



## PROJECTS' OVERVIEW

**RIDE2RAIL-IP4MAAS Stakeholders' Workshop**  
**Karlsruhe, 12 May 2022**  
**UITP - Project Coordinator**

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# A COMMON VIEW...

The European transport sector provides high quality mobility services and is on a firm path towards further modernization and innovation. Each mode of transport plays its part, while the modal share of the private car is still high in Europe. It is important to recognize the role daily mobility plays for citizens as well as for issues such as climate change, congestion, quality of urban life, social cohesion and health.

UITP EU Position paper (September 2020)



# ...DIFFERENT OBJECTIVES

## RIDE2RAIL

- To develop an innovative **framework** for intelligent mobility, facilitating efficient combination of **flexible** and **scheduled** transport services, integrating real-time information about PT & RS
- To create a tool that **facilitates** the **comparison** and the **choice** between multiple options/services classified by a **set of criteria**
- To **encourage carpooling** (and ride sharing acceptance) as complementary for PT
- To combine **travel offer classifications** and **software components**, integrating them into existing collective and on-demand transport services
- To **design, develop** and **test** in 4 real demonstrators a set of software components
- To produce **recommendations** for replicability
- To **enhance** the performance of the **overall mobility system**, reducing road congestion and environmental impact **reinforcing the mobility offer** in rural and low-demand areas



# ...DIFFERENT OBJECTIVES

## IP4MaaS

- To **design and develop** a demonstration execution scheme tackling the supervision of technical integration and demonstrations' management subjects, liaising between CFMs, TSPs and users
- To **execute co-creation and collaboration activities** with demonstration stakeholders for demo planning and executing
- To **analyze and demonstrate technologies** developed by IP4, identifying/assessing KPIs
- To **monitor** demonstrations of IP4 technologies in 6 different locations involving different transport operators, translating/combining IP4 solutions into specific demo sites solutions
- To **assess** the demonstrations determining the success of their execution, the adaptability, the potential market acceptance, the level of satisfaction of users
- To **develop methodology** for future use cases (including data collection/analysis)



# ...DIFFERENT IMPACTS

## RIDE2RAIL

- To increase the number of passengers using public transport
- To improve the rail connection with the rural areas
- To minimise environmental pollution while traveling
- To propose additional criteria for informed decision making when planning a trip.



To measure impact, specific target indicators will be monitored



# ...DIFFERENT IMPACTS

## IP4MaaS

- To **enrich** the content of the demonstrations, by using **real data**, **real processes**, and potentially **real environment** for the demonstration
- To **demonstrate** that the **IP4 eco-system** is **versatile**, able to face diverse environment, business rules, transport modes
- To **ease** the **market acceptance**, by bringing various stakeholders
- To create the conditions of a successful deployment of the IP4 solutions.
- To **reduce CO2 emissions**, promote **sustainable transport**; improve urban-rural connections.



