



**CISMOB**  
Interreg Europe



# CISMOB

Cooperative information platform for low carbon and  
sustainable mobility

Aveiro November 13 Final dissemination conference



Mihai Niculescu



TRANSPORT  
PUBLIC  
BUCUREȘTI  
ILFOV

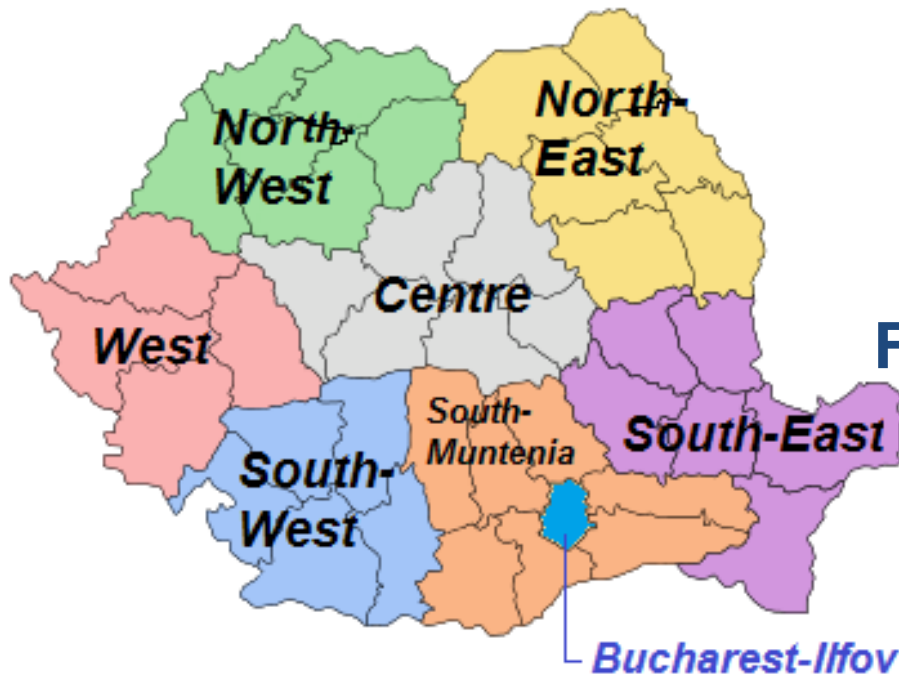
Geanina Suditu



Liviu Rancioaga



# Regional development system



**ROMANIA - 8 NUTS 2 regions  
for socio-economic  
development  
Law nr. 315 / 2004**

**Following the principles of EU  
regional development and  
cohesion policy**

**CDRBI – decisional body**

**ADRBI – executive body**

# Bucharest-Ilfov Regional Development Agency (ADRBI)

- 1999 – founded as non-profit NGO for public utility**
- **2004 – up date regional development law**
- **2007-2020 – intermediate body for REGIO**



**163 Mihai Eminescu Street, Bucharest**

ADRBI provides specific services to the local public administration as well as to the private sector for the development of the Bucharest-Ilfov Region



# Regional Operational Programme (ROP)

## Total allocation for 2014-2020:

- National level: EUR 8.386.387.603
- The 'less developed' 7 regions: EUR 7.940.395.376 (average: 13,52% each region)
- 'more developed' region Bucharest-Ilfov: EUR 445.992.227 (5,32%)

Priority axis	7 less devel. Regions (EUR)	Bucharest- Ilfov (EUR)
3.2 Urban mobility	438.233.531	149.993.088
4.1 Urban mobility	1.058.823.530	0
<b>TOTAL</b>	<b>18,85%</b>	<b>33,63%</b>

\*) 3.2 Reducing carbon emissions in urban areas based on SUMP; 4.1 Reducing carbon emissions in county resident municipalities

# ITS Romania

**Intelligent Transport Systems Romania – ITS Romania is a not for profit, professional association**

- **The main objective is to promote, coordinate, implement and integrate ITS in Romania, correlated and harmonized at EU level**
- **We are founding members of the Network of National ITS Associations**
- **We also participate in research and consultancy activities**



## ITS Romania Membership List – 2019

### 1. Transport Administrators/Authorities:

- CNAIR National Company for Road Infrastructure Administration
- METROREX – Underground Transport Administration
- APM - Maritime Ports Administration Constanta
- ACN – Navigable Canals Administration
- ANR – Romanian Naval Authority
- AFDJ – Administration of the Lower Danube
- APDM – Port's Administration on the Maritime Danube

