Outline

- **INTERREG EUROPE**
- **CISMOB objectives and main vision**
- **Policy Instruments**
- **Centro Region**
    - **Background**
    - **Suggested measures to stakeholders**
    - **Topics for further discussion**
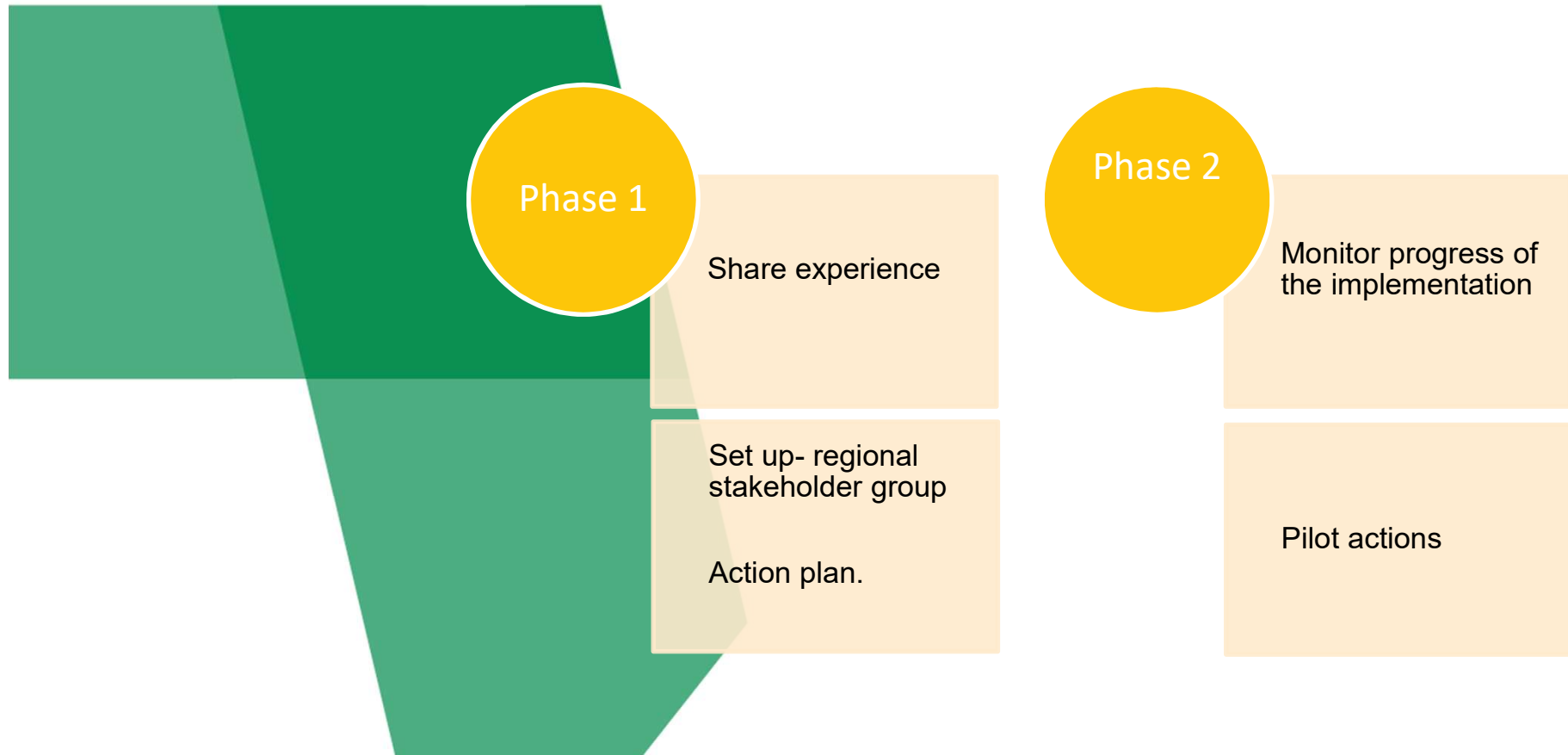
What is Interreg Europe?

European program to help regional and local governments to develop and deliver better policy.

To ensure that government investment, and implementation efforts => integrated and sustainable impact for people and place.

Cooperation

Collaboration

Community Engagement

Policy Change

Critical Thinking

Collective learning

Inter-regional co-operation

Phase 1

Share experience

Set up- regional stakeholder group

Action plan.

