



**NGO for people with  
reduced mobility**

**Asociación para Personas con  
Movilidad Reducida**

**Enhancing Accessible Tourism  
Through Spot4Dis**

**DIS Conference**  
24th of May



Fundació Joan Miró

# NGO Mission

## Our mission and values

The "Asociación de Personas con Movilidad Reducida" (AsoPMR) was born with the main objective of **collecting and distributing useful information** to this group, to help them in their **autonomy** and improve their **quality of life**.

The first challenge proposed to solve has been the parking for people holding an **EU blue card** for people with disabilities.

## 2022 Zero Project Award Winners



Our NGO was awarded by **United Nations Zero Project 2022 Award** for innovative accessibility practices and policies

## EU parking card expertise

**Carlo Castellano**  
AsoPMR President



**Recognized by the EU Commission as an expert on the European Parking Pass**



# AsoPMR Presidency and Members

## AsoPMR Board



**Carlo Castellano**  
President



**Benjamí Solé**  
Technology Vocal



**Danilo Francesca**  
Treasurer



**Irene Navarro**  
Secretary



**Pedro Coutinho**  
SW Team Leader



**Helena Pedrosa**  
Marketing Assistant

# Users Problems



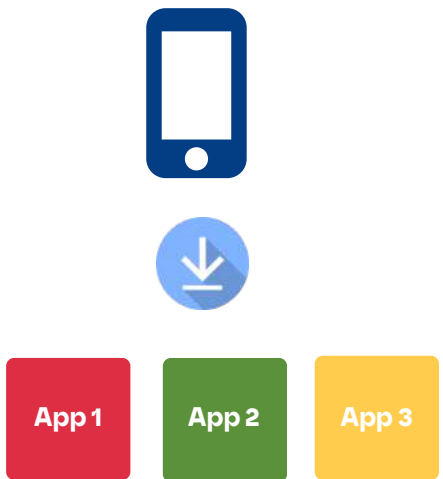
## PRM parking spots location

Difficulty finding PRM spots near their destination



## Non-accessible and variable regulations

In some areas you have to pay in the payment areas, in others a limited time, or it is not allowed...



The solution that some councils propose is not practical: **the user must download an app in each city**



Loss of autonomy for the PMR uses, they prefer to stay at home and not to go on vacation



Less inclusive city, non-accessible and non-inclusive tourism for people with reduced mobility

## Consequences



# Cities problems



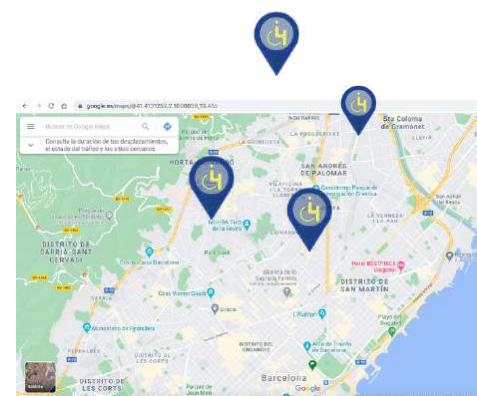
Difficulty managing PRM parking spaces, controlling misuse and EU card fraud



Difficulty in preventing fraudulent use of PRM parking spots, both in identifying the user and in determining the validity of the EU parking card



Poor combination of private and public transport



There is no good management of on-street parking, conflict between groups



# Wise Human City

The new paradigm of the 21st century



People with  
disabilities



People with  
temporary  
disabilities



Senior



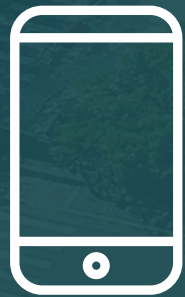
Pregnant women and  
children



Baby stroller

# Connected Accessible Destinations

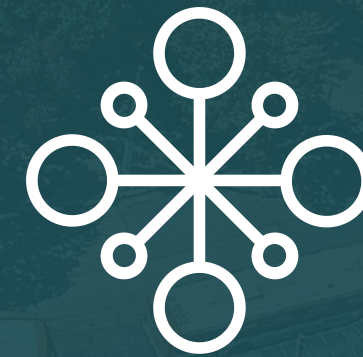
**In an increasingly globalized and tourism-driven world, territorial cohesion and accessible mobility are key challenges, especially for vulnerable groups such as people with reduced mobility. These challenges require innovative and inclusive solutions.**



