

International Conference Mountain Forests in a Changing World UNI BOKU VIENNA April 2-4, 2008

Overview on State and Policy issues of the Carpathian Forests

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with Tommaso Anfodillo, Marco Carrer, Elisa Giacoma, Silva Lamedica and Davide Pettenella

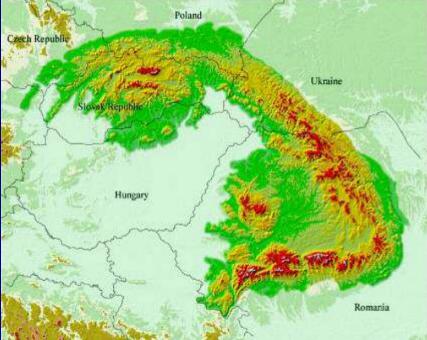


Presentation outline

Background: Carpathian mountain and the Carpathian Convention Objectives Methodology Environmental and management aspects Socio-economic and policy aspects Conclusions

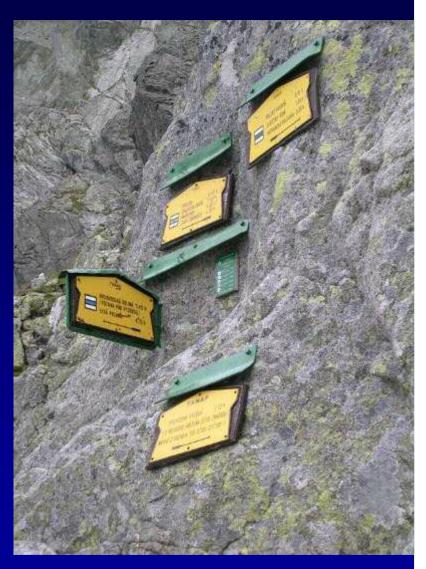
Background

Carpathian space
 Carpathian Convention
 Carpathian Project



Seven countries = Carpathian Space

- Europe's largest mountain range!
- Living environment for up to 18 million people!
- Europe's greatest reserve of pristine forest, refuge for brown bears, wolves, bison, lynx, eagles and some 200 unique plant species found nowhere else in the world
- **Continent's cleanest streams** and drinking water supplies
- **Unique** natural, historical and cultural heritage
- Haven for wildlife and ecological link within Europe



Carpathian Convention Unique agreement addressing exclusively mountain ecosystems

- Signed in May 2003
- Entry into force 4 January 2006
- Ratification by the Parliaments of all the Carpathian countries
- COP1 11-13 December 2006, Kyiv, Ukraine, COP2 -Romania 2008
- Political support of the EU, CC countries and V4:
- Carpathian Project promoted by the programme EU INTERREG IIIB CADSES
- Partnerships: MoUs with the Alpine Convention, the Ramsar Convention and Central European Initiative (CEI), cooperative agreement with EURAC



Carpathian Project



EU Community Initiative INTERREG III B CADSES Neighbourhood Programme (Carpathian Project): September 2005 - August 2008

General Strategic Process: The assessment of the forests status is a necessary implementation of the Work Package 2 Activity 2.7: Forestry and timber industry

Sectoral Studies

Water
Transport
KEO
Tourism
Forestry
Agriculture



[Draft] Report of the Workshop on

Conservation and Sustainable Use of Forests, Biological and Landscape Diversity in the Carpathian region

FAO Sub-Regional Office for Central and Eastern Europe (FAO/SEUR) Budapest, Hungary

19-20 September 2007

Ojectives



COP1

11-13 December 2006, Kyiv, Ukraine

= CURRENT STATE OF FOREST RESOURCES

description of forest resources and forest management problems

CHALLENGES AND PRIORITY FOR ADAPTING THE MANAGEMENT OF CARPATHIANS FORESTS TO NEW ENVIRONMENTAL AND SOCIO-ECONOMIC CONDITIONS

= analysis of the main policy issues connected with the protection and use of forest products and services