Phase 2

Monitor progress of the implementation

Pilot actions

€1,044,774.00

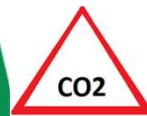from **1 Apr 2016**
to **31 Mar 2020**

TOPIC
Low-carbon economy

Phase 1: April 2016 – March 2018
Phase 2: April 2018 – March 2020
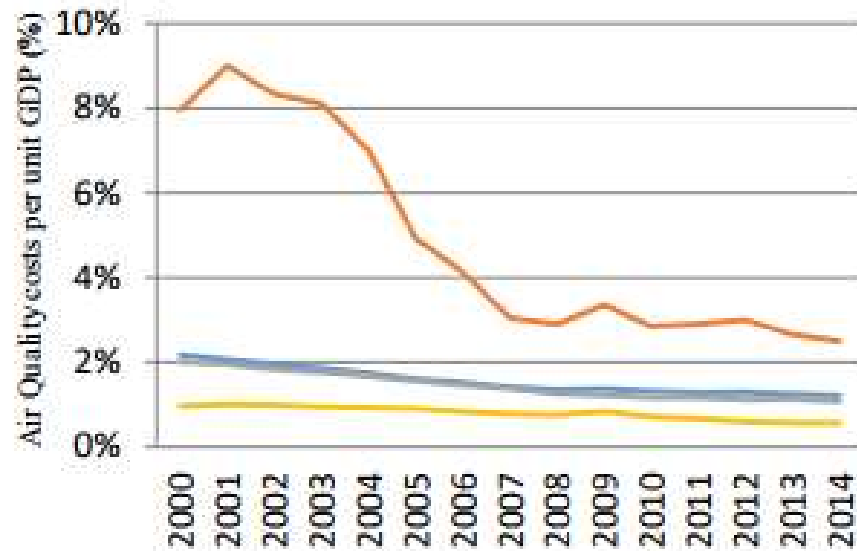
General statement of the problem
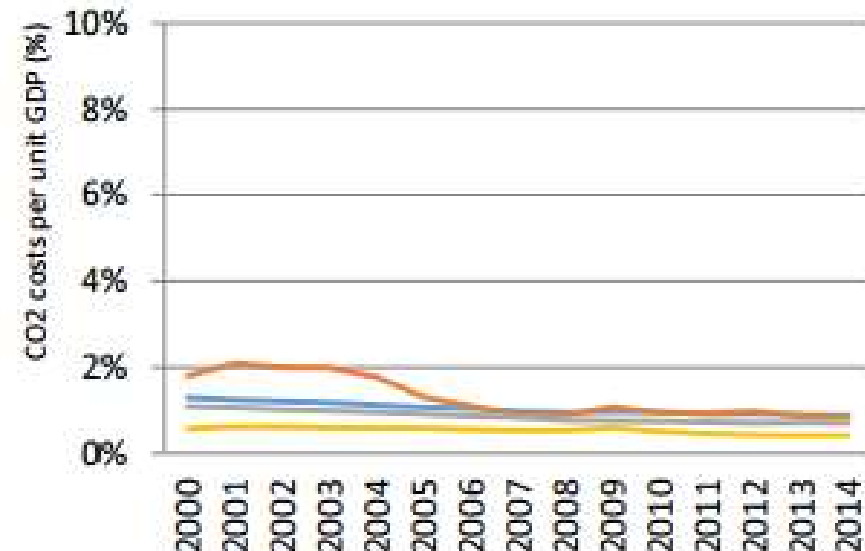

Congestion costs Europe about 1% of GDP;

More than 2/3 of transport-related GHG are from road transport;

a Total air pollution costs

b CO2 emission costs

Portugal   Romania
Spain   Sweden

Opportunity: ICT applications

CISMOB
Interreg Europe

Monitor

Evaluate

Inform

Manage

Gathering / presenting information on traffic state

Measure and visualise vehicle usage

Environmental impacts in real time

Vulnerable zones

Congestion / Pollution hotspots

Smart navigation apps

EV Charging spots

Smart VMS

Road pricing

Multi modal info

Integrated ticket systems

Smart traffic lights

C-ITS

Main vision

To increase the sustainability by improving the efficiency in the use of urban transport infrastructure through ICT.

