

# Presentation on national best practices of the mountain farming and identification of the priority topics for implementation of the SARD Protocol - (name of the Party)

## Carpathian Convention

Fourth Meeting of the Working Group on Sustainable Agriculture and Rural Development

27 September 2018  
Vatra Dornei, Romania



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## Climate Change adaptation WG at Carpathian Convention

- ▶ Decision COP3/15 on Climate change of the COP 3 of the Carpathian Convention: a Working Group on Adaptation to Climate Change under the Carpathian Convention has been established
- ▶ Carpathian Convention aims at introducing a new Article on climate change because the topic is so important

## Workplan

- ▶ Preparation of strategic agenda on adaptation in the Carpathians
- ▶ Planning of adaptation measures
- ▶ Realization of a clearing house for the Carpathians in the wider EU context

# Potential Priority Climate Change Adaptation Actions

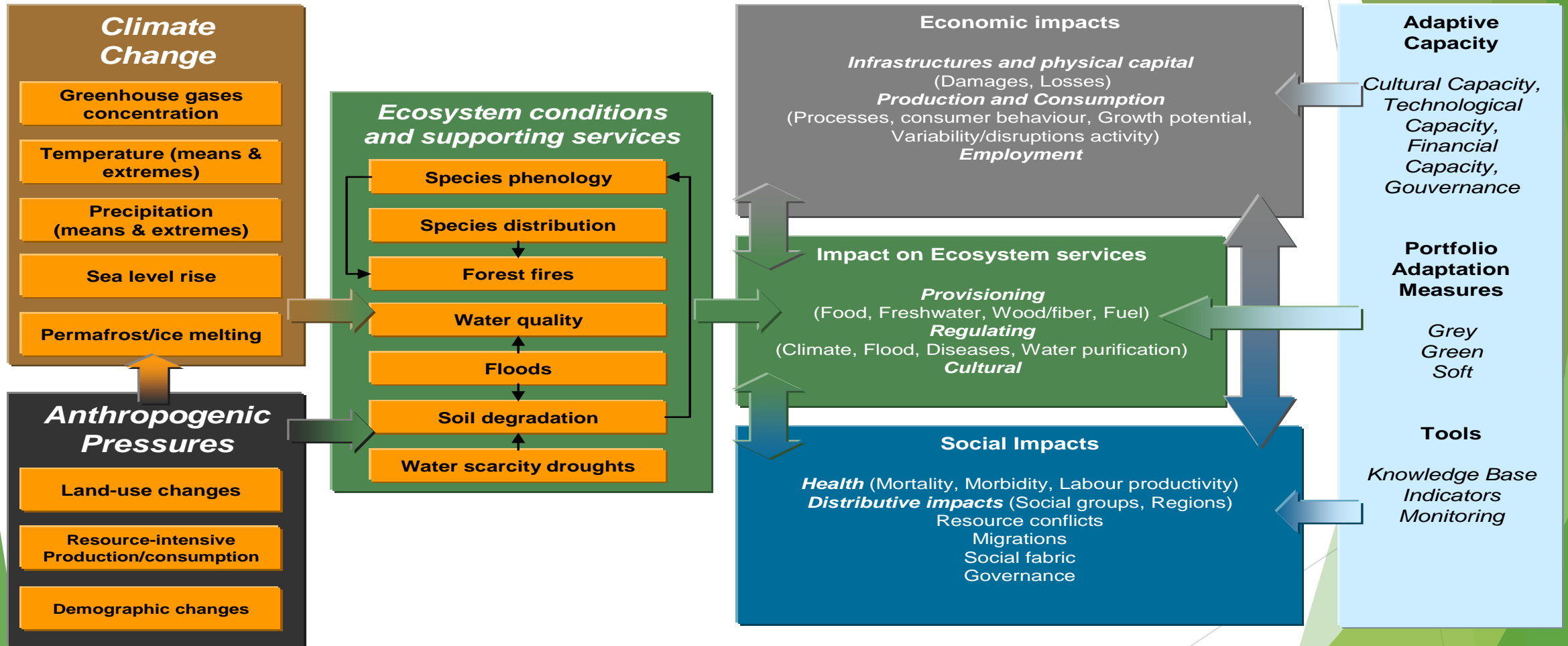
- Capacity building programme which draws on, and enhances the connectivity of the Region
  - Information management and awareness rising
  - Climate-proofing of infrastructure, investments and climate-cross compliance
  - Development of forestry measures for climate change adaptation
  - Climate change and agriculture
  - Making biodiversity management more dynamic
  - Evaluation of Carpathian ecosystem services
  - Capacity-building on proposal-writing for adaptation funding
  - Permanent Working Group on Climate Change

