



Integrated Drought



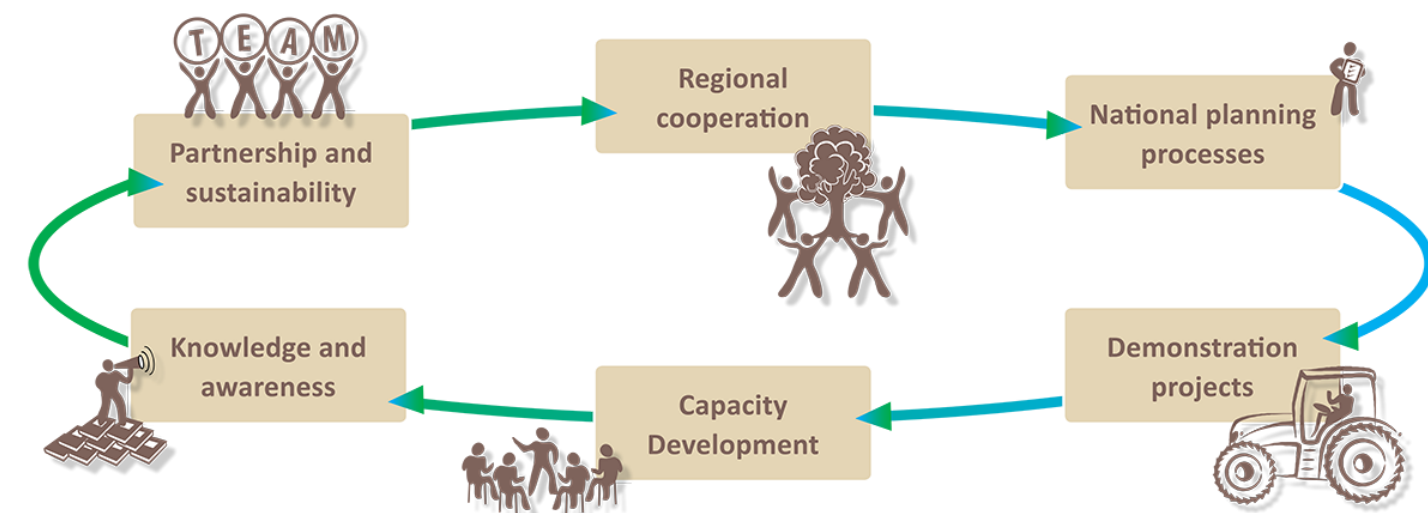
Management Programme

Integrated Drought Management Programme in Central and Eastern Europe

DriDanube národný seminár o suchu
Bratislava, 7. júna 2017
Tomáš Orfánus

Dôvody na realizáciu programu

**Zvýšiť kapacitu krajín v regióne
strednej a východnej Európy tak,
aby sa prispôsobili klimatickej
zmene a suchu**



- ✓ variabilita a zmeny v zrážkovom režime
- ✓ zvýšená frekvencia extrémnych meteorologických javov v budúcnosti
- ✓ obmedzené zdieľanie informácií medzi krajinami
- ✓ sucho nie je považované za prioritu

Štruktúra Programu... (aktivity - slovenské inštitúcie)

Manažment sucha	Act. 1.2 Prehľad súčasného stavu	Act. 2.1: PRÍRUČKA VÚPOP, SHMÚ Act. 2.2: NÁRODNÉ DIALÓGY GWP Slovensko	Act. 5.4: Systém riadenia rizík	3. kolo národného dialógu o suchu
Monitorovanie a predpovedanie sucha	Act. 1.3: Platforma na výmenu údajov SHMÚ Act. 1.4: GIS monitoring	Act. 5.5: Metódy na diaľkové monitorovanie sucha v poľnohospodárstve UH SAV	Act. 5.6: Monitorovanie a predpovedanie sucha v poľnohospodárstve (UA & MD)	DriDanube Project
Opatrenia na zníženie vplyvu sucha, zraniteľnosti a riziká	Act. 5.1: Zvýšenie capacity pôdy na zadržiavanie vody SPU Nitra	Act. 5.2: Zhodnotenie vplyvu sucha na lesy	Act. 5.3: Malé opatrenia na zadržiavanie vody HYCOMP	WatFram Project