Consortium

LP — universidade de aveiro

P2 — Stockholm University

P3 — ÁGUEDA CÂMARA MUNICIPAL

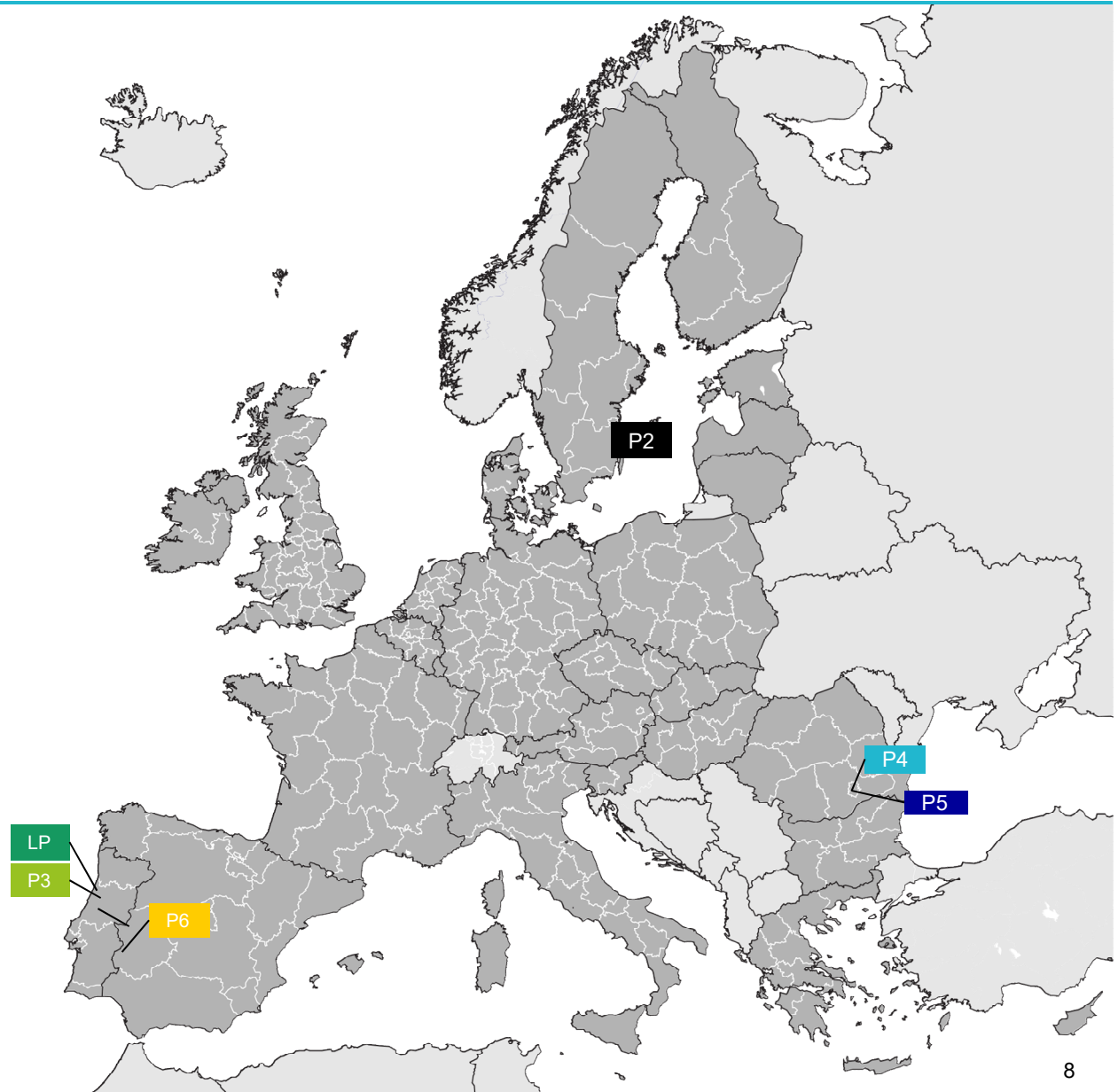P4 — ITS Romania

P5 — AMTB

P6 — eae agencia extremeña de la energía

Achieving policy change

3 Thematic seminars
3 Building capacity workshops
12 Staff Exchange program
12 Regional Stakeholder meetings

- **Baseline Assessment Report**
- **12 Technical papers**
- **AGENDA "ICT towards low carbon and sustainable mobility a multiscale perspective"**
- **Best practice database**
- **5 Action plans**

Policy Change

Policy Instruments (PI PI2)

