

2nd Planning Meeting of the Carpathian Sustainable Learning Network (CASALEN)
Production of the Training Tool Kit on ESD in the Mountain Areas
Trencin, Slovakia
29-30 January, 2009

Day 1, January 29th

The first day of the workshop was devoted to discussion and finalization of decisions with respect to the development and production of the toolkit.

Opening of the workshop: Attila Varga

The workshop started with an introduction – activity of the participants (Please, find the list of participants with contact details in Annex 1)

Following the introductions, several presentations were given¹:

- **Ms. Tamara Mitrofanenko (UNEP, Vienna)** presented the workshop objectives and the Carpathian Training Tool Kit ideas/recommendations²
- **Ms. Luminita Chikinash (School Inspectorate, Cluj County, Romania)** gave a presentation of the teacher training proposal in Romania, taking into consideration the “design a trail” concept, proposed for the tool kit.
- **Mr. Attila Varga (Hungarian Institute for Education research and Development)** introduced and distributed the publication “From Management to Mandela”, for the participants in order to use it as an international contribution resource for the Tool Kit.
- **Ms. Iona Morzol (UNESCO Poland)** introduced the UNESCO toolkit
UNESCO is working on the 3rd version of the kit: materials for teachers and students, telling what the world heritage is about and why it should be protected, and how to teach/discuss with the young people about these matters.

¹ The presentations given are available at the CASALEN website
<http://www.unesco.pl/edukacja/casalen.html>

² The Preliminary Carpathian Tool kit concept, circulated to the participants before the meeting, can be found in Annex 3

Most UNESCO materials are downloadable. Ms. Morzol suggested to approach UNESCO to use the existing maps of the world heritage

- **Ms. Andrea Kralovicova (Daphne- Institute of Applied Ecology)** Presented the World Of Carpathians Handbooks. Developed jointly by Daphne and the Carpathian EcoRegional Initiative (CERI):

Handbooks strictly focused on the ecosystems: wetlands, forests, grasslands
Exercises of different degree of difficulty. The handbooks will be produced in Polish and Slovak.

CERI is hoping that interested organizations in Romania/other Carpathian countries, can receive funding for translation and use of the toolkit

Activities

CERI will organize the training for teachers and environmental educators, supporting it by the teaching tools/worksheets, which will be included into the handbook. The International training will be conducted in October – November: inviting 1-2 teachers from every Carpathian country.

It was discussed that UNEP/CASALEN may cooperate with CERI and organize joint training, including the Carpathian ESD Training Tool kit.

Discussion on the tool kit followed. Decisions were made with respect to the production of the tool kit: the Topics covered, the chapter structure, the authors, the editors of the tool kit, and the deadlines for the production of the toolkit.

The decisions taken are reflected in the Carpathian Mountain ESD Tool Kit Concept below.

The Carpathian Mountain ESD Training Tool Kit Concept

Main Aims:

- To provide a gate to the existing ESD materials and activities
- To Encourage the teachers to look for connections and resources: such as natural parks and protected areas
- Encourage the teachers to use the existing resources with the view of the Carpathian Sustainable Mountain Development
- To encourage critical thinking and active participation of the communities

- To facilitate interaction and experience exchange between the mountain communities within each country, as well as on a regional level
- To collect local information on existing natural and cultural resources and sustainable development challenges, in order to provide local input into the natural and cultural resource inventories, and to form recommendations for national governments and international developmental efforts,.

Means:

Connections will be established, through joint work, between the local educational authorities, the activists in the field of Education for Sustainable Development, and the protected areas.

