


**SOUTH EAST EUROPE**  
 Transnational Cooperation Programme






 PROGRAMME COOPERATION WITH THE EUROPEAN UNION


## WP4 – GS Natural Conditions

6<sup>th</sup> Workshop - of the DONAUREGIONEN+ project  
 15<sup>th</sup> and 16<sup>th</sup> September 2010  
 Novi Sad, Serbia

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## Structure of General scheme Natural Conditions Document


Document is arranged into several chapters:

- **Land use**
  - represented by the CORINE Land Cover or cadaster data
- **Nature conservation and landscape protection**
  - Protected areas with „national importance“, NATURA 2000, Sites with international significance (sites which was stated according to the international conventions, for example Ramsar Convention, biosfere reservations (program Man and Biosfere) and other
  - Territorial system of ecological stability or NECONET
- **State of the environment**
  - Air pollution, Water pollution, Waste management
- **Water management**
  - Basic information of Water management

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## Structure of General scheme Natural Conditions Document


Each chapter includes:

- General information about area of interest
- Description of individual countries of Danube region in appointed factors
- Tables and charts
- Sources of data

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## Land use


**Includes:**  
 Description of the lanscape structure, geographical and geomorphological situation  
 Important categories of Land use:


- **Farmland**
- **Arable land**
- **Forest**
- **Water surface**
- **Built-up area**

- categories in table according to NUTS3 regions, represented by the CORINE Land Cover data or cadaster data

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## Nature conservation and landscape protection


**National network of protected areas**


- nature conservation and landscape protection is in individual countries very different
- evaluation according IUCN categories(International Union for Conservation of Nature) is more correct


Ia - Strict Nature Reserve	IV - Habitat/Species Management Area
Ib - Wilderness Area	V - Protected Landscape/Seascape
II - National Park	VI - Managed Resource Protected Area
III - Natural Monument	

- section includes overview of the large-extension protected areas and overview of the small-extension protected areas according NUTS3 regions

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## Nature conservation and landscape protection

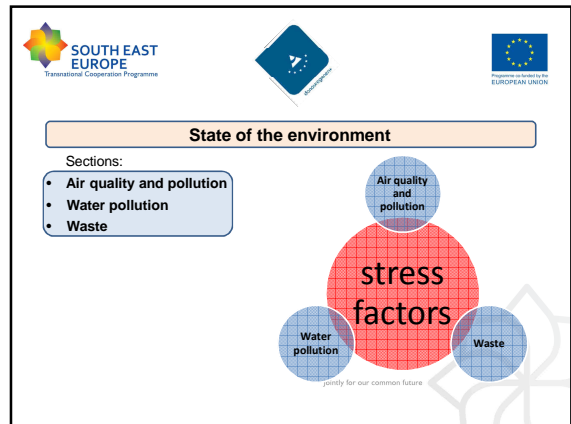
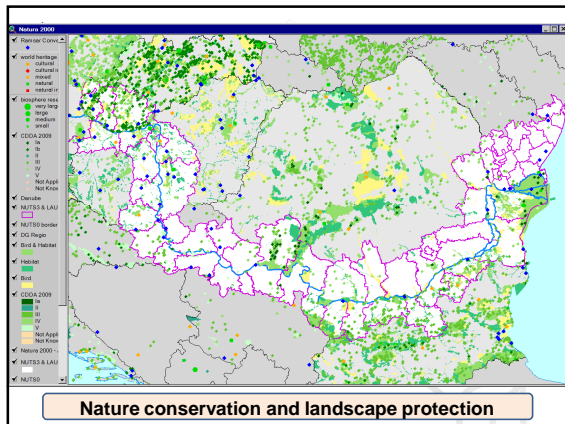
**NATURA 2000**

- areas with high interest for European Community
  - Birds Directive ( Spatial Protection Areas – SPA )
  - Habitats Directive ( Special Areas of Conservation – SAC )
- NATURA 2000 does not supply National network of protected areas

**Other international impact:**

- Areas registered as Ramsar Convention Sites
- World Heritage (UNESCO)
- Man and the Biosphere (MAB) and others
- Territorial system of ecological stability - there are networks NATURA 2000, European Ecological Network (EECONET), National Ecological Network (NECONET), Emerald, Danube Green Corridor (BG, RO, MO, UK)

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**State of the environment**

Factors:

- Air quality and pollution**
  - in table are emissions of the elementary air pollutants according to the NUTS 3 regions (PM, SO<sub>2</sub>, NO<sub>2</sub>, CO)
  - the most important air pollution producers in individual counties
- Waste**
  - number of landfills
  - waste management in individual counties

**State of the environment**

**Water pollution** include:




- Surface water quality**
  - tables contains a values of water quality from metering stations of individual regions
  - there are five classes of water quality values
  - we can rate water quality index in individual regions if we have value classified according NUTS3 regions
- Ground water**
- Thermal and mineral water**

**Example: Water quality in Slovak regions**

NUTS 3 region	Water body	Sampling site	Water quality index					
			A	B	C	D	E	F
year 2001	Danube	Bratislava	1	1	1	1	1	1
		Trnava	1	1	1	1	1	1
		Žilina	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Poprad	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
year 2005	Danube	Bratislava	1	1	1	1	1	1
		Trnava	1	1	1	1	1	1
		Žilina	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Poprad	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
year 2008	Danube	Bratislava	1	1	1	1	1	1
		Trnava	1	1	1	1	1	1
		Žilina	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Poprad	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1
		Prešov	1	1	1	1	1	1

**Water management**




- the main legal basis is represented by the Water Frame Directive
- surface and groundwater are to be considered together, in both qualitative and quantitative terms
- all countries have flood protection programmes

### Sources and references

- National Environmental Policy (acts, regulations,...)
- National environment reports
- Regional environment reports
- National programs of Waste management
- Yearbook of individual environment elements
- Statistical data
- Cadastral data

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### Landscape structure example

The most forested regions (%)		The most arable land regions (%)	
Caras-Severin	56.05	Calarasi	78.87
Borski	45.42	Ialomita	78.48
Bratislavský kraj	34.95	Zapadno-bački	75.63
Branicovski	34.86	Braila	75.14
Mehedint	31.72	Teleorman	73.47

Source: Corine Landcover 2006

We can calculate this method for other categories of landcover.




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### State of data delivery

Country		State	Note
Slovakia	update text	OK	
Hungary	update text	OK	
Romania	update text	OK	
Bulgaria	update text	OK	
Serbia	update text	OK	
Croatia	new text	-	
Moldavia	new text	OK	
Ukraine	new text	-	

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Thank you for your attention.

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