CISMOB

Interreg Europe

European Union
European Regional
Development Fund

CISMOB

Cooperative information platform for low carbon and sustainable mobility – Pilot action on Real time Information for public Transport

Aveiro

Jorge Bandeira

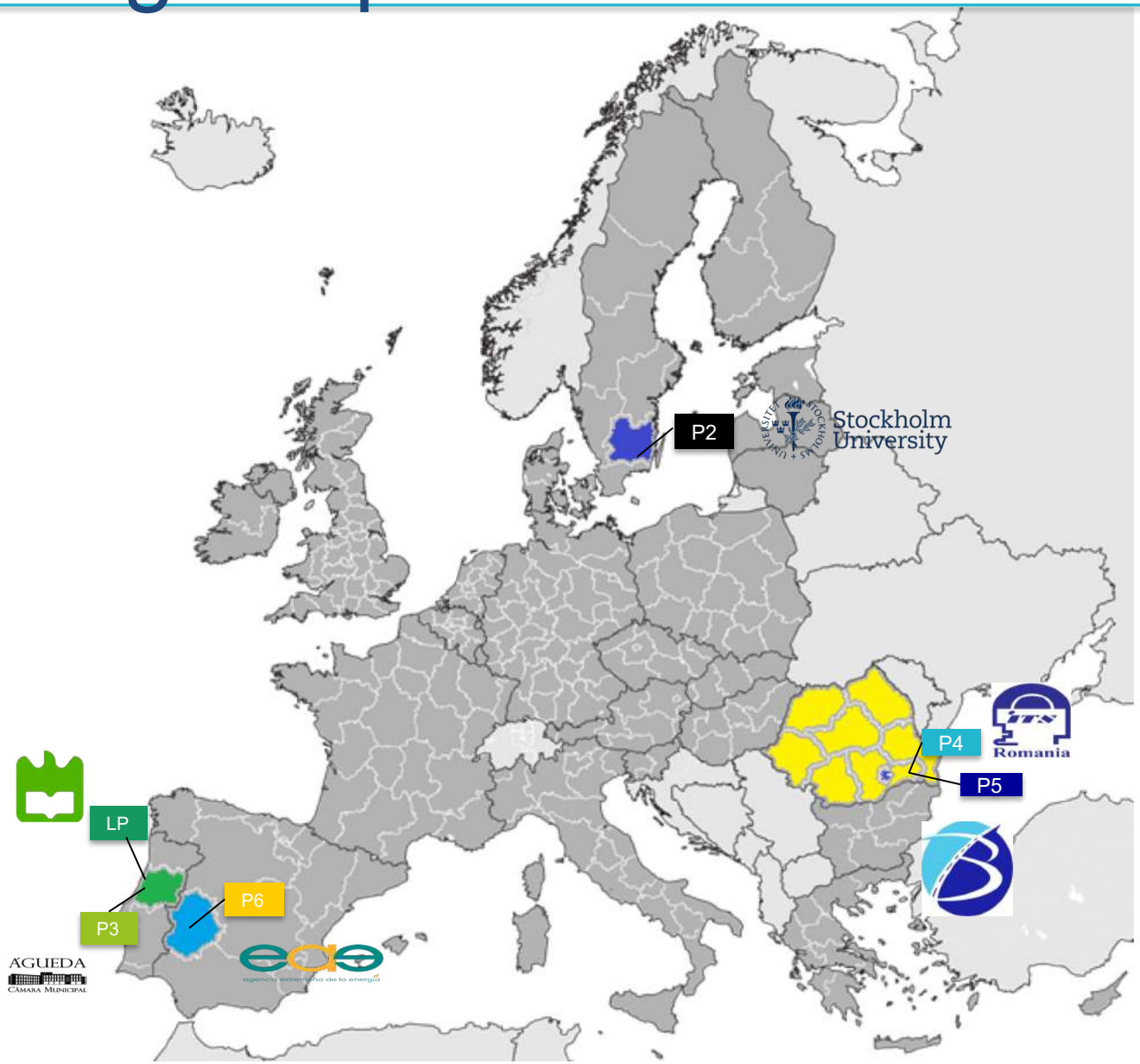
universidade de aveiro

Main vision

Improving policy instruments to take advantage of new ICT, digital and interoperable platforms to increase the efficiency in the use of transport networks.

Learning with good practices

Emissions from road traffic cost > **4 445 MEUR/year to CISMOB region's economy.**

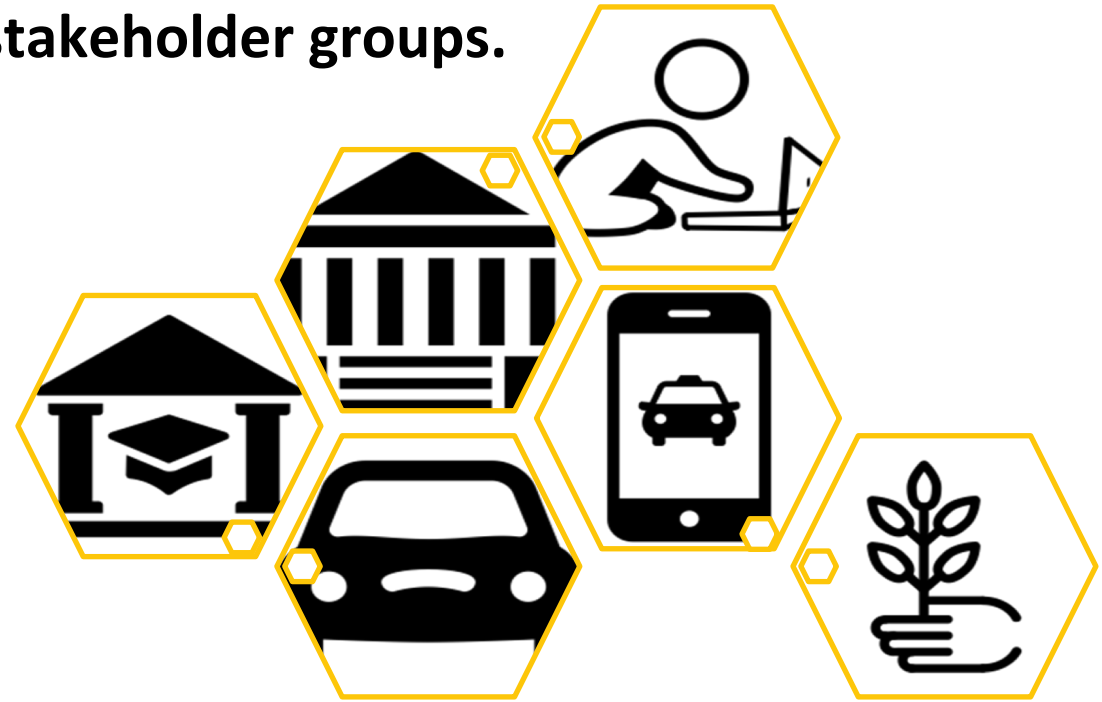


30 Exchange of experience events

CISMOB
Interreg Europe

+ 1000 participants

+ 75 institutions (universities, industry, ICT companies, transport operators, SMEs, local and regional managing authorities, environmental associations) regularly participated in **regional stakeholder groups.**