10 krajín – Národné organizácie GWP

40 organizácií

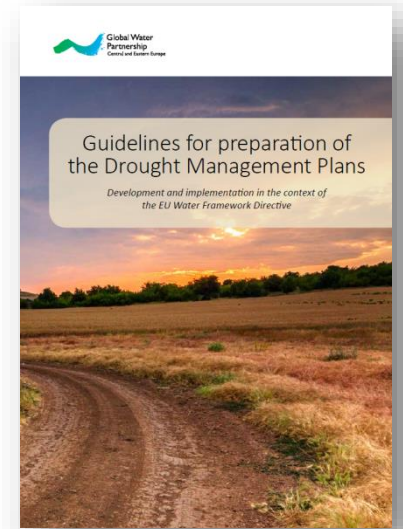
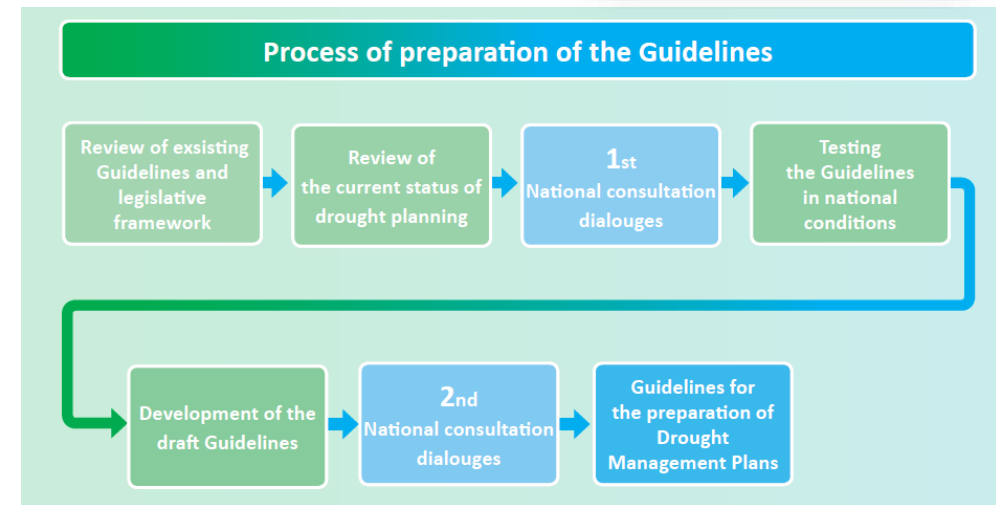
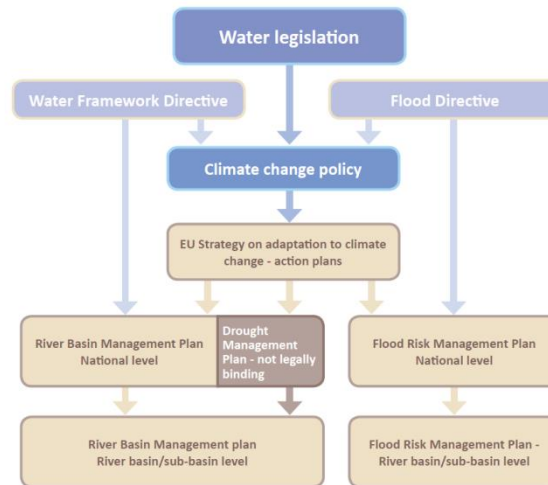
- ✓ Univerzity
- ✓ Hydro meteorologické ústavy
- ✓ Výskumné ústavy
- ✓ Ministerstvá & agentúry
- ✓ Drought Management Center for South East Europe
- ✓ Joint Research Centre



Spolupráca na národnej úrovni

- Príručka na prípravu Plánu manažmentu sucha ako súčasť plánov manažmentu povodí
- Národné dialógy

- ✓ EU legislatíva + GWP/WMO príručka
- ✓ Spolupráca s ministerstvami na zahrnutie manažmentu sucha do národných programov a stratégií
- ✓ Implementácia Rámcovej smernice o vode



