

# ComeOn – AGORA Lledó Parking Management for Disabled people in Cities





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## *Current Situation - Identification of the problem:*

**Disabled people have a lot of problems to park in Cities  
(either in Indoor or Outdoor parkings places)**

# Parking Management for Disabled people in Cities



## Scope:

People with physical disabilities that is able to drive a car.



# Parking Management for Disabled people in Cities

## Approach:

### Co-design two possible solutions:

**Indoor** → Providing specific information and identification for disabled people parking locations

**Outdoor** → Facilitate abandoned outdoor city center parcels for parking spaces just-for-disabled-people in accessible areas in the city.

## SOLUTION 1. INDOOR PARKING LOCATIONS

### Features:



#### 1) **Sensor with three lights:**

- **Red:** Occupied
- **Fix Blue:** Free for disabled people
- **Blink Blue:** if the car owner is not disabled and is using a disabled people parking place
- **Green:** Free for non-disabled people.

## SOLUTION 1. INDOOR PARKING LOCATIONS



### Features:

#### 2) **Smartphone App for disabled people:**

- **Connect via Bluetooth with Parking Sensor to confirm that the car belongs to a disabled people (Blue light stops blinking). The ID is provided by Council.**
- **Shows in a map all the indoor available parking places for Disabled People**





## SOLUTION 1. INDOOR PARKING LOCATIONS

Features:

### 4) Free places indicator:

- Indicator (**blue**) of free disabled people parking places together with the others (**green**)



## SOLUTION 2. RECONVERT OUTDOOR CITY CENTER ABANDONED PARCELS IN PARKING PLACES

- 1) Identify city center abandoned parcels in only-Disabled People Parking Places
- 2) Negotiate a Business Case with the owner
- 3) Prepare the parcel to setup a few parking places just for disabled people.





## SOLUTION 2. RECONVERT OUTDOOR CITY CENTER ABANDONED PARCELS IN PARKING PLACES



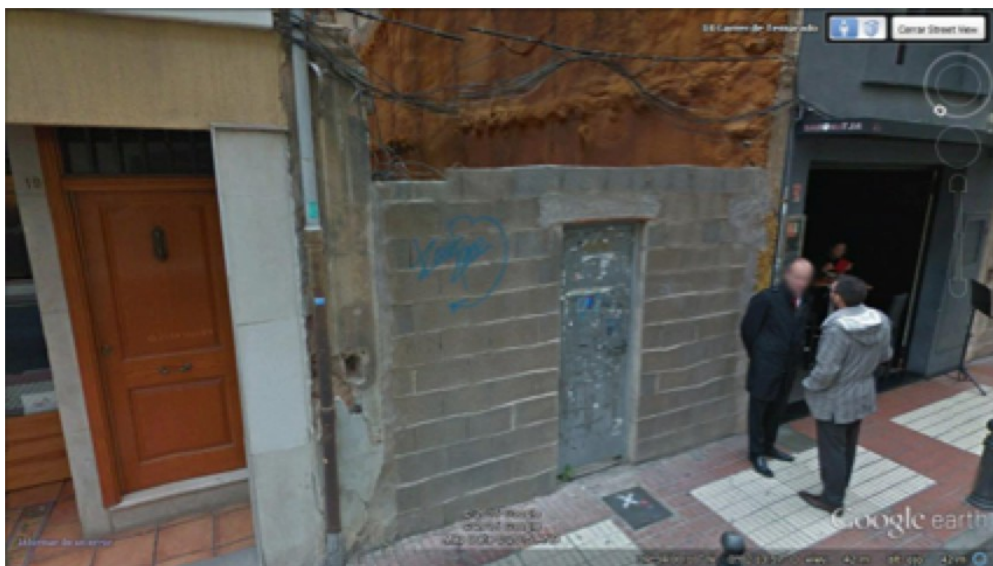
## SOLUTION 2. RECONVERT OUTDOOR CITY CENTER ABANDONED PARCELS IN PARKING PLACES



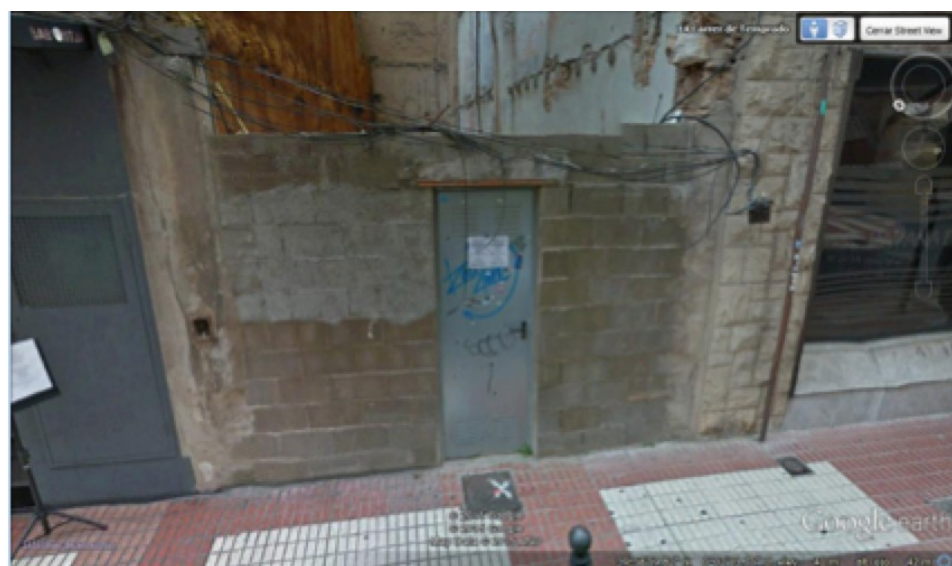
Trinidad Street num 71.- Capacity for several locations and very close to the center.



## SOLUTION 2. RECONVERT OUTDOOR CITY CENTER ABANDONED PARCELS IN PARKING PLACES



· Templado Street num 21.- Only for one parking space. Located at 75 m. from Plaza de la Paz



Templado Street num 25.- Only for one parking space. Located at 75 m. from Plaza de la Paz

## SOLUTION 2. RECONVERT OUTDOOR CITY CENTER ABANDONED PARCELS IN PARKING PLACES



- Mayor Street num. 116 and 114.- Close to Maria Agustina Square and in front of Province Council. Capacity for two parking spaces.

## **BUSINESS CASE (TO BE DONE):**

### **SOLUTION 1:**

- Identify cost of sensors (e.g. <http://www.equinsaparking.com/>) and customization to include bluetooth receiver and firmware
- Evaluate cost of Smartphone app to connect with Sensor
- Identify cost of Free spaces Panel (e.g. <http://www.parkaregroup.com/>)
- Calculate total cost per disabled people space.
- Design business model for reduced ROI

### **SOLUTION 2:**

- Negotiation with owner of abandoned parcel (private or city council)
- Design business model for owner of abandoned parcel for reduced ROI
- Treatment for compacting soil without paving (e.g. <http://www.proambia.com/>, 5€/m<sup>2</sup>)