



# Integrated Drought Management Programme in Central and Eastern Europe

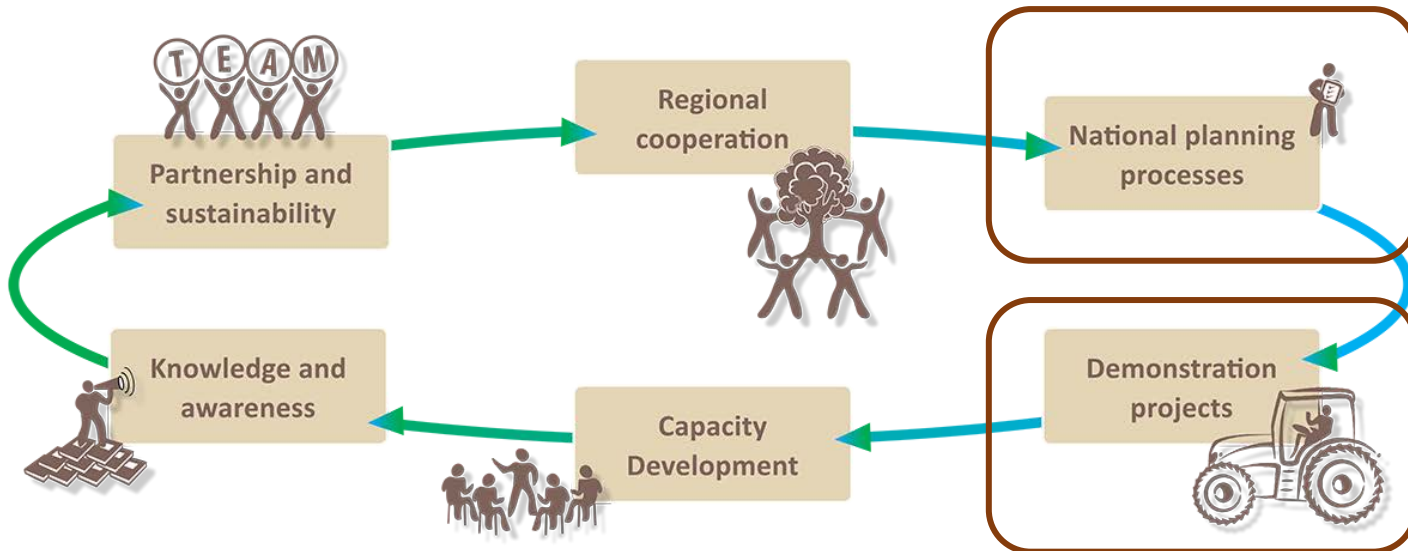
Advisory Committee Meeting of the  
Integrated Drought Management Programme (IDMP)

*Geneva, 14 September 2016  
Sabina Bokal, GWP CEE*

- coordinated by GWP CEE
- started with Inception phase in 2012
- 1<sup>st</sup> phase started in March 2013:
  - preparation phase March – June 2013;
  - implementation phase June 2013 – June 2015
  - finalization of the 1st phase June – December 2015
- 2nd Phase:
  - Preparation of 3-year work programme January – December 2016
  - Implementation phase January 2017 – December 2019

# IDMP CEE Focus

**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

# IDMP CEE Partners

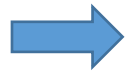
## 10 countries & 28 institutions cooperating:

- ✓ Drought Management Center for Southeastern Europe
- ✓ Universities
- ✓ Hydro-meteo services
- ✓ Research institutes
- ✓ Ministries & state agencies





**2015**



- continuation of the processes from the 1st phase
- finalizing main products & “upscaling” achievements from the 1st phase (*fact sheets, case studies, contributions to different platforms, networks, etc.*)

**2016**



- developing follow-up proposals
- fundraising and promotion of the IDMP CEE
- positioning the programme in the region



- ➔ **Translation of the Guidelines into 6 national languages**  
Hungarian, Lithuanian, Romania, Ukrainian, Slovakian, Slovenian