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# ...DIFFERENT IMPACTS

## IP4MaaS

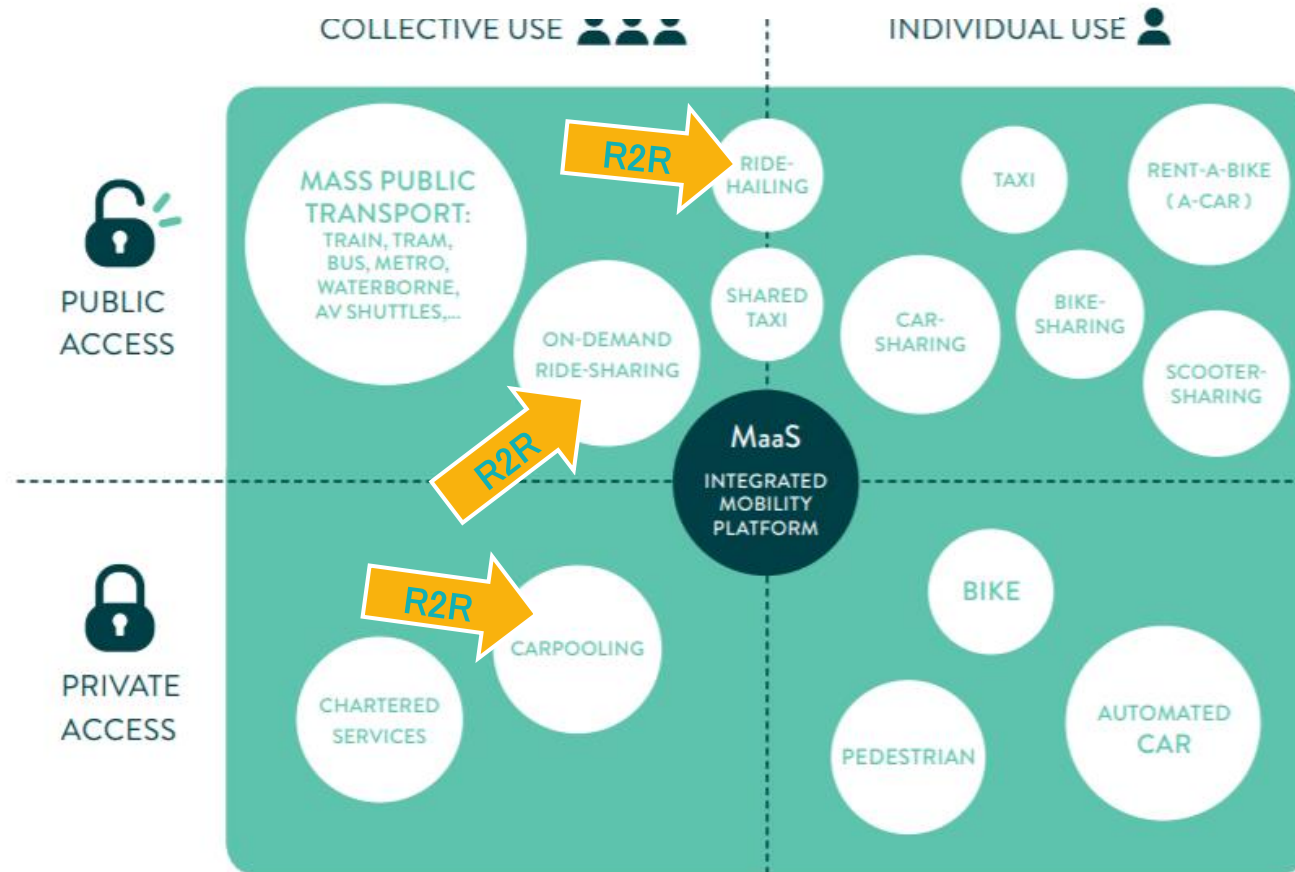
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# A CLARIFICATION



Ride-sharing refers to the common use of a motor vehicle by a driver and one or several passengers, in order to share the costs. The term is used in different cases to describe

- 1) the common use of a motor vehicle for cost compensation in the context of a ride that the driver performs for its own account (referred also as Carpooling), or
- 2) the common use of a professional hired vehicle among one or various passengers which have the same (or different) destination in order to share the costs of the ride.

# RIDE2RAIL DEMO SITES



PADUA, IT  
20 km area.  
Mobility app tested  
with rural  
commuters (mainly  
university students  
and workers)



BRNO, CZ  
South Moravia  
region.  
Encourage rural  
commuters to share  
vehicles for reaching  
PT hubs.



ATHENS, GR  
20 km air-rail  
corridor to airport in  
Attika region.  
Encourage  
carpooling to metro  
stations for  
park&ride.



HELSINKI, FI  
Vuosari area.  
Automated shuttle  
bus tested in rural  
areas (integrated  
with trip planning  
app) for accessing  
rail.

## LOCAL EVENTS WITH LOCAL STAKEHOLDERS



# IP4MAAS DEMO SITES (URBAN)



## BARCELONA, ES

23-50 km area from the city centre (urban-periurban).

Modes involved: Metro, Tram, Bus, Car-Sharing.