First pilot action approved by the JTS

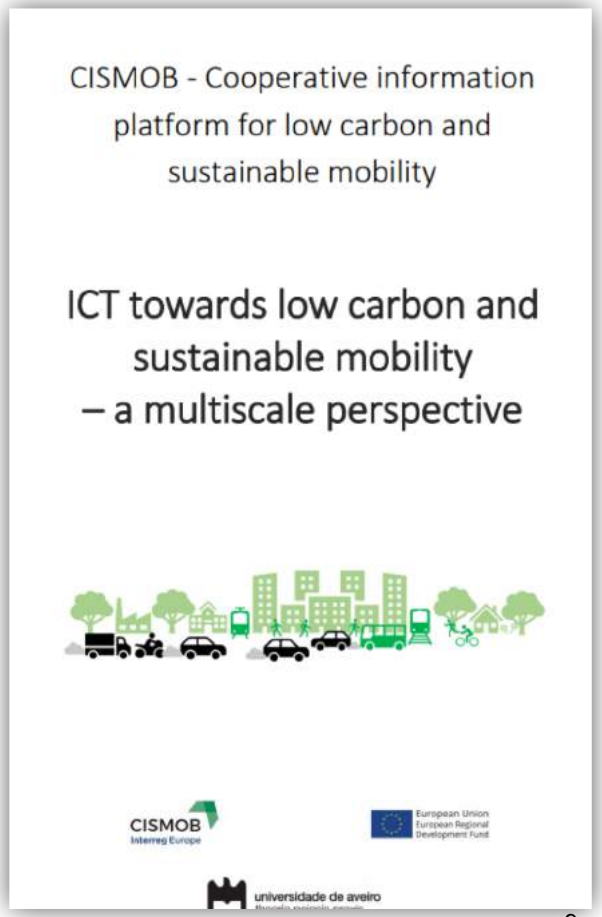
Nominee

PROMOTING DIGITAL TRANSFORMATION
Category
1
REGIOSTARS
2019
1011
European Commission
Regional and Urban Policy

9 Technical papers

1 Baseline Assessment Report

1 Agenda



Policy improvement 4 Action plans

Policy instruments

CISMOB
Interreg Europe

universidade de aveiro

1 OP CENTRO 2020

European Union
European Regional Development Fund

ÁGUEDA
CÂMARA MUNICIPAL

2 Sustainable Mobility Strategy for the Municipality of Águeda

ITS Romania

3 Romania Operational Program 2020

European Union
European Regional Development Fund

eae agencia extremeña de la energía

4 Extremadura Operational Program 2020

European Union
European Regional Development Fund

Territorial impact

EXTREMADURA (1,078 million)

CENTRO 2,3 million

STOCKHOLM (AP)

AGUEDA

ROMANIA (19.6 million inhabitants)

BUCHAREST

CISMOB
Interreg Europe

European Union
European Regional
Development Fund

Thank you

Jorge Bandeira
Margarida Coelho
Carlos Borrego
João Paulo Barraca
José Paulo Santos
Nélia Silva

Eloísa Macedo
Carlos Sampaio
João Paulo Teixeira
João Alegria
Laura Silva
Bárbara Jael
Pavlos Tafidis
Smriti Dutta

Cecília Estevão
Carla Carapinheira
Luísa Sal

Tânia Barbosa
Cátia Pôncio
Cecília Marques
Maria Relvas

Project smedia

CISMOB

Interreg Europe

European Union
European Regional
Development Fund

CISMOB

Cooperative information platform for low carbon and sustainable mobility – Policy improvement **CENTRO REGION**

Jorge Bandeira

universidade de aveiro

Background

Population: 2,3 M

Area (28 405 km²) – 31/% PT

Density (75 inhab/km2)

SUMP NUT III

Polycentric urban structure

Private car used in 70% of commuting trips (62% Portugal)

Strengths

Road network

Bike sharing (plans)

New transport on demand

Good **primary** rail connections

SUMPs

Research units

Bicycle industry cluster

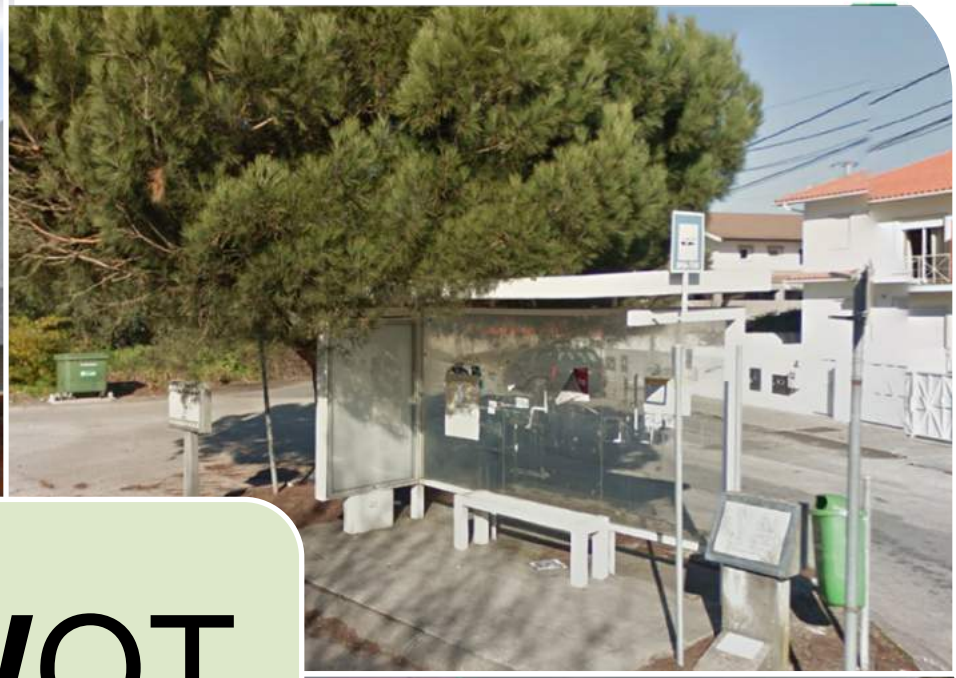
SWOT

Opportunities

- High Potential for modal transfer
- High qualified staff research Institutions (urban planning, transport and environment, ICT)
- Regional Policy Framework committed to CO2 reduction

