



WORLD  
METEOROLOGICAL  
ORGANIZATION



# Integrated Drought Management Programme in Central and Eastern Europe

*Sabina Bokal, GWP CEE  
IDMP ACMC meeting; 25 August 2018*

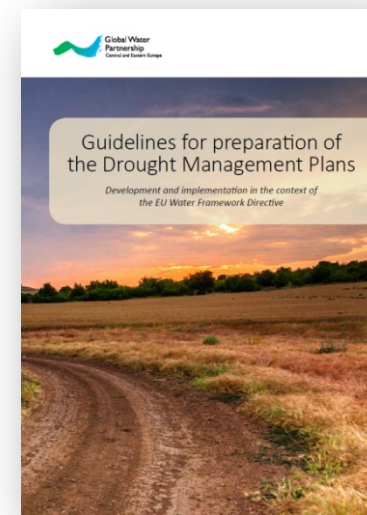
# Background IDMP CEE

Enhanced regional drought resilience and improved capacities of target groups for integrated drought management approach.



## 1st PHASE (2013 – 2016):

- regional cooperation
- implementation of innovative demonstration projects
- building the capacity of governments to develop drought management plans
- results are summarised in the “Compendium of Good Practices” report.



## 2nd phase (2017 – 2019):

- emphasis on the improvement of **drought risk preparedness, proactive management** and **cooperation** of key national and regional level actors to ensure the application of drought management in an integrated way
- new partners and stakeholders - hydrometeorological services, government agencies and authorities, farmers, etc.
- programme embeds EU Interreg projects to capitalise on their results and achieve synergies with the global programme

Improve drought  
monitoring / early  
warning system

Unification of  
drought risk and  
impact assessments

Built capacities  
to monitor, forecast,  
evaluate and respond,  
use/communicate

Integrate drought  
resilience into  
decision-making  
processes

**DriDanube project (2017-2019)** - to increase the capacity of the Danube region to manage drought related risks

*Lead partners: DMCSEE (ARSO)*

**FramWat project (2017-2020)** - to strengthen the regional common framework for floods, droughts and pollution mitigation by increasing the buffer capacity of the landscape.

*Lead partner: Warsaw University of Life science*

### Drought User Service

An innovative tool integrating all available data, including large volume of remote sensing products and serving the authorities to monitor, forecast and respond during drought development faster and with higher precision.

### Methodologies for drought impact and risk assessment

Unification and cross-border coherence of drought Risk and Impact assessments. Establishment of network of reporters as additional source of information for drought impacts in agriculture.

