DESTI-SMART
Interreg Europe

European Union
European Regional
Development Fund

Experience, good practices , innovations and plans/priorities on accessible tourism and accessibility for visitors Regione Sardegna

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REGIONE AUTÒNOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA

The point

https://www.sardegnaturismo.it/en/plan/disabled-travellers

SIMPLE TECHNOLOGIES FOR MOBILITY

ACCESSIBILITY

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WHAT IS ACCESSIBILITY ?

In transport planning, one of the definitions of accessibility is the ability of reaching and interacting with places and activities distributed in space

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HOW **DID** WE IMPROVE ACCESSIBILITY?

❖ individual property of vehicles
❖ clear differentiation in the transport alternatives
❖ mono-modality from origin to destination

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HOW DO WE IMPROVE ACCESSIBILITY?

Thanks to Information and Communication Technologies (ICT), transport operators are and will be able to improve accessibility by shaping new transport alternatives, all gathered in the MaaS ideal
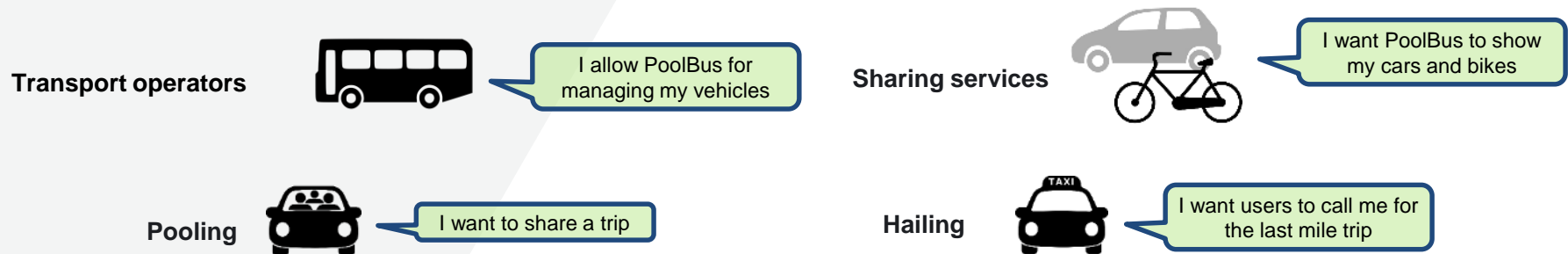
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MOBILITY AS A SERVICE

*Transport is no longer organised around private vehicles, but around the idea of **accessibility** towards **services:***

❖ *accessibility as **information***
❖ *accessibility as **multi-modality***
❖ *accessibility as **e-ticketing***

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T H E   P O O L B U S   A P P

The SIMPLE project believes in granting accessibility for all types of users, especially the ones living in rural and low demand areas that feel disconnected and disadvantaged, thanks to the realization of a **platform** able to gather and organize **on-demand transport alternatives** by different transport operators. Users are able to make a reservation, receive travel personalized plans and paying a single ticket for their multi-modal trip by only using the PoolBus platform.

