



# The ClimaCor project

Methodology for the Assessment  
of the Climate Impacts on Transport Corridors



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# Key details about ClimaCor

- **Purpose**

To develop and test a methodology for assessing climate impacts on passenger and freight transport corridors. It will advance the work of the UNECE Transport Committee and help implement the EU *acquis* in the Eastern Partnership Countries of Ukraine, Moldova and Georgia.

- **Focus**

- transport infrastructure;
- substitute routes and transport modalities; and
- other adaptation measures.

- **Duration:** December, 2015-September, 2016 (about 9 months)



# Key details about ClimaCor (cont'd)

- **Target countries:** Methodology should be globally applicable, and will be trialed in two economically, geographically distinct corridors:
  - Kiev, Ukraine to Chisinau, Moldavia;
  - Lisbon, Portugal to Madrid, Spain
- **Deliverables**
  - Developed methodology
  - Draft conclusions/recommendations from two methodology trials
  - Presentation of draft version of the methodology, results and recommendations at July UNECE working group meeting
  - Final report (September)

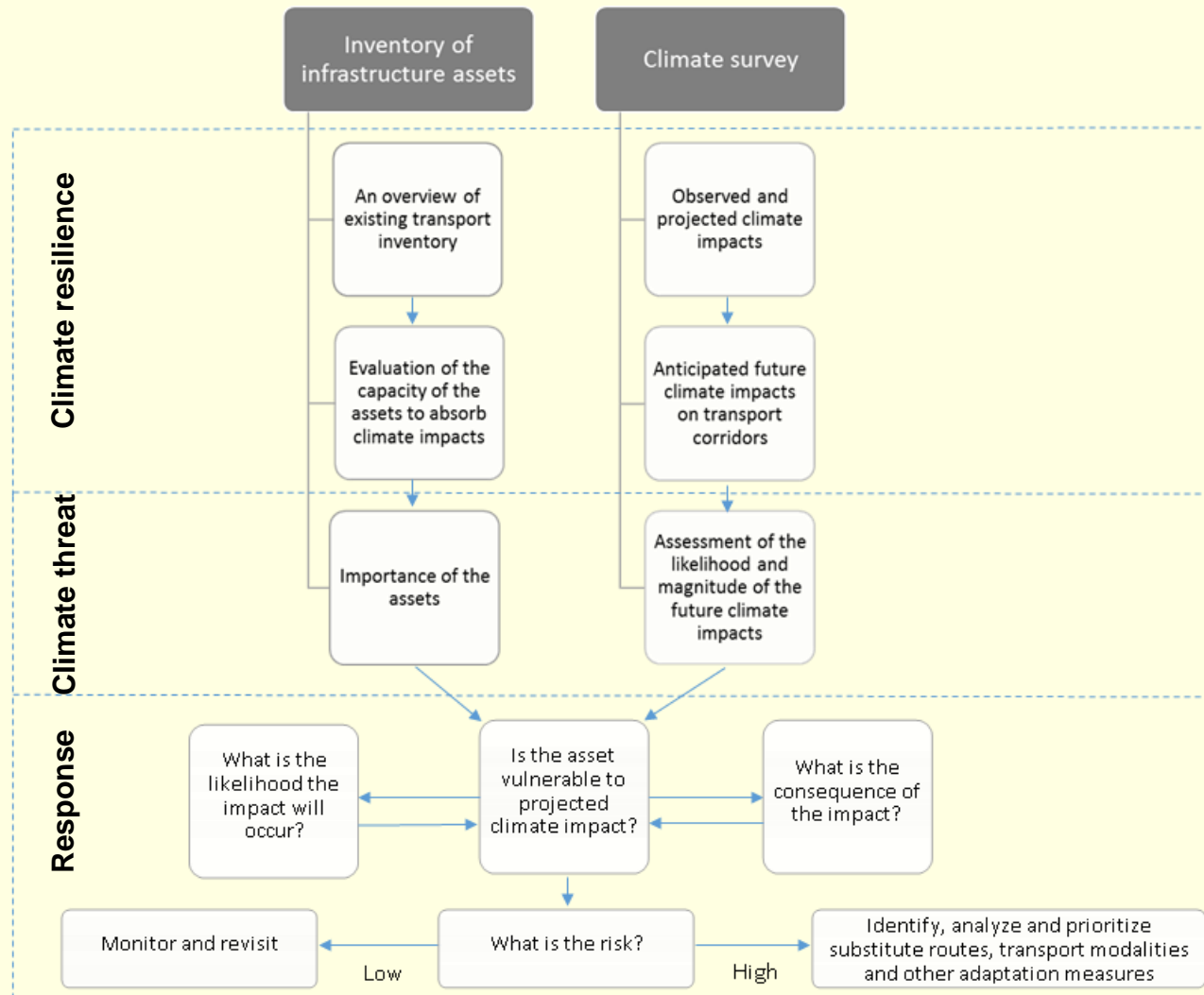


# Approach and methodology

- **Two lines of enquiry** (horizontal / vertical):
  - **transport assets**, filtered by their importance and by vulnerability to climate change, and
  - **climate change survey**
- **Transport assets:**
  - Road surface and road infrastructure
  - Vehicles, driving conditions
  - Railways
  - Inland waterways and ports
- **Climate survey:**
  - Heat waves, droughts
  - Increased precipitation, storms
  - heat and cold variability
  - Erratic weather
  - Higher wind force
  - Melting permafrost
  - Human migration
  - Interruption of water supply