SWOT

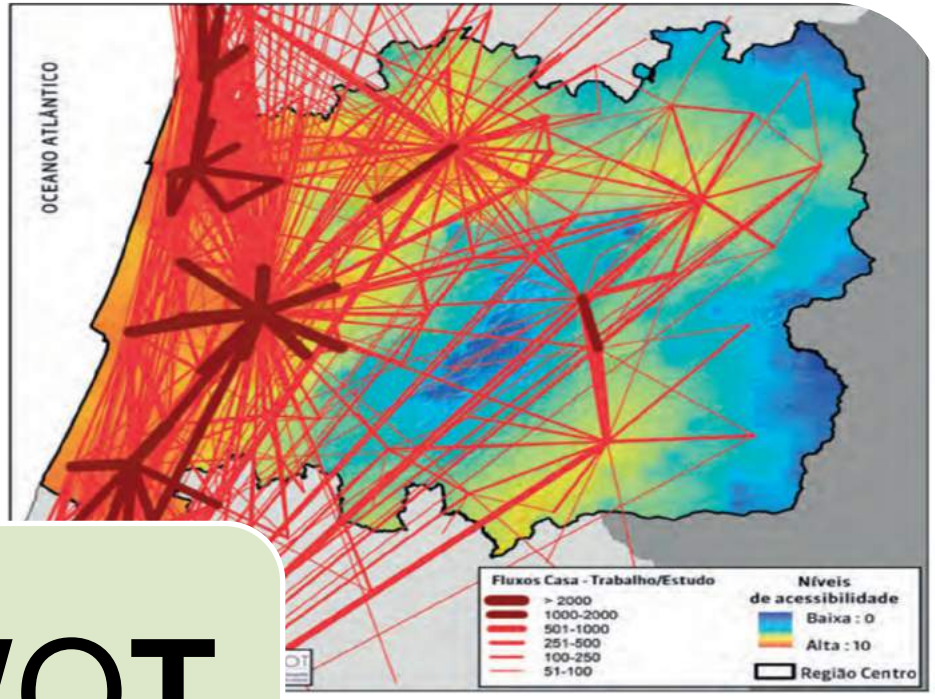
CENTRO 2020



SWOT

Weakness

- Urban sprawl – Poor urban planning in suburban areas
- Lack of intermodal physical and soft platforms, Integrated ticket systems
- Inefficient road pricing schemes
- Road safety



SWOT

Threats

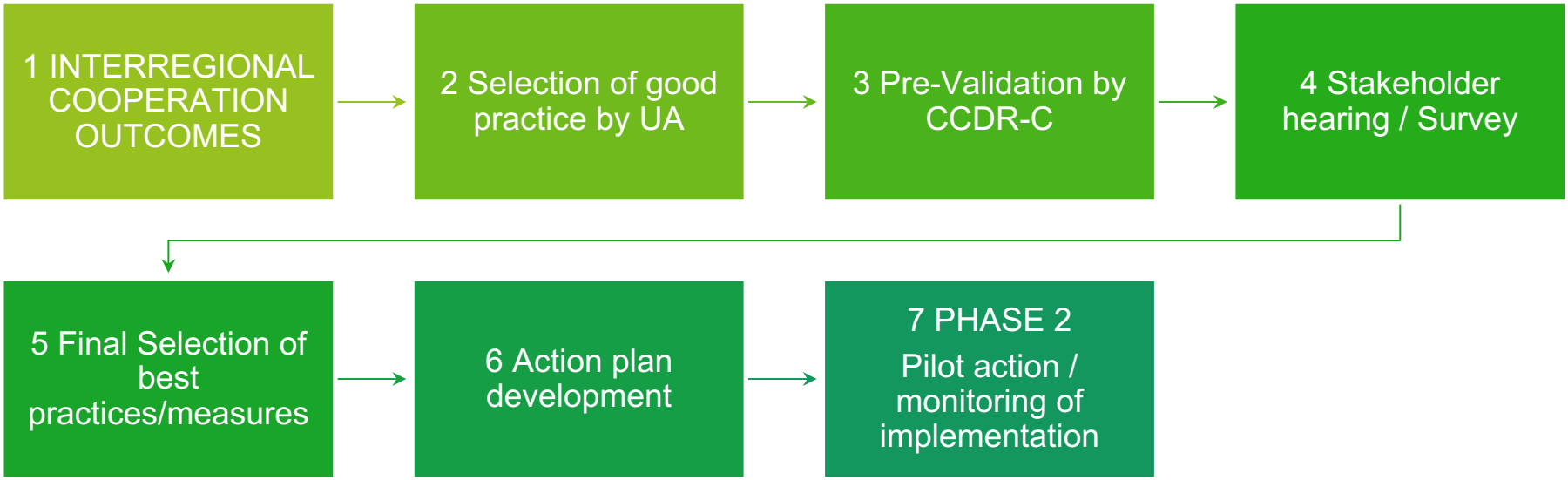
Critical thinking / Population ageing in several areas,