Transport operators
I allow PoolBus for managing my vehicles

Sharing services
I want PoolBus to show my cars and bikes

Pooling
I want to share a trip

Hailing
I want users to call me for the last mile trip

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THE POOLBUS APP

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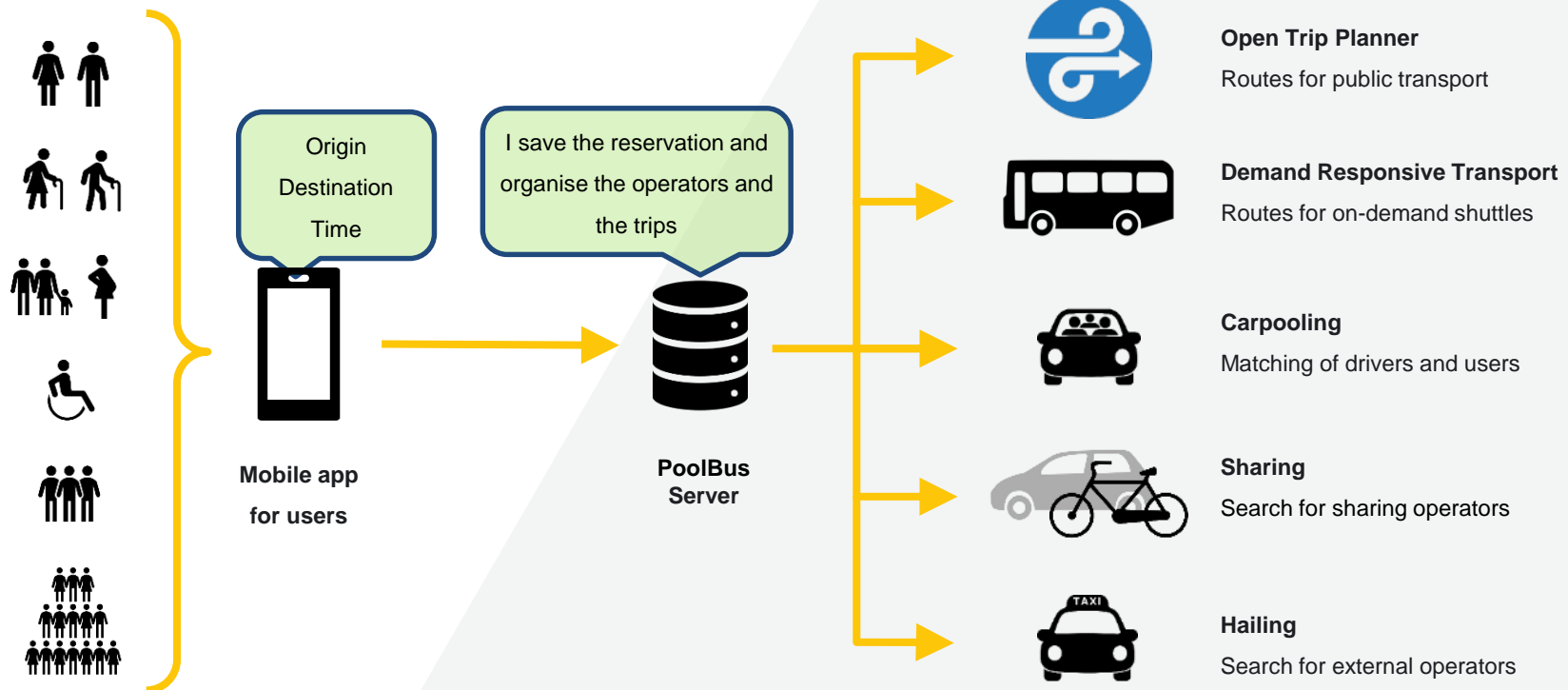
T H E   B E E P 4 M E   A P P

The main aim of the app is to bring more people to use **sustainable transport**, performing automatic validation operations.

Automatic validation of tickets, greatly simplifying the user experience and the use of integrated mobility.

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THE BEEP4ME APP

VALIDATION OPTION

The most used schemes of actions performed by users when entering or leaving a means of transport are:

- ➤ **Check-In (CI)**, the user only acts when he goes up;
- ➤ **Check-In Check-Out (CICO)**, the user has to act both when boarding and when alighting
- ➤ **Check-In Be-Out (CIBO)**: the users only have to act when boarding, alighting is automatically detected by the system
- ➤ **Be-In Be-Out (BIBO)**, the presence of the user is detected automatically both while boarding and when leaving, requiring no action whatsoever

The BIBO scheme + e-ticketing enable **hands-free** and transparent use of public transport

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A C C E S S I B I L I T Y

Bluetooth

GPS

Accelerometer

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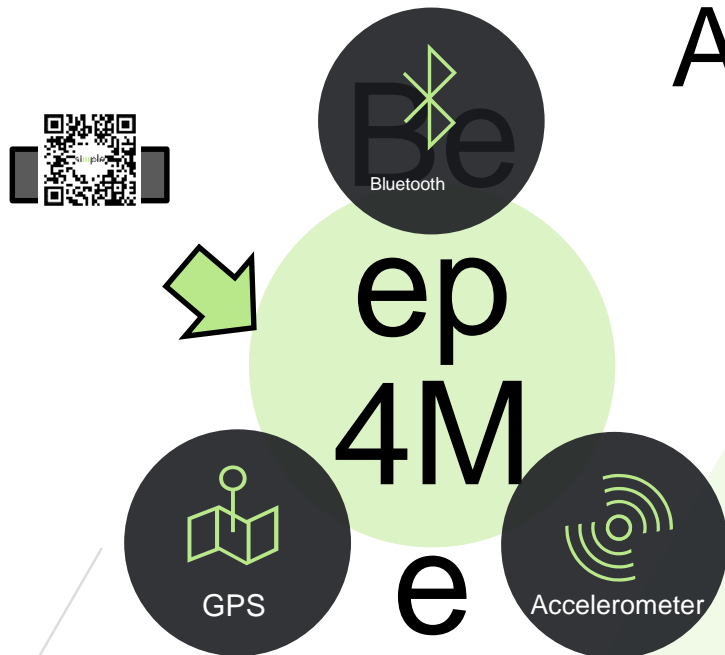
The new ticketing system extends existing ones, allowing travel tickets to be validated with new methods by means various technologies:
Bluetooth – enable to detect when user enters/leaving a BLE beacons powered bus
Position (GPS) – enable to know when a user enters/leaving a stop and follows a bus route
Accelerometer – enable to detect when user is walking or is on a motor vehicle