# Strategic Agenda, content

1. Introduction
2. Background
3. Impacts of climate change in the Carpathians
4. Policy responses to create a Path to a Climate-Proofed Carpathian Economy
5. Institutional and organisational responses
6. Cross-Cutting Opportunities
7. Opportunity for the EU Funds from 2014-2020:
8. Steer the Region's Development Towards a Climate-Proofed Carpathian Space
9. Potential Priority Climate Change Adaptation Actions

# Environmental pathway of vulnerability and adaptation

Jacques Delsalle, Evdokia Achilleos, DG Environment, Unit D1 - Protection of Water Resources



# Preparatory actions

- ▶ Three projects:
  - ▶ Climate of the Carpathian region (CarpatClim)
  - ▶ Integrated assessment of vulnerability of environmental resources and ecosystem-based adaptation measures (Service contract CARPIVIA)
  - ▶ In-depth assessment of vulnerability of environmental resources and ecosystem-based adaptation measures (Framework contract CarpathCC)

## CarpatClim project

- ▶ Climate of the Carpathian Region
- ▶ Led by the Hungarian Meteorological Service
- ▶ Harmonized long-term meteorological data (1961-2010)
- ▶ Daily, gridded database of more than 50 meteorological parameters
- ▶ Main aim: freely available common database to improve comparability of project results
- ▶ [www.carpatclim-eu.org](http://www.carpatclim-eu.org)



# Philosophy of CARPATCLIM

- ▶ No common database of raw data
- ▶ Each country provide the same work (hope for the availability of most possible data)
- ▶ Common softwares
- ▶ National and international consistency
- ▶ Near border data exchange (minimum number of data exchanged on equal basis)



# Carpathian Integrated Assessment of Vulnerability to Climate Change and Ecosystem-based Adaptation Measures (CARPIVIA)

- Assessed the vulnerability to climate change of the Carpathian region's main ecosystems
- Produced an inventory of climate change effects and ecosystem-based adaptation measures
- [www.carpivia.eu](http://www.carpivia.eu)

# CarpathCC Carpathian in-depth Assessment of Vulnerability to Climate Change and Ecosystem-based Adaptation Measures (CarpathCC)

- ▶ Examined the vulnerability of water, forests, ecosystems and related production systems
- ▶ Proposed concrete ecosystem-based adaptation measures
- ▶ Assessed the costs and benefits of adaptation measures
- ▶ [www.carpathcc.eu](http://www.carpathcc.eu)

# Vulnerabilities of six important sectors 5/6

## Agriculture

- \* Maize and wheat yields will decline (become feasible at higher altitudes)
- \* Sunflower, soya and winter wheat yields might increase (due to higher temperature & migration of the northern limit of these crops)
- \* Pest threaten is predicted to rise → productivity loss
- \* Traditional mixed agro-ecosystems may disappear (due to land abandonment and land use change)



(Source: network.hu)

# Adaptation measures 5/6

## Agriculture

- \* Supporting small-scale traditional farms as important economic activities delivering multiple ecosystem services
- \* Supporting agro-environment programmes
  - to maintain&enhance biodiversity and viability of semi-natural grasslands&mixed agro-ecosystems

An aerial photograph of a small village nestled in a valley. The village has several buildings with red roofs and is surrounded by green fields and some trees. In the background, there are large, rugged mountains with patches of snow under a clear blue sky. A layer of light mist or fog hangs in the valley between the village and the mountains.

# **FUTURE IMPERFECT**

**CLIMATE CHANGE AND ADAPTATION IN THE CARPATHIANS**



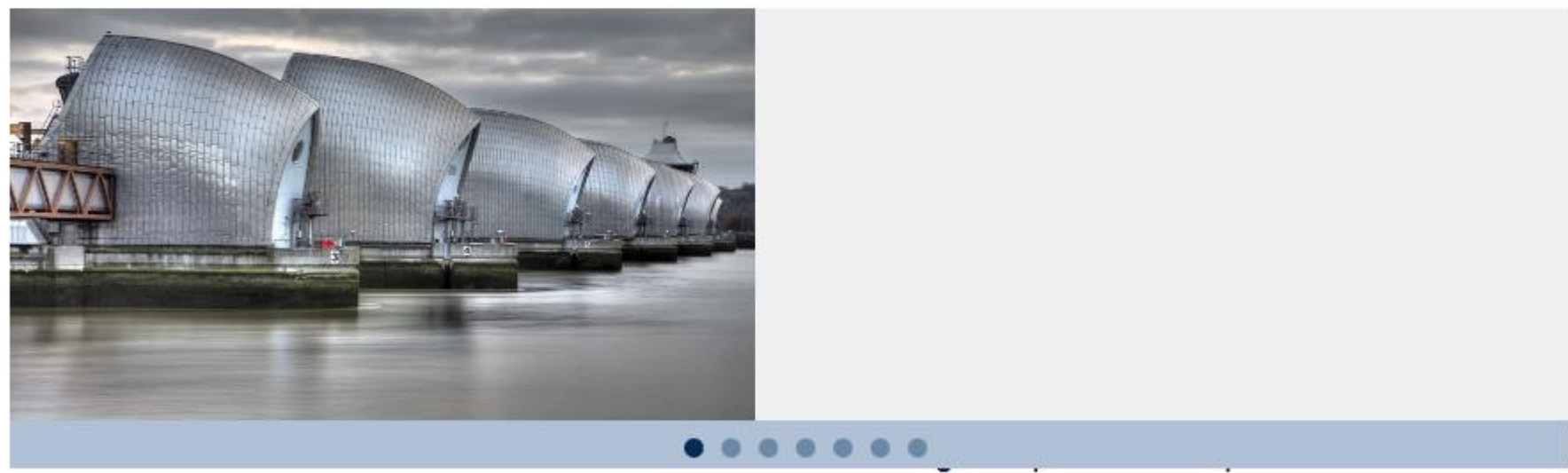
Climate-ADAPT - Sharing adaptation information across Europe