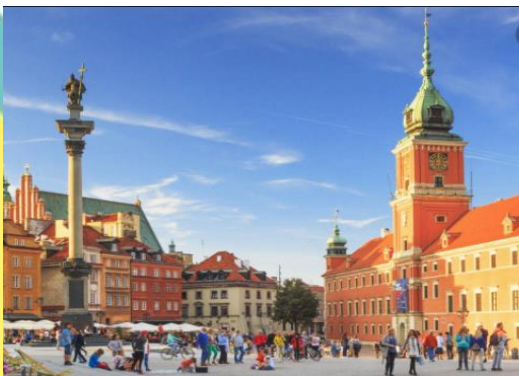
Objective: optimize the use of multimodal travels reducing the number of vehicles.



## ATHENS, GR

Modes involved: metro, bus, tram, trolleybus, taxi, touristic services.

Objective: enhancing multimodality, identifying optimal schemes of connected services to be provided through “MaaS package”.



## WARSAW, PL

Młociny transport hub (interchange building connecting the P + R car park with bus, tram and subway terminus + shared cars/bikes).

Objective: test a set of services and IP4 functionalities, improving user acceptance of IP4 tools.



# IP4MAAS DEMO SITES (RURAL)



## **PADUA, IT**

Hub of many commercial, educational and professional activities.  
Living Lab for digitalization and integrated mobility services.

Modes involved: train, bus.

Objective: integrate mobility options into citizens-centric mobility packages.



## **LIBEREC, CZ**

Borderland between Czech Republic, Germany and Poland.  
Increasing cross-border mobility.

Modes involved: train, bus, tram, school bus, car/bike sharing.

5 use cases covering different modes and different user profiles.



## **OSIJEK, CR**

Modes involved: bus, tram, bikes. Planned: DRT, e-cars, e-bikes.

Objective: new services fully operational and integrated into PT scheme, providing a unified experience for PT users. Test and demonstrate IP4 functionalities.



# IP4MAAS: NEXT STEP OF SHIFT2MAAS



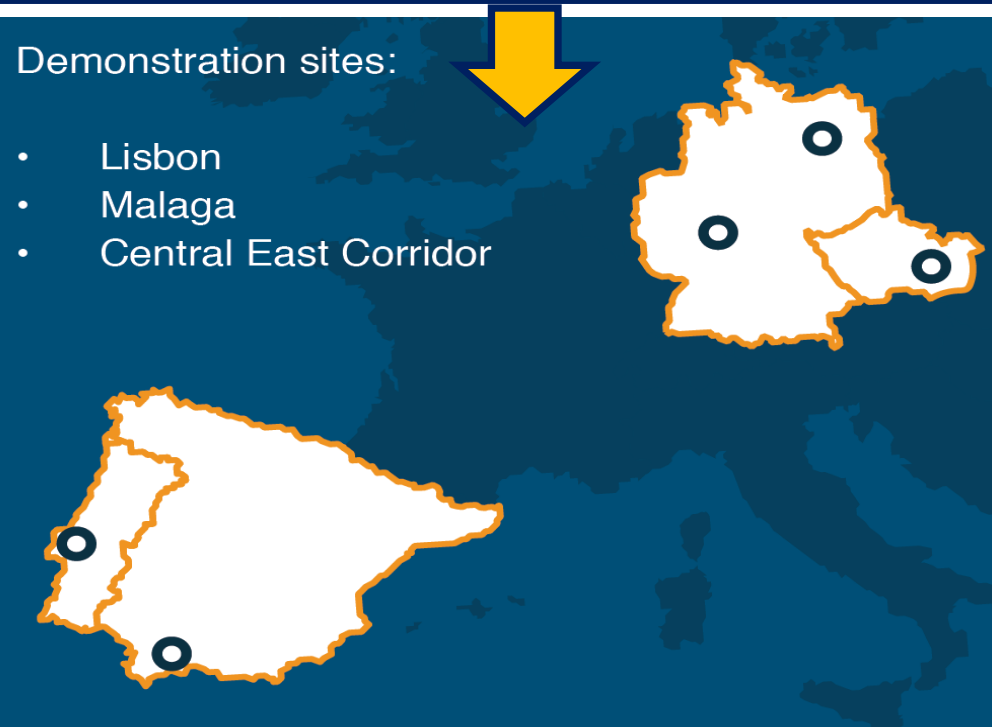
## Functionalities tested within Shift2MaaS:



