Integrated Drought Management Programme in Central and Eastern Europe

IDMP Advisory and Management Committee meeting

Geneva, 9 September 2015
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Why IDMP in CEE?

Increase the capacity of the CEE region to adapt to climatic variability by enhancing resilience to drought.

- variability and change in precipitation
- increased frequency of extreme weather events in the future
- well developed meteorological and hydrological monitoring but not as a support for decision makers
- limited sharing of information among countries
- lack of political will to solve the problem – drought was not considered as a relevant issue
Structure of the IDMP CEE

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Act. 7.1: Compendium of Good Practice
Act. 7.2: Communication activities
Act. 6.1 & 6.2: Workshops & training
Act. 6.3: Peer Review Group

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Partners involvement

10 countries – Country Water Partnerships

40 organizations
✓ Universities
✓ Hydro-meteo services
✓ Research institutes
✓ Ministries & state agencies
✓ Drought Management Center for South East Europe
1. Cooperation with national governments on drought management planning
   • Guidelines for preparation of the Drought Management Plans as part of River Basin Management Plans
   • 20 National Consultation Dialogues in 10 countries

2. Testing and describing new approaches towards proactive drought management
   focusing on agricultural sector as one of the most vulnerable ones in the region (demo projects)

3. Raising awareness activities & communicating knowledge gathered to politicians, governmental authorities and to the general public

Outputs / processes started
Cooperation with national governments

- Guidelines for preparation of the Drought Management Plans within RBMP
- Organization of the National Consultation Dialogues (20 in 2 years in 10 countries)

- EU legislation + GWP/WMO Guidelines
- cooperation with national governments to help them to incorporate drought management issues into their national programs, policies and plans
- current gaps in the implementation of the EU Water Framework Directive (WFD)

Published last week: [Link]
National experiences & Guidelines

- National program of measures for preventing and mitigating drought
- National drought indicator systems and evaluation methodologies
- National drought classification, thresholds and early warning systems
- National methodologies for assessment of historical drought
- National organizational structures to deal with drought

**Step 1** Develop a drought policy and establish a Drought management Committee

**Step 2** Define the objectives of a drought risk-based management policy

**Step 3** Inventory of data needed for Drought Management Plan development

**Step 4** Produce/update the Drought Management Plan

**Step 5** Publicize the DMP to the public for comments and active involvement

**Step 6** Develop a research and science programme

**Step 7** Develop an educational programme

Global Water Partnership Central and Eastern Europe

www.gwpcee.org
Testing new approaches
measures to reduce drought impacts, vulnerabilities and risks

Natural small water retention measures
Guidelines - Natural Small Water Retention Measures combining drought mitigation, flood protection and biodiversity conservation
Hungary, Poland, Slovakia and Slovenia

Video released during Europe-INBO conference in Bucharest, Romania (November 2014)

Increasing soil water holding capacity
Methods for improving water infiltration into the soil profile – practical recommendations for farmers, decision makers
Czech Republic, Poland, Slovakia and Slovenia
Drought impacts on forest ecosystems

Bulgaria, Lithuania, Slovenia and Ukraine

Remote sensing agricultural drought monitoring methods

Hungary, Slovakia and Romania

A user-friendly drought monitoring and yield loss mapping process script - toolbox

Agricultural drought monitoring and forecasting

Moldova and Ukraine

Adaptation measures for the forests to mitigate negative effects of the drought

Agricultural drought monitoring and yield loss forecasting through the application of remote sensing data

Upgraded climate-zoning & forecasting models

Drought risk maps for agro sector of Ukraine and Dniester river basin

MD: Guide on best practices on soil conservation
Regional/transboundary cooperation

existing operational products for drought monitoring in CEE countries

partners & future cooperation

European Drought Observatory (EDO)

26 drought related products from 10 countries have been prepared and added

River Basin Management Expert Group

Public consultation workshop (Zagreb, July 2015)

Implementation guide - how to prepare metadata for Drought Metadata Catalogue

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Finalization

- **Compendium of IDMP CEE Good Practices**
  - mix of existing information and accomplishments of this project
  - results of the IDMP CEE & successful drought EU projects & existing Drought Management Plans in and outside of the region

- **Briefing / technical notes**
  - presentation of the main achievements from the demonstration projects

- **3rd cycle of National Consultation Dialogues**
  - presentation of the results, future activities on the national level, Guidelines – Action Plan

- **Dissemination of the results** (conferences, web page, articles, etc.)
Way forward - continuation

1st Follow-up task

Identifying future drought related issues within the region

4 major thematic areas:
- Drought monitoring
- Upgrading drought risk assessment / drought risk atlas for CEE/SEE
- Drought cost assessment
- Strengthen a culture of preparedness at a national level

‟widen the pool“ – cooperation with DMCSEE

4th DMCSEE Steering Committee meeting & 3rd IDMP-CEE workshop, October 2014
Follow-up workshop; April 2015

• review interesting topics: NCDs, follow-up workshop, consultations with CWPs, IDMP CEE & DMCSEE partners
• check similar successful EU funded projects
• check funding opportunities
• further support in **preparation of the Drought Management Plans**

• **National Consultation Dialogues** – Action Plan

• **Raising awareness** activities - drought as a relevant issue in CEE (*Civil Protection Mechanism, drought insurance, ...*)

• **Demonstration projects** focused on quantitative water management issues

• **Harmonization of methods** used for development of the main elements of DMP:
  - assessment of historical drought events
  - drought indicator system in connection with drought monitoring
  - thresholds for classification of drought stages
  - risk assessment
  - early warning system
From ideas to proposals

2nd Follow-up task

Developing project proposals

Developing further Drought Management Plans - *action plans for participating countries and regions to implement recommendations for improvement of water management during drought within water legislation and regulations*

- drought damage estimation by drought monitoring (application of remote sensing data)
- drought in civil protection mechanism: *evaluation of drought risk plans, unified approach to risk assessment*
- effectiveness of drought mitigation measures
- drought management in the decision making process

Integration of drought and floods measures into land use planning and agriculture practices (small water retention, eco ditches, etc.).
Thank you for your attention

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