



Ministry of Regional  
Development and  
Public works



Global  
Environment  
Facility



United Nations  
Development  
Programme

# ***Enhancing the Capacity of Bulgarian Institutions for Monitoring and Evaluation of Climate Change, Biodiversity Loss and Land Degradation Impacts of Strategic Planning Documents***

(Nataliya Dimitrova-Popova, Bulgaria)

**Climate Change in South-Eastern European Countries  
IV: Adaptation strategies for economy & society**

19-20 October, 2009

Faculty of Electrical Engineering and Computing,  
Zagreb, Croatia,

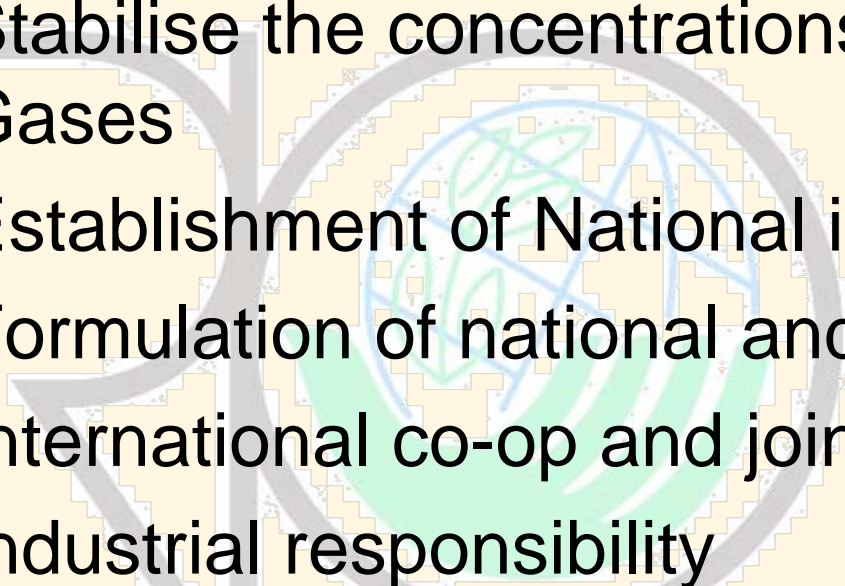
# What are the Rio Conventions?

- **The United Nations Convention on Biological Diversity, ratified by Bulgaria on 17.04.1996. Major goals:**

- Scientific and technical cooperation
- Regulatory measures on access to genetic resources
- Shared benefits from genetic resources
- Recognition of the role of indigenous and local communities

# What are the Rio Conventions?



- **The United Nations Framework Convention on Climate Change, ratified by Bulgaria on 12.05.1995. Major Goals:**
    - Stabilise the concentrations of Green House Gases
    - Establishment of National inventory
    - Formulation of national and regional programs
    - International co-op and joined-up approach
    - Industrial responsibility
- 

# What are the Rio Conventions?

- **Kyoto Protocol, 1999. In force since 16 Feb, 2005. Major Goals:**
  - A 5% reduction on 1990 levels by 2008 -2012 (for Bulgaria – 8% reduction of emissions to the levels from 1988)
  - New target after April 2009 – 16 % reduction for till 2012
  - Establishment of new financial mechanisms: Emissions Trading System, Joint Implementation, Clean Development Mechanism

# What are the Rio Conventions?



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- **The United Nations Convention to Combat Desertification, ratified by Bulgaria on 21.02.2001. Major goals:**
    - Mitigation the effects of droughts
    - Mitigation of desertification due to: over-exploitation, deforestation, bad irrigation
    - Facilitate awareness and participation in local communities
    - Promoting access to new technology
    - Introducing their own strategies

# Key Facts about UNDP/GEF Rio Conventions Project



**Implementing Agency:** Ministry of Regional Development and Public Works (MRDPW)

**Partners:** Ministry of Environment and Water (MoEW)

**Steering Committee** Members from: MRDPW, MoEW and UNDP, chaired by **National Project Director**, MRDPW. Meets bi-annually

**Advisory Board:** wider stakeholder group. Meets once per year

**PMU:** Project Manager and Project Administrator, UNDP

# Duration and Budget



## Project Duration

Nov, 2006 – Oct, 2010

## Project Budget

**Total: USD 1,528,000**

Global Environmental Facility: USD 499,000

Government of Bulgaria: USD 1,029,000

# Expected Project Outcomes

- **Outcome 1:** Improved methodologies, skills and information management system for mainstreaming global environmental issues into regional development
- **Major outputs:**
  - Accredited training program
  - Training of 130 key employees at MRDPW and MoEW
  - Data Sources review
  - Set of **strategic indicators** and integration into GIS
  - Development and dissemination of publications
  - Information web based portal and newsletter

# Outcomes

- **Outcome 2:** Institutional changes that support mainstreaming of global environment into regional development and spatial planning are in place
- **Major outputs:**
  - Study visit in a selected EU region
  - Changes in staff hiring and evaluation procedures
  - Adaptation of methodologies for SEA and regional development legislature to **include global env.issues**