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https://www.blueupbeacons.com

B L E   B E A C O N S

A BLE beacon (Bluetooth Low Energy) is a device which transmitted signal enable receiving device to activate certain services.

Each BLE beacon as a beacon region covered by its signal.

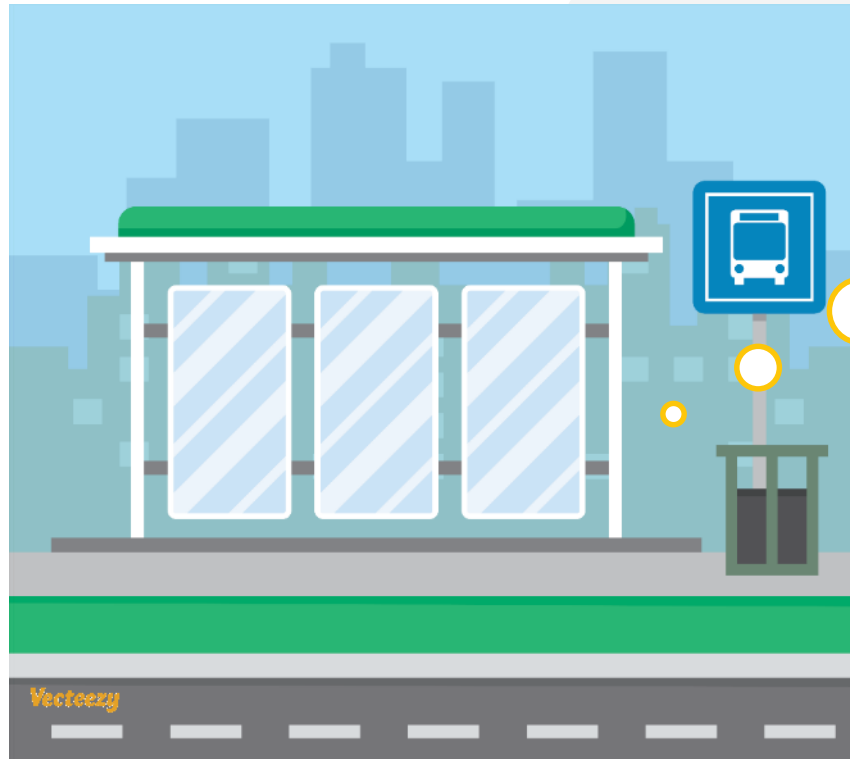Beacon regions inside the bus are detected by users smartphones.

Check-in and Check-out operations are automatically performed **as a service**

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ENTERING THE BUS

!