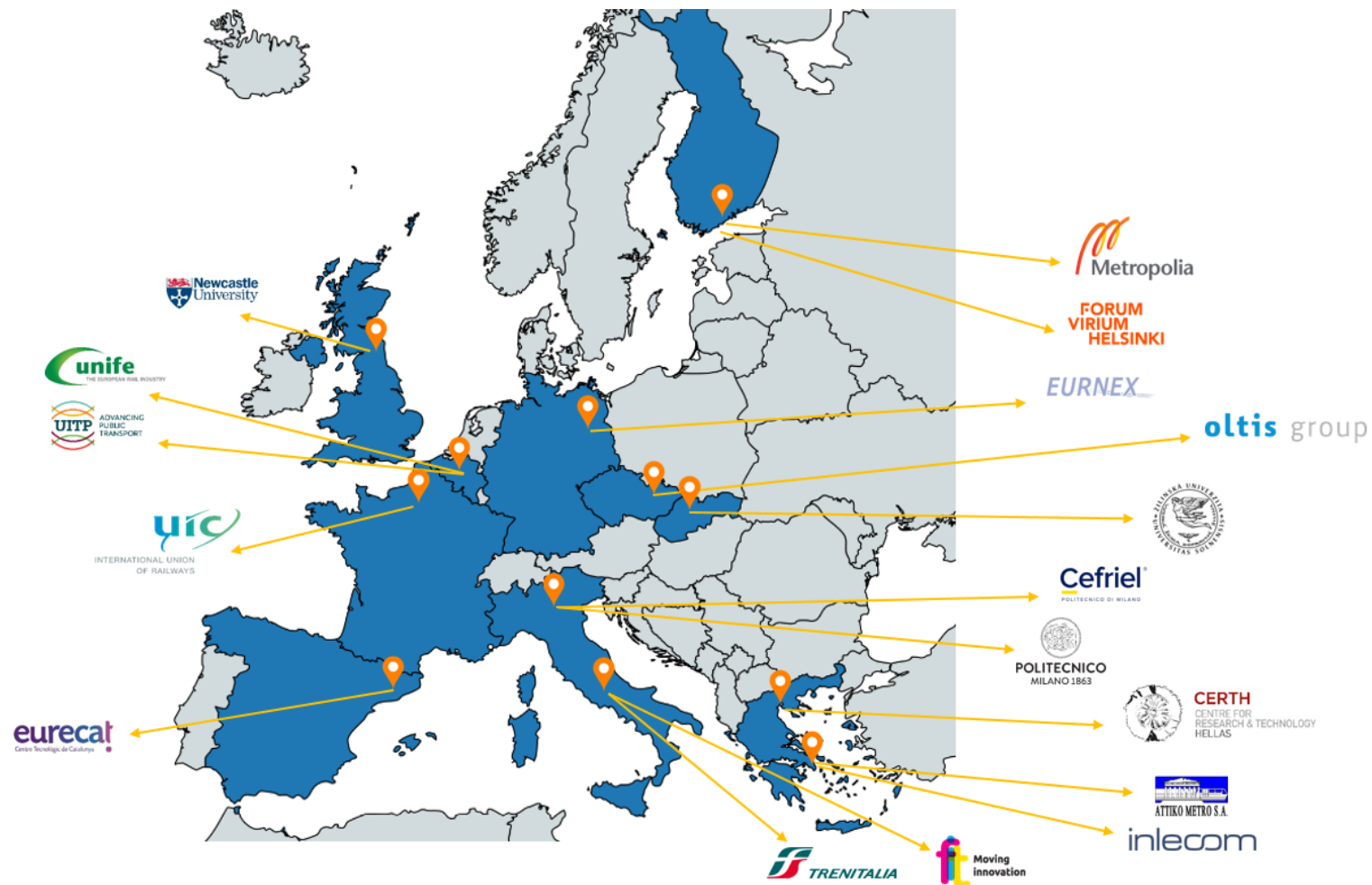
The project aims to demonstrate the benefits of IP4 through *pilots* focused on shared mobility services and seamless passenger experience, conducted in three different demonstration sites in Europe.