**Global and technological**



**Accessible and easy to use**

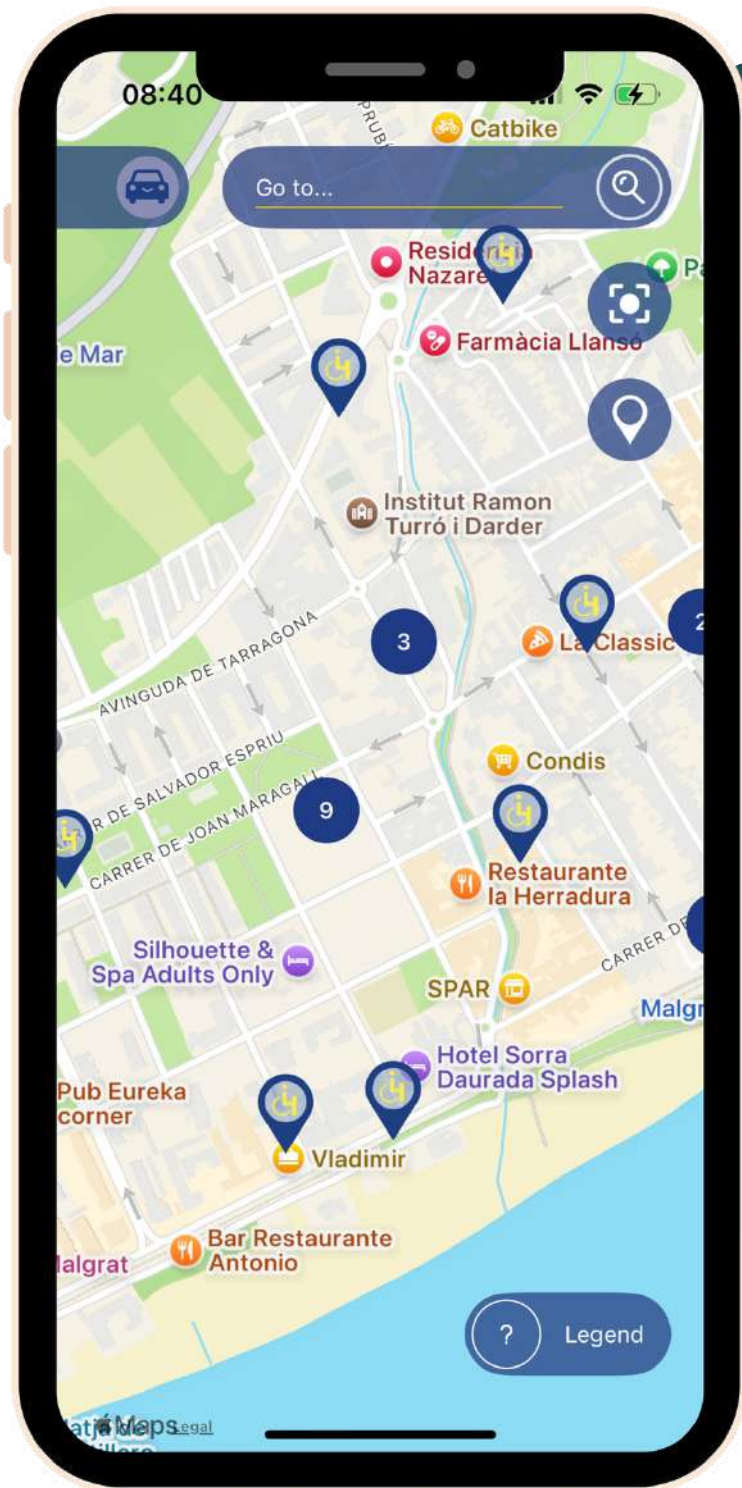


**That connect the  
territory**



**That promote and facilitate  
local tourism**

# Success story: Park4Dis



**First cross-European  
and intercity solution**



**Displays PMR parking  
spaces and other  
permitted parking  
spaces**



**It solves  
accessibility  
problems**



**Parking control**



**A more inclusive and  
sustainable tourism  
destination**



**Promotion of local  
tourism and cultural  
heritage**



**Innovative digital tools for  
accessible travel**



**THE GLOBAL GOALS**

**Supporting sustainable  
and inclusive tourism  
(SDGs)**

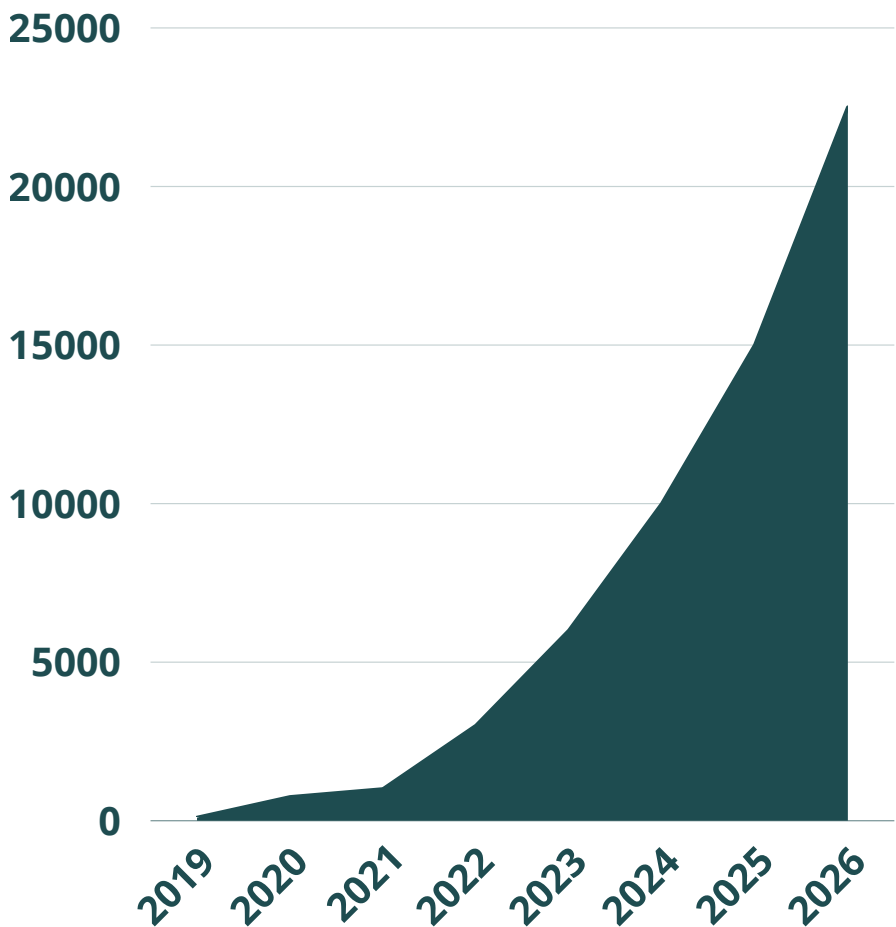
# Impact, KPIs and SDG



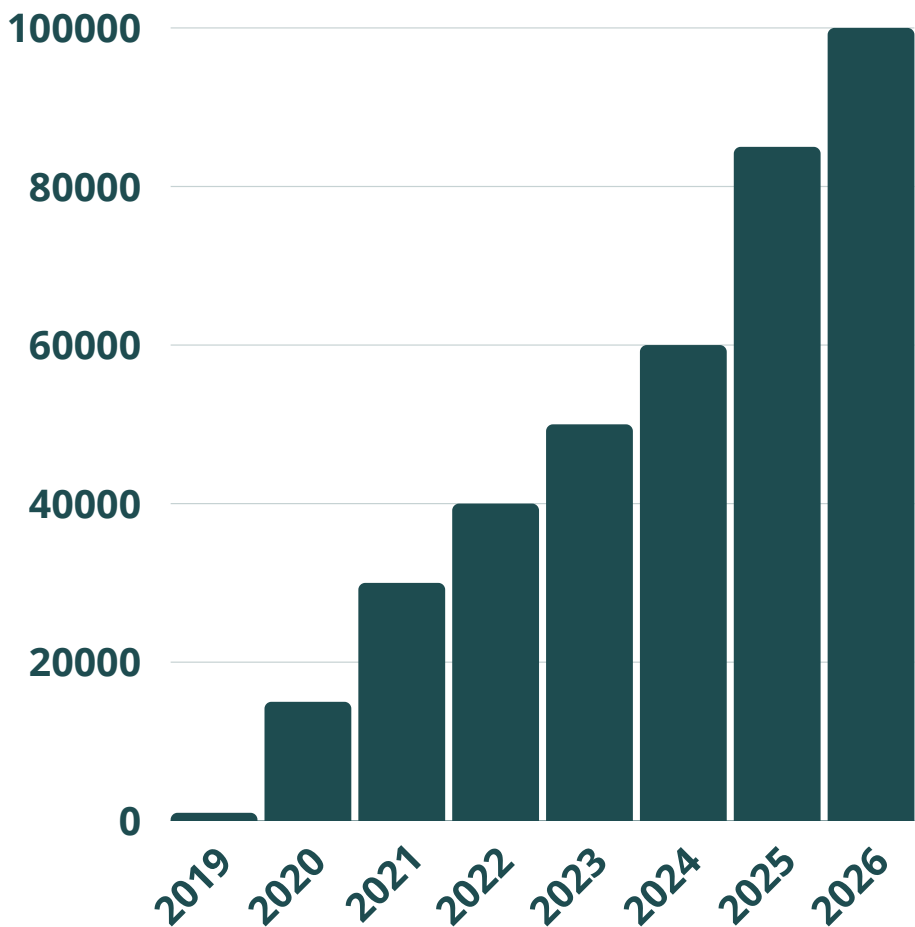
- Improve PMR autonomy
- Promote accessible tourism
- Reducing fraud with European disability cards
- Updated information on PRM spots across Europe
- Aligned with the SDGs

| Q1 2026        |          |
|----------------|----------|
| Users          | +13.000  |
| PRM Spots      | +100.000 |
| Municipalities | +700     |
| Volunteers     | +900     |

User growth



Growth in PRM parking spots



# Network of Smart Tourist Destinations

Spot4Dis is part of the **Smart Tourism Destinations Network** promoted by **SEGITTUR**, aligned with European strategies for sustainable, accessible and smart tourism.

The solution helps improve accessibility in tourist destinations by facilitating inclusive mobility for people with disabilities and reduced mobility across Europe, and is also an approved optional module within the Smart Destination Platform (PID).



# From Park4Dis to Spot4Dis

## Google.org Impact Challenge



**Web/App**

**Improve user  
experience**

Improves the driving  
experience by providing parking  
information and incident  
notifications



**Mapping**

**Improves the  
collection of spots**

Collecting PRM parking  
spots in a more optimal  
and efficient way

With support from  
**Google.org**



Financial donation

**Google Fellows**



Experienced  
Google  
technical team.

# Social impact solutions



## Spot4Dis **People** User solution



## Spot4Dis **Data**



Database of PRM parking spots, regulations and information. Ready to be integrated into data spaces, etc.

## Spot4Dis **Mapping**



Mapping tool that uses different methods: AI applied to images, with manual geolocation, manual post-validation, etc.

