

# Adaptation to Climate Change in other Mountain Regions

First Working Group of the Carpathian Convention on Adaptation to Climate Change

Brussels, 4-5 February 2012

Pictures: A. Czaderna, A.&D. Nowak, Pieniny National Park



# Adaptation to climate change in other mountain areas

The Alpine space

The Balkans and the Dinaric Arc



# Adaptation to climate change in other mountain areas

The Alpine space



# 1. Political and legislative response to adaptation challenges

## European Union

- European Climate Change Programmes (2000, 2005);
- European Union Action Plan on Climate Change in the Context of Development Cooperation (2004-2008);
- Green Paper on Adapting to Climate Change in Europe (2007) and White Paper on Adaptation (2009);
- Strategy for Supporting Disaster Risk Reduction in Developing Countries (2009);
- Projects co-funding (Advancing Capacity to Support Climate Change Adaptation project; Tropical Forests & Climate Change Adaptation; Adaptation & Mitigation Strategies).



# 1. Political and legislative response to adaptation challenges

## The Alpine Convention



... an international treaty for the sustainable development of the Alpine territory



# 1. Political and legislative response to adaptation challenges

## The Alpine Convention Action Plan on Climate Change - Evian 2009

- 2 strategies (adaptation – mitigation)
- 9 sectors/strategic areas
- 24 main objectives
- 81 measures

### Adaptation strategies

- Land Planning
- Forests
- Biodiversity
- Tourism
- Water
- Mountain Farming

### Mitigation strategies

- Land Planning
- Energy
- Transport
- Tourism



# 1. The Alpine Space

## UNEP projects in the ALPS

- 4 EU Alpine Space co-funded projects in the European Territorial Cooperation 2007-2014
- 2 running projects funded in the third call!
- All projects are approved under Priority 3: Environment and risk Prevention