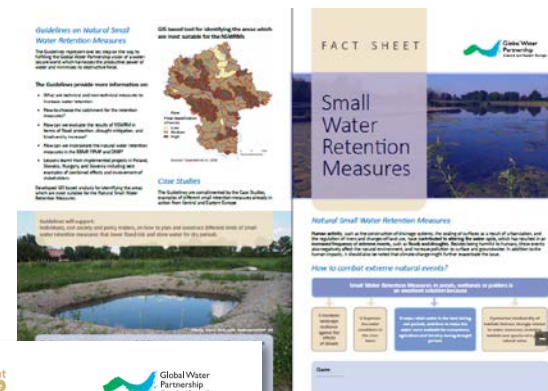


- **1st round – setting the stage**  
review of the current status
- **2nd round – how to overcome gaps in the current drought management;**  
developing Guidelines; national experiences and examples
- **3rd round – action plan/update for preparation of the Drought Management Plan**

# Testing and describing new approaches towards proactive drought management

focusing on agricultural sector as one of the most vulnerable ones in the region

- Natural Small Water Retention Measures
- Increasing soil water holding capacity
- Drought impact on forest ecosystems
- Remote sensing agricultural drought monitoring methods
- Updating agricultural drought monitoring and forecasting in Ukraine and Moldova



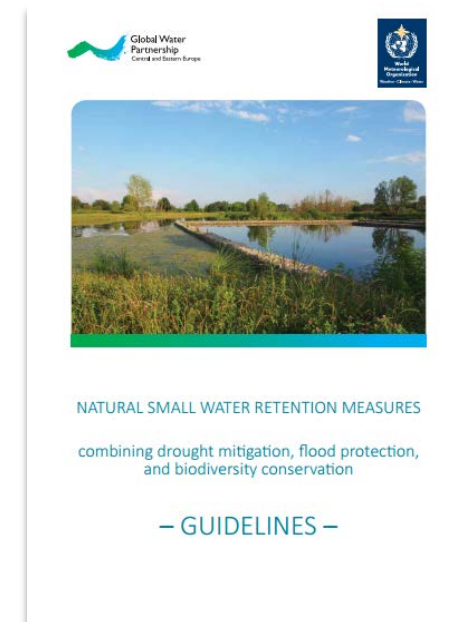
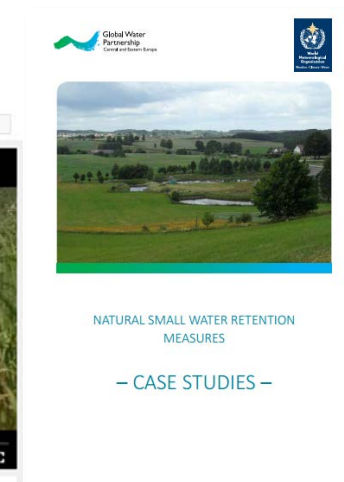


# Natural Small Water Retention Measures

adaptive measure which serves to adjust to extreme climate variability

it helps retain water in the land during wet periods **and make this water more available for ecosystems, agriculture and forestry during drought periods**

- improve the water conditions in the river basin
- increase landscape resilience against the effects of climate
- preserve biodiversity of habitats that are strongly related to water resources



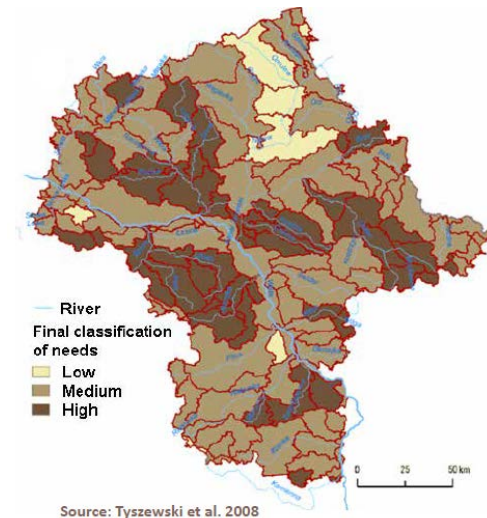
# Follow-up of the Natural Small Water Retention Measures

## Framework to improve water balance and nutrient mitigation by applying small water retention measures (FramWat)

to strengthen regional possibilities for floods, **droughts** and pollution risk reduction by increasing the buffer capacity of the landscape using the N(S)WRM approach in a systematic way.