### DriDanube Strategy

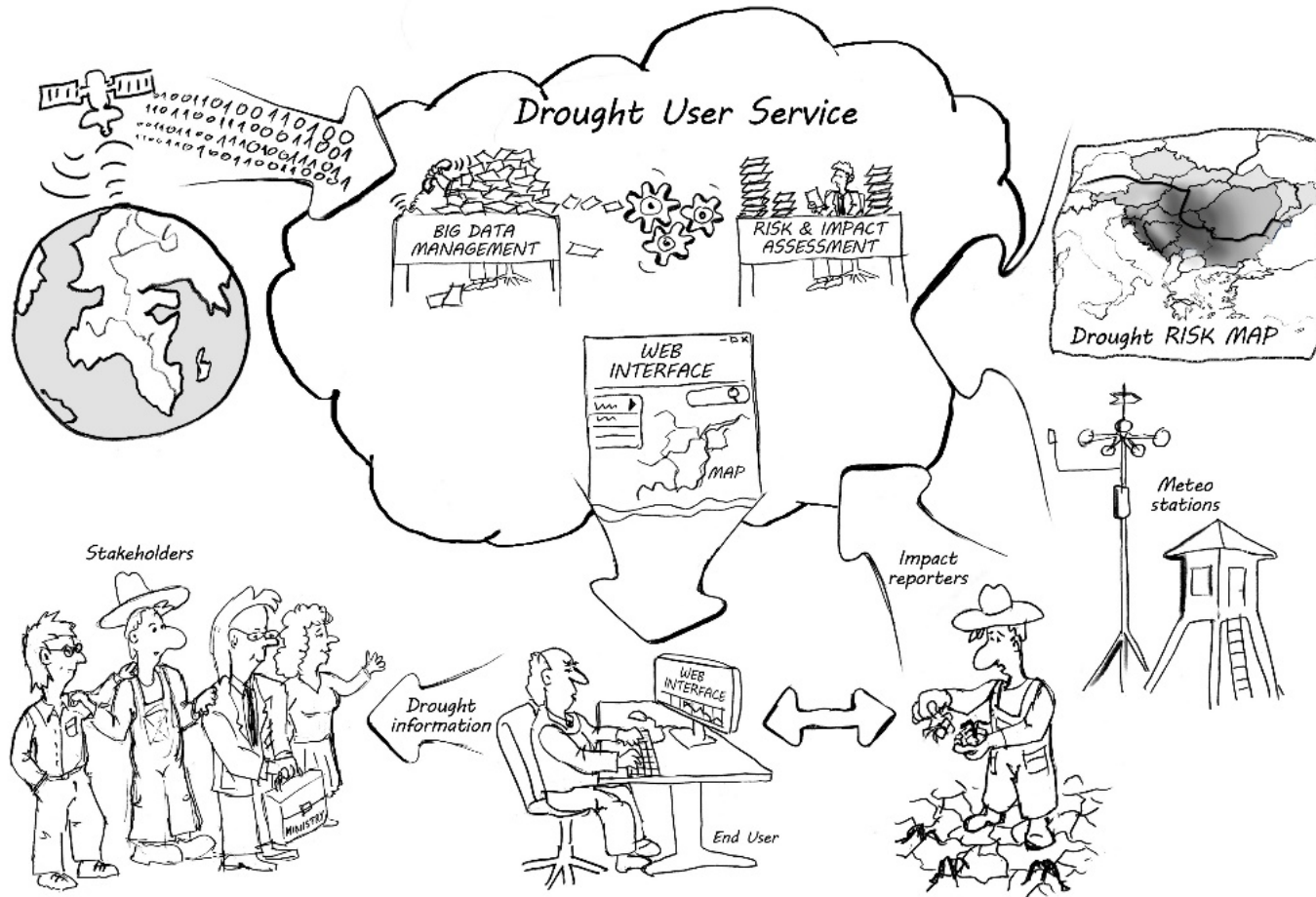
A clear guidance for overcoming the gaps in the drought decision-making processes and improvement of drought emergency response in the Danube region.

Small retention —  
Big deal!