Národné dialógy a príručka o suchu



Národný program
opatrení na
prevenciu a
zmiernenie sucha

Národný výskumný
program o
manažmente sucha

Indikátory sucha a
metodika na
hodnotenie rizika

Národná klasifikácia
sucha a systémy
včasného varovania

Metodika na
hodnotenie
historického sucha

Organizačné
štruktúry na
riešenie sucha

Step 7 Develop an educational
programme

Step 6 Develop a research and science
programme

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

Step 4 Produce/update the Drought Management
Plan

Step 3 Inventory of data needed for Drought Management
Plan development

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

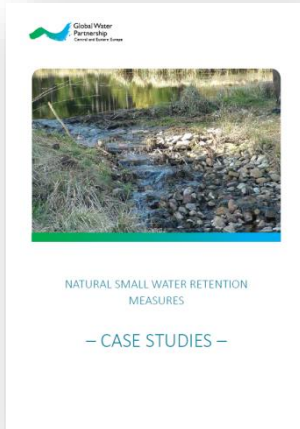
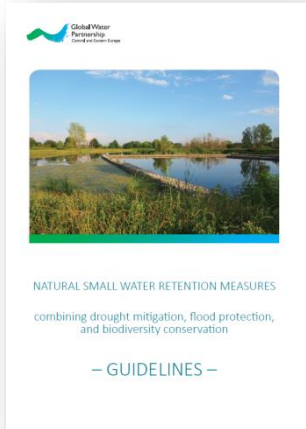
Step 1 Develop a drought policy and establish a Drought management
Committee

Testovanie nových prístupov opatrenia na zníženie vplyvov sucha, zraniteľnosti a riziká

Malé opatrenia na zadržiavanie vody

Maďarsko, Poľsko, Slovensko a Slovinsko

Príručka - opatrenia na zadržiavanie vody, kombinujúce zmiernenie následkov sucha, protipovodňovú ochranu a zachovanie biodiverzity



Video predstavené na EURO INBO konferencii v Bukurešti, Rumunsku v novembri 2014



Zvýšenie capacity pôdy na zadržiavanie vody

Česká republika, Poľsko, Slovensko a Slovinsko

Metódy pre zlepšenie vsakovania vody do pôdneho profilu - praktické odporúčania pre poľnohospodárov



DRUHÝ NÁRODNÝ DIALÓG O SUCHU

<u>Country:</u>	Slovakia
<u>Organizer:</u>	GWP Slovakia (Tomas Orfanus)
<u>Date & Place:</u>	27 October 2015
<u>Participants:</u> (list of the main organizations)	Ministry of Environment of the SR SlovakHydrometeorological Institute Institute of Hydrology of the Slovak Academy of Sciences Water Research Institute of the SR Faculty of Forestry of the Technical University in Zvolen, Technical University in Bratislava State Water Enterprise Soil Science and Conservation Research Institute and others

Objective :The objective of the 2nd NCD was to introduce the IDMP Guideline to the broader expert community and decision sphere.

Special objectives:

To enable broader discussion to the agro-hydrological drought indexing systems, which are under fast evolution and development process in Slovakia.

To enhance the role of soils by forming of hydrological extremes.

Main points of discussion:

1. The suggestion about the establishment of **independent intersectoral commission** in water management has been given and generally approved but it was emphasized that excluding academic institutions (Slovak universities and institutes of the Slovak Academy of Sciences) from such commissions can bring a high risk of using the “out-of-date” solutions.
2. The **human factor** (incl. corruption) is a heritage of the past times but according to some participants it still remains one of the most directive factors within the decision processes considering the basin water management in Slovakia.
3. Much less concern is given about **the education of employees** of the water management enterprises than it was in the past.
4. **Competition** among the relevant institutions still prevails above the **cooperation** in Slovakia, especially as for the higher-budget projects. The need for platforms like GWP SK has been emphasized in this concern.
5. The **dialog** between the GWP SK platform and the decision sphere (Ministry of Environment) must be **constructive**.

it is a chimera to look for **single solutions** with general effect. The pluralistic approach to water management and **diverse** (in time and space) **solutions** should be considered.

“The need for movement from words to realisation (“**good practices projects**”) calls to heaven”

fair-play cooperation instead of realising “one-way” projects and has encouraged participants to **cooperate on the GWP SK platform**, as the partners of this platform have agreed with the basic ethic codex of the GWP.

The climate change is solved in detail within the “Adaptation Strategy of SR to negative impacts of the climate change” which’s component are also the suggested adaptation measures in water management. **The drought agenda is being under preparation** and will be incorporated.



Ďakujem za pozornosť



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