### Topics:

- most precise localization of measures (technical and non-technical) in a river basin
- assessment of the effectiveness of the system of the measures in the river basin
- connection with implementation of the 2nd RBMP and planning of the 3rd RBMP



# IDMP CEE in the region – *cooperation and future plans*

- **International Commission for the Protection of the Danube River**
  - public consultations of two international plans: the Danube River Basin Management and Flood Risk Management Plans
  - ICDPR Standing Working Group Meeting (*Input to documents, ICPDR Advisory role in IDMP CEE, Project cooperation, etc.*)
- **EU Strategy for the Danube Region** (*PA5 – Environmental Risks*)
- **Carpathian Convention**
  - Working Group on Adaptation to Climate Change
  - European Climate Adaptation Platform (Climate-ADAPT) – IDMP CEE case studies
- **International Office for Water** (NWRM Portal);
- **NEW initiatives** related to drought in the region (COST): CEDRIC (CZ, AUT, SK – „Research club“) & Multi Hazard risks



## Drought Management Centre for Southeastern Europe



Workshop organized under European Meteorological Society (EMS) with the support of Tromp Foundation

**„Agrometeorologists for farmers in  
hotter, drier, wetter future“**

*9 – 10 November 2016 in Ljubljana, Slovenia*

**WORKSHOP**  
**Agrometeorologists for farmers in hotter, drier, wetter future**  
**9 and 10 November 2016**  
**M Hotel Ljubljana**

### *Tentative program*

#### **DAY 1 - 9 November 2016**

##### Morning session

Opening

Invited lecture - Blaž Kurnik, EEA

Invited lecture - Lalič Branislava, University Novi Sad (COST)

Invited lecture - Elena MATEESCU, National Meteorological Administration,  
The Romanian agrometeorological services and products – current status  
and challenges in the context of climate change

Country reports

##### Afternoon session

Invited lecture - Anne Gobin VITO, Belgium

Invited lecture - Wolfgang Wagner, Technical University Vienna

Parallel Group work

#### **DAY 2 - 10 November 2016**

##### Morning session

Report from groups

Invited lecture - IDMP WMO (TBC)

Invited lecture - Andreja Šušnik, DMCSEE

Wrap up and the way forward

##### Afternoon session

Group work:

1- Conclusions - Recommendations

2- Excursion to Phenological park Ljubljana, or ARSO headquarters

3- DMCSEE meeting

# DRiDanube - Drought Risk in the Danube Region



Lead Partner: Slovenian Environment Agency (DMCSEE)

GWP CEE – work package leader



7 EU countries  
3 Non-EU countries  

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15 partners  
8 ASP partners

KEEP CALM  
AND  
WAIT FOR RESULTS  
**In 14 days**

- Project aims to increase the capacity of the Danube region to cope with drought by **enhancing resilience to drought** with recently developed tools and data sets;
- **New drought monitoring services** (using remote sensing products) will be developed and prepared for operational use;
- **Unified drought risk protocol** based on the EU Civil Protection Mechanism will be prepared;
- **Improve drought preparedness in the Danube region**

Project budget: 2 million EUR  
Duration of project: 30 months

# DRiDanube - Drought Risk in the Danube Region

## WP3 – Drought User Service

- Developing a service based on most advanced available infrastructure (remote sensing data)
- Supporting development of drought monitoring and risk assessment tool (User Service & trainings)

## WP5 – Drought Preparedness Improvement

- Pilot implementation of Drought User Service and Decision Making Model based on the Strategy
- National capacity building
- **Strategy to improve preparedness**

## WP4 – Drought Risk & Impact Assessment

- Preparation of common methodology for drought risk assessment
- Evaluation and mapping of risk
- Preparation of common methodology for near real-time drought impact assessment including forecast
- Regional capacity building



Improve the drought monitoring and unification of drought impacts and risk assessments for the whole region

Built capacities to monitor, forecast, evaluate and respond during drought development with **better accuracy and faster response time**

Integrate water security and drought resilience into **national development planning and decision-making processes**





Thank you  
for your attention

[www.gwp.org/GWP-CEE/IDMPCEE/](http://www.gwp.org/GWP-CEE/IDMPCEE/)