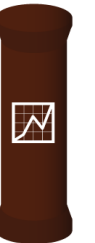


*Work implemented within DriDanube project...*



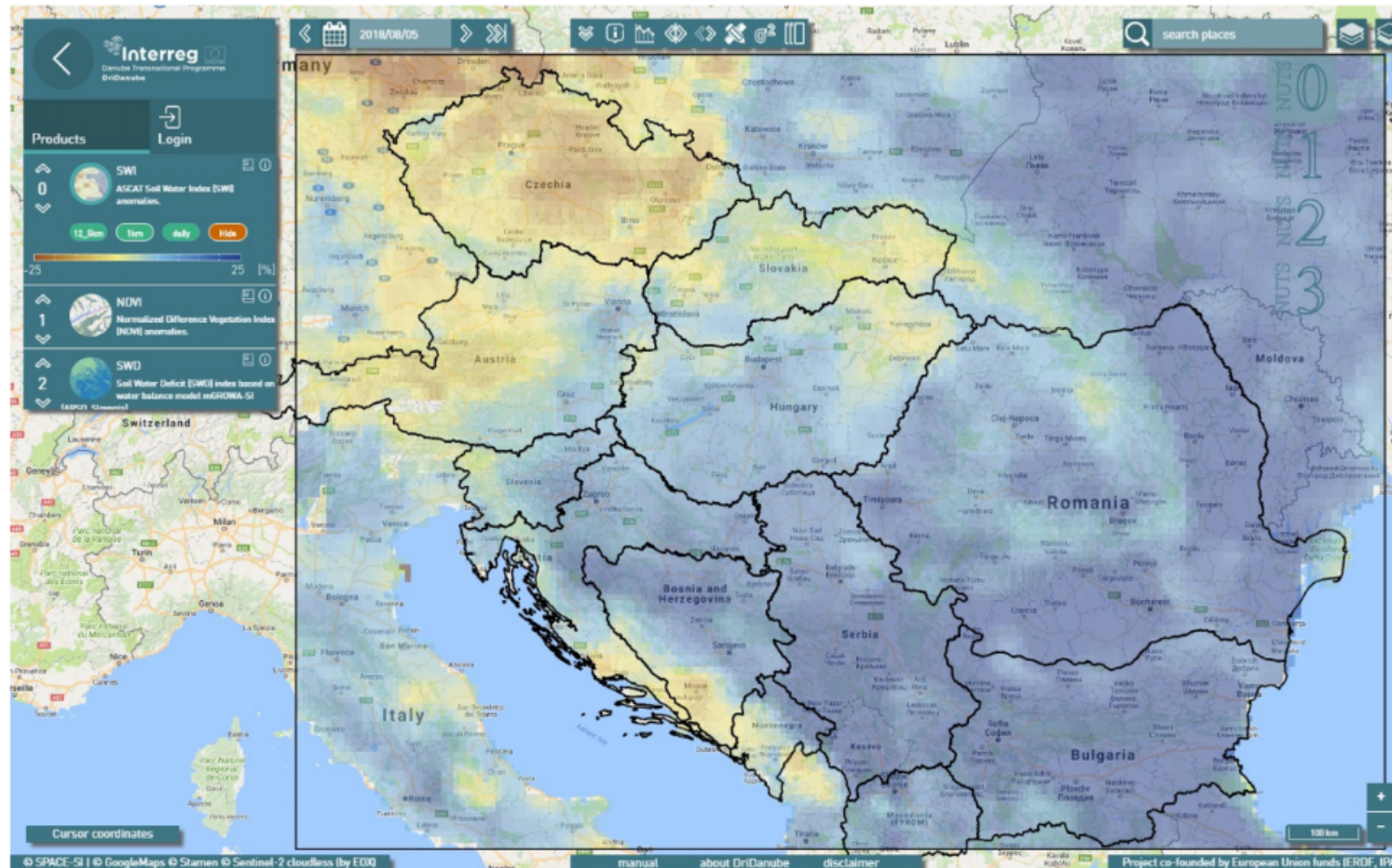
## Drought User Service

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Monitoring &  
Early Warning