PI1: **Operational Programme for the Centro Region – Centro 2020**

European Union
European Regional
Development Fund

PI2: **Sustainable Mobility Strategy for the Municipality of Águeda**
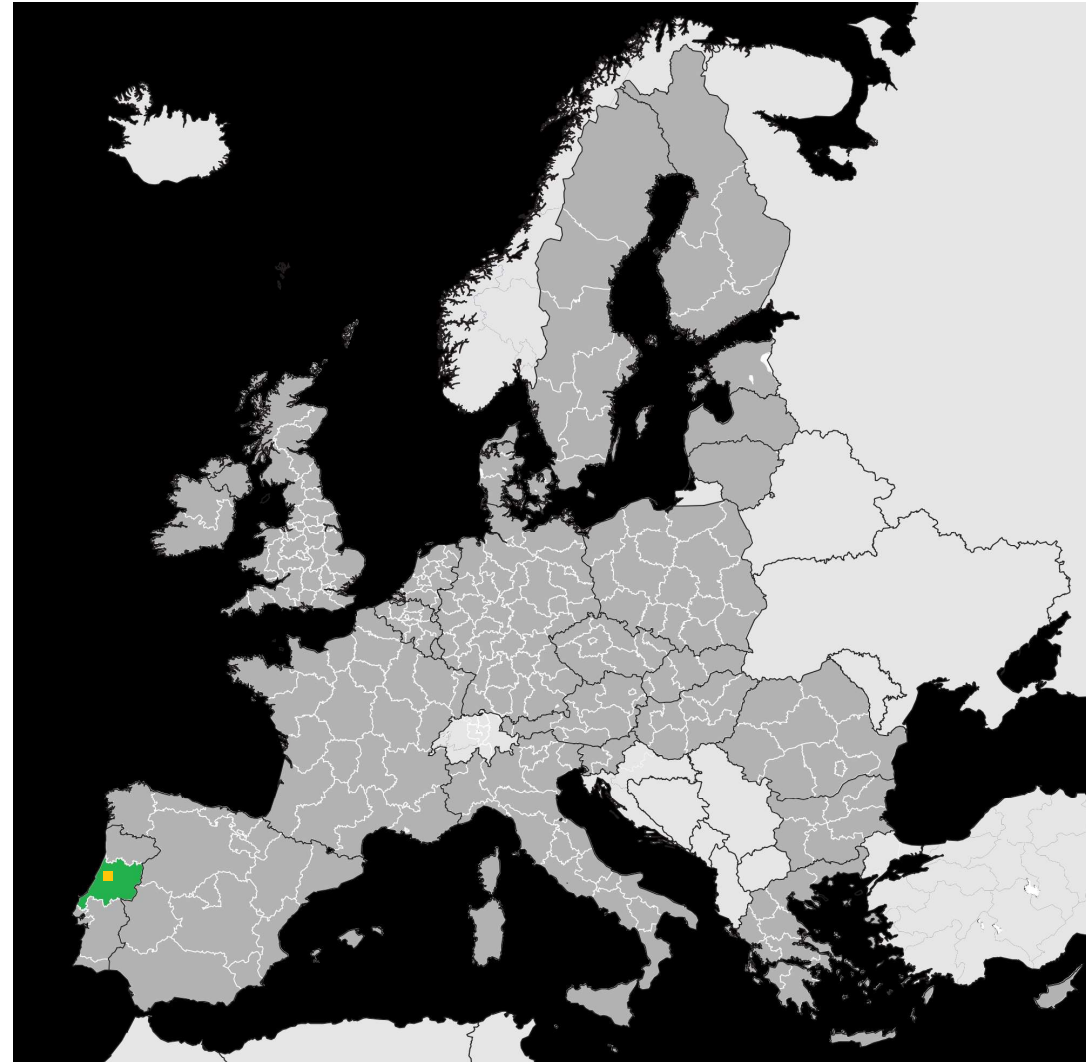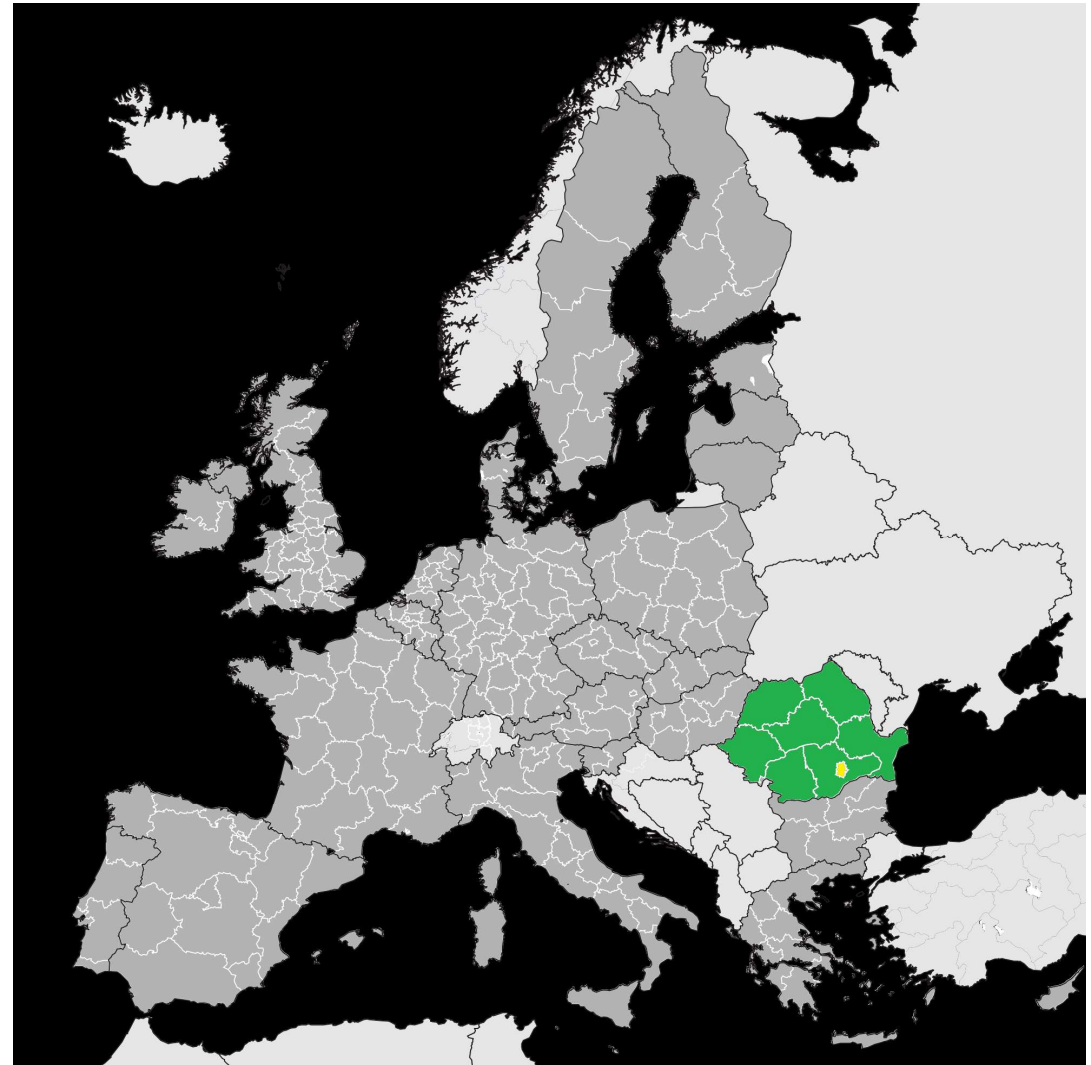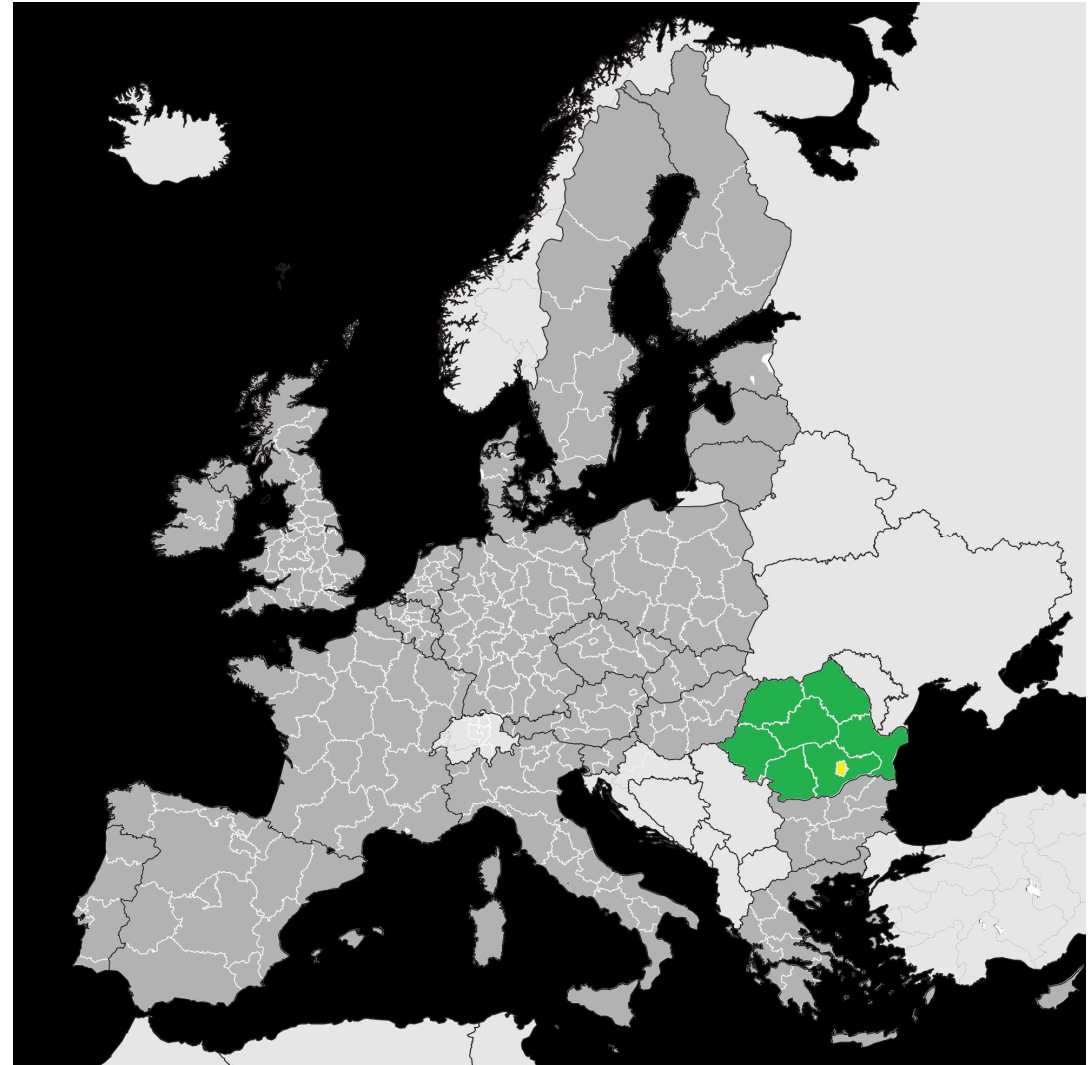
Policy Instruments (P3 P4)