### 2. Vehicle and telematic equipment manufacturers:

- Automobile DACIA
- UTI ~~Grup~~
- RADCOM
- SWARCO TRAFFIC ROMANIA
- STARCKROM TEHNOLOGII
- VODAFONE Romania
- GEO STRATEGIES
- RQA Impex Company
- ULTRANS TM
- TELEKOM ROMANIA
- KATEL GROUP
- ETA ~~Automatizări~~
- ISAF
- CIVITAS GROUP
- SIELTE
- ERICSSON TELECOMMUNICATIONS ROMANIA
- NOKIA NETWORKS
- ISYS PROFESSIONAL
- MOBITELECO
- AROBS ~~Transilvania Software~~
- COMBRIDGE
- CTAG Automobile Technologies
- SIEMENS
- ~~Kapsch România~~
- GLOBEMA RO
- UBER SYSTEMS ROMANIA
- HITACHI EUROPE – Representative Office in Romania
- AUSNIT, OLARIU AND ASSOCIATIONS

### 3. Research, Design and Consulting Bodies:

- INCERTRANS - Transport Research Institute
- ICI – National Institute for Research and Development in Informatics
- INFORMATICA FERROVIARĂ
- IPA – Design Institute for Automation
- ITC – Institute for Computers
- SEARCH CORPORATION
- METROUL
- ELECTRONIC SOLUTIONS
- MINDSPEED Communications
- MARINE RESERCH
- AV TRANSPORT PLANNING

### 4. Representatives of the Hauliers and Civil Society:

- STB – Bucharest Public Transport Company
- UNTRR – National Union of Road Hauliers from Romania
- URTF – National Union of Public Transport

### 5. Universities and Training Centres:

- UPB – University "POLITEHNICA" of Bucharest
- UPIT – University of Pitesti
- UPT – ~~"Politehnica"~~ University of Timisoara
- UTB – ~~"Transilvania"~~ University of Brasov
- CERONAV – Romanian Maritime and River Training Center
- UCV - University of Craiova
- URA - Romanian-American University

### 6. Over 50 individual experts in:

- Transport field (road, rail, naval, air)
- Communications and information technology
- Research, consultancy, evaluation works, project management
- Economical and financial analysis

# ITS Romania

**Our mid-term strategy is two-fold: on one hand, we will focus more on developing and promoting national policies and strategies for ITS. On the other hand, we will get more involved in national and European projects that can support the development and implementation of ITS in our country.**

**Specific focus:**

- **Integration of ITS for all transport modes – interoperability and data exchange**
- **National platforms for cooperation in ITS**
- **International and European cooperation to enhance the visibility of national initiatives and industry**
- **Active participation in European and international forums and conferences**

# ITS Romania in CISMOB

- **ITS Romania contributed with its knowledge and expertise in particular regarding the application of new technologies in the transport infrastructure. As a national, representative organization, we were able to facilitate information exchange with our members and also between all the different stakeholders linked to the national policy instrument**
- **ITS Romania was responsible for the policy instrument “Regional Operational Programme 2014-2020” which is owned by the Ministry of Regional Development (MRD)**
- **We maintained the contact with the MRD and other stakeholders**

# ITS Romania in CISMOB

- **Provided contribution for project documents  
Baseline Assessment Report and “ICT towards low carbon and sustainable mobility. A multiscale perspective”**
- **Provided contribution for scientific papers**
- **Organized CISMOB national events together with PP5:**
  - Stakeholder meetings
  - Thematic conference and Building Capacity Workshop
  - WG meeting



# ITS Romania in CISMOB

- Participated in staff exchange visits and at CISMOB events
- Presented CISMOB in our national events like the annual Smart Cities of Romania Conferences or ITS Romania Congress 2019
- Supported the participation of MRD representatives and other stakeholders at CISMOB events



# National Action Plan

- **Developed in cooperation with MRD**
- **Action 1: Increasing the share of public transport in cities thru ICT systems and services**
  - inform, encourage and support stakeholders to submit projects in the following areas financed by the ROP Specific Objective 4.1 and 3.2:
    - development of e-ticketing systems
    - building of park and ride facilities
    - development of real-time traveller information systems
    - travel planning applications



# National Action Plan

- **Action 2: Promotion of measures to support cycling and associated services based on ICT tools**
  - cooperate with cycling organisations to support and promote this mode of transport
  - organise dissemination campaigns and workshops
- **Action 3: Green and connected public transport fleet**
  - inform, encourage and support stakeholders to submit projects in the following areas financed by the ROP Specific Objective 4.1 and 3.2:
    - renewal of the fleet with electric and alternative fuels vehicles
    - development of public charging facilities for personal electric vehicles

# National Action Plan

- **Action 3: Green and connected public transport fleet**
  - encourage and support pilot implementations of automated vehicles for public transport
  - participate in seminars organized by MRD:
    - e-ticketing and ITS, in the framework of benchmarking for public transport
    - renewal of the fleet with electric and alternative fuels vehicles
- **Action 4: Contribution to the development of future policy framework**
  - support the Managing Authority in the development of the new ROP, ensuring that it provides for the topics learned in the CISMOB cooperation