- Provided resources and information, the teachers will be guided and encouraged to work with the students to find unique natural and cultural components, positive and negative features, and to reflect these on the blind map of the community/country/region by creating a tourist trail through the local area.
- The students will be encouraged to discover the resources offered by the local area and challenges for sustainable development and to think of what they can do to improve their community and to profit from the resources they discover in a sustainable way.
- The teachers and students will be guided to upload the local inputs into the training tool kit (the maps of the trails created, other projects/exercises) electronically on the project web-site, to create a regional database of natural and cultural resources and sustainable development challenges discovered by the participants in each community. Thus, the compiled information will be available to share it with interested stakeholders, for potential additions to the cultural and natural resource databases and to form recommendations to the national ministries and intergovernmental bodies working in the field of Sustainable Education and Sustainable Development .
- Follow-up national and regional experience - sharing meetings will strengthen connections between the participating partners, teachers and students from different counties in a country and later between the countries, thus encouraging connectivity between the mountain communities.

Target Audience:
teachers of various disciplines:

- Sciences
- Literature
- Foreign Languages
- Arts and crafts
- Physical education

Form of the Tool kit:
Electronic and Printed

- The printed tool kit will be in a form of a binder, with removable pages, in order to allow to photocopy. Each binder will contain a collection of resource maps of the region and of the country, and large blind maps of the region and of the country for the main exercise.

The first printed version will be produced in Romanian, and printed in Romania

- An electronic version of the tool kit will be created on a UNEP Move4Nature project web-site, which will serve to support a network of communication and experience exchange on ESD in the mountain areas between experts, teachers, and activists in the field.

The English version of the tool kit will exist only in the electronic form, and will be used for translation to the other Carpathian language/adaptation to other regions, such as the Caucasus.

Components:
The tool kit will consist of the following components:

- **Introduction:**
 - Sustainable Development and the mountain areas
 - Interdependency between the mountain areas and the rest of the country (Water resources, etc)
 - Carpathian Convention
 - **Possibly: The world heritage convention info?**
 - How to use/read the toolkit
 - Explanation of use by teachers of various disciplines
 - Educational/political rationale behind the toolkit
 - Creative/critical thinking
 - Complexity/system thinking

- Sustainable practices: explanation what is sustainable practice and what is not sustainable practice
- School development in a mountain area

- **Main activity of the tool kit:**

“Designing a Carpathian nature/cultural trail” – The teachers are guided to work with the students to make a “trail” representative of their local part in the Carpathians, taking into consideration resources and information provided by every chapter, such as:

- natural resources of the Carpathians the trail presents,
- the transport to/through the trail,
- cultural components the trail can offer (local products that can be produced there, such as medicinal plants/crafts),
- existing parks and protected areas
- environmental problems/sustainable development challenges of their local area (plant/animal species decline, changes in the landscape, energy challenges and opportunities, loss of traditional culture).

- **Chapters**

- Introduction
- Biodiversity
- Energy, transport
- Landuse, Waste
 - (Soil Bucharest University inputs)
- Cultural heritage
- Water management
- Local indicators of environmental problems
- Craft and technology, Agriculture
 - (some CEFIDEC inputs)
- Public participation
- Sustainable tourism

- **Chapter structure:**

5-15 page in length maximum, including information and activity sheets.

The main component of the chapters are critical thinking questions guiding the teachers and students to creatively use facts and references presented in the chapter in designing the trail on the blind map.

- Intro – Aims of the chapter
- Activity
- Factsheet
- Concept map

- Questions: referring to the critical thinking about the topic covered in the chapter in connection with the respective local area, leading to the reflection of each aspect on the map
- References, links, references to the curricula
- Case studies
- **Maps**
 - Maps of the region (Carpathian) and of the respective country
 - Blind maps: of the region, of the country, and of the local area: large size, in folded form.
 - Blind maps of the area: unless provided, information will be given on how to find/access the maps of the local area

Ms. Luminita Chicinas informed that some digital maps are available in the Romanian regional agencies, and offered to find out if the maps can be used (Romania has 7 regional agencies, each agency oversees 6 counties)