PI3: **BMTA policy and strategic aims**

PI4: **Regional Operational Programme 2014 - 2020**

Policy Instruments

ITS Romania
AMTB

PI3: **BMTA policy and strategic aims**

PI4: **Regional Operational Programme 2014 - 2020**

European Union
European Regional
Development Fund

Policy Instruments (PI5)

PI5: **Extremadura Operational Programme 2014 - 2020**
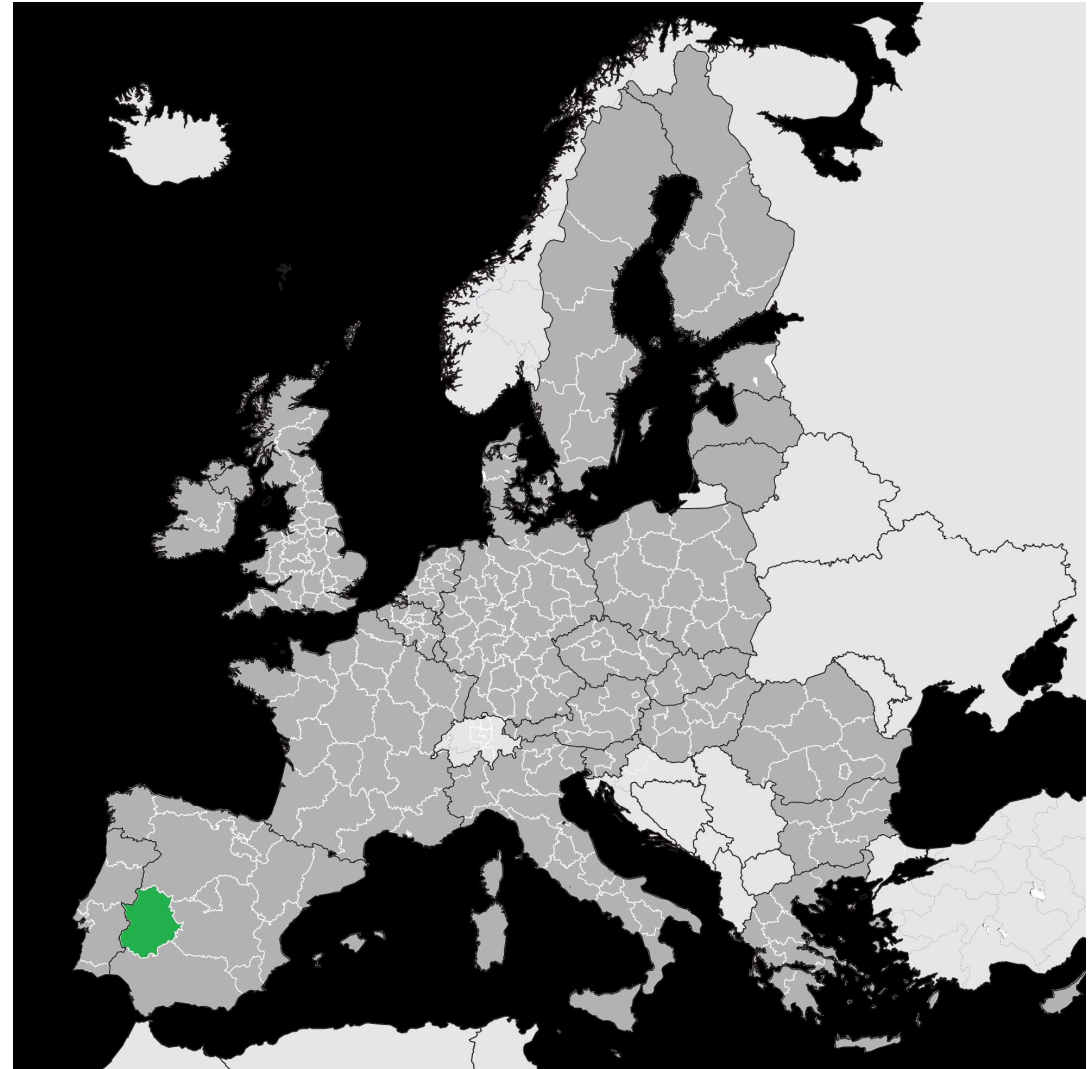
CISMOB international events
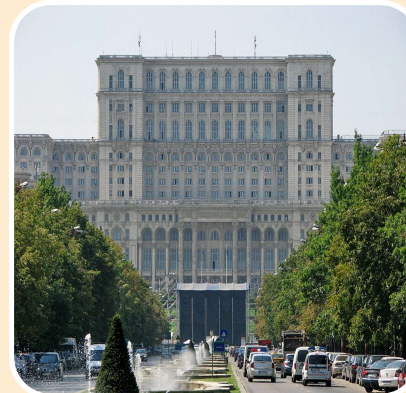
Smart cities: How Intelligent is transport?