Methodology

General approachReasearch methodology

Science for the Carpathians -S4C

Partnership among scientific institutions for supporting the Carpathian Convention
 Members from Carpathians and non-Carpathians countries
 Network for research
 Development of new projects

Bibliographic databases (web, libraries)

Field trips:

- Romania (ICAS Suceava) August 2007
- Ukraine (URIMF Ivano-Frankivsk) October 2007
- Slovakia (FRI Zvolen) October 2007

Meetings :

- Vienna (UNEP) July 2007
- \blacklozenge
- Budapest (FAO-SEUR) September 2007
- S. Vito di Cadore Italy (Centro Studi per l'Ambiente Alpino, Università di Padova) November 2007

Questionnaires

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Environmental and management aspects

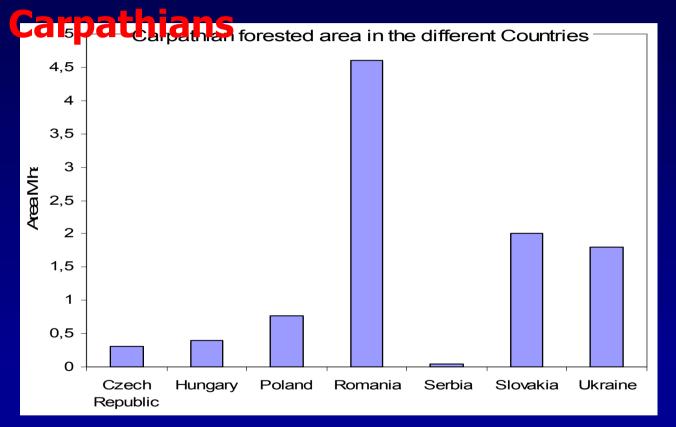


Forested area in the

Carpathians

| Cui | COUNTRY AREA | FOF | REST REA | Carp. region / Country | | FORE Carp. ARE region / in th Carp. Mt.s Car Regi | | REA the arp. | Carp. forests / Country Forests | Carp. Region forests / Carp. Forests |
|-------------------------|-----------------|-------|-------------|------------------------------|-------|---|------|--------------------|--|--|
| | M ha | M ha | % | M ha | % | % | M ha | M ha % | | % |
| Czech Republic | 7.89 | 2.65 | 33.6% | 0.71 | 9.0% | 3.8% | 0.31 | 43.4% | 11.7% | 3.1% |
| Hungary | 9.3 | 1.98 | 21.3% | 1.34 | 14.4% | 7.2% | 0.40 | 29.6% | 20.1% | 4.0% |
| Poland | 31.27 | 9.00 | 28.8% | 1.67 | 5.3% | 8.9% | 0.76 | 45.6% | 8.4% | 7.7% |
| Romania | 23.84 | 6.43 | 27.0% | 7.70 | 32.3% | 41.2% | 4.60 | 59.7% | 71.6% | 46.4% |
| Serbia | 8.84 | 2.31 | 26.2& | 0.07 | 0.8% | 0.4% | 0.04 | 60.1% | 1.9% | 0.4% |
| Slovakia | 4.9 | 2.01 | 41.0% | 3.51 | 71.5% | 18.7% | 2.01 | 57.3% | 100.0% | 20.2% |
| Ukraine | 60.37 | 10.80 | 17.9% | 3.70 | 6.1% | 19.8% | 1.80 | 48.6% | 16.7% | 18.1% |
| Carpathian Mountains | | | | 18.70 | | | 9.92 | 53.0% | | |

Forested area in the



Carpathian forests: ~ 10 M ha (> 50% total Carpathian area)

> 300 000 ha virgin forests

Stand composition

Carpathian Montane forests WWF Ecoregion CORINE 2000 categories

MIXED FORESTS:

Mixed spruce – silver fir – beech forests

23.13% 31.93% 44.94%

BROADLEAVES FORESTS:

Montane and submontane Beech forests,

Oak, Oak-hornbeam forests,

Alder-tree, Sycamore forests

CONIFEROUS FORESTS:

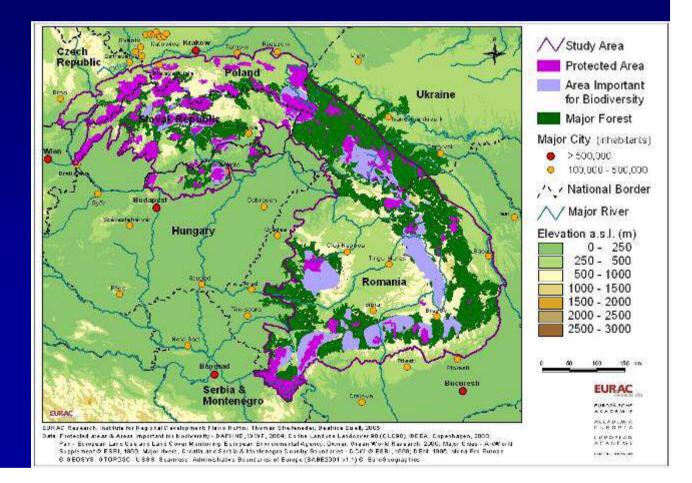
Spruce forests, Silver fir – Spruce forests

Natural composition sometimes altered by past forest management -> Spruce monocultures in the montane and sub-montane

Forest management

- Mostly even-aged forests. Clear cutting is still largely practiced (37.5% commercial forests in Slovakia, problems of private forests in Romania, ...)
- Often artificial regeneration, but natural regeneration is increasing (Slovakia: 35%, Romania: 70%)
- Adjustment of stand composition (Poland, spruce monocultures)
- Sanitary cuttings (forest damages: wind, insect pests...)

Socio-economic and policy aspects



Institutional structure

| Country | National level | National Forestry Authority Regional level and ins | stitutions | | | |
|----------------|---|--|---|--|--|--|
| Czech Republic | Ministry of Agriculture | • | The Forest Management Institute (FMI); | | | |
| | Ministry of the Environment | | The regional governments (kraje) and municipalities | | | |
| Hungary | Ministry for Agriculture and | The National Forest Authority 11 regional offices of NFA | | | | |
| | Rural Development | National Water, Environment and | | | | |
| | | Nature Conservation Authority | | | | |
| Poland | Ministry of the Environment | The National Forest Holding the State Regional Directorates of State | te Forests or directors of | | | |
| | | Forests The Forest Cc | by provincial | | | |
| Romania | Ministry of Agriculture, Forestry and Rural Development | The National F Administration | lva territorial units ality (Forest | | | |
| | | The National F structures | personality (the Institute). | | | |
| Serbia | Ministry of Agriculture, Forestry | | | | | |
| | and Water Management | State forest | e" public | | | |
| | Ministry of Science and | | jement of state- | | | |
| | Environmental Protection | administration and | | | | |
| Slovakia | Ministry of Agriculture | State forest enterpris | – departments of | | | |
| | Ministry of Construction and Regional Development, | State forest enterpris | es | | | |
| | | Description line time. | ıt; | | | |
| | | Decentralisation | | | | |
| Ukraine | Cabinet of Ministers of Ukraine | State Forestry process under way | jement Committee | | | |
| | Ministry of Agricultural Policy | | a, 24 regional | | | |
| | Ministry of Environmental | Old research and | al level); | | | |
| | Protection | Olu research and | ; (at the local | | | |
| L | | university institutions | | | | |
| | | | | | | |

Policies Three main objectives:

All the Carpathian Countries have adopted **policies related to sustainable forestry management**

- to strengthen the economic function of the forest: importance of wood as a source of income for Carpathian countries
- to improve and protect the environment: maintain and appropriately enhance biodiversity carbon sequestration integrity health and resilience of Carpathian forest. E.g.:
- Czech Republic: "National Biodiversity Strategy" and "Strategy for the Protection of the Earth's Climatic System" (1999) (implements the Kyoto Protocol and proposes the creation of economic tools to promote energy savings and afforestation)
- Slovakia: "Strategy and Plan of Forestry Development"
- to contribute to a better quality of life: preservation and support cultural, traditional heritage and social dimension of forests (tourism). To reach these objectives the policies maintain and enhance the protective functions of forests.