## Soil Water Index on 5 August 2018 across the region as seen in Drought User Service



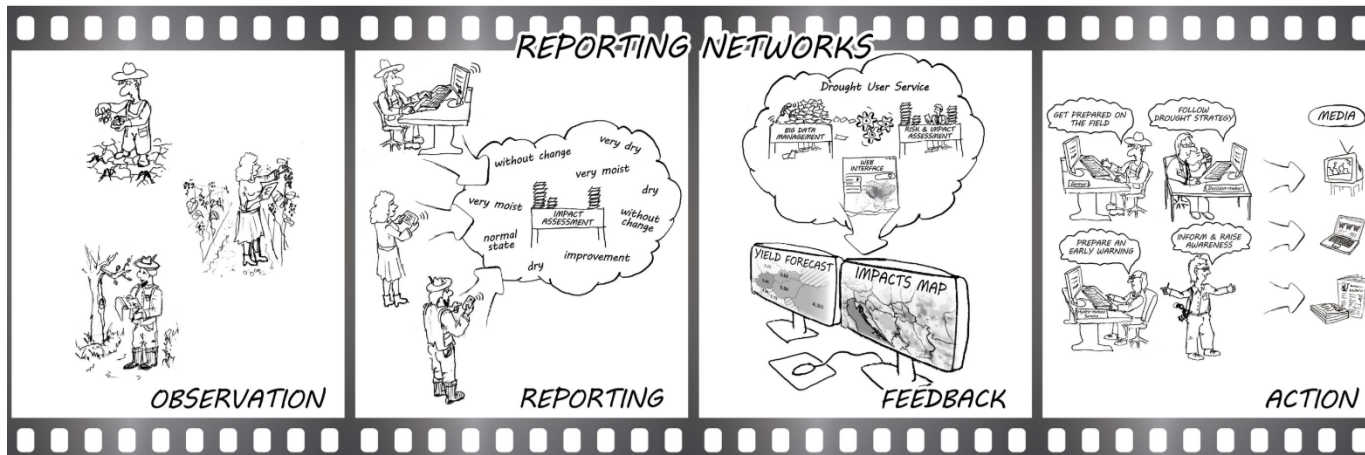
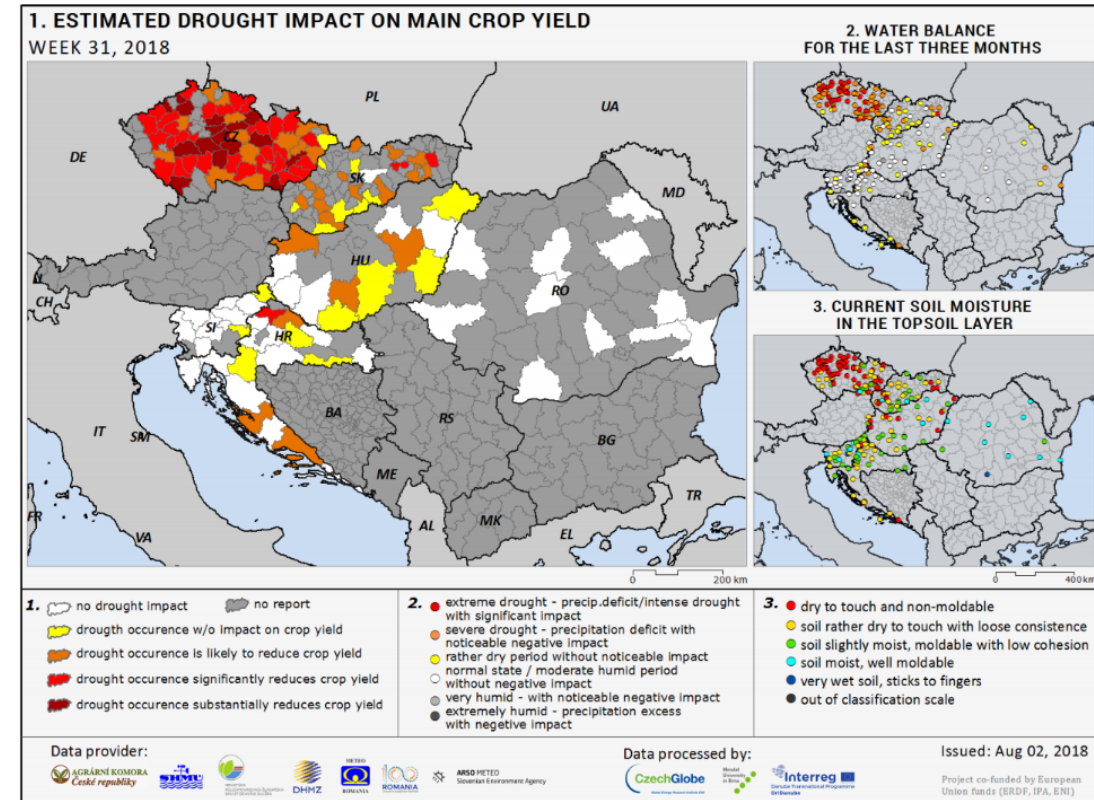


# Highlights 2017-2018

Work implemented within DriDanube project...