Stockholm

SEP 2016

Explore targeted policy strategies to support the use of ICT and e-mobility

Cáceres

MAR 2017

Intelligent transport systems towards a low carbon mobility

Bucharest

OCT 2017

ITS

From science to policy and from policy to real world

Aveiro-Águeda

MAR 2018

CISMOB
Interreg Europe

CENTRO REGION

MOBILITY CHALANGES AND
POTENTIAL SUPPORTING
MEASURES

- **Background**
- **Suggested measures to stakeholders**
- **Group discussion**

Background

Population: 2,3 M

Area: 28 405 km^2 – 31% PT

Density: 75 inhab/km^2

SUMP NUT III

Polycentric urban structure

Private car used in 70% of commuting trips – 62% PT

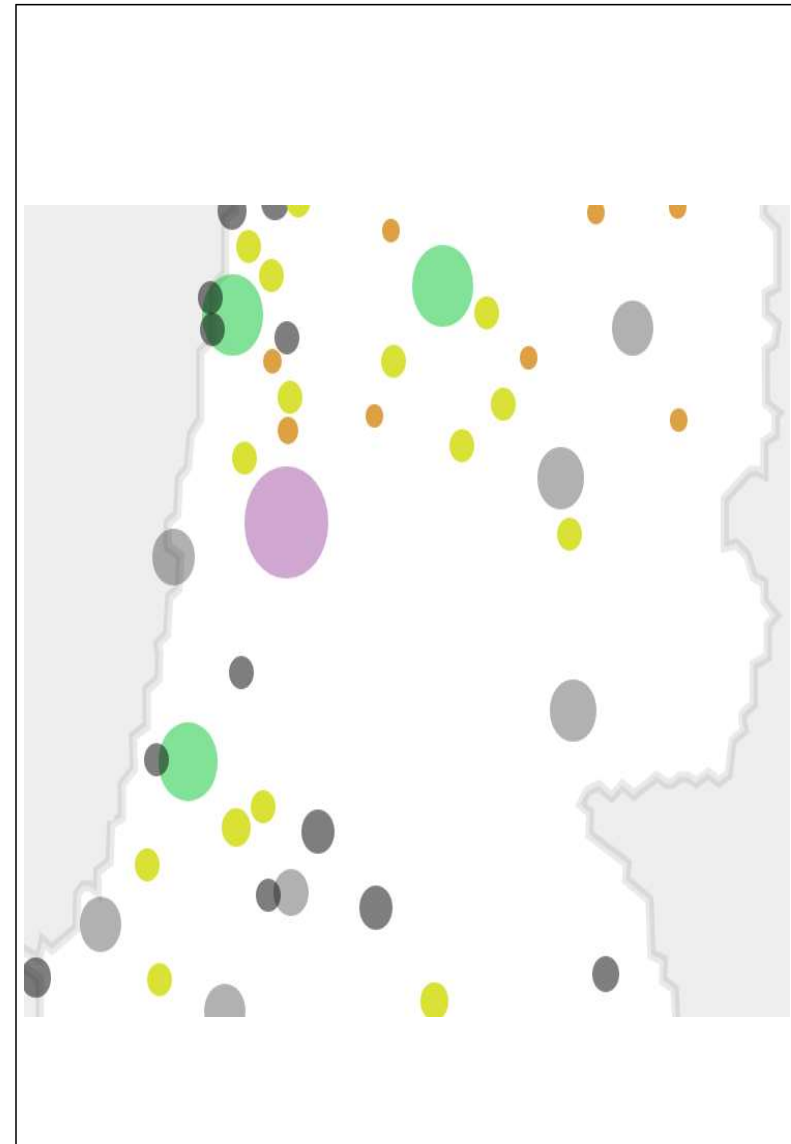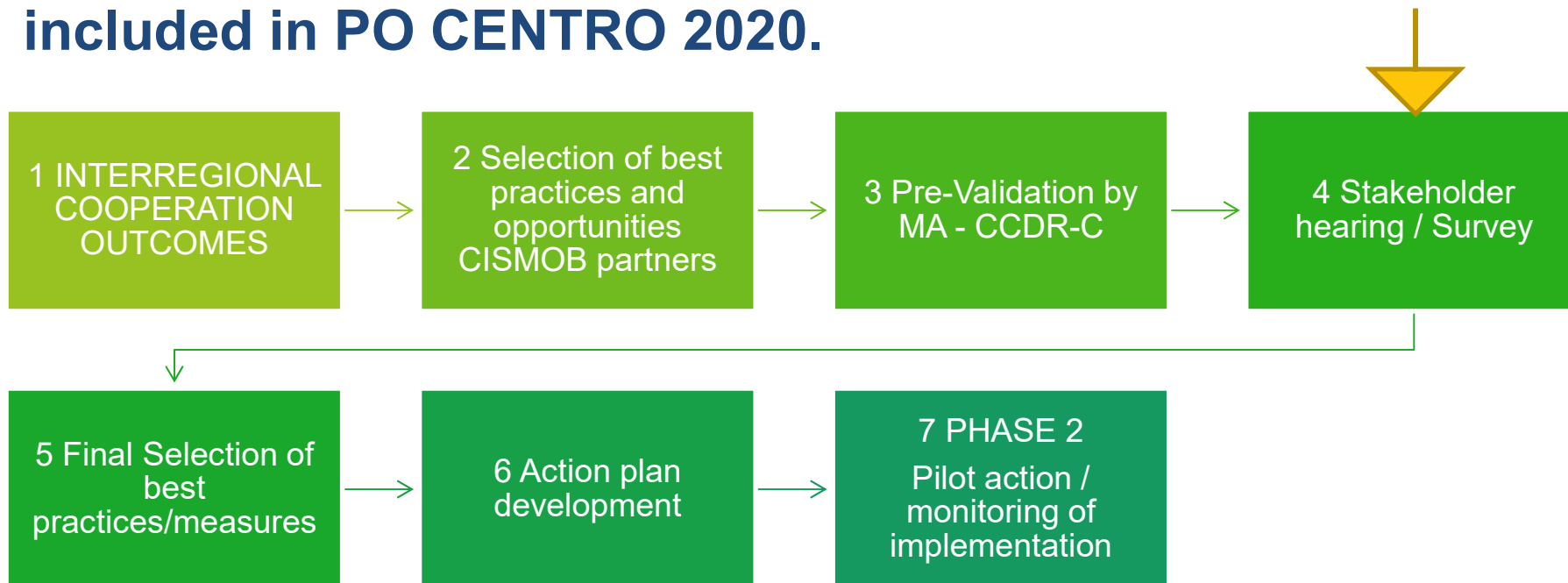# New potencial mesures for CENTRO region action plan