# Outcomes

- **Outcome 3:** One regional development plan and one municipal development plan are revised to integrate global environmental objectives.
- **Major outputs:**
  - Pilot testing of the project-developed **strategic indicators for global env. issues monitoring** through integration into one regional DP
  - Pilot testing of the project-developed **strategic indicators for global env. issues monitoring** through integration into one municipal DP

# Major project achievements with respect to combating climate change, biodiversity loss and desertification

## 1. Develop a Training Programme Package (March – Dec 2007):

**Package 1: Introductory (1 day, 8 ac.hours)**

**Package 2: Core Course (10 days, 60 ac.hours)**

- **Session 1:** Intro to SD and Rio Conventions
- **Session 2:** Mechanisms and Instruments for GEI integration into RD and SP
- **Session 3:** Good Practices for GEI integration in RD and SP
- **Session 4:** Impact Assessments in the context of RD and SP
- **Session 5:** Information procurement and GIS in the context of RD and SP.

**Package 3: Academic course (1.5 years)**

## 2. Delivery of the TP (Sept 2008-March 2010)

**Introductory course** – more than 200 participants

**Core Course** – 90 participants so far

**Academic Course** – pending start in Nov, 2009



# Major project achievements with respect to combating climate change, biodiversity loss and desertification

## 3. Identify and select suitable indicators for monitoring the impact of “new” regional and spatial planning policies (Aug 2008 – Aug, 2009)

- Survey of relevant data sources (NSI, ministries, Eurostat, EEA, etc.)
- **7 strategic indicators selected**
- Technical “passports” of the 7 indicators in development
- GIS “passports” for 3 of the 7 indicators in development
- **Forthcoming:** development of prototype GIS at MRDPW
- Monitoring and evaluation of the impact of RD and SP plans and programs on the global environment through the 7 indicators and the prototype GIS.



# Short list of key (strategic) indicators for monitoring of the integration of global environmental issues in the process of regional development in Bulgaria

№	Indicator	Code and Domain
1.	<b>Relative share of territories subject to anthropogenic impact (infrastructure, residential areas, industrial sites)</b>	BDV05, Biodiversity
2.	<b>Share between forest, agricultural and urbanized territories</b>	BDV09, Biodiversity
3.	<b>Green house gasses emissions (in CO2 equivalent) per capita</b>	CLM09, Climate change
4.	<b>Expenditures for long-term assets with ecological purpose</b>	CMN21, General
5.	<b>Expenditures for long-term assets with ecological purpose per capita</b>	CMN22, General
6.	<b>Share of territories subject to a high erosion risk</b>	DST01, Desertification
7.	<b>Expenditures for energy effectiveness and renewable energy sources</b>	CMN23, General

# Indicators' Technical "Passports"

- **Focal area**
- **Context**
- **Definition**
- **Geographical coverage**
- **Temporal coverage**
- **Update frequency**
- **Sources of information**
- **Costs**
- **Interpretation of the indicator**
- **Advantages and disadvantages**
- **Integration with GIS**

# Indicators' GIS "Passports"

- Hardware equipment
- Basic software and additional software
- GIS information layers and databases
- GIS analytical tool/s
- Information architecture (data inputs, data processing and outputs)
- Cost estimation

# THANK YOU FOR YOUR ATTENTION

**Nataliya Dimitrova-Popova**  
**Project Manager**  
**UNDP/GEF Rio Convention Project**

**Address:** Ministry of Regional  
Development and Public Works  
17-19 Kiril i Metodii str.;  
fl. 6; room 601A  
Sofia 1202, Bulgaria  
**Phone/Fax:** (+359 2) 940 55 75  
**E-mail:** office@rioconventions.org  
www.rioconventions.org

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04.06.2007 Round Table on Natura 2000 and the Bulgarian Media

17.05.2007 Conference: How Regions Can Help Building a Sustainable Europe

21.02.2007 Project Inception Workshop

Ministry Of Regional Development and Public Works

GEF Global Environmental Facility

United Nations Development Programme

**About the Project**

The project *Integrating Global Environmental Issues into Bulgaria's Regional Development Process* is a joint initiative of the United Nations Development Program (UNDP), the Ministry of Regional Development and Public Works (MRDPW) and the Ministry of Environment and Water (MoEW), financed by the Global Environmental Facility (GEF).

**About the Rio Conventions**

The Rio Conventions are the three UN conventions opened for signature during the United Nations Conference on Environment and Development (also known as The Earth Summit) on 3-14 June, 1992 in Rio de Janeiro, Brazil: UN Convention on Biological Diversity, UN Framework Convention on Climate Change, and UN Convention to Combat Desertification.

Web-portal on climate change  
www.biodiv.net/csr/

Bulgarian Biodiversity Clearing House Mechanism (CHM)  
www.biodiv.net/csr/