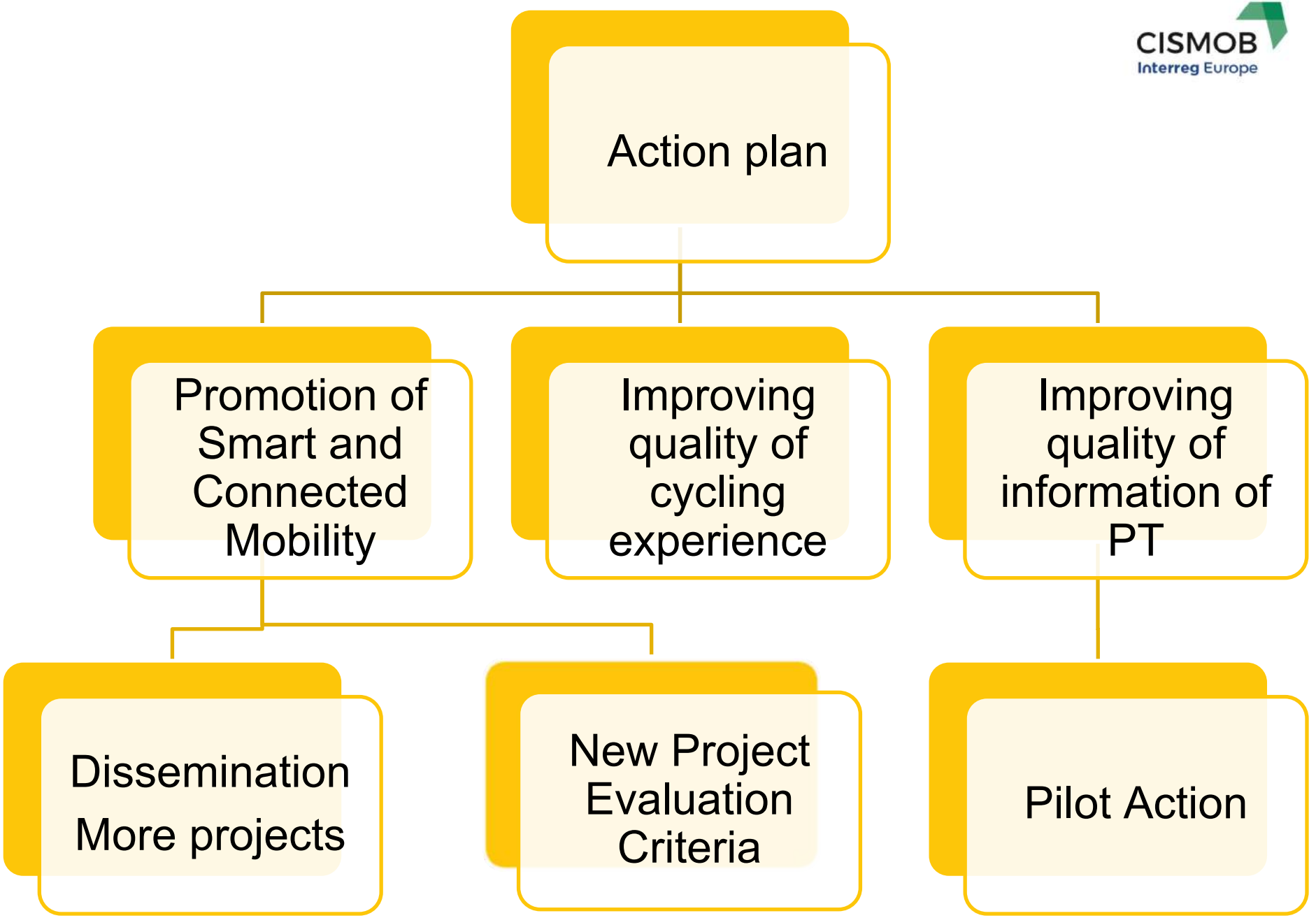
Territorial dispersion - Low density - desertification

Lack of integrated regional planning

New potential mesures for AP

CISMOB regional process for selection new areas to be included in OP CENTRO 2020.



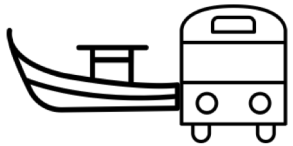

Action plan
Promotion of Smart and Connected Mobility
Improving quality of cycling experience
Improving quality of information of PT
Dissemination
More projects
New Project Evaluation Criteria
Pilot Action

Better management

- Prioritizing the investments that use road accident data to support route cycle lanes,

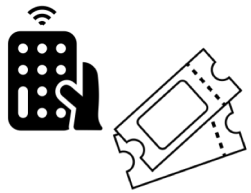
- Adjust the criteria for the relative reduction of carbon emissions,

- Include “**other modes of transport”** besides road and rail on intermodal communication platforms,



- New criteria to award projects that include open data platforms and real-time information systems,

- Include an evaluation bonus for projects involving senior **citizen assistive technology**, including service alerts and information for vulnerable users, simplified and/or passive ticketing systems.



CISMOB
Interreg Europe

European Union
European Regional
Development Fund

Pilot action
Real time info in PT

Stockholm University

universidade de aveiro

Jorge Bandeira
Eloísa Macedo
Carlos Sampaio
João Paulo Teixeira
João Paulo Barraca
Bárbara Jael
João Alegria
Myrsini Glinos

penacova MUNICIPIO
CANTANHEDE MUNICÍPIO
CIM RC COMUNIDADE INTERMUNICIPAL REGIÃO DE COIMBRA
transdev the mobility company

Project smedia

Good practices

CISMOB
Interreg Europe

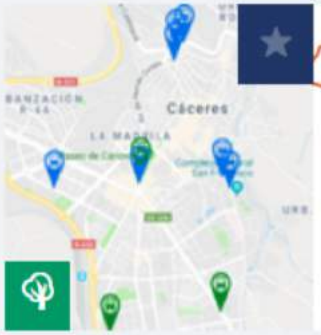
Trafiklab - Together we create the future of public transport

08/02/2018

Trafiklab is a community for open traffic data, mad...

Location: Mellersta Norrland, Sweden (Sverige)

Bringing innovation to market, Innovation in sector (transport), Entrepreneurship



Opendata Cáceres

08/06/2018

Open data platform about public transportation se...

Location: Extremadura, Spain (España)

open data, Transport, Open...