# 1. ALPSTAR - Towards carbon-neutral Alps

## Make the best practice minimum standard



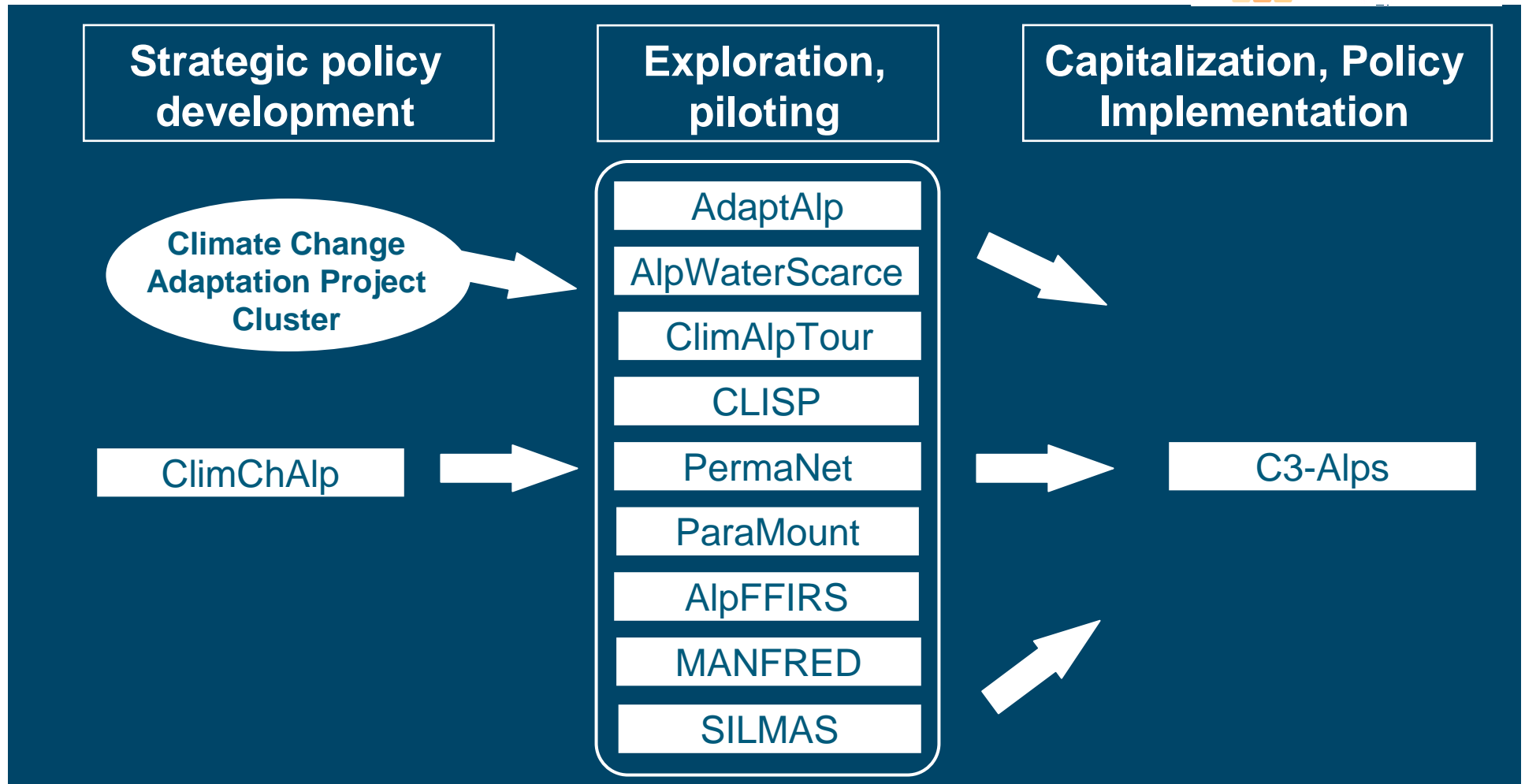
### Main objectives

- Addresses the need for transnational, well-structured action to effectively manage climate change in the Alps;
- Contributes to the implementation of Alpine Convention Climate Action Plan and assures interaction with and transfer of results to policy level;
- Through establishment of good practice transfer platform project provides framework for knowledge transfer between regions, for capitalisation of results of other projects;
- In 12 pilot regions strategies and action plans toward carbon neutrality will be prepared and their implementation will start through implementation of measures.





# 1. C3-ALPS - Capitalizing Climate Change Knowledge for Adaptation in the Alpine Space (2012 - 2014)



# Other Projects...

## Sustainable Transport and Green Infrastructure

ACCESS2MOUNTAIN



Picture: M. Jurek



SOUTH EAST  
EUROPE  
Transnational Cooperation Programme

Alpine-Carpathian Corridor (AKK)

[www.alpenkarpatenkorridor.at](http://www.alpenkarpatenkorridor.at)



AlpenKarpatenKorridor



# 1. CLIMALPTOUR - Climate Change and its impact on tourism in the Alpine Space



## Aim

The project aims at dealing with the internationally recognized issue of the effects of climate change on alpine tourism, with reference both to winter tourism and sports and to alpine all-season tourism.

## Objective

The main objective of the project is to make Alpine centres an interesting destination in all seasons and to increase their potential even if snow is lacking.

**Duration** 01/09/2008 – 01/09/2011

**Total project costs** 2.806.500 €

Funded by the ETC Alpine Space Programme 2007-(1st Call)

## Partnership

18 Partners from AT, CH, DE, FR, IT, SLO



# 1. CLISP - Climate Change Adaptation by Spatial Planning in the Alpine Space



**First transnational project in the Alpine Space 2007-2013 to tackle the issue of climate change adaptation and spatial planning**

## Objective

To contribute to **sustainable, resilient, and climate-proof spatial development** (settlements, infrastructure, economic sectors, ecosystem services) by enhancing adaptation capacities and adaptation performance of spatial planning

**Duration** 09/2008 – 09/2011

## Total project costs

2.5 Mio. € (ERDF 1.65 Mio. €)- funded by the ETC Alpine Space Programme 2007-(1st Call)

**Partnership** 13 Partners from AU, FR, CH, DE, IT, FL, SLO,



# 1. Main results of the finalized projects

## CLIMALPTOUR

An analysis of different possible **impacts** (social, economic and environmental) **of climate change on the alpine tourism** sector and their complex interrelation;

An overview of **tourist areas** in the Alps where the effects of climate change can be stronger according to climate scenarios;

An analysis of **adaptation and management strategies for tourist sector** which better fit in the alpine region, considering changes in customer perception and new alpine strategies for tourism industry;

The availability of a **DSS for stakeholders** being able to make a first assessment of the local impact of Climate Change and to provide hints for possible adaptation strategies;

[www.climalptour.eu](http://www.climalptour.eu)

## CLISP

WP Synthesis Reports **assessment** of the climate change fitness of spatial

**10 Model Region Reports**

Final Results Print Publication

Transferable vulnerability assessment framework

Guidance for planners on the self-planning

Guidance for Risk Governance in Spatial Planning

Transnational Strategy for Climate Proof Spatial Planning in the Alpine Space

Transnational Expert Network on Climate Change Adaptation and Spatial Planning

[www.clisp.eu](http://www.clisp.eu)



