

# Environment and Security Initiative – Transforming risks into cooperation in South Eastern Europe

Seminar on Finnish Supported Environment and Forestry Projects in the Western Balkans

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with funding from

Austrian

**Development Cooperation** 



MINISTRY FOR FOREIGN AFFAIRS OF FINLAND



# ENVSEC

To facilitate a framework for cooperation on environmental issues across borders and promote peace and stability through environmental cooperation and sustainable development



# Partners

Environmental Expertise

Ministry of Environment

Conflict prevention Political Support Field Presences

Ministry of Foreign Affairs

Development Expertise Implementation Country Offices

**Development Agencies** 



O|S|C|e

Security/Science Expertise

Ministry of Defense



## Partners



Secretariat for 5 UN conventions relevant to the region, Environmental Performance Reviews

#### Ministry of Environment



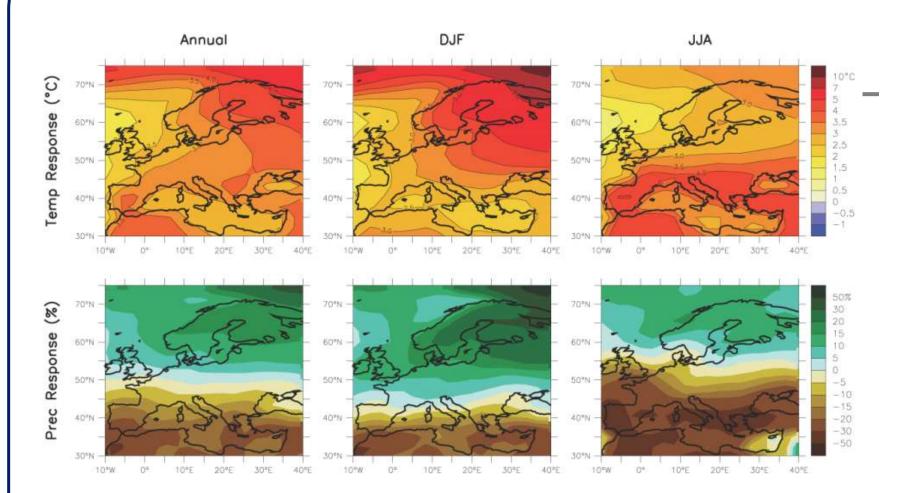
**REGIONAL ENVIRONMENTAL CENTER** 

National networks, Country Offices

Ministry of Environment



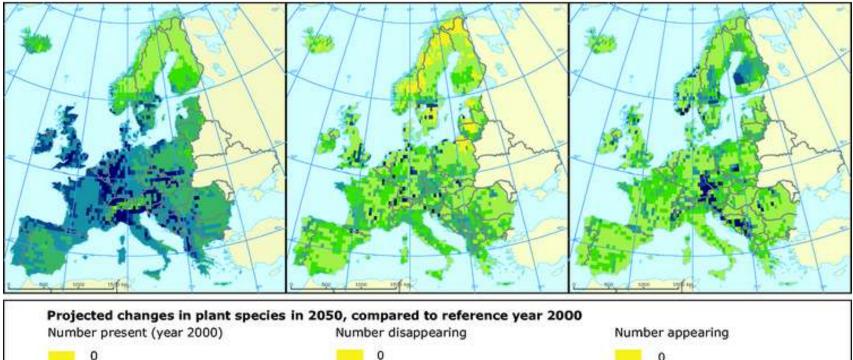
## **Climate Change in Europe**



Temperature and precipitation changes over Europe from the MMD-A1B simulations. Annual mean, DJF and JJA temperature and precipitation change between 1980 to 1999 2089 to 2099, averaged over 21 models

Source: IPCC 2007, AR4, WG1, p.875

## **Biodiversity loss and invasive species**









Source: EEA 2008, p. 113

North-western Europe (maritime climate) Increase in winter precipitation Increase in river flow Northward movement of freshwater species Higher risk of coastal flooding

500

1000

1500 Km EEA Report No 4/2008, p.19

#### Central and eastern Europe More temperature extremes Less summer precipitation More river floods in winter Higher water temperature Higher crop yield variability Increased forest fire danger Lower forest stability

#### **Mountain areas**

High temperature increase Less glacier mass Less mountain permafrost Higher risk of rock falls Upwards shift of plants and animals Less ski tourism in winter Higher soil erosion risk High risk of species extinction

#### Mediterranean region Decrease in annual precipitation Decrease in annual river flow

Decrease in annual river More forest fires Lower crop yields Increasing water Higher risk for de Less energy by h More deaths by h More vector-born Less summer tou Higher risk of bio

North-western Europe Central and eastern Europe Mountain areas

Mediterranean region

# BRIGHT SIDE mountain biodiversity DARK SIDE mining pollution





## Priority 1: Management and reduction of trans boundary risks from hazardous activities



#### Mining "Hot Spots" and and Artic water pollution in SEE Tel. ars been Region Do M They Basantan B Targe Person 11-4/0+ E Statute of ROM **Helphin** 4. abra **1** Rent Boy Velotion Constant

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Hazardoos indicatrial amp Mining site: Nuclear power generation site Waste disponal sile: Heavy pollated water Citize over 500'000 inhabitants without water treatment facilities. ADDRESS ADDRES KIODIAL CRIME **Regula Govern**  Electrolitics (Electrolity) Adaptation is a second