## Demonstration sites:

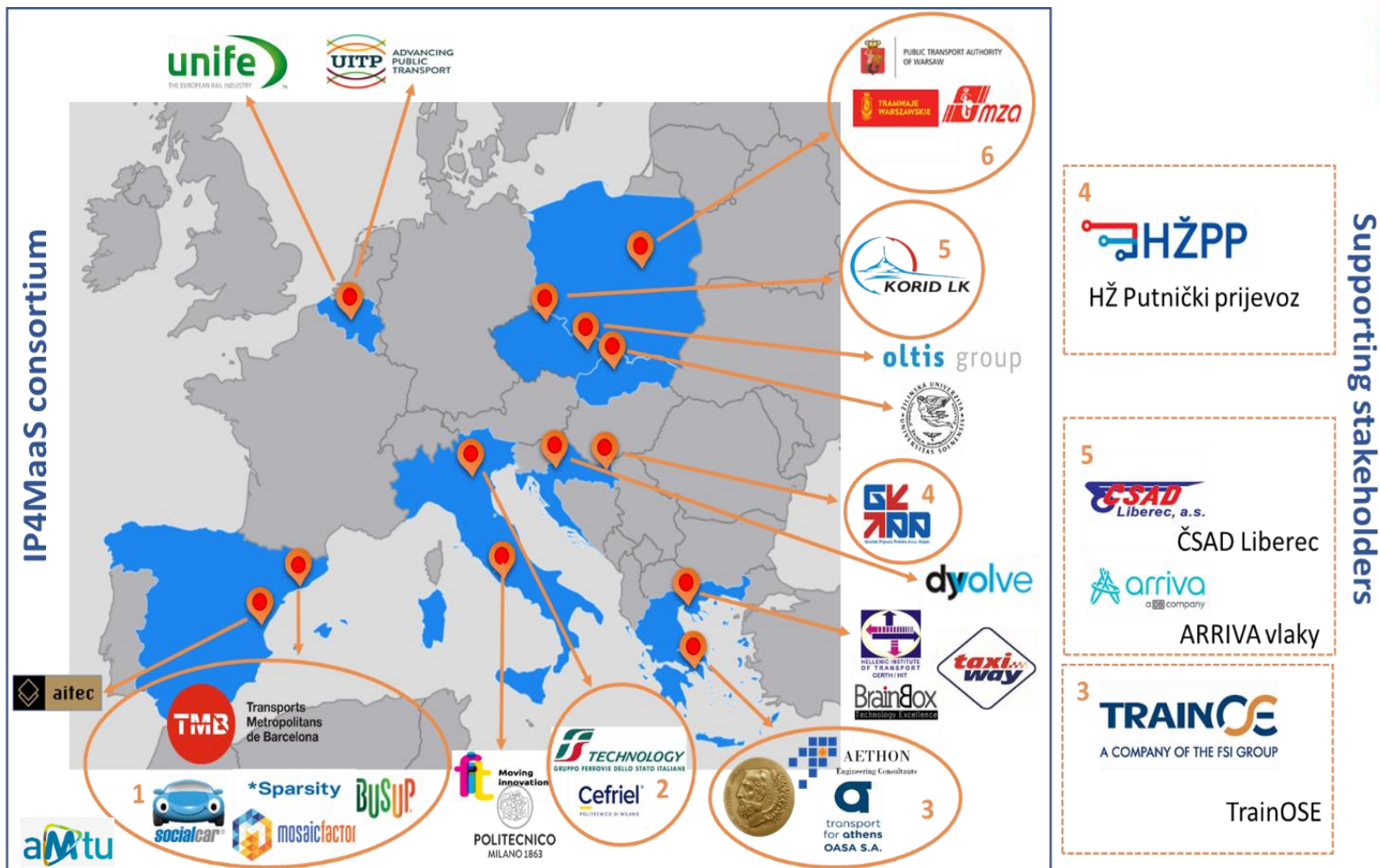
- Lisbon
- Malaga
- Central East Corridor



# RIDE2RAIL CONSORTIUM



# IP4MAAS CONSORTIUM



IP4MaaS





# THANK YOU FOR YOUR ATTENTION

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