Mr. Hubert Hilert offered to prepare the correction of the maps by GIS system,

- **Chapter authors**

Introduction	Ana Seke and Miroslav Tadik Inputs from Interim Secretariate of the Carpathian Convention
Biodiversity	CERI could provide the English version of the World of Carpathians for adaptation to the toolkit (Andrea Kralovicova – Bratislava)
Energy, Transport	Climate Action Network – Romania (Potentially: Soil Bucharest University inputs)
Land-use, Waste	Climate Action Network – Romania
Cultural Heritage and Traditional Knowledge	It was decided to approach ANPED to write the chapter (with inputs from Ms. Iona Morzol)
Water Management (How to use, to save, indicators of quality)	Maria Toth
Local indicators of environmental problems	Hubert Hilbert
Craft and technology	Luminita Chicinas (Potentially - Inputs form CEFIDECon traditional agriculture)
Sustainable Tourism and Parks	CNPA Romanian partners Input from Serbia (ethnovillages) – Ana Seke Input from Romania: Luminita Chicinas
Public participation	Katalin Czippan and Luminita Chicinas

It was suggested to approach:

- CEFIDEC (Romania) to provide input on traditional Agriculture
- Rodica Stanescu (Bucharest University) to provide input on Soil (1,2 activities and/or factsheets)

Some remarks for authors:

As the project name is "Move4Nature" and was initiated in the context of Mobility please reflect on mobility in the chapters where possible.

Also some reflection on agriculture is needed as most of the training will be hold on such locations where agriculture is the main economic activity.

The main focus is on the protected areas, and the toolkit can be also used with the adults. Toolkit should encourage local entrepreneurship and provide some viewpoint about how to build on it in a responsible way. Internalization of these concepts into the way o life of the children and their parents is needed.

- Proposals to identify a sustainable living in nature: using the resources by not destroying them are important.

-Give positive and negative examples

Example: to search on the map river which is polluted by waste and with is clear. Mountain areas; can not survive alone without the rest of the country integrated policy of a country or a region is needed.

Deadlines:

UNEP – CASALEN will provide as soon as possible.:

1. The report and conclusions of the meeting till 7th February
2. A template of a letter describing the project and the book till 20 February

End of February	First draft materials Attila will provide examples for evaluation questionnaire
Mid March (15-22)	Editing and reviewing
March 22 nd – end	Adaptation and finalization
April 1-22	Translating, adding local examples:
April 10	Luminita will provide the adapted versions in Romanian Attila and Luminita will develop a questionnaire for the Romanian participants.
April 23-24	Training of the trainers in Romania, Distribution of the material to the trainers
7 May	First training course

Day 2, January 30th

The second day was devoted to the discussion of:

- The testing of the tool kit in Romania
- The follow-up of the project (after the Romanian trainings)
- The web-site and e-component of the tool kit

The testing of the tool kit in Romania

There is a directorate for teachers training in Romania, and a national center for the teacher training where the programs get credentials. It was decided, that as soon as the responsible persons in the Romanian Education ministry are decided, UNEP and CASALEN will approach them to receive their signatures and permission to establish professional credentials for the trainers and the trainees.

Training of the trainers for the Romanian Teacher training was proposed to be conducted in Cluj – Napoka in April 23-24, 2009.

Organizers: Ms. Luminita Chicinas and Ms. Maria Toth

Rationale:

The trainers in every location should incorporate the Tool kit into their training programme.

Every training should produce similar products, while drawing on the strength of each training organization. The training will have a basic core, and the NGOs can contribute with their activities.

General components of the training were summarized, using the proposals from the organizers in each location:

- Introducing the project method
- Using various components for creating the trail
- Use of reusable materials in the learning activity (PET component:)
- Teaching to used the tool kit

It was decided that during the training sessions, the trainers and the teachers will be requested to contribute to the tool kit with local examples

After the trainings, it was suggested that an experience exchange/results workshop will be held (tentatively on June 4th, 2009) to give feedback and recommendations on the tool kit. (Location – Cluj – Napoka, Organizers: Ms. Luminita Chicinas and Ms. Maria Toth)

On June 5th, - the World Environment Day, the toolkit, with iputs from all participating counties, will be presented during the street event in Cluj – Napoka (Organizers: Ms. Luminita Chicinas and Ms. Maria Toth)

Teachers participating in the training and trainers from the other participating locations I Romania will be invited to participate in the event, to bring their local inputs into the tool kit, and thus combine the inputs from all participating counties.