Timisoara Public Transport Management System - PTMS

04/04/2018

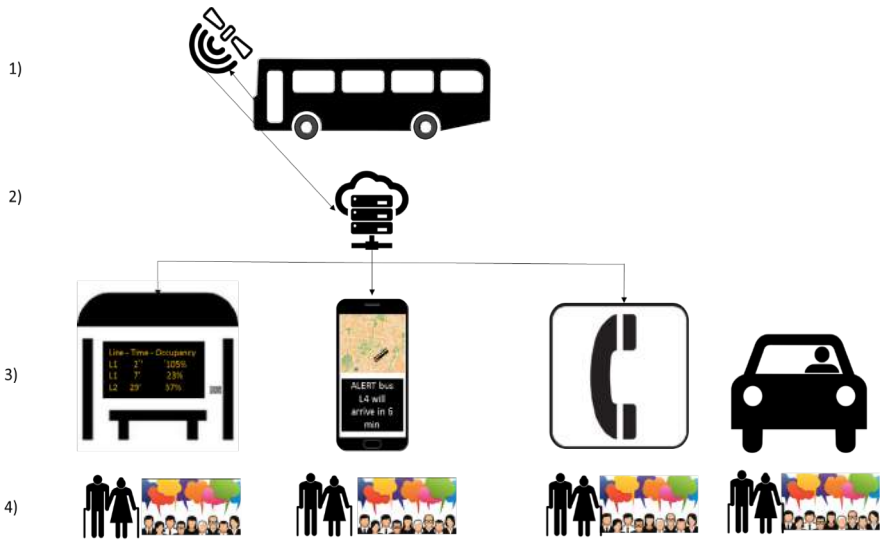
RATT manages an integrated PTM system for its fle...

Location: Vest, Romania (România)

e-ticketing, public transport management, traveller information,

Designing a pilot action

Objective: Improve the implementation of inspiring GPs, considering the demographic and socioeconomic contexts of the Centro Region



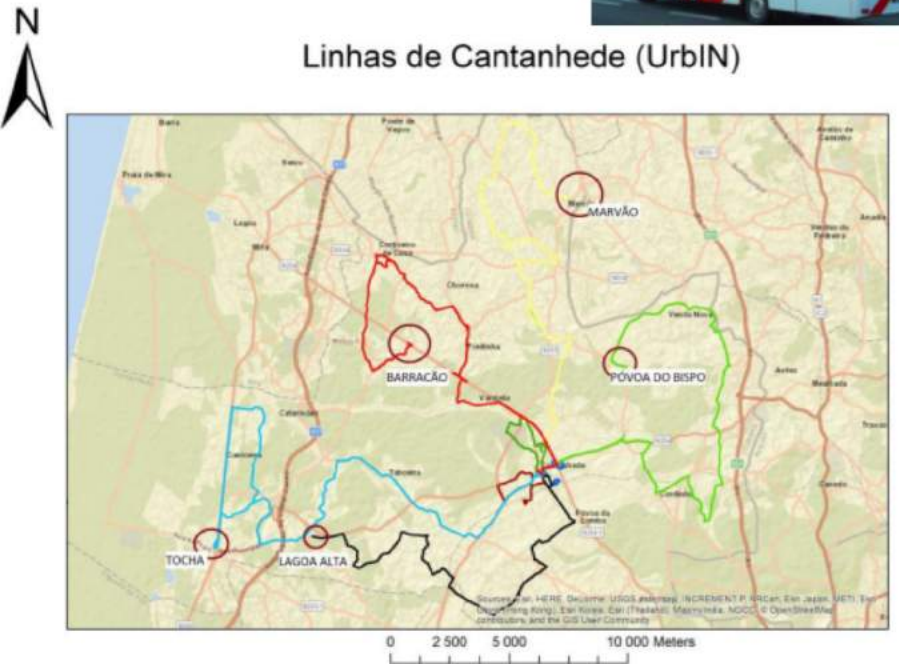
Expected impacts:

- **Better governance ➡ new evaluation criteria**
- **Societal impacts ➡ new ICT solutions positively evaluated by citizens,**
- **Higher visibility of the project,**
- **Higher interest of regional players in replicating related GPs ➡ + projects.**

Pilot case studies

CANTANHEDE
OPERATOR URBIN
1 BUS
8 LINES
10 000 passengers per year

Linhas de Cantanhede (UrbIN)



COIMBRA PARADELA PENACOVA
5 BUSES
1 LINE
100 000 passengers per year

STATED PREFERENCE SURVEY

OBJECTIVE

to evaluate which information platforms and types of information on public transport are preferable among different segments of the population

UNIVERSE

~ 700 respondents both online and in person

STRUCTURE

- socio-economic information

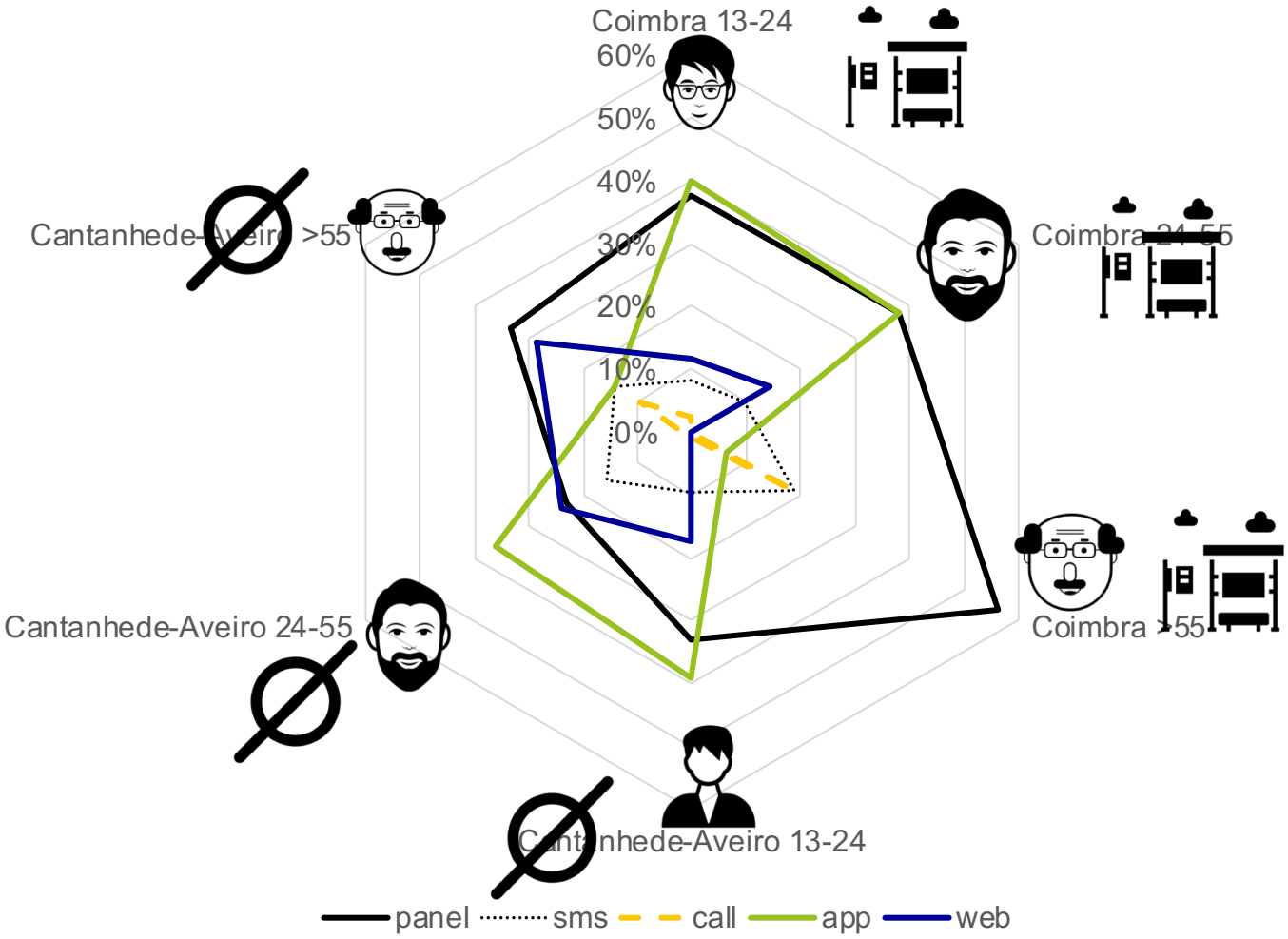
- current travel behavior (location of daily trips, transport mode)