## Impact assessment

Apart from the remote-sensing based layers of the DUS, that will allow to estimate the soil water content and condition of the vegetation, there will be an add-on value of integrated data on near-real time drought impacts that will allow quick and efficient assessment of the current drought situation



Vulnerability &  
Impact Assessment

www.gwp.org

## 17 June - World Day to Combat Desertification and Drought

Will Danube region experience drought in 2018 again?  
Let's follow its development with DriDanube tools!

## Drought Watch 2018

[www.interreg-danube.eu/dridanube](http://www.interreg-danube.eu/dridanube)

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Drought 2018 Watch

### DROUGHT 2018 WATCH

Will Danube region experience drought in 2018 again?  
Let's follow its development with DriDanube tools!

Welcome to our DriDanube Drought 2018 Watch section.

This summer we decided to test DriDanube tools, the prototype of our Drought User Service and our constantly growing reporters network, to monitor the drought situation in the Danube region.

We will be regularly publishing the Regional drought bulletins, together with the maps documenting the situation. This current information will be provided by DriDanube partners from 10 countries.

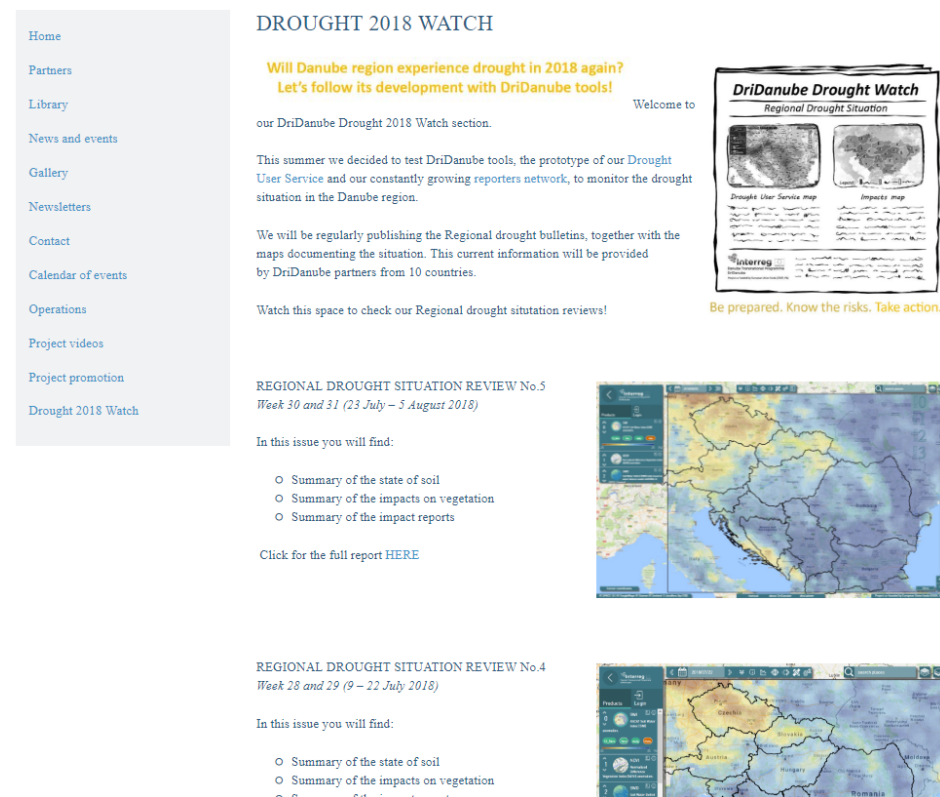
Watch this space to check our Regional drought situation reviews!