The Follow-up of the project

Final English and Romanian version of the toolkit will be produced
English version will be only electronic, available on the UNEP – Project web-site

The recommendations of the Romanian participants will be reviewed to add adjustments to the training tool.

○ Potential Follow-up in Romania

The Romanian members of CASALEN suggested that follow-up training could be organized in other counties in Romania, using the teachers trained in the initial trainings in May. This would be a welcome follow-up of the project, and it was originally envisioned that the trained teachers should share their skills with the others.

However, such follow-up should be up to the Romanian partners.

The financial support for the follow-up can come from the interested Romanian sponsors (such as Petrom). It is thus recommended to think of potential sponsors, inform them and invite them to the training.

○ Follow-up in the other counties

It was decided to explore options for testing the tool kit in other Carpathian countries³, and delivering inputs into the tool kit from local areas in other countries

After the testing in other countries, a workshop will be held on lessons learnt and the recommendations can serve as an input into the policies of UNESCO and UNECE

It was suggested to provide the following message to the UNECE Steering Committee members on behalf of UNEP and ENSI⁴ :

- We are developing the process of networking and cooperation for the support of Education for Sustainable Development in the Carpathians, currently focusing on the Mountain Rural Areas,
- our aim,
- the expected follow-up,
- the request for support,
- Proposals to provide recommendations .

³ As the Move4nature initiative starts in the Caucasus, the training tool kit will be presented for consideration and adaptation to the Caucasus partners. Thus, a version of the toolkit may be used during the training in Iran and potentially other Caucasus countries.

⁴ The Tool Kit Concept in the form for dissemination is included in Annex 4.

Collecting suggestions and input into the policy advice

It was suggested to consider the handbook produced by REC on the Carpathian convention and implementation: local and regional authorities getting involved into the policies

- REC handbook is out, but there is no drive from the bottom, and this will provide the drive for it.

Web-site and electronic component:

UNEP will set up a project web-page and provide links to the existing CASALEN page (hosted by UNESCO – Poland).

It was recommended that the project is connected/or takes place of an Educational web-page under the Carpathian Convention – in order to link easily to potential partners and stakeholders of the Carpathian Convention

The target audience are people interested in the education, teachers

The page will contain the electronic component of the toolkit.

The main English version

Links will be provided to the Romanian version

The partners in other countries will be able to use the existing version for translation

Annex1. List of Participants

2nd Planning Meeting of the Carpathian Sustainable Learning Network (CASALEN) <u>Production of the Training Tool Kit on ESD in the Mountain Areas</u> Trencin, Slovakia 28-30 January, 2009				
List of Participants				
Country	Name	Position	Organization	E-mail
Austria	Ms. Tamara Mitrofanenko	Consultant Project manager	United Nations Environment Programme, Regional Office for Europe (UNEP ROE) Vienna	Tamara.Mitrofanenko@unvienna.org
Czech Republic	Ms. Jana Urbancikova	CNPA NFP	Bile Karpaty Education and Information Centre	urbancikova@bilekarpaty.cz
Hungary	Mr. Attila Varga	Senior Researcher Focal Point	Hungarian Institute for Education research and Development Environment and School Initiatives (ENSI)	Varga.attila@ofi.hu
	Ms Katalin Czippán	Member of Board	Hungarian Society for Environmental Education	czippank@vnet.hu
Poland	Ms. Ilona Morzół	DESD Coordinator	Polish National Commission for UNESCO	i.morzol@unesco.pl
Romania	Ms. Maria Toth	Head	Environmental Organization HERO, Educational Department	herototh@cluj.astral.ro
	Ms Luminita Florentina Chicinas	Head	Inspectoratul Scolar Judetan Cluj, Cluj County Schools Inspectorate	luminita_chicinas@yahoo.com
	Ms. Eliza Teodorescu	President	Climate Action Network - Romania	eliza.teodorescu@rac-ro.ngo.ro