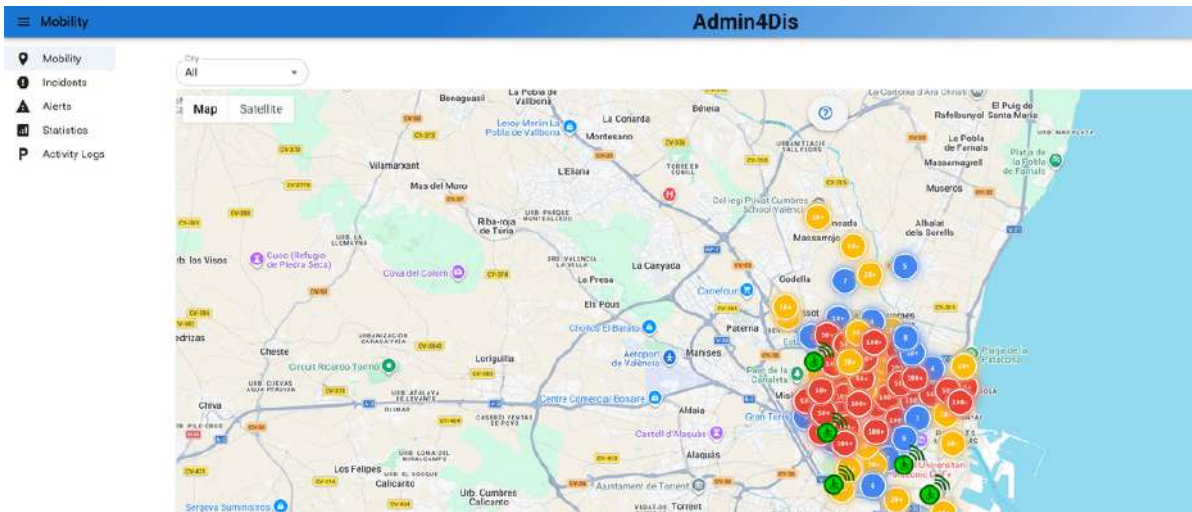
## Spot4Dis **Info**



Accessible resources around PRM spots, such as hotels, restaurants, beaches and museums, among others

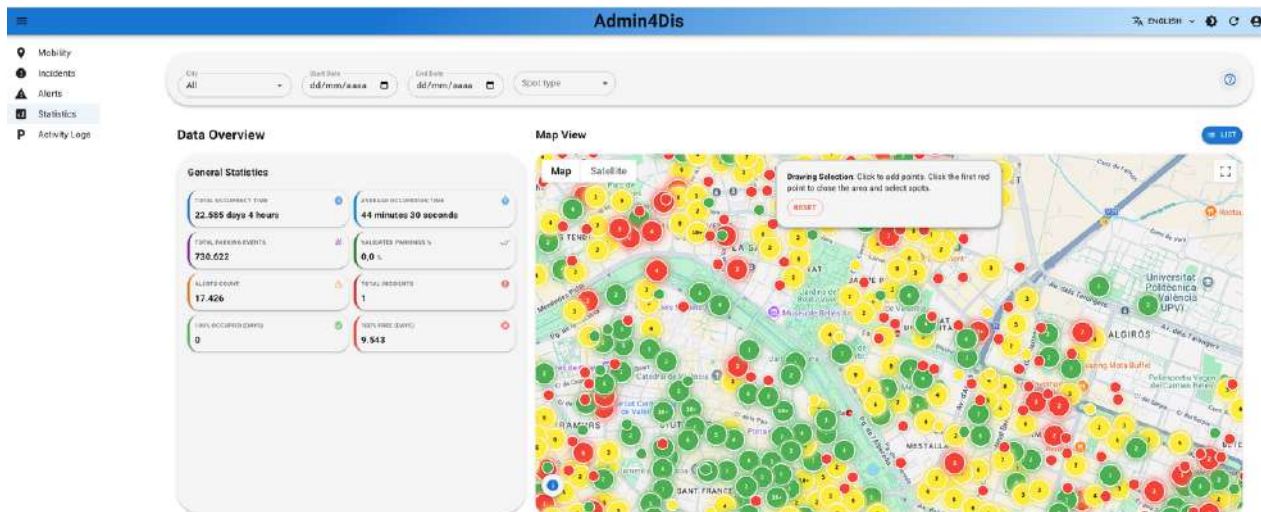
# Administration/Governance Solutions

## Spot4Dis Admin



### Mobility

Management of PRM parking spots and local regulations



### Statistics

Statistics on the use of PRM parking spots

| Description | Status | Type         | Spot       | Created At          | Download Unsigned PDF | Actions |
|-------------|--------|--------------|------------|---------------------|-----------------------|---------|
| Images lost | Report | NotAccessBle | Valea_Spot | 24/4/2025, 11:54:57 | Download Unsigned PDF |         |
| Images lost | Unread | NotAccessBle | Valea_Spot | 24/4/2025, 15:43:02 | Download Unsigned PDF |         |
| Images lost | Unread | VehicleCard  | Valea_Spot | 5/7/2025, 4:38:04   | Download Unsigned PDF |         |
| Images lost | Unread | NotAccessBle | Valea_Spot | 24/4/2025, 11:55:09 | Download Unsigned PDF |         |
| Images lost | Unread | NotAccessBle | Valea_Spot | 24/4/2025, 17:41:45 | Download Unsigned PDF |         |
| Images lost | Unread | NotAccessBle | Valea_Spot | 24/4/2025, 15:10:04 | Download Unsigned PDF |         |
| Images lost | Unread | NotAccessBle | Valea_Spot | 24/4/2025, 15:50:54 | Download Unsigned PDF |         |
| Images lost | Unread | NotAccessBle | Valea_Spot | 24/4/2025, 12:19:03 | Download Unsigned PDF |         |
| Images lost | Unread | NotAccessBle | Valea_Spot | 24/4/2025, 15:01:06 | Download Unsigned PDF |         |
| Images lost | Unread | VehicleCard  | Valea_Spot | 5/7/2025, 14:36:40  | Download Unsigned PDF |         |