# Structure of analysis



# Work timeline

## January-March

### Research

- Desktop research
- Interviews
- Snapshot review of current knowledge on subject



## March-April

### Methodology development

- Formulate analytical questions
- Gather inventory of adaptation measures
- First draft of methodology



## April-September

### Methodology testing

- Trials in Western and Eastern Europe
- Incorporate lessons into revised draft
- Presentation before committee (July 6-8)
- Incorporate comments into final report



# REC and the ClimaCor project

- Project Team
  - **Greg Spencer** (US), Expert - Sustainable Mobility.  
*Tasks: project management, methodology development*
  - **Attila Katona** (HU), Junior Expert - Sustainable Mobility.  
*Tasks: desk research, methodology development*
  - **Bruno Mesquita** (PT), Expert, Environmental Law.  
*Task: Spain-Portugal methodology trial*
  - **Anna Ruban** (UKR), Junior Expert, Climate Change.  
*Task: Ukraine-Moldova methodology trial*
  - **Xenia Cechina** (MOL), Junior Expert.  
*Task: Ukraine-Moldova methodology trial*





# About the Regional Environmental Center

Greg Spencer

Expert, Smart Cities and Mobility



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# The REC today...

- is an **international organisation** with head office located in Szentendre, Hungary;
- is legally based on a **charter signed by 32 countries and the European Commission**;
- has a Board of Directors with international members;
- has a **regional presence** and offices in Central and Eastern Europe (CEE) with an international staff of approx. 160 employees;
- runs projects in EU Member States (in CEE and EU-28); EU Enlargement Countries; Eastern Partnership Countries; and beyond
- The REC has **25 years of experience** in supporting the stakeholders in CEE in:



# REC's specialisation



# REC Transport Activities

## Cleaner and Better Transport in Cities

- Secretariat for European Mobility Week
- Dissemination and communications for the CIVITAS Initiative
- Bike-share scheme feasibility studies for cities
- Development of success stories for environmentally friendly transport measures (European Environment Agency)
- Capacity building for municipal staff on boosting cycling modal share

## Sustainable rural transport

- Communications support for EU's SmartMove project

## Education and awareness raising

- Dissemination of the "Traffic Snake Game" in European primary schools



THE GLOBAL GOALS

11 SUSTAINABLE CITIES AND COMMUNITIES



EUROPEAN  
MOBILITY  
WEEK  
16-22 SEPTEMBER



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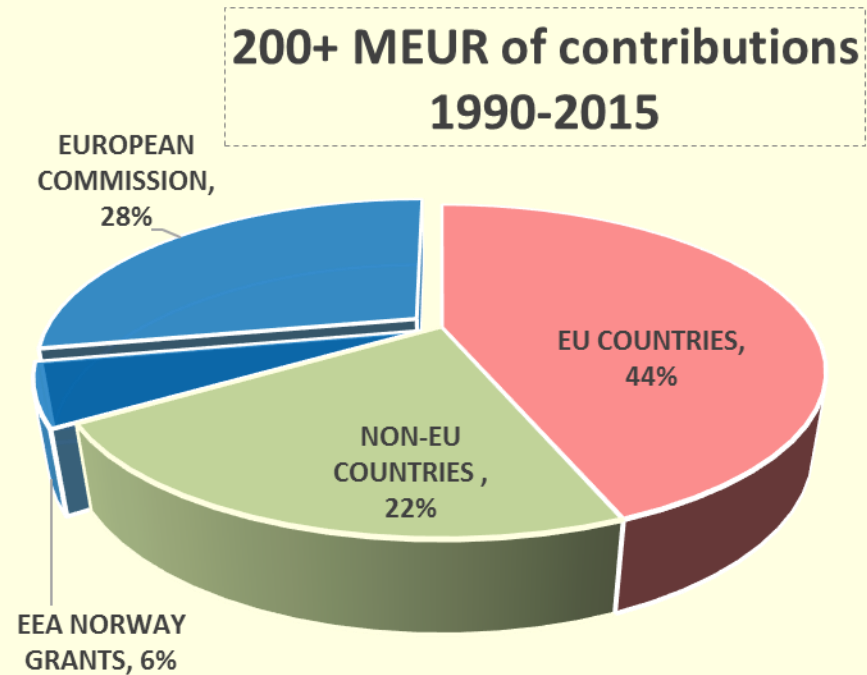
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# Funding sources