CHECK IN

PERFORMED
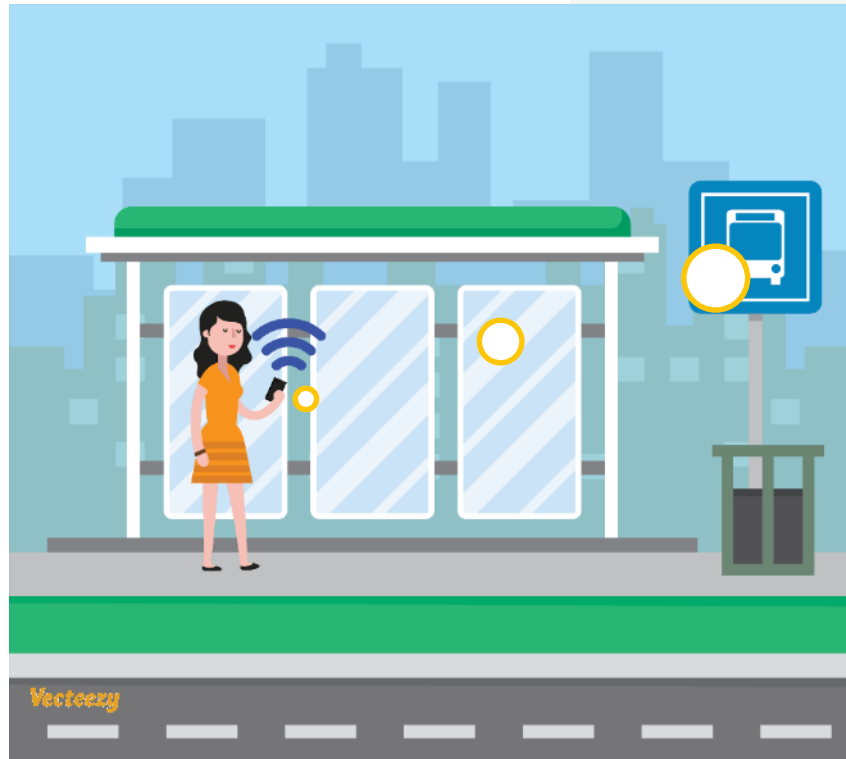
The user turns on bluetooth and arrives at the stop

The bus arrives at the stop and the user enters the bus

Beep4Me detects BLE beacons and performs a check-in

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L E A V I N G   T H E   B U S

!

CHECK OUT

PERFORMED

The bus arrives at the stop

The user exits from the bus and the bus leaves the stop

Beep4Me detects that bus moving away and performs a check-out

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TeseoApp from GreenShare

App that allows to plan an intermodal travel and navigate through the lines and time tables of several means of transport for the whole Sardinia.

The application also allows to calculate the route to arrive on time at your destination and purchase tickets and passes.
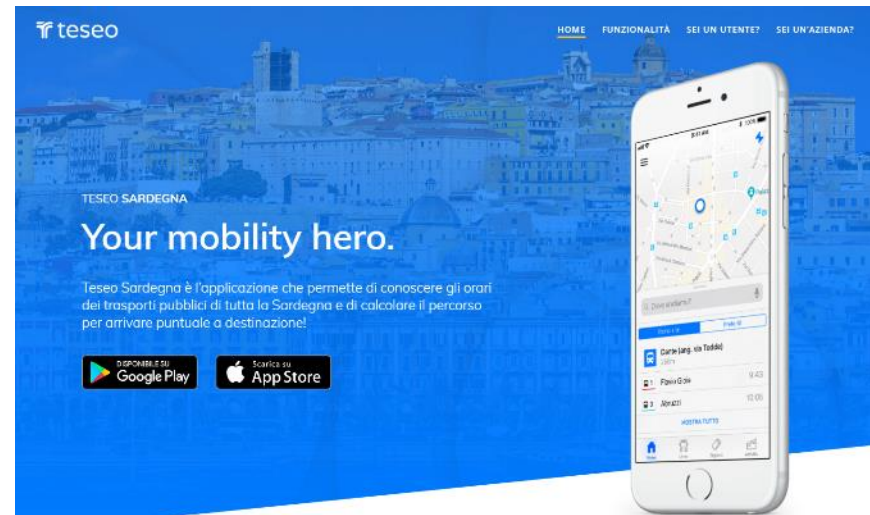
AMICO BUS service (CTM+RAS)

"door-to-door" on-call service, funded by the Autonomous Region of Sardinia, proposed as an integration tool to the ordinary public transport offer. The service is dedicated to those who, due to disability problems, do not use the scheduled public transport service and provides for the presence of a board of means of assistance staff.

http://www.ctmcagliari.it/bus_a_chiamata.php

CTM bus stops coding

Currently in progress, adaptation of the network bus stops to facilitate access to company vehicles for people with disabilities

FERMATA IDONEA ALL'USO DELLA PEDANA MANUALE
SALITA E DISCESA DALL'AUTOBUS ANCHE SENZA ACCOMPAGNATORE

enabled to use the manual platform for getting on and off the bus even without a companion

FERMATA IDONEA ALL'USO DELLA PEDANA MANUALE
SALITA E DISCESA DAL BUS CON L'AIUTO DELL'ACCOMPAGNATORE

enabled to use the manual platform for getting on and off the bus only with the help of the attendant.

Thank you!

Questions welcome

Projects media