### Incidents

Visualization and/or management of user incidents and IoT alerts

| Affected user | Type               | Spot                                                           | Created             |
|---------------|--------------------|----------------------------------------------------------------|---------------------|
| System        | SensorNotValidated | Carer de Ricardo Muel, S, Valencia, Spain                      | 24/4/2025, 18:10:18 |
| System        | SensorNotValidated |                                                                | 25/4/2025, 18:39:05 |
| System        | SensorNotValidated | C. DELA FLORENTINA, 30, Valencia, Spain                        | 25/4/2025, 6:48:07  |
| System        | SensorNotValidated | PL. HENRIQUE, 35, C/UTAT JARDI, Valencia, Spain                | 24/4/2025, 15:19:04 |
| System        | SensorNotValidated | C. NALLIGUER, 4, EXTRAUROS, Valencia, Spain                    | 25/4/2025, 11:55:08 |
| System        | SensorNotValidated | C. NALLIGUER, 4, EXTRAUROS, Valencia, Spain                    | 25/4/2025, 16:25:06 |
| System        | SensorNotValidated | Avenida Regio de Valencia, 50, Valencia, Spain                 | 25/4/2025, 18:05:06 |
| System        | SensorNotValidated | C. FRANCISCO BARRACHEN, ESTEBAN, 6, BENICARAP, Valencia, Spain | 25/4/2025, 11:18:12 |
| System        | SensorNotValidated | TR. AV. DE PABLO, 142, Valencia, Spain                         | 25/4/2025, 16:05:05 |
| System        | SensorNotValidated | C. DONDE DE SALVATRIN, 10, LISIARAN, Valencia, Spain           | 25/4/2025, 15:45:05 |

### Alerts

Statistics on the use of PRM parking spots

# Spot4Dis video



For many people, getting around the city

# Use cases of the solution in a tourism environment



## **Access to accessible tourist services**

Access accessible tourist services around PRM spots



## **Fraud management**

Parking control in PRM spots and other permitted regulated parking areas



## **Inclusive Park&Ride**

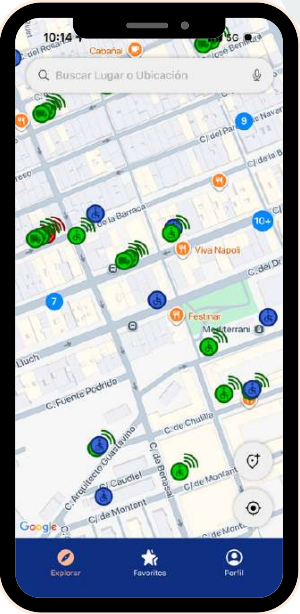
Park and ride facility with shuttle service to tourist attractions (hotels, restaurants, museums, etc.)

# Spot4Dis Info

Accessible resources around PRM spots, such as hotels, restaurants, cultural assets, among others

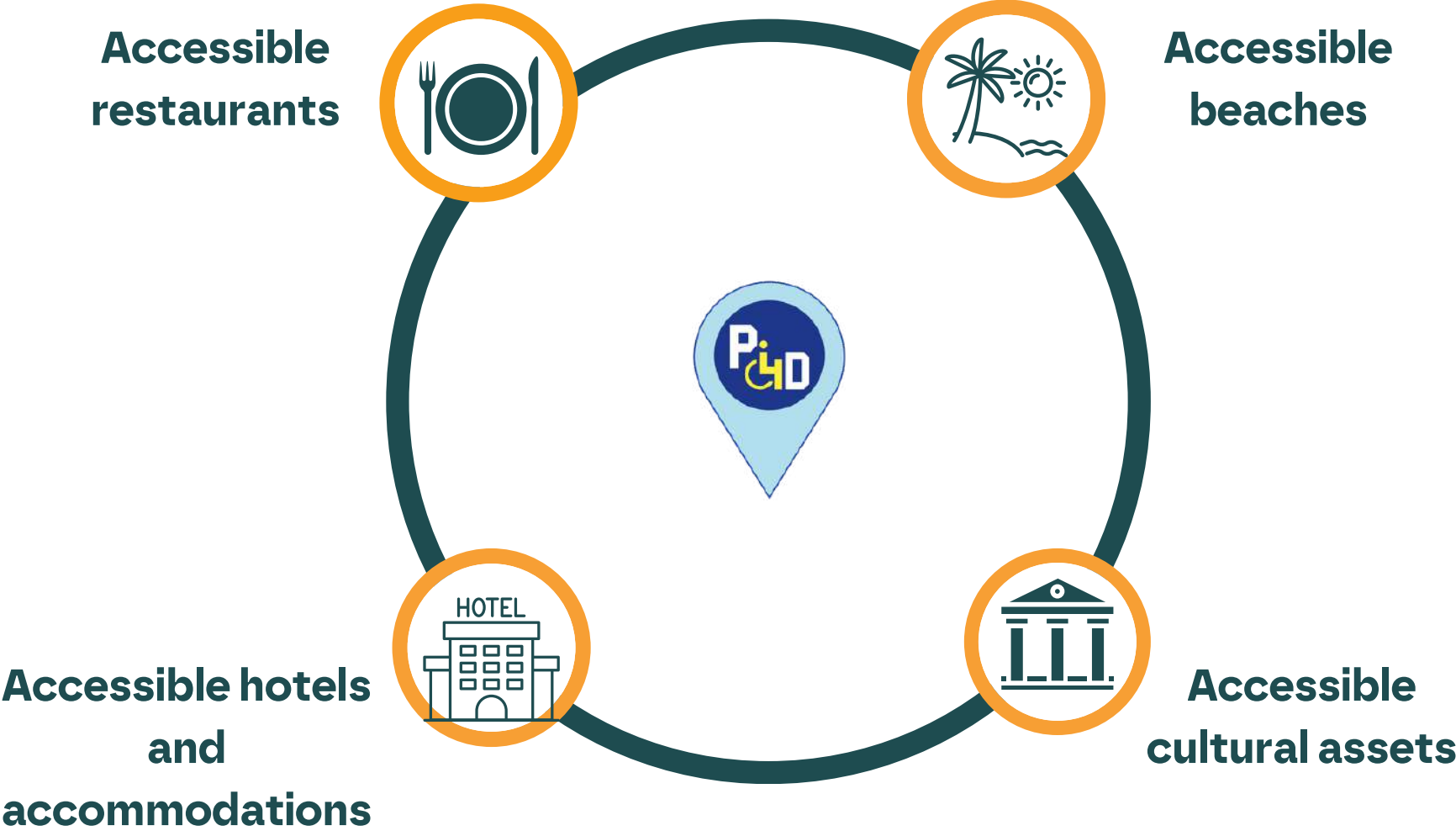


2D or 360° view of accessible resources in the area



Spot4Dis adds a new accessibility layer that allows users to view establishments such as shops, restaurants, hotels and other venues that promote an accessible environment.