Principles reflected by policies Integration of the 12 principles of art 7 of the Convention into the formal forestry

| Principles | Y/N | | | | | | | | |
|--|--------|------|-----|-----|--------|--------|------|--|--|
| | CZ-REP | HUNG | POL | ROM | SERBIA | SLOVAK | UKRA | | |
| Sustainable management of forest | Y | Y | Y | Y | Y | Y | Y | | |
| resources and forests lands | | | | | | | | | |
| Protection of forests against pollution | Y | Y | Y | N | Y | Y | Y | | |
| Prevention and protection against fire, | Y | Y | Y | Y | Y | Y | Y | | |
| pests and diseases | | | | | | | | | |
| Public information on forests ecosystems | Y | Y/N | Y | Y | Y | Y | N | | |
| Public participation in development, | N | Y/N | Y | Y | Y | Y | Y | | |
| implementation and planning of national | | | | | | | | | |
| forest policies | | | | | | | | | |
| Recognition of vital role of forests in | Y | Y/N | Y | Y | Y | Y | Y | | |
| maintaining the ecological processes and | | | | | | | | | |
| balance. | | | | | | | | | |
| Aforrestation and reforestation | Y | Y | Y | Y | Y | Y | Y | | |
| Assessments of economic and non | Y | Ν | Y | N | Y | Y | Y | | |
| economic values of forest goods and | | | | | | | | | |
| services | | | | | | | | | |
| Protection of natural forest areas | Y | Y | Y | Y | Y | Y | Y | | |
| Protection of ecologically representative or | Y | Y | Y | Y | Y | Y | Y | | |
| unique types of forests | | | | | | | | | |
| Consideration of alternative uses of forests | Y | Y/N | Y | Y | N | N | N | | |
| Ensure appropriate retention of | N | Y/N | Y | Y | N | Y | Y | | |
| precipitation in the mountains for flood | | | | | | | | | |
| prevention | | | | | | | | | |

Forestry legislation (1/2)

All countries have at least one general act dedicated to forests

Only Ukraine has Moratorium on clear cuts on mountain slopes in the beech-fir forests specific for the Carpathians Main concerns in the national legislations: forest management planning and conservation of biodiversity and the ecological functions of the forests

Examples:

Poland has adopted a "Regulation on the improvement of forest management according to ecological rules". It prescribes for example:

- the maintenance of riparian forests and the protection of forest wetlands
- the preparation of nature conservation programmes as annexes to forest management plans
- the promotion of natural forest regeneration
- restrictions on clear-cuts

Forestry legislation (2/2)

- Czech "Act on Forests" defines the preconditions for the preservation of the forests their care and regeneration and for support for sustainable forest management
- Serbian "Law on Forests" is in force but a new law is in preparation and the future legislation will be harmonized with the EU legislation
- **Romania:** many laws and reconstruction of and logging activities which activities. These numerous a **inconsistency betw** inconsistency between each other: for instance som ire legislation and law in contradiction with the "La implementation (e.g. : permission for the hunting c **Romania for harvesting** Ukraine: inconsistencies bet Fund" and the "Land and For ive authorization) sanitary cuts on the territory protection zones of biosphe →room for mu while the *Forestry Code* imperent exchange and \rightarrow room for mutual rks such measures

Forest land restitution (1/2)

Problems caused by the restitution: creation of a very large numbers of private forest owners many with small holdings (<5ha) and limited background in forest management

