intertraffic *(Amsterdam)*
- Tu 30/4 10-12h - AI & 5G Opportunities within Mobility *(Deloitte Zaventem Airport)*
- Fr 24/5 10-11h30 - Public Charging Infrastructure, Harmonising Best Practices *(webinar)*
- Th 6/6 10-11h30 - Seamless Payment for Mobility *(webinar)*
- Mid August - Autonomous Driving Technical Visit *(San Francisco) TBC*
- 16-20/9 all day - ITS world congress *(Dubai)*
- We 2/10 all day - ITS.be congress *(Brussels)*
- Tu 26/11 10-11h30 - Multimodal Hubs & the NAP *(webinar)*

Thank you for your attention!

(All slides & recording will be sent to you)