List of Participants				
Country	Name	Position	Organization	E-mail
Serbia	Ms. Ana Seke	Advisor	Ministry of environment and spatial planning	ana.seke@ekoplan.gov.rs
Slovakia	Mr. Hubert Hilbert	President	Committee for Sustainable Development	hilbert@slovanet.sk
	Ms. Andrea Kalovicova		Daphne- Institute of Applied Ecology	kralovicova@daphne.sk

Partners not able to attend the meeting				
Country	Name	Position	Organization	E-mail
Austria	Mr Günther Pffafenwimmer	Head of Subdepartment V/11c, Environmental. Education	Federal Ministry for Education, Arts and Culture	Guenther.Pfaffenwimmer@bmukk.gv.at
Czech Republic	Mr. Jiří Kulich	Head	Centre of Environmental Education SEVER	jiri.dlouhy@czp.cuni.cz
Serbia	Mr. Miroslav Tadic	Advisor	Ministry of Environmental Protection	miroslav.tadic@ekoserb.sr.gov.yu
Ukraine	Mr. Sergiy Stepanenko	Rector, OSEU Head of Commission ESD Focal Point	Odessa State Environmental University Ministry's Commission of Environmental Education	rector@ogmi.farlep.odessa.ua

Annex 2. Agenda

Agenda:

2nd Planning Meeting of the Carpathian Sustainable Learning Network
(CASALEN) on Education for Sustainable Development in the Carpathians:
Production of the Carpathian Training Tool Kit on ESD in the Mountain

Areas

Trencin, Slovakia
28-30 January, 2009

28 January, Arrival day:

19:00 Welcome Dinner

29 January Full Working day:

9:00 – 9:30 UNEP presentation

9:30 -10:00 Romanian presentation of the detailed concept of the toolkit and the
Romanian Teaching Training

10:00-12:00 Discussion of the future common work on the toolkit, finalizing the project
plan

12:30 -14:30 Lunch

14:30 – 19:00 Developing the detailed table of contents of the Toolkit
Division of responsibilities – designation of the chapter authors and editors
Determining the chapter contents and structure

19:30 Dinner

30. January Leaving day:

9:00 -11:00 Concretisation of the next steps of the projects, determining the tasks of the
participants.

Coordination of the Teacher Training Tour in Romania
Web-site development
Follow-up

Annex 3. The Preliminary Carpathian Tool Kit proposal

“CARPATHIAN TOOL KIT”
PROPOSAL

OBJECTIVES:

The tool kit should:

- be adjustable to the different ages of the students (grades V-VIII, or higher)
- could be adaptable to all the Carpathian countries
- increased awareness of the surrounding nature and culture, and raise environmental responsibility

MEANS OF IMPLEMENTATION:

(ideas already given and discussed in Bucharest, 17-19 June 2008)

1. The structure of the toolkit should be based on the articles of the Carpathian Convention !!!

(for further reference, please, see <http://www.carpathianconvention.org/text.htm>)

The educational materials already presented and/or existing or those under preparation – can be distributed by topic. A common decision will be taken on which ones are appropriate and will be included in the kit.

- Article 4
Conservation and sustainable use of biological and landscape diversity
- Article 5
Spatial planning
- Article 6
Sustainable and integrated water/river basin management
- Article 7
Sustainable agriculture and forestry
- Article 8
Sustainable transport and infrastructure
- Article 9
Sustainable tourism
- Article 10
Industry and energy
- Article 11
Cultural heritage and traditional knowledge

The most important objective of the tool kit is to provoke “critical thinking” by the students – e.g. by making them think of how to make their area of the Carpathians appealing to the visitors - what are the specific/important aspects of their area, both natural and cultural.

2. Creating a natural/cultural trail through the area of the Carpathians

E.g. a teacher encourages students to make a trail through their area, and the task is that this trail should lead through cultural and natural amenities of the local area:

- pointing out the important species of animals and plants thinking of which transport can be used to get to/go through the trail,
- thinking of energy resources which the trail potentially provides (such as rivers, potential for wind energy),
- thinking of agricultural resources (agricultural traditions, soils, etc)
- thinking of cultural traditions and crafts
- potential threats to their area, which can damage its environment (such as increase of transportation, new construction, mining, etc)

all of these can be unique features which bring identity to the region, and can be attractive for tourism, which can in addition help generate income in the rural communities.