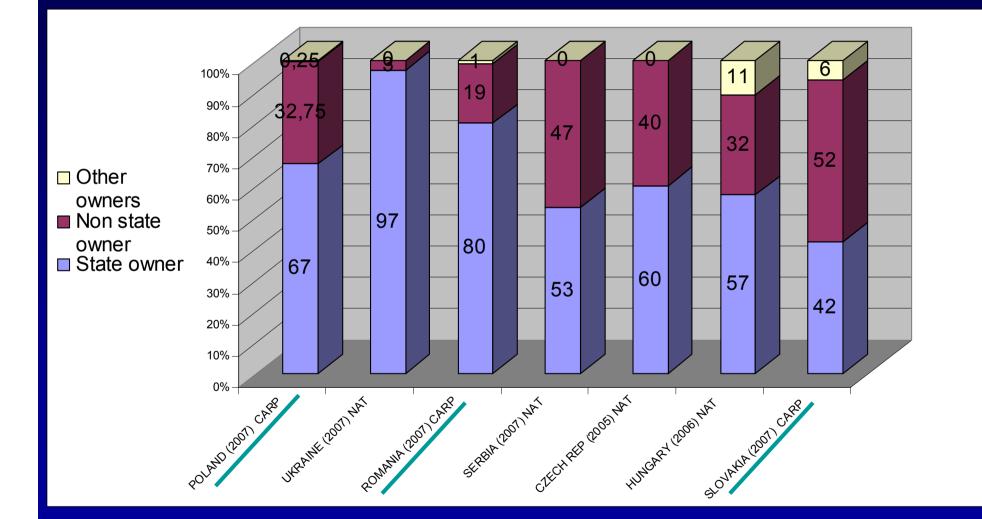
In Carpathian area there are **828 000 private forests** (2007) for a total area of **2.3 M ha Ownership fragmentation** is a special problem in the Czech Republic, Poland, Serbia and Romania

- Poland: Polish State Liberation Committee (Decree of 12 December 1944): private forests owners (> 25 ha) loose properties in favour of the (State) Treasury
- National policy excludes privatisation of the State Forests. Restitution only after payment
- Hungary: the process has been declared ended after:
 - Law on compensation (passed in 1991; entered into effect in 1992)
 - Law on the dissolution of socialist co-operative farms (1992)

Forest land restitution (1/2)

- Romania:
 - Law no 18/1991: approx 0.3 M ha of forests were returned to private;
 - Law no 1/2000: approx. 1.9 M ha of forests were returned to the private owners;
 - Law no 247/2005: approx. 0.3 M ha were returned (at the end of 2006)
- Serbia: restitution of forests to churches in Serbia is not performed yet
- Slovakia: final phase. Still 7% of private forests
- **Ukraine**: restitution not the main issues in forest policy reforming. Two reasons:
 - different historical developments of Western and Eastern Ukraine (problems to find information about former owners before Second World War)
 - a fear that forests would be destroyed immediately if privatized

Forest ownership structure



Illegal Logging

| A se | nsible | oroblem for | | Carpathian Region | | | |
|--------------|--------------------|-------------------------------------|------------------|-------------------|---------------------------------------|----------------------------|--|
| publ | | | of | The volume | Percentage of the total | | |
| → A actic | priority on? | / area "for po 1000 m3 (2003) | volume logged | | logged illegally 1000 m3 (2007) | volume logged (2007) | |
| Slov | akia | 62.4 | | ~1% | 62.4 | ~1% | |
| Ukra | line | 83.8 | | <1% | 11.1 | 0.26% | |
| Rom | ania | 80.8 | | <1% | | | |
| Pola | nd | 34.6 | | ~1% | 15.3 | 0.3% | |
| | (2001) | 148 | | 1% | | | |
| | rce: UNEC orts) | E/FAO 2004 (III) | egal log | ging es | timates from co | untry | |