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

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┌──────────────────────┐     ┌──────────────────────┐     ┌──────────────────────┐     ┌──────────────────────┐
│ 1 INTERREGIONAL      │ →   │ 2 Selection of best  │ →   │ 3 Pre-Validation by  │ →   │ 4 Stakeholder        │
│ COOPERATION          │     │ practices and        │     │ MA - CCDR-C          │     │ hearing / Survey     │
│ OUTCOMES             │     │ opportunities        │     │                      │     │                      │
│                      │     │ CISMOB partners      │     │                      │     │                      │
└──────────────────────┘     └──────────────────────┘     └──────────────────────┘     └──────────────────────┘

┌──────────────────────┐     ┌──────────────────────┐     ┌──────────────────────┐
│ 5 Final Selection of │ →   │ 6 Action plan        │ →   │ 7 PHASE 2            │
│ best                 │     │ development          │     │ Pilot action /       │
│ practices/measures   │     │                      │     │ monitoring of        │
│                      │     │                      │     │ implementation       │
└──────────────────────┘     └──────────────────────┘     └──────────────────────┘
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Areas for potential intervention in CENTRO REGION

1 – Smart and Connected Mobility

     a) Early prototypes – integration 5G radio, transport networks, and cloud infrastructures.

     b) Crowdsourcing – urban activity patterns, traffic demand monitoring/short-term forecast

     c) (eco) C-ITS – CAVs – infrastructure adaptation

2 – Corridor management

     a) Smart Road pricing

     b) Intelligent regional Public transport

     c) Automatic incident detection

3 – ICT - Electric / shared Mobility

4 – Real-Time Transit Information Systems

5 – Assistive Technology

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2 Corridor management

2b Intelligent regional Public transport

Supporting the creation of intelligent and integrated **intermodal travel planning** and **smart/integrated ticket** systems. New **synergies between regional/national and local operators** (win-2-win) for both users and operators.

« Tjänster | GTI — Gemensamt Trafikantsystem | Resplus | Resrobot | Tidtabeller | Ledsagning | Trafikledning | Trafik

RESPLUS

En biljett för Sveriges alla resor, som binder ihop mer än 4 000 hållplatser.

Sveriges största biljettsamarbete

Resplus är ett biljett- och resesamarbete som binder ihop Sveriges kollektivtrafik med över 4 000 orter. Detta är möjligt tack vare en unik samverkan mellan så gott som alla Sveriges trafikföretag, som jobbar tillsammans för att göra resan så smidig och enkel som möjligt för resenären.

Samtrafiken laddar trafikdata och lägger upp hållplatser och linjer i databasen som är kopplad till nationell försäljning. De sträckor som därmed blir sökbara kan kombineras med varandra till resekedjor som innehåller olika trafikslag och flera operatörer. Resekedjorna blir försålda via ett nationellt bokningssystem och distribuerade av ett flertal webbsajter, av ombud och resebyråer.

Real-Time Transit Information Systems (RTTISs)

4a New <u>exclusive</u> investment priority / new objectives in concession agreements focused on RTTIS.

BP (RTC) in Quebec City

Your expertise Your ideas

How ICT can improve low carbon mobility?
SMART AND CONNECTED MOBILITY
1.2 Data exists: How can we make it public, open, secure and take advantage of it for traffic management ?
1.3 How to put green mobility in top concerns of CAVs and C-ITS players agenda.
CORRIDORS
2.1/2 How can we engage all players and regional operators to share data, and trust in integrated ticket systems? And innovative road pricing systems?
PUBLIC ROAD TRANSPORT
4.1 Are there effective indicators of success RTTIS?

Thank you

jorgebandeira @ua.pt

http://www.interregeurope.eu/cismob/