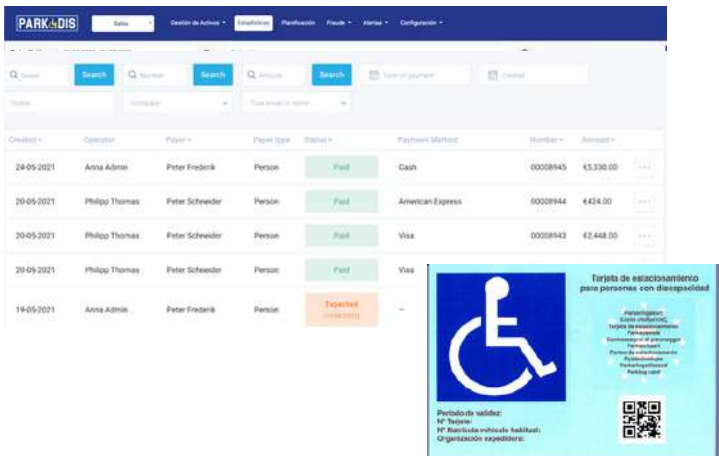
Possibility of advertising the accessible resource on the Spot4Dis App and Web and city council



# Fraud management: Parking control in PRM spots

## Advanced user identification

### By card



### By biometrics



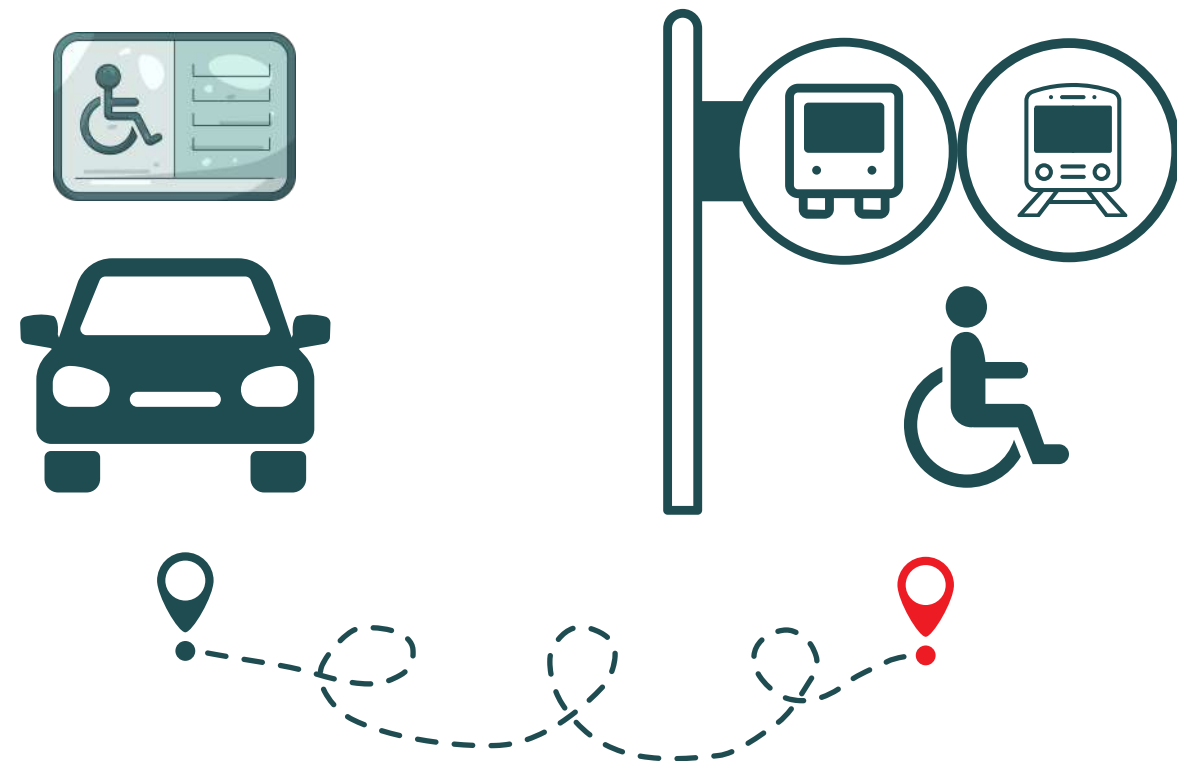
## The solution allows

Identify whether the parking spot is occupied or not, and whether the user is authorized to park there or not, thanks to the sensor.

Management of alerts for invalid card and for exceeded parking time.