In addition, such a tool can be adapted to various disciplines:

- Biology,
- Ecology
- Geography (tracing the trail on the map)
- Physics (the energy tool kit)
- Crafts (local arts and crafts)
- Physical training (hiking through the trail)

The actual components of the teaching tool kit on the Carpathians will be the following:

- a set of maps (Carpathian protected areas/Romanian protected areas)
- some of the existing materials, which can fit under specific articles above
- some of the existing educational tools

The Carpathian Mountain ESD Training Tool Kit Concept

Rationale:

Mountain areas throughout the world, such as the Carpathians or the Caucasus, often face similar problems of underdevelopment, lack of/difficult connection to information and resources, lack of opportunities and diversity of livelihoods, migration of the young population to urban centers.

At the same time, they are often centers of natural and cultural diversity, preservation of traditions, which are important components the national and global heritage. However, many unique natural and cultural features are left undiscovered due to lack of information exchange and interconnectivity among the rural mountain areas, and their disconnection to the urban centers.

The challenge is to enable the mountain populations to improve their livelihoods while preserving the unique cultural and natural features and in their areas.

One of the ways of meeting this challenge is:

- to encourage the population living in the mountain areas to appreciate their surroundings, become aware of the special features, problems and challenges of sustainable development in their communities, and learn how to use the unique local resourced in a responsible way;
 - o to make the populations of each area aware that their communities are not isolated, but are part of a larger mountain ecoregion, and to establish connections between the communities
 - o to unveil multiple interconnections and interdependencies, which exist both among the mountain communities and between the mountain/lowland parts of the region; these interconnections offer opportunities of experience exchange, but at the same time challenges of resource sharing, which need to be taken into consideration
- by establishing the awareness and connections, to enable the populations of the mountain areas to develop their communities in a sustainable way.

Focusing efforts on schools, in a form of teacher training, is a sustainable long-term way of addressing the challenge of sustainable development in a community: as the teaching has a direct affect on the younger generation (students), and at the same time can be extended through students to their families (through home assignments and community/school events), thus integrating the whole communities.

Main Aims:

- o To provide a gate to the existing ESD materials and activities

- To Encourage the teachers to look for connections and resources: such as natural parks and protected areas
- Encourage the teachers to use the existing resources with the view of the Carpathian Sustainable Mountain Development
- To encourage critical thinking and active participation of the communities

- To facilitate interaction and experience exchange between the mountain communities within each country, as well as on a regional level
- To collect local information on existing natural and cultural resources and sustainable development challenges, in order to provide local input into the natural and cultural resource inventories, and to form recommendations for national governments and international developmental efforts,.

Means:

Connections will be established, through joint work, between the local educational authorities, the activists in the field of Education for Sustainable Development, and the protected areas.

- Provided resources and information, the teachers will be guided and encouraged to work with the students to find unique natural and cultural components, positive and negative features, and to reflect these on the blind map of the community/country/region by creating a tourist trail through the local area.
- The students will be encouraged to discover the resources offered by the local area and challenges for sustainable development and to think of what they can do to improve their community and to profit from the resources they discover in a sustainable way.
- The teachers and students will be guided to upload the local inputs into the training tool kit (the maps of the trails created, other projects/exercises) electronically on the project web-site, to create a regional database of natural and cultural resources and sustainable development challenges discovered by the participants in each community. Thus, the compiled information will be available to share it with interested stakeholders, for potential additions to the cultural and natural resource databases and to form recommendations to the national ministries and intergovernmental bodies working in the field of Sustainable Education and Sustainable Development .
- Follow-up national and regional experience - sharing meetings will strengthen connections between the participating partners, teachers and students from different counties in a country and later between the

countries, thus encouraging connectivity between the mountain communities.