- diagnostic information

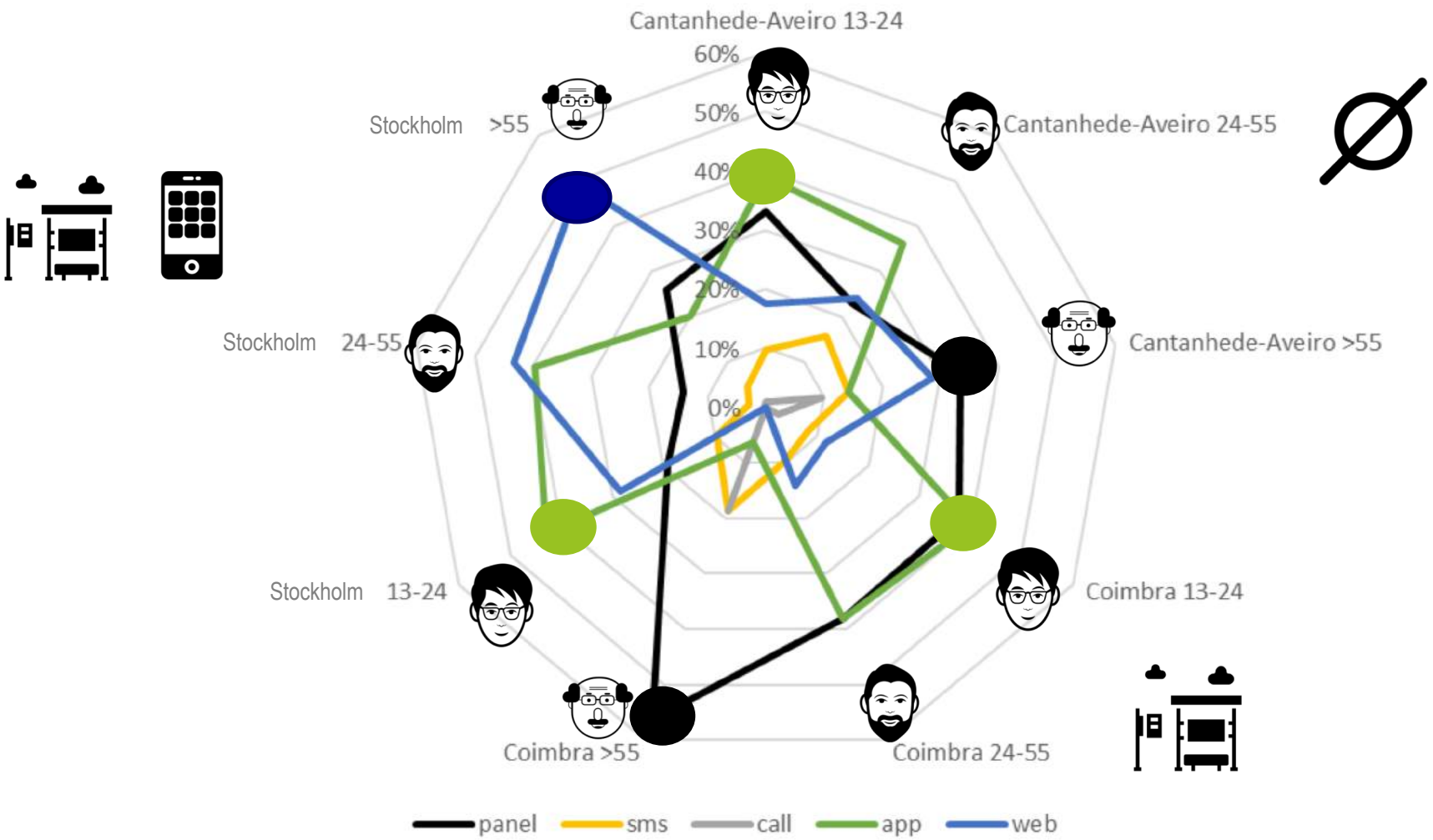
TARGET

Citizens from Stockholm and Centro Region (Aveiro, Cantanhede, Penacova and Coimbra)