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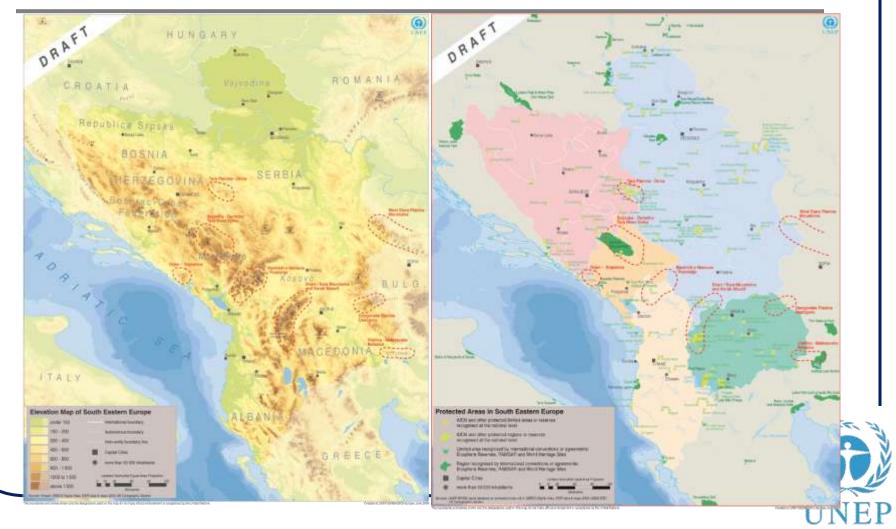
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# Priority 2: Management of shared natural resources



## Transboundary mountain areas

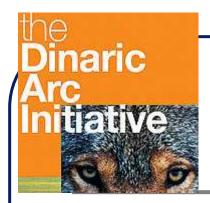
- Sharr/Sara Mountains and Korabi
- Bjeshket e Nemuna/Prokletije Mountains
- Sutjeska Durmitor Tara river valley (Bosnia and Herzegovina/Montenegro)
- Tara Planina Drina (Bosnia and Herzegovina/Serbia)

## Dinaric Arc and Balkan Regional Cooperation Process



- Protection and sustainable development of South East European mountain regions
- Trans-boundary approach to foster sub-regional cooperation and reduce individual work load





# **Dinaric Arc Initiative**

- preservation of Dinaric Arc's wealth and integrity through
  - establishment of networks of protected areas
  - Ecological corridors
  - conservation of its biological diversity
  - sustainable management of resources
- The promotion of intercultural dialogue, transboundary collaboration
- scientific cooperation among the countries of the region
- The integration of environmental policies across all relevant sectoral initiatives.



IS OF THIS MAP ARE INDICATIVE

Cooperation on the protection and sustainable development of south east european mountain regions - dinaric arc and balkans

> Mountain area (Nordregio, 2004)

> > 0 - 250

1.000.000 to 5.000.000 500.000 to 1.000.000 250.000 to 100,000 to

250,000 50,000 to 100,000 National border



EURAC Research, Institute for Regional Development, Flavic Roffini, Thomas Straifeneder, Beatrice Elasit, 2005 Data: Mountain Ansus in Europe, Nerdregio for EC - DG Regio, 2004, Major Cities - ArcNitorid Supplement © ESRI, 1999; National Borders - DCW © ESRI, 1999; GTOP90 data are distibuted by the Land Processes Distributed Active Archive Center (LP DAAC). located at the U.S. Geological Survey (USGS) Center for Earth Resources Observation and Science (ERCIS) http://LPDAAC.usgs.gov.

# Belgrade Statement

Art. 22. "We welcome the mountain partnerships within and between the Alps, the Carpathians, the South-Eastern European mountain region, the Caucasus and the mountain regions of Central Asia. We recognize the benefits from the existing legally binding instruments for the protection and sustainable development of the mountain regions like the Alpine and the Carpathian Convention, and welcome the initiative of South-Eastern European and Caucasian countries to develop such instruments. We encourage the Global Mountain Partnership to promote and foster exchanges of experience and expertise with other mountain regions in the world."



## Priority 3: Participatory and informed decision making and implementation processes

#### Objective

To strengthen national and local capacities for participatory and informed planning, decision-making, implementation and monitoring processes in relation to environment and security challenges and for environmental conflict prevention and resolution

### With special focus to:



the Aarhus Convention and its PRTR Protocol

and the Espoo Convention and its SEA Protocol



JUSTICE AABHUS CONVENTION for our environments

# Priority 4: Climate change adaptation for reducing security risks in SEE

PURPOSE

→ To reduce environment and security risks related to climate change through enhanced knowledge base of climate change impacts and regionally consolidated approach for adaptation

#### OUTCOMES

- enhanced knowledge base of climate change impacts in the SEE regions
- strengthened inter- and transnational cooperation on the reduction of sensitivity, the alteration of the exposure and the increase of resilience of the region to the adverse effects of climate change



# Proposed project for adaptation

- stakeholders consultation to ensure comprehensive information base on the climate change impacts the region faces and to detect vulnerabilities to climate change
- comprehensive report on climate change impacts, vulnerabilities to it and priority actions for climate change adaptation

### ACTIVITIES

- stocktaking of all available information that address the impacts of climate change on the region
- assessment of climate change impacts mountain regions in SEE, considering all aspects in different sectors in a trans-boundary perspective (integrated, multi-sectoral methodology stemming from the Alpine and Carpathian Conventions), pointing out vulnerabilities and potential priority actions for adaptation

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