**Target Audience:
teachers of various disciplines:**

- Sciences
- Literature
- Foreign Languages
- Arts and crafts
- Physical education

**Form of the Tool kit:
Electronic and Printed**

- The printed tool kit will be in a form of a binder, with removable pages, in order to allow to photocopy. Each binder will contain a collection of resource maps of the region and of the country, and large blind maps of the region and of the country for the main exercise.

The first printed version will be produced in Romanian, and printed in Romania

- An electronic version of the tool kit will be created on a UNEP Move4Nature project web-site, which will serve to support a network of communication and experience exchange on ESD in the mountain areas between experts, teachers, and activists in the field.

The English version of the tool kit will exist only in the electronic form, and will be used for translation to the other Carpathian language/adaptation to other regions, such as the Caucasus.

Components:

The tool kit will consist of the following components:

- **Introduction:**
 - Sustainable Development and the mountain areas
 - Interdependency between the mountain areas and the rest of the country (Water resources, etc)
 - Carpathian Convention
 - **Possibly: The world heritage convention info?**
 - How to use/read the toolkit
 - Explanation of use by teachers of various disciplines

- Educational/political rationale behind the toolkit
 - Creative/critical thinking
 - Complexity/system thinking
 - Sustainable practices: explanation what is sustainable practice and what is not sustainable practice
 - School development in a mountain area
- **Main activity of the tool kit:**

“Designing a Carpathian nature/cultural trail” – The teachers are guided to work with the students to make a “trail” representative of their local part in the Carpathians, taking into consideration resources and information provided by every chapter, such as:

 - natural resources of the Carpathians the trail presents,
 - the transport to/through the trail,
 - cultural components the trail can offer (local products that can be produced there, such as medicinal plants/crafts),
 - existing parks and protected areas
 - environmental problems/sustainable development challenges of their local area (plant/animal species decline, changes in the landscape, energy challenges and opportunities, loss of traditional culture).
- **Chapters**
 - Introduction
 - Biodiversity
 - Energy, transport
 - Landuse (Soil Bucharest University inputs) Waste
 - Cultural heritage
 - Water management
 - Local indicators of environmental problems
 - Craft and technology Agriculture (some CEFIDEC inputs)
 - Public participation
 - Sustainable tourism
- **Chapter structure:**

5-15 page in length maximum, including information and activity sheets.

The main component of the chapters are critical thinking questions guiding the teachers and students to creatively use facts and references presented in the chapter in designing the trail on the blind map.

 - Intro – Aims of the chapter

- Activity
- Factsheet
- Concept map
- Questions: referring to the critical thinking about the topic covered in the chapter in connection with the respective local area, leading to the reflection of each aspect on the map
- References, links, references to the curricula
- Case studies
- **Maps**
 - Maps of the region (Carpathian) and of the respective country
 - Blind maps: of the region, of the country, and of the local area: large size, in folded form.
 - Blind maps of the area: unless provided, information will be given on how to find/access the maps of the local area
Romania has 7 regional agencies, and each agency oversees 6 counties: some digital maps are available Luminita will find out if the maps can be used, Hubert offered to prepare the correction of the maps by GIS system,

- **Chapter authors**

Introduction (critical thinking, sustainability, Carpathian Convention, how to read, how to use)	Ministry of Environment of Serbia, CERI
Biodiversity	An adapted version of the World of Carpathians for adaptation to the toolkit (CERI ⁵)
Energy, Transport	Climate Action Network – Romania
Land-use, Waste	Climate Action Network – Romania Bucharest University –Romania (1,2 activities and/or factsheets)
Cultural Heritage and Traditional Knowledge (sustainable tourism component?)	The Northern Alliance for Sustainability (ANPED) and Romsilva (with inputs from UNESCO - Poland)
Water Management (How to use, how to save, indicators of quality)	Environmental Organization HERO, Romania
Local indicators of environmental problems	Committee for Sustainable Development, Slovakia