REGIONAL DROUGHT SITUATION REVIEW No.5  
Week 30 and 31 (23 July – 5 August 2018)

In this issue you will find:

- Summary of the state of soil
- Summary of the impacts on vegetation
- Summary of the impact reports

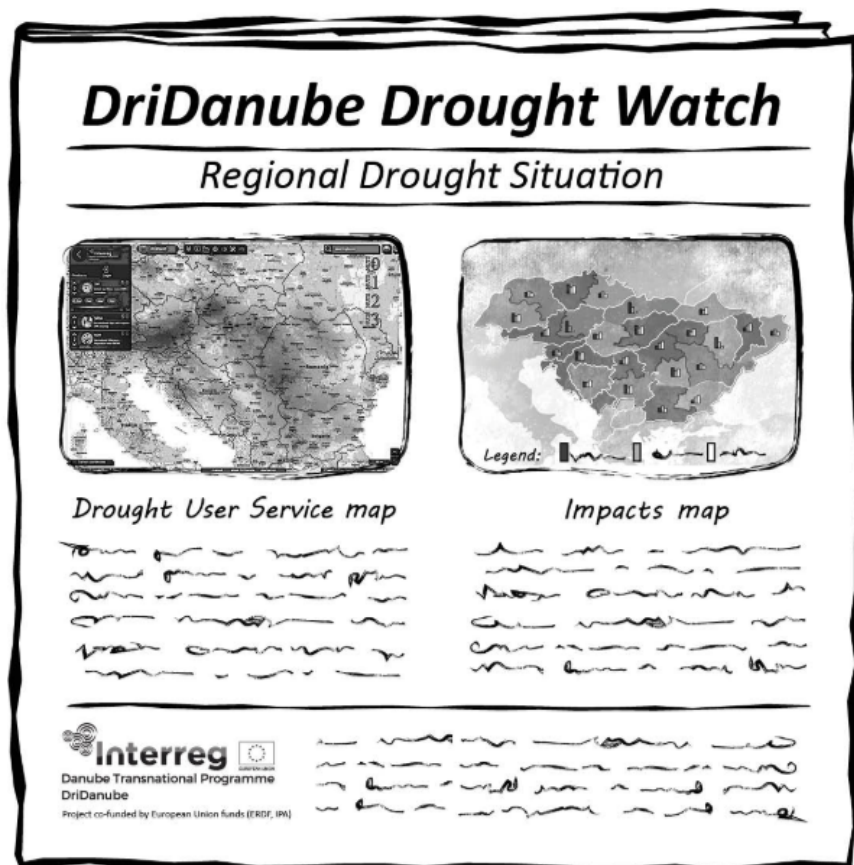
Click for the full report [HERE](#)



REGIONAL DROUGHT SITUATION REVIEW No.4  
Week 28 and 29 (9 – 22 July 2018)

In this issue you will find:

- Summary of the state of soil
- Summary of the impacts on vegetation
- Summary of the impact reports



Be prepared. Know the risks. Take action.