# Inclusive Park & Ride: Management of park-and-ride facilities



**Connect to public transport and  
continue your trip to an accessible asset**

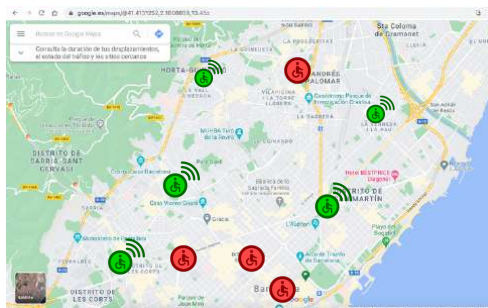
End to end accessible trip  
Private and public transportation



**Connect to accessible touristic  
resources next to PRM spots**

Enhancing accessibility and user  
experience at tourist destinations

# Implementation phases summary



## Phase 1

Mapping and Open Data

## Phase 2

City setup in Spot4Dis

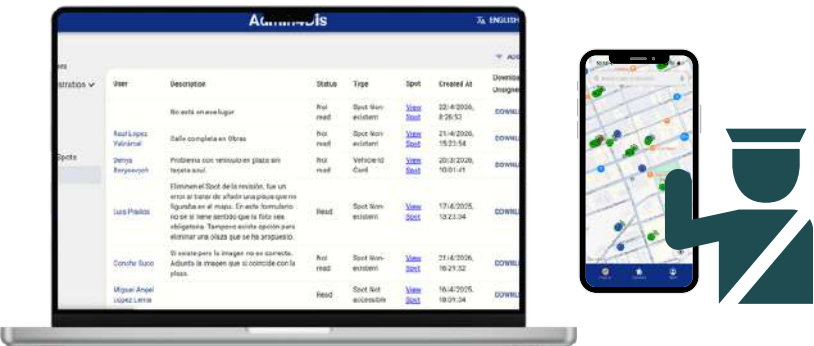
## Phase 3

Spot availability



## Phase 4

User identification



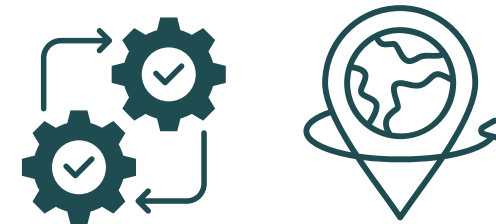
## Phase 5

Police management

# Tourism-related projects and service



**Mapping and assessment  
of PRM spots and tourism  
assets**



**Integration with municipal  
PRM parking inventories and  
tourism assets**



**Integration with tourism and  
mobility data spaces**

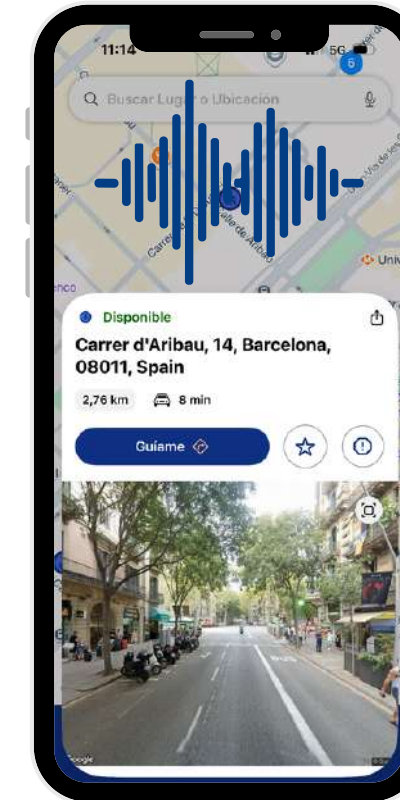
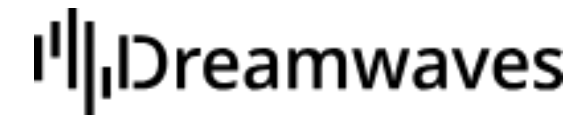