# TPBI

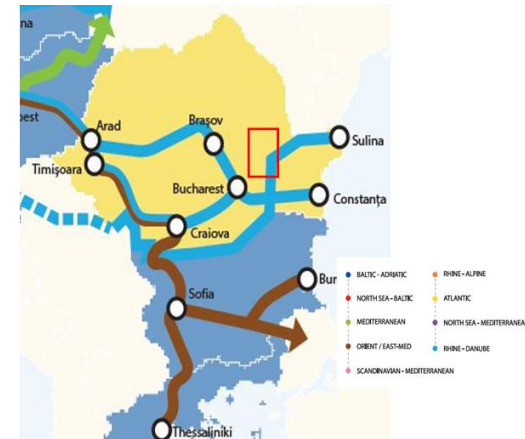
**Development Association for Public Transport  
Bucharest Ilfov– TPBI is a not for profit transport  
association for public utility**

- **Objective:**
  - ✓ **planning TP, contracting services, management and control of public transport;**
  - ✓ **coordination of SUMP BI 2016-2030 projects implementation**
  - ✓ **Transport demand model actualization**
  - ✓ **SUMP BI actualization**
  - ✓ **Cooperation with all stakeholders**
  - ✓ **Integration**
- **Competences only for surface transport**
- **Contributions from members, etc...**





- **Members: Bucharest Municipality (6 sectors); Ilfov County; all 40 localities from Ilfov County (8 towns and 32 communes)**
- **Total area of 1,821 km<sup>2</sup>, over 3 mil. inhabitants in Bucharest-Ilfov area**
- **Bucharest-Ilfov Region**
- **-GDP of 136% of EU average -24% of the total jobs; -35% of the total students in the country**
- **The forecast for growth of Romania's economy for 2018- 2020 is more then above 5.5% /year;**



# SUMPs in Romania

- New legislative framework- all the cities prepared SUMPs in the context of urban planning.

Precondition for EU financed projects

EU support was given to 7 growth poles and Bucharest – Ilfov region for preparation of regional SUMPs including the demand forecast models. All other cities have urban SUMPs

- Intercommunities Development Associations (PT IDAs) are created in several cities- integrated implementation of projects and deliver integrated PT services.

Create integrated planning with an integrated sustainable development vision, promote green technologies, innovative cities – smart cities.

# PSCs in Romania

- **New legislative framework for integrating EU 1370/2007 Regulation has been set-up in Romania; Regional railway and metro is not under the local administration competences. Legislation in changing process.**
- **National PSC model for awarding to public operators is available as tool for municipalities**
- **PSC model is aproved throwgh national legislation for tendering services to private operators**

**All cities prepared their first generations of PSCs.  
Precondition for EU financed projects**

# SUMP BI-Regional policy

- base year 2015; approved in 2017

**ACCESSIBILITY**  
**SAFETY AND SECURITY**  
**ENVIRONMENT**  
**ECONOMIC EFFICIENCY**  
**QUALITY OF URBAN ENVIRONMENT**

**Total integrated projects: 65 , of which:**

- ☐ **Integrated projects for local authorities - 55**
- ☐ **Integrated projects for national authorities - 10**

**Proposed Budget Total: about 7 Bill Euro, of which:**

- ☐ **Investments for Metro projects – 3.5 Bill Euro**
- ☐ **Investments for local authorities – 3.5 Bill Euro**

# Strategic tool for integration

Institutional  
and  
Capacity Building



Public  
Transportation  
Improvement



Promotion of  
Non-Motorized  
Transportation



## Bucharest-Ilfov SUMP High Level Sectoral Strategies



Road  
Safety



Road Quality  
and  
Parking  
Management



Land Use  
and  
Transport  
Integration



Mobility  
Management  
and ITS



# BI Transport System-integration

- **STB SA- regional operator (2018)**
- **Serviciul Transport Voluntari- regional operator(2018)**
- **ECOTRANS SCTM – regional operator (2018)**
- **Private operators- under tendering**

**Emergency contracts signed; under preparation contracts for long term**

**Integrated tariff system—all operators are connected to ticketing system**

**STB SA – collect direct revenue for all services for BI and have tariff differences**

**Compensation formula reflect Regulation 1370/2007 for all operators; Principle-retain only Cost for services + profit**

# BI Transport System-actions

## Vehicle Investments

### Bucharest Municipality

100 tram 36 m-220 mil. Euro; additional measures: 2 depot modernization, infrastructure modernization