-
- ⁵ **The Carpathian EcoRegion Initiative (CERI) and Daphne institute for applied ecology** are developing the World Of Carpathians Handbooks
The Handbooks are strictly focused on the ecosystems: wetlands, forests, grasslands and contain exercises of different degree of difficulty. The handbooks will be produced in Polish and Slovak. The hope of the CERI is that there will be organizations in Romania/other countries, which can get funding and use the toolkit

Craft and technology	Cluj, Romania School Inspectorate (some inputs from the Centre of Training and Innovation for Development in Carpatians (CEFIDEC) about agriculture)
Sustainable Tourism and Parks	Carpathian Network of Protected Areas - Romanian partners Input from Serbia (ethnovillages) Inputs from Romania
Public participation	Hungarian Society for Environmental Education

Deadlines:

UNEP – CASALEN will provide as soon as possible.:

3. The report and conclusions of the meeting till 7th February
4. A template of a letter describing the project and the book till 20 February

End of February	First draft materials Attila will provide examples for evaluation questionnaire
Mid March (15-22)	Editing and reviewing
March 22 nd – end	Adaptation and finalization
April 1-22	Translating, adding local examples:
April 10	Adapted versions provided in Romanian A questionnaire developed for the Romanian participants.
April 23-24	Training of the trainers in Romania, Distribution of the material to the trainers
7 May	First training course

Annex 5. The Web-site Concept

The Web-site Concept

Concept: Development and support of a network for education for Sustainable Development (ESD), with a focus on Mountainous areas of the Carpathians and the Caucasus

Aims: to support sustainable development in the rural mountainous communities of the Carpathians and the Caucasus through exchange of ideas and experience on ESD, and through facilitating partnerships in the schools in the rural mountainous areas

The main goal is to provide space for interaction, exchange of ideas and experience among various stakeholders involved in Education for Sustainable Development: ESD professionals, experts, teachers, etc

The Regional Focus: the Carpathians and the Caucasus

The Thematic Focus: Rural Mountainous areas

The Target Audience: Teachers, ESD professionals, NGOs involved in ESD

Main language: English,

- the beginning stage: link to Romanian, or Romanian subpages
- later links to pages in national languages, or national languages subpages (national language pages will need to have a network components as well)

Main Component: The Mountain ESD Tool Kit – electronic version

- Link to the tool kit: can be in a form of the Interactive map

Main page of the toolkit:

Map of the region in the background

Can be an interactive map, so by clicking on a country, we can see the map of the country

At the first stage, only the Romanian map will be interactive
By clicking on the map of the country in the places where the training took place, the pages with the local contribution to the tool kit will come up: these can be links to locally created trail maps, etc.

- potential for cooperating with the inventory of cultural heritage, proposed by ANPED, the portal for sustainable tourism by CEFIDEC and UNEP/Grid – Warsaw.

Text:

- brief Introduction and links to the chapters
- the chapters should be printable, as they will contain exercise sheets

The tool kit needs to provide space for input by the teachers who are using it, to provide for local input:

- create space for worksheets to be uploaded to the web-site
- Maps made by students to be uploaded to the web-site

The Web-site tree

- = Represents link

Front Web Page:

Text:

Move4Nature: Education for Sustainable Development in the Mountain Areas
Experience exchange and educator training

Brief introduction

Links:

- = Logos: Links to partners (UNEP-ENSI-CASALEN [UNECE UNESCO])

Information about the partners' contribution to the project

- = Map of the Carpathians – as a link to the Carpathian page
- = Map of the Caucasus – a link to the Caucasus page

Carpathian page:

Text: Brief introduction

- = link to text: Main concept and information
- = Link to the CASALEN page

Romania

Link to: Project Planning Meeting, Poiana Brasov, Romania

- uploaded report of the meeting and presentations

Links to partners – preferably pages dealing with educational tools and ESD, (CERI, CASALEN (link to the UNESCO -Poland website), link to UNECE web-site?)

Text intro

Center: The Carpathian Training Tool Kit (in the form of the map, the same which will be used for the front of the tool kit)