**Digital twin projects in the  
tourism sector**



**Flexible PRM parking management  
based on tourism seasonality**

# Other solutions promoted by AsoPMR



**Promotion** of local tourism and cultural heritage information



**Digital display** for accessible tourism services



**Audio Augmented Reality**  
Virtual waypoints placed in the real world around the user



**Navigation by hearing**  
The user can follow the sounds until reaching the destination



**Real-time visitor**  
flow management

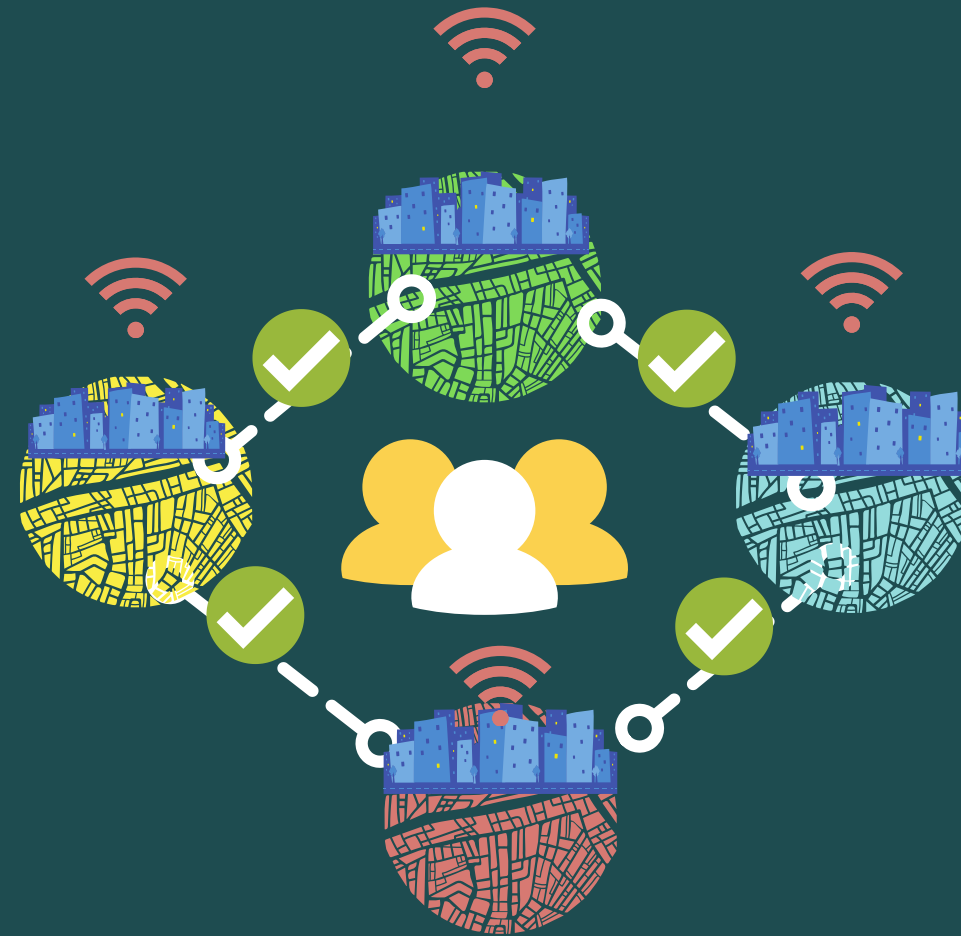


**Accessibility support** for visual, auditory, cognitive and mobility impairments.



**Spatial audio**  
The user can hear the waypoints as if a friend was calling

# Wise Human City, join the new paradigm



**Carlo Castellano**  
President  
AsoPMR



[www.asopmr.org](http://www.asopmr.org)

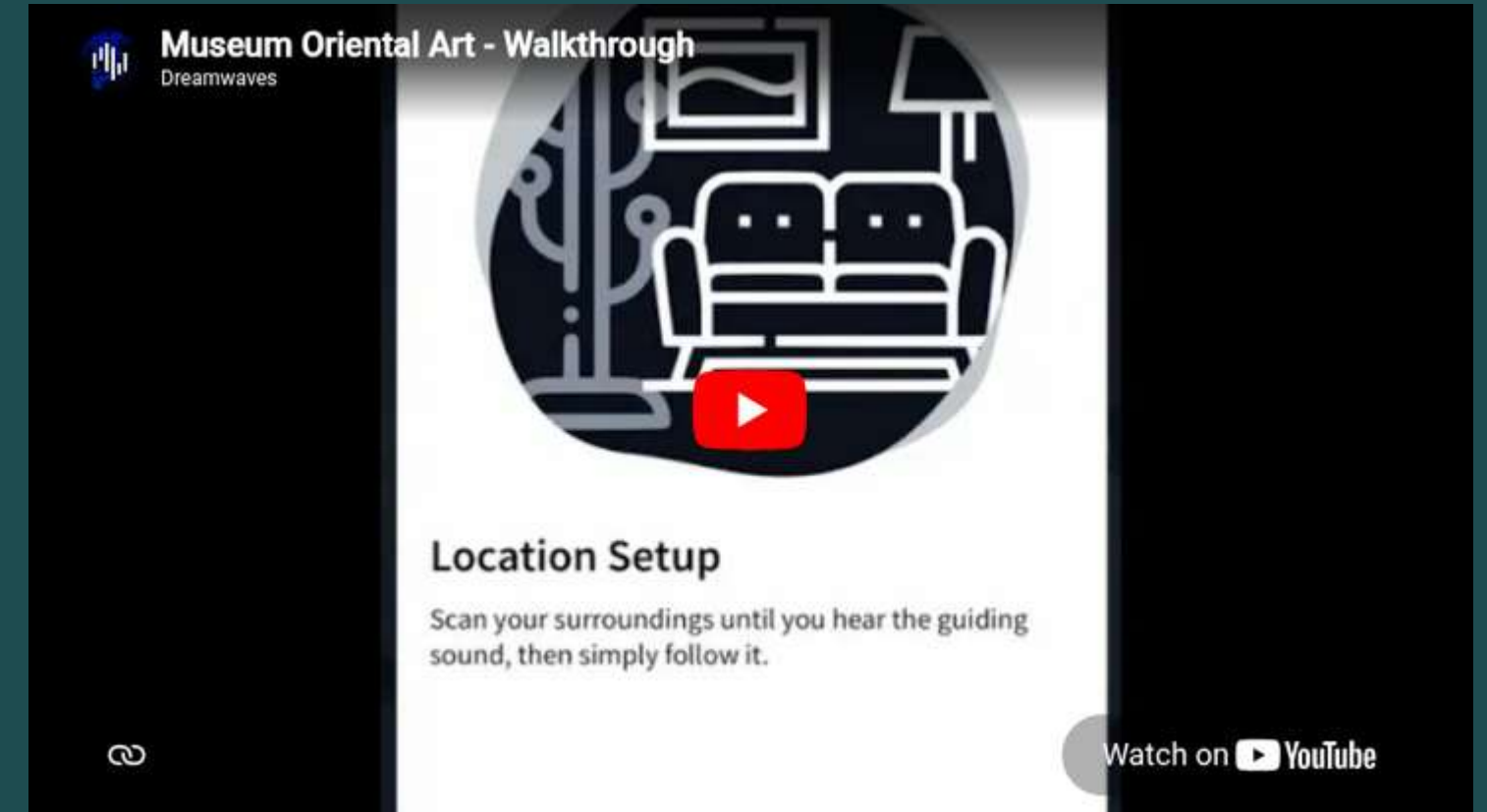


[asopmr@asopmr.org](mailto:asopmr@asopmr.org)

**From Smart City to Wise Human City: The user at the centre**



[Access to the video](#)



[Access to the video](#)