Monitoring &  
Early Warning

- Fully functional Drought User Service – *June 2019*



Vulnerability &  
Impact Assessment

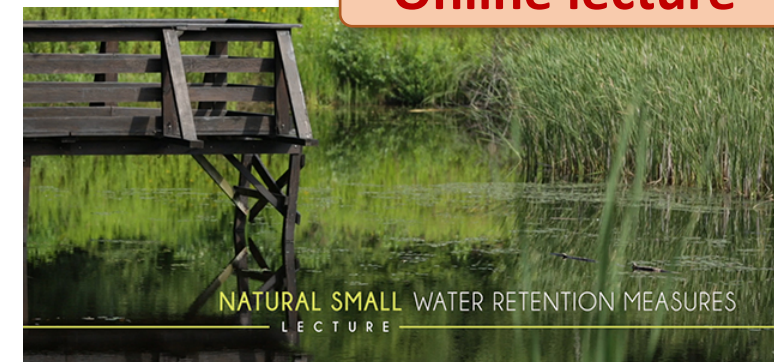
- Continuation - enlargement and establishment of the National Reporting Networks
- Fully functional Methodology for near real-time drought impact assessment and Methodology for drought impacts forecasting
- Preparation of the common methodology for drought risk assessment
- Drought risk map for the Danube region



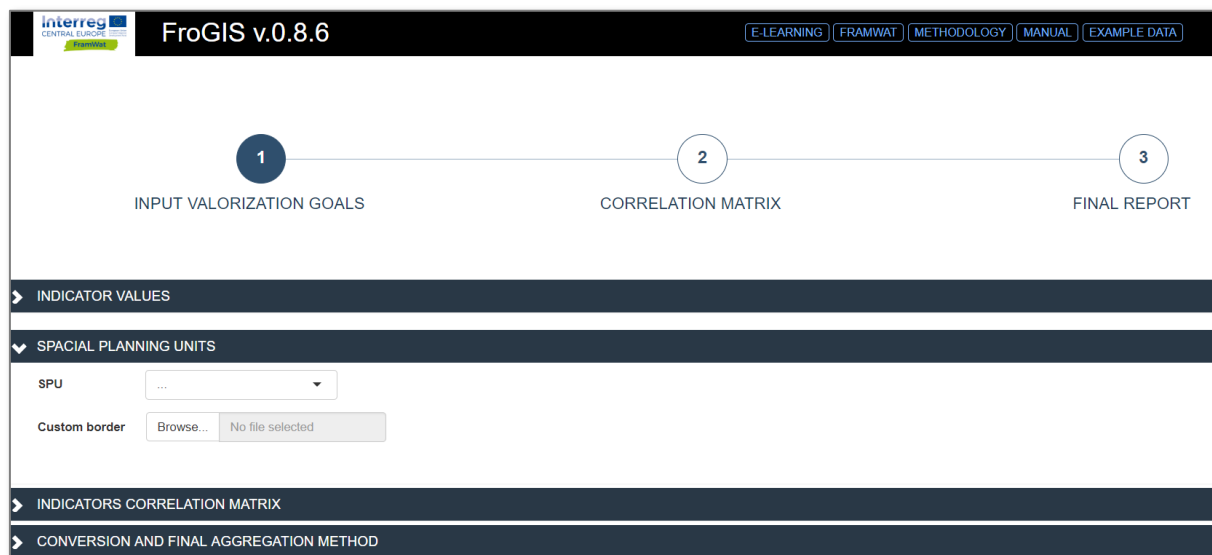
**FramWat project** as continuation of the demonstration project on Small Water Retention Measures from the 1st phase

- most precise **localization** of measures (technical and non-technical) in a river basin
- GIS TOOL for identifying the location - prototype version

Online lecture



Link: <https://www.youtube.com/watch?v=j5hg-0MOhK0>



## Plans 2018-2019

- 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

## Support with the preparation of the **Drought National Action Plan for Slovakia**

- GWP CEE member of the inter-ministerial group responsible for preparation of the plan
- IDMP CEE support and source (dialogues, Guidelines, etc.)