SFM certification (2007)

| | PEF0 National | | Carpathian | Regions | FSC National | | Carpathian regions | | |
|-----------|------------------|--------|--|-------------------------------|-----------------|--------|--------------------|--------|--|
| | ha | forest | ha | forest | ha | forest | ha | forest | |
| CZECH REP | 1 940 142 | 1 | 0 | 0 | 14 554 | 4 | 0 | 0 | |
| SLOVAKIA | 537 120 | 2 | 537 120 | 2 | 162 251 | 6 | 162 251 | 6 | |
| HUNGARY | 0 | 0 | SFM standard development | | | | | | |
| POLAND | 0 | 0 | | | | | opnen | 3 | |
| UKRAINE | 0 | 0 | \rightarrow | \rightarrow room for mutual | | | | | |
| ROMANIA | 0 | 0 | exchange and | | | | | | |
| SERBIA | 0 | 0 | laa | armon | ization | 1 | 0 | 0 | |
| TOTAL | 2 477 262 | 3 | 537 120 2 7 585 532 48 1 941 812 | | | | 12 | | |

Source: <u>www fsc org</u> and <u>www pefc org</u>

Conclusions

Main obstacles
 Some priority fields of actions
 Spillovers



Main obstacles

- Lack of financial tools to turn private owners and forest managers towards sustainable forestry
 - traditional method of logging (large clear cuts) used of past
 - introduction of non-natural species
 - inadequate wildlife management
- Technical support to private forest owners and forest associations: inadequate support for forest protection, logging techniques and forest planning
- A low awareness among the public and lack of understanding among State authority representatives and forests managers
- Participative approaches and the role of civil society in forest resources management

Model forests

International Model Forest Network LANDSCAPES + PARTNERSHIPS + SUSTAINABILITY

rancak - Españo

Model Forest Network > About Us

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- + What is a Model Forest?

About the International N

The International Model Forest Network (IMF [SFM] and use.

Model forests don't just happen by themselve Someone has to plant the initial seed, to infor IMFN. It converts the collective experience at

The international Network's Goal

The primary goal of the international program ensure that all partners, regardless of political forest-based landscapes.

Our three key objectives are:

- To foster international cooperation an
- To support international cooperation it
- · To support ongoing international discu

As a long-term goal, the Network will serve a forests will share their knowledge and encour benefits for humanity.

The Secretariat

The model forest approach was first brought ("Internationalize" its thriving, innovative Mor-International Development Research Centre sustainable manner.

The role of IMPNS is to facilitate the creation Secretariat provides the central day-to-day co where there is no regional network in place, s

- · Networking between sites and regions
- · Assistance in resource expansion
- Technical and logistical issues in establishing and operating model forests.
- · Communications, advocacy and outreach
- Targeted program support (as available)
- · Partnership development and capacity-building
- Documentation
- · Monitoring and evaluation

http://www.imfn.net/en/

INTERNATIONAL MODEL FOREST NETWORK



Some phoney helds for

actior

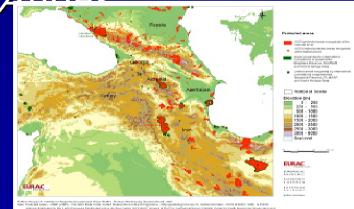
- Action plans regarding afforestation and timber cut should be adopted including the change to selected cuts (close to nature selviculture).
- Action against illegal logging (FLEGT and ENA-FLEG):
 - → law implementation, also against organized criminals
- \rightarrow poverty alleviation in rural areas
- Promotion of agri-environmental practices and traditional products (NWFP) and forest-environmental schemes (
 tourism): payments for environmental services
- Virgin forests: improving protection, monitoring, networking, + corridor
- Improvement of the system of environmental assessment of forestry activities
- Establishment of forest resource database for the

Balkan / Caucasus / HKKH

Sharing the Experience – Legal Instruments for the Protection and Sustainable Development of Mountain Regions in South Eastern Europe / the Caucasus, Bolzano 12-16 December 2005

Observers from HKH, Andes







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