# European Climate Adaptation Platform

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- Countries, regions, cities ▾
- Knowledge ▾
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- Help ▾





## Transnational regions and other regions and countries

There are 10 regions in Europe for transnational arrangements. In addition, regions also agree strategies with their neighbouring regions, some non-EU/EEA regions and national and island regions. The website provides information on strategies and actions that have been developed or are currently under development for the transnational regions and for other regions and countries.

### Regions on the map

The map shows the transnational regions covered in Europe within the geographical programmes for the EADP. You can also view transnational regions by clicking on the map. If you click on areas that belong to more than one region, the program window will show all the regions where the area is located. The program window also shows the countries where each region is located.

To go to an online regional page, click on the program icon above the regions, or these icons at the top above the map.



- Luxembourg
- North Spain
- Northern Italy
- Southern Denmark
- South East
- Southern Europe
- Sweden
- Switzerland
- North East
- North West Europe
- Northern Hungary and North
- North West Europe
- Other regions

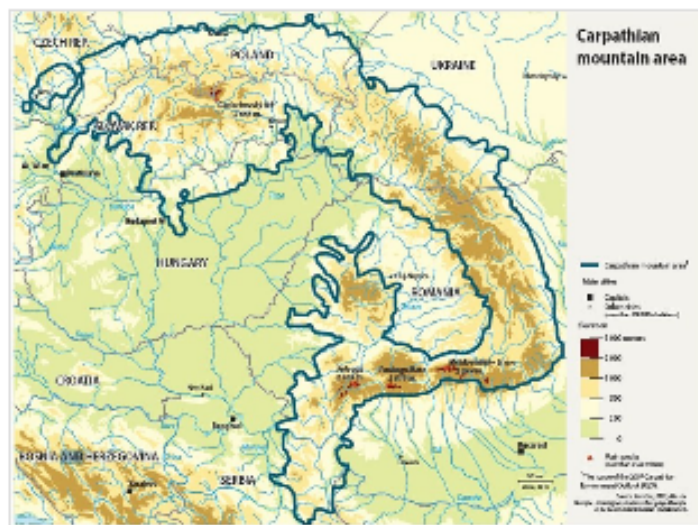
[Business Page as PDF](#)



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## Adaptation in Carpathian Mountains

[General](#) | [Policy Framework](#) | [Impacts & Vulnerabilities](#) | [Adaptation Actions](#)



The Carpathian Mountains are the second longest mountain system in Europe covering an area of about 210,000 square kilometers. Seven countries (Czech Republic, Hungary, Poland, Romania, Serbia, Slovak Republic, and Ukraine) share the territory of the Carpathian region, five of them are EU members.

[Read more](#)

### Search Results

- [Publications and reports \(5\)](#)
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- [Research and knowledge projects \(5\)](#)
- [Case studies \(3\)](#)
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# Climate-ADAPT Newsletter

News and events items should describe new or recent activities relevant to climate change adaptation be relevant to climate change adaptation policies, research or other projects refer to activities in the European Commission and EEA member countries or global activities that have direct relevance for EEA member countries be of wide interest to decision-makers at EU, transnational, national and city level are provided by a well-established, recognized and reliable information source and associated organisation provide a URL for further information, which should be available in English.



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archive <http://climate-adapt.eea.europa.eu/newsletter>

The editing of the items will be ensured by our ETC/CCA colleague, Fokke de Jong (Alterra, The Netherlands, email: [fokke.dejong@wur.nl](mailto:fokke.dejong@wur.nl)). The final editing of the newsletter will be done by EEA (Jose Ramón Picatoste, email: [Jose.Picatoste@eea.europa.eu](mailto:Jose.Picatoste@eea.europa.eu)), assisted by Corine Guma (email: [Corine.Guma@eea.europa.eu](mailto:Corine.Guma@eea.europa.eu))..

We would like to ask you to upload possible contributions to the newsletter Issue No. 22 (December 2018) by **Wednesday 10 October 2018**



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# Thank you!



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