STEP 1 -Intergovernmental drought working group was established (Summer 2017)

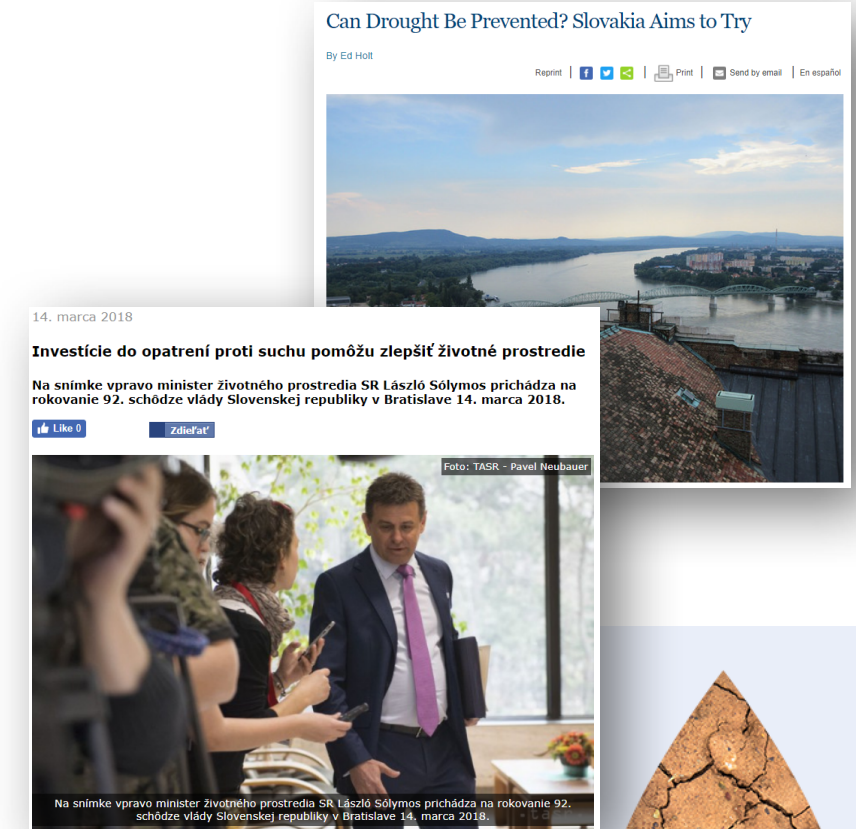
STEP 2 - Objectives of the Drought Action Plan were defined by the working group (September 2017)

STEP 3 - Data gaps and uncertainties were identified in the Action Plan

STEP 4 - Action Plan developed (September 2017)

STEP 5 - Public consultation in February 2018,

STEP 6 & 7 - research and educational measures proposed in the Action Plan



**Officially adopted –  
March 2018**



## POLICY

Review of the policy instruments (and strategies) and their potential to contribute to EU droughts and water scarcity policies (in cooperation with EUSDR)

- to examine what are the policy instruments in selected key economic sectors (water, climate change, agriculture, industry, transport, energy, biodiversity and nature) to contribute to EU drought and water scarcity policy

## YOUTH:

Topics of drought resilience and IDMP CEE at the GWP CEE Summer School (2107, 2018)





## Connections with Regional processes:

- **Drought Management Centre for South East Europe**
- **EU Strategy for the Danube Region** (cooperation with Priority Area 5 - Environmental Risk, 4 – Water Quality)
- **International Commission for the Protection of the Danube River** (climate change)
- **Carpathian Convention** (Climate Change Adaptation strategy, etc.)
- **European Drought Observatory**
- **UNECE** (International workshop on Water scarcity; Taking action in transboundary basins and reducing health impacts)
- **8th World Water Forum** (European process)

**Resource Mobilization and  
Overarching work  
connecting the pillars**

## Short term plans (end of 2018):

- Supporting Bulgaria, Ukraine, Moldova in developing similar proposal as DriDanube (possibly in cooperation with the GWP CACENA region);
- Organizing a workshop for Bulgaria, Romania, Ukraine, Moldova, etc. to working on a follow-up proposal (November, December 2018)

## 2019 Plans

- Finalizing projects
- Working with partners (DMCSEE, ICPDR, EUSDR, etc.) on developing new follow-up ideas and identify funding mechanisms (outside of EU funding) which will support them



# Thank you for your attention

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

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