100 electric buses 12 m- 57 mil. Euro; additional measures 3 depot modernization, rapid electric charging

100 trolley with autonomy 12 m- 54,7 mil. euro

130 hybrid buses without plug-in, 12m- 49,9 mil. euro

### Voluntary Municipality

36 electric buses 12 m

### Chitila Municipality

36 electric buses 12 m

Routes reconfiguration for demand adaptation

# New acquisitions for Bucharest-Ilfov



12 ROP projects contracted in 2019 for 100 electric buses & 100 tramways => EUR 267.102.125,60

In the process of acquisition 100 trolleybuses and 130 hybrid buses financed by national Administration of the Environmental Fund => approx. EUR102.736.842,10

# BMTA/TPBI in CISMOB

- **First BMTA and after TPBI establishing, TPBI, in their competence to plan, contract and licence the PT services and coordinate the SUMP implementation, contributed with its knowledge and expertise in particular regarding the planning and monitoring the services and projects. As a transport authority for PT coordination, we were able to facilitate information exchange with our members and other stakeholders who will contribute to national policy instrument implementation-SUMP BI 2016-2030**
- **TPBI was responsible for the policy instrument “SUMP BI 2016-2030” which is owned by the Bucharest Municipality, Ilfov County and all local authorities in the Bucharest-Ilfov area**
- **We maintained the contact with the MRD and ADRBI for new regional and financing policies (for ex. ROP)**

# BMTA/TPBI in CISMOB

- Provided contribution for project documents
- Provided contribution for scientific papers
- Organized CISMOB events together with PP4
  - Stakeholder meetings



- WG meeting



# BMTA/TPBI in CISMOB

- Participated in staff exchange visits and at CISMOB events
- Presented CISMOB in our communication channels
- Facilitate the participation of MRD representatives and other stakeholders at CISMOB events



# Action Plan/ BMTA

- **Action 1: Supporting the implementation of traveller information system**
  - Developed regulations and tools for integrated fleet management solution: PSC provisions for all transport operators
  - Passenger in-time information and Integrated ticketing- good practices for future projects developments
- **Action 2: Green Public Transport fleet**
  - Proposed conditions in PSCs (min Euro 5, e-ticketing, fleet management)
  - Assist TPBI members for EU financed project implementation: fleet green vehicle acquisitions

# Good practices and policy change

- **The main results of CISMOB were driven by exchange of experience and learning from good practices**
- **Based on the example from Stockholm and involvement of representatives from MRD in Thematic Conferences and in local stakeholders meetings, we influenced the policy instrument:**
  - in the version of the Guide for Applicants published in March 2018, implementation of electronic ticketing systems is no longer restricted to the geographical limits of a city. Instead, they can be deployed for a wider, regional area in partnership with neighbouring towns/villages that are part of the functional metropolitan area of the city

# Good practices and policy change

- The good practice we identified in Timisoara provided inspiration for CISMOB pilot
- The methodology used by MRD to assess CO2 reduction by candidate projects provided inspiration for policy change in the LP country
- We will continue to monitor and support the topics identified in the Action Plan after CISMOB is finished
- We will actively support policies, projects and initiatives that lead to the implementation of ITS and/or low carbon mobility – either for public transport or the transport sector in general

# Good practices and policy change

## Activities inspired by CISMOB partnership

- meetings with local authorities and Ilfov County for integrate the investment projects for byke lines (financed through ROP 6.1)
- vouchers for bikes users- Bucharest Municipality
- synergies between the private sector and municipal authorities to build partnerships - electric tricycles sharing system- Bucharest Municipality
- Assistance for fleet acquisition

# Good practices and policy change

## Activities inspired by CISMOB partnership

- travel planning applications (INFOSTB)
- meetings with local authorities and Ilfov County for integrate the investment projects and plan the future projects and correlate with SUMP - (PATJ and PUZ for sectors)
- meetings for clarification on ROP financing documentation

# Good practices and policy change

## FURTHER ACTIVITIES

- establishing of SUMP MONITORING COMMITTEE-regional stakeholder involvement
- meetings with TPBI members, Ministry for Regional Development, ADRBI and members of ITS Romania, to identify proposals for the policy framework improvement
- Good practices and library of CISMOB for next project preparation

# Good practices and policy change

## FURTHER ACTIVITIES

- The new version of SUMP is under preparation, all CISMOB good practices will be used in the process of new project descriptions and coordination of SUMP implementation. More clear steps and well prepared Cismob participating staff will be involved
- Lesson learned will be used for propose sollutions/amendments for next ROP and for thinking about coordination with other UE Policy Objectives (digitisation , integration with TEN T connectivity)



**CISMOB**

Interreg Europe



European Union  
European Regional  
Development Fund

# Thank you

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*Project smedia*