



BARCELONA- OVERVIEW

RIDE2RAIL-IP4MAAS Stakeholders' Workshop
Karlsruhe, 12 May 2022

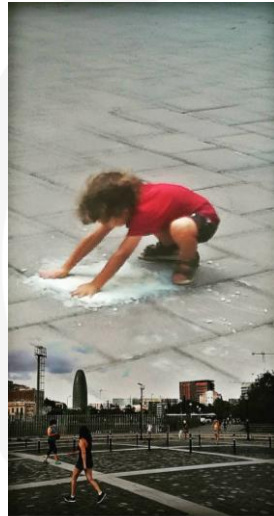
These projects have received funding from the Shift2Rail Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreements no. 881825 (RIDE2RAIL) and 101015492 (IP4MaaS)





IP4MaaS

The IP4MaaS Barcelona Pilot Site



OVERVIEW OF BARCELONA'S DEMO SITE

Barcelona's demo site includes PT, shared and on-demand mobility services provided by 4 TSPs:

- Urban PT provided by **TMB**: It covers the entire Metropolitan area of Barcelona and consists of a comprehensive network of multiple PT means: Bus and Metro. Additionally, it handles the teleferic of Barcelona and the tourist red buses.
- Private transport on demand bus provider **BusUP** that provides services mainly to commuters/workers
- **AMTU** that provides new transport on demand services (FlexiTransport) with shuttle buses in suburban areas
- **SocialCar** that provides car hiring and car sharing services



OBJECTIVES OF BARCELONA'S DEMO SITE

The following example scenarios/combinations are foreseen:

- ✓ Transport on demand services for first/last mile and the main leg conducted by PT (either bus or metro)
- ✓ PT modes for a single trip

Barcelona's demo site is focusing on commuters and students

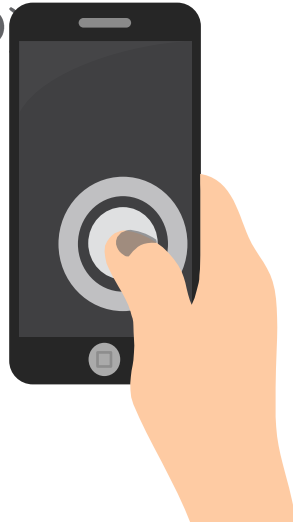
- Living in sub urban areas and commute daily to Barcelona for working or studying
- Living in Barcelona and commute daily to industrial zones for working



2IP4MAAS -KEY FUNCTIONALITY DEMONSTRATED

DEMONSTRATION PHASE

- Journey planner & Offer builder extended for all TSPs
- On board validation and inspection of travel entitlements for BusUp and AMTU
- Mobility Packages (TBD)



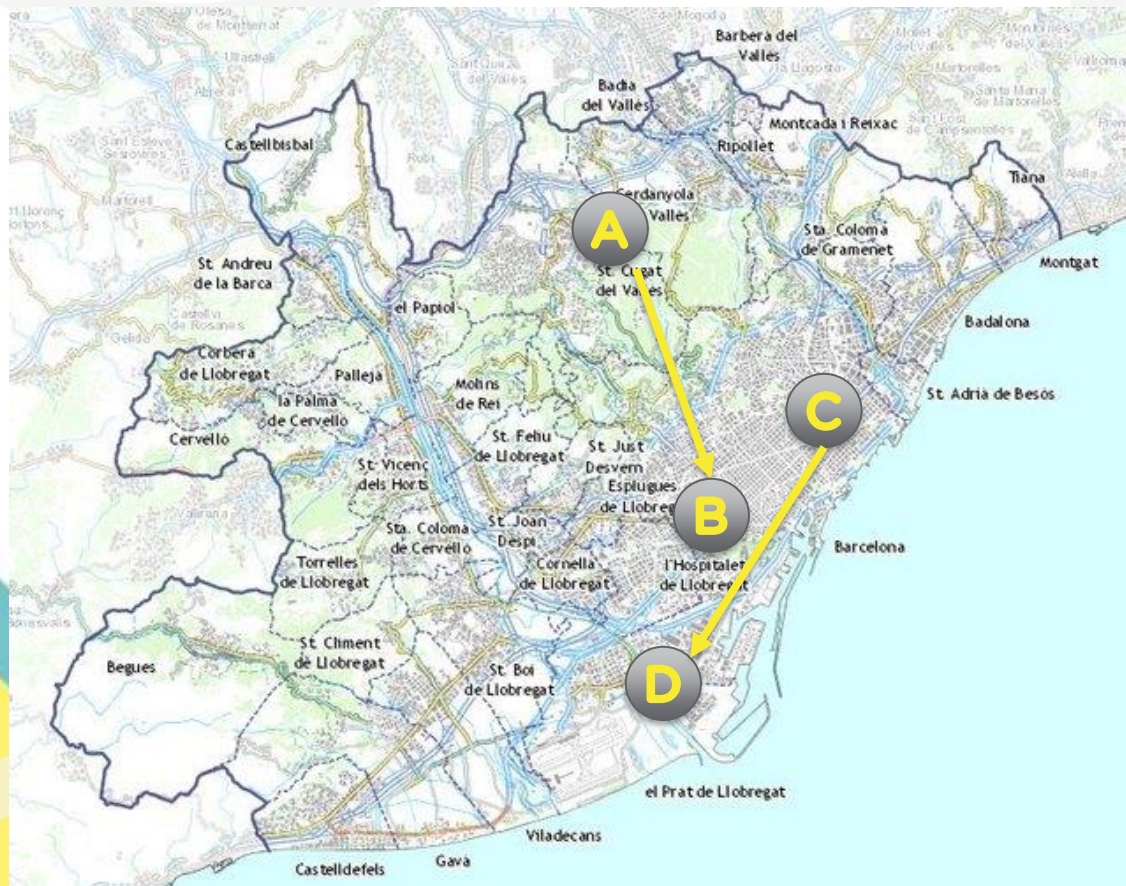
IP4MAAS - CHALLENGES

- Free floating services to be combine in a unique system with PT services
- Barcelona is now adapting a contactless single ticket by the integration with Shift2Rail ecosystem was not feasible as it is a system that not stable yet in Barcelona
- Integration of new services of Flexitransport were easier to be integrated as they are digital oriented
- Not all the TSPs have the same business models so their integration in the system is challenging





IP4MaaS



1. Sub-urban to urban
A→B

2. Urban to Sub-urban
C→D



OVERVIEW OF BARCELONA'S DEMO SITE

The IP4MaaS Barcelona's demo aims to:

- Enhance the connection of sub urban and urban areas of the Metropolitan area of Barcelona by promoting multimodality and setting the foundations for a single ticket
- Evaluate innovative concepts of multimodality and more specifically the combination of shared mobility/transport of demand with public transport

In other words...

- ❖ Travelers going to the Barcelona center from sub-urban areas, with low frequency of PT services, often use their cars for their trips.
- ❖ To stop this, transport on demand public or private services will be offered through a dedicated app, for the 1st and/or last leg of their trip.





IP4MaaS

THANK YOU FOR YOUR ATTENTION

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