Stated preference Survey



Stated preference Survey



E-solar paper

Cantanhede Centro

Coimbra - Paradela

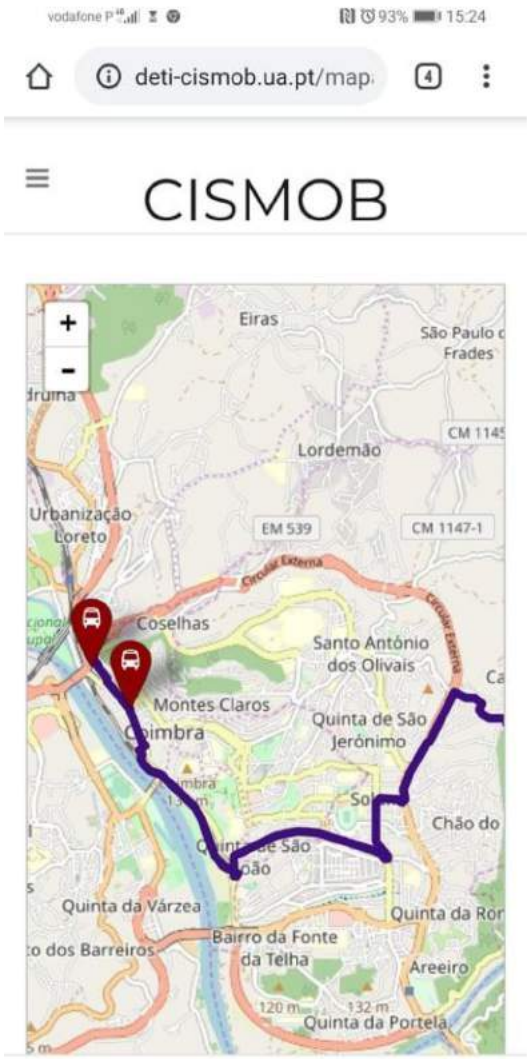
Coimbra

Roxo, 532 m

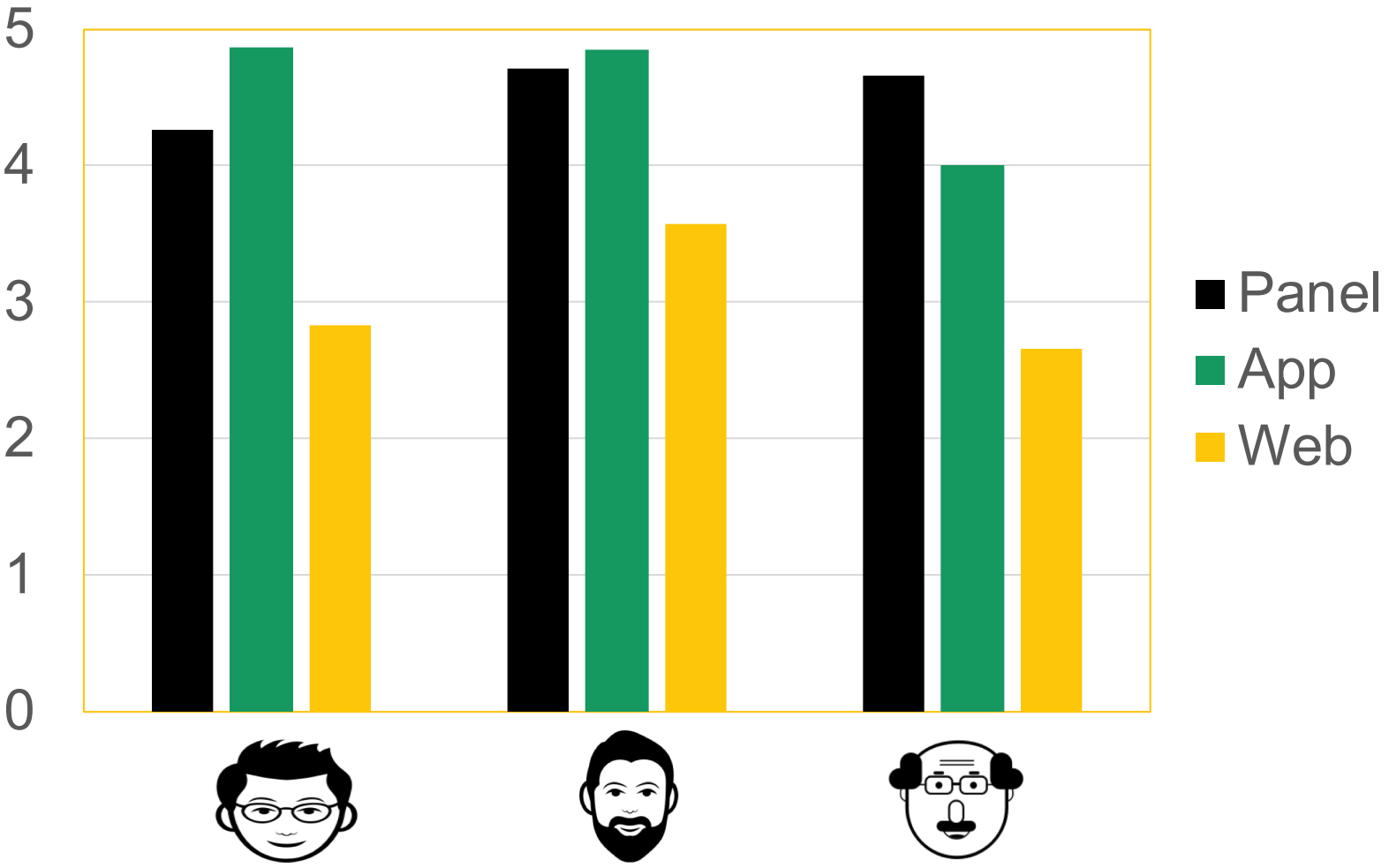
CISMOB
Interreg Europe

Roxo, Lorvão Municipality of Penacova

App and Desktop

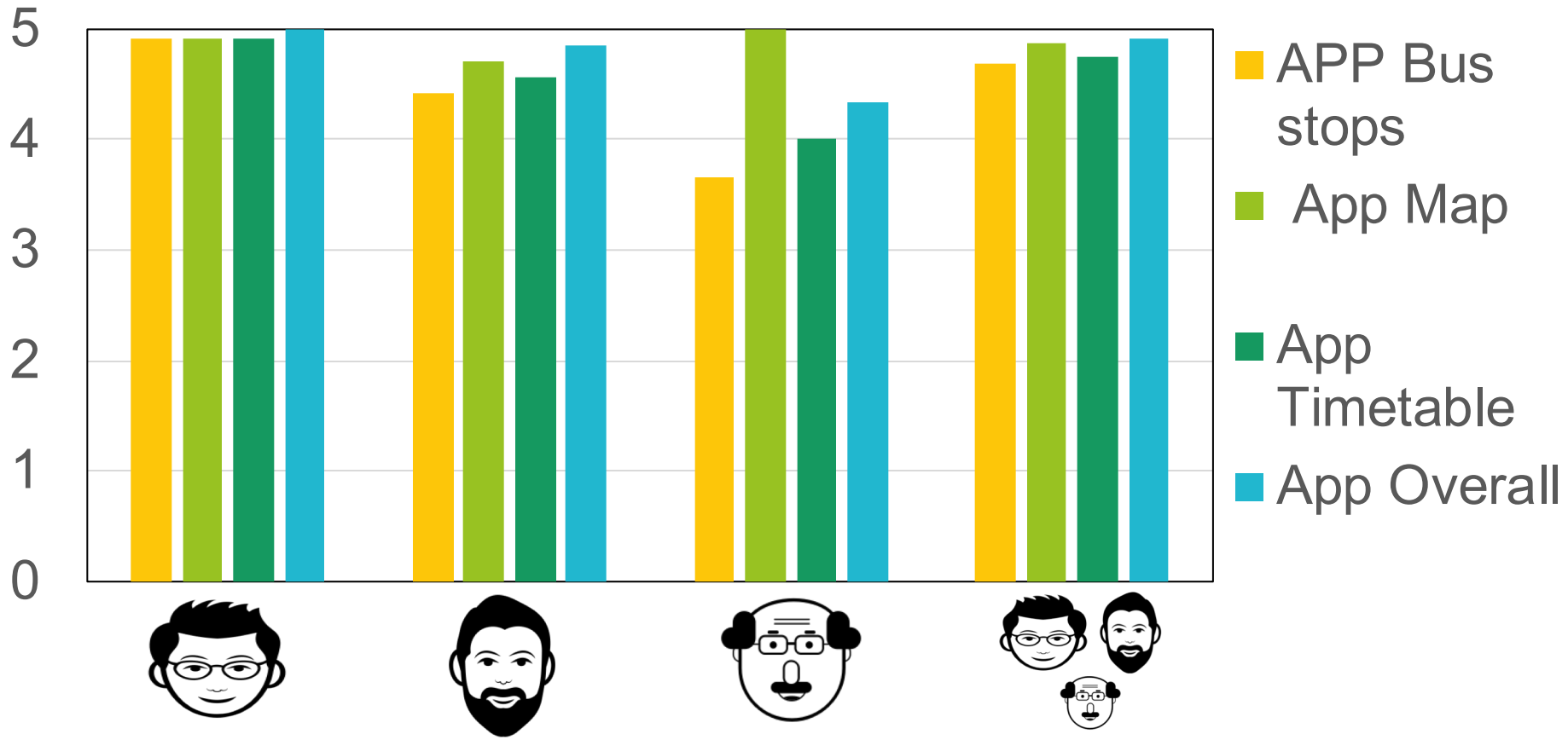


Revealed preference survey



Usefulness of information systems

Revealed preference survey



Usefulness of APP features

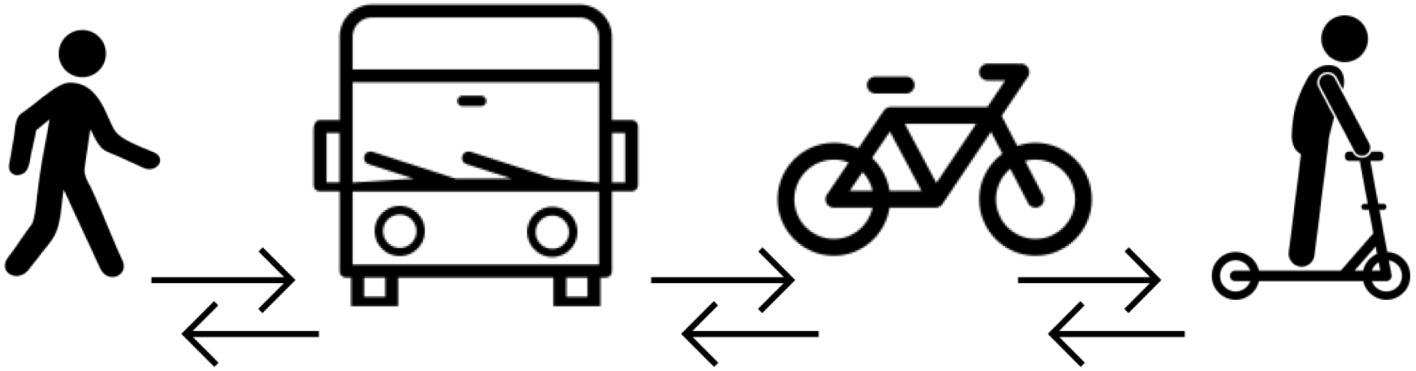
Preliminary conclusions

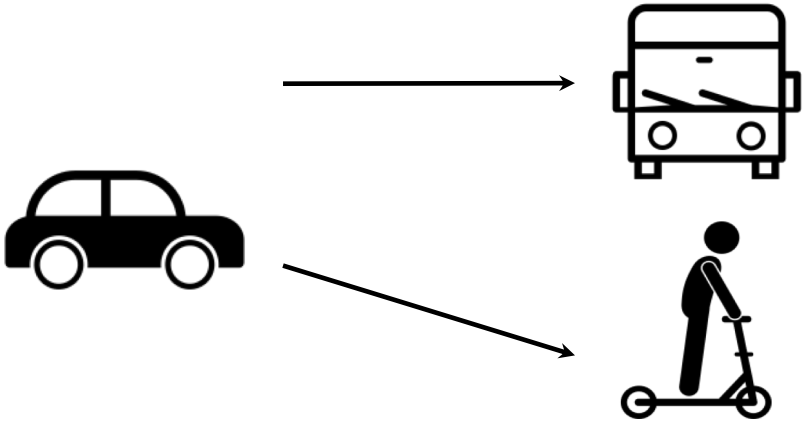
- **Smartphone dissemination is the most voted solution by people from 17 to 55 in Portugal and high qualification levels**
- **Panels in bus stops are the second most appreciated solution by people until 55 and the most appreciated by people over 55**
- **Web-desktop solutions are well appreciated in locations where this kind of information is available (Stockholm) 35-55**
- **Clear rules need to be laid down in the specifications of PT tendering**
- **standard formats and data (timetables, position etc)**
- **all fleet with GNSS devices**

Cooperation works!

Need to adapt technology to local socio-economic context

Unrealistic targets = unrealistic assumptions = real disappointment





CISMOB
Interreg Europe

“Fancy” policies on smart cities/digitalization/ICT must be consistent with policies to discourage the use of individual transport

CISMOB
Interreg Europe

European Union
European Regional
Development Fund

Thank you

jorgebandeira@ua.pt

Project smedia