# Adaptation to climate change in other mountain areas

The Balkans and the Dinaric Arc



## 2. The political and legislative response to adaptation challenges

### SEE level

- Disaster Risk Reduction Initiative;
- Belgrade SEE Climate Change Initiative;
- Community Civil Protection Mechanism and Civil Protection Financial Instrument;
- Civil Military Emergency Preparedness Council for South Eastern Europe;
- Regional Environmental Network for Accession;
- European Network for the Implementation and Enforcement of Environmental Law
- South East European Climate Change Framework Action Plan for Adaptation;
- Environment Compliance&Enforcement Network for Accession.



## 2. The adaptation challenge in South Eastern Europe

The consequences of climate change will be more evident in the most vulnerable areas, such as the South Eastern Europe.

Country Perils										
	Earh Quake	Flood	Land Slides	Drought	Extreme Temperature	Wind Storm	Wild fire	Endemic Technologic al???		
Albania	x									
Bosnia and Herzegovina										
Croatia										
The FYROM Monenegro										
Serbia										
Kosovo/Territory under UN administration										
Slovenia										





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Country	Perils						
	Earth Quake	Flood	Land Slides	Drought Endemic	Extreme Temperature Technological	Wind Storm	Wild fire
Albania	X	X	X	X	X	X	X
Bosnia and Herzegovina	X		X	X	X	X	X
Croatia	X	X		X	X	X	
The FYROM	X	X		X	X	X	X
Montenegro	X	X		X	X	X	X
Serbia	X	X		X	X	X	X
Kosovo/Territory under UN administration -	X			X	-	X	-
Slovenia	X	X			X		



## 2. Initiatives in South Eastern Europe

- Disaster Risk Reduction Initiative;
- Belgrade SEE Climate Change Initiative;
- Community Civil Protection Mechanism and Civil Protection Financial Instrument;
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- Environment Compliance & Enforcement Network for Accession



## 2. Further actions...

### Research paper on adaptation to Climate Change in SEE

(February-May 2011: conducted by the Venice International University)

#### Objectives:

Analyze possible implications and impacts on natural resources due to the climate change effects in the SEE Region

Focus on:

**Transboundary issues**

**Mountain areas**

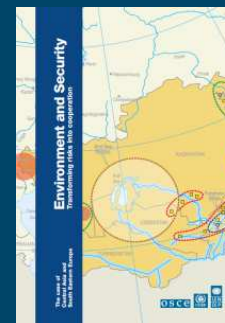
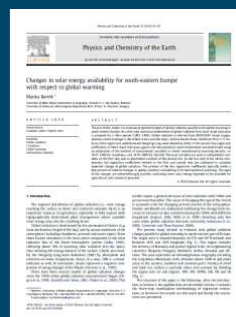
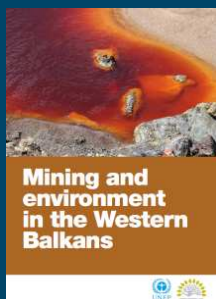
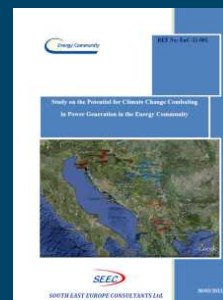
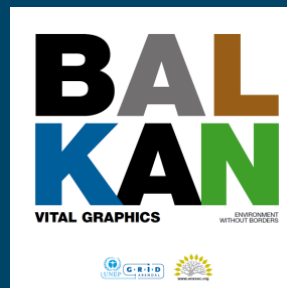
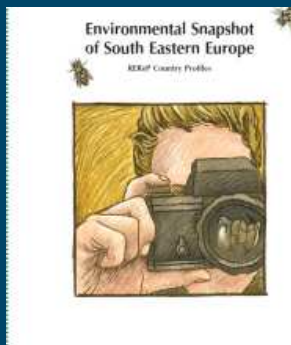
**Human health**

### ENVSEC (Environment and Security) Initiative

Partnership between UNEP and UNDP, OSCE, UNECE, REC, NATO is associated partner,

Supports the Austrian and Finnish Development agencies in the identification, prevention and reduction of environmental conflicts and tensions over shared natural resources and ecosystems, sources of pollution and waste among and within the countries in the Western Balkans and their neighbors





# THANK YOU

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