REC is 100% project-financed with annual turnover 10-12 MEUR

Largest contributions to the REC for the period 1990-2015 made by:

- European Commission
- EEA and Norway Grants
- Finland
- Hungary
- Italy
- Japan
- Norway
- Sweden
- The Netherlands
- USA



# 15 largest ongoing projects of the REC

	Project name	Funding organisation	Budget	Implementation period
1	Adaptation to Climate Change in Hungary	EEA, Financial Mechanism Office (Norway, Iceland, Liechtenstein)	7 MEUR	2013-2017
2	Sustainable Use of Transboundary Water Resources and Water Security Management in Middle East and North Africa (WATER SUM)	Government of Sweden	6 MEUR	2014-2017
3	Wetlands conservation and restoration in "Puszcza Kampinoska" Natura 2000 site (LIFE Kampinos Wetlands Poland)	European Commission and Government of Poland	4.3 MEUR	2013-2018
4	Environmental Civil Society Support Programme for Serbia (CSOnnect)	Government of Sweden	4 MEUR	2015-2018
5	Local Initiatives for Sustainable Ukraine (LINK)	Government of Norway	2.6 MEUR	2015-2018
6	NGO Programme in Slovenia	EEA, Financial Mechanism Office (Norway, Iceland, Liechtenstein)	1.9 MEUR	2013-2017
7	Environmental Civil Society Support in Albania (SENiOR-A)	Government of Sweden	1.8 MEUR	2012-2015
8	Introducing the UN Sustainable Development Goals in Schools in South Eastern Europe (SEEDLING)	Government of Austria	1.4 MEUR	2015-2018
9	Support for Low Emission Development Strategies in South Eastern Europe (SLED)	Government of Austria	1.3 MEUR	2013-2015
10	Promoting regional cooperation in South Eastern Europe via networking within the authorities responsible for the environment and justice sectors (THEMIS Network)	Government of Austria	1.1 MEUR	2014-2017
11	Strengthening Institutional Capacity for Environmental Management in Turkey	European Commission	1 MEUR	2014-2016
12	Education for Sustainable Development in the Western Balkans	Rockefeller Brothers Fund	0.8 MEUR	2011-2016
13	Albanian Civil Society for a European Environment (ACHIEVE)	European Commission	0.68 MEUR	2014-2017
14	Building Local Community Resilience for Sustainable Development in International Watersheds such as the Drini - Drina River Watershed (CRESSIDA)	Government of the USA	0.46 MEUR	2014-2019
15	Catalyzing market transformation for industrial energy efficiency and accelerate investments in best available practices and technologies in Macedonia	The United Nations Industrial Development Organization (UNIDO)	0.44 MEUR	2015-2019





THE GLOBAL GOALS

7 CLEAN ENERGY



# REC Activities in Climate Mitigation

## Promotion of Sustainable Energies

- EU-China Clean Energy Center
  - Since 2010, facilitating cooperation between China and the EU in the field of clean, sustainable energy and GHG emission mitigation, through the Center set in Beijing

## Promotion of Low-Carbon Society

- Low Carbon South East Europe (LOC SEE)
  - Development of a systematic cross-sector approach to low-carbon policies for the reduction of GHG emissions and creation of a low-carbon SEE region
- Regions for Sustainable Change
  - REC was the lead partner in a 12-member partnership incorporating climate change adaptation into the economic and regional development plans of 12 EU regions; promoting Europe-wide shift to climate-friendly economies
- Supporting Low-emission Development in South Eastern Europe (SLED)
  - To be introduced on December 5 at the EU Pavilion



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# ... in Climate Adaptation



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## Adaptation to Climate Change programme in Hungary

- 7 MEUR funding to Hungary from EEA and Norway Grants, 2013-2017
- REC as the Fund Operator of the programme within the 2009-2014 Financial Mechanism
- Three components of the programme:
  - 1) The National Adaptation Geoinformatic System (NAGiS)
  - 2) Local climate change adaptation capacity building
  - 3) Pilot projects focusing on climate change adaptation measures at local and regional level

## In-depth Assessment of Vulnerability to Climate Change and Ecosystem-Based Adaptation Measures in the Carpathian Region (CarpathCC)

- Beneficiary countries: Czech Republic, Hungary, Poland, Romania, Serbia and Slovakia
- Funding of 300.000 EUR from the European Commission, 2011-2013
- Research findings on vulnerability in the Carpathian region:
  - lack of water due to increasing drought tendency;
  - increasing frequency of heat waves;
  - changing flood patterns

