EU views on sustainable water management

Herwig Ranner
European Commission

#FutureofCAP

#EUWater

Main Pressures on Water in the EU

Nutrient loading: decreasing trend - 15% reduction in Nitrogen inputs due to agricultural measures.

Water abstraction: Abstraction for irrigation is being reduced by 22% since 1990s.

(But patterns vary and emerging concerns)

Selected water-relevant new elements of EU Common Agriculture Policy and connected legislation

- **Water Framework Directive**
  - Art. 11(3)(e) on control of abstraction and impoundments
  - Art. 11(3)(h) on mandatory requirements to control diffuse sources of pollution by phosphates
- **Sustainable Use of Pesticides Directive**
  - Certification of users and equipment; restrictions on the use in protected areas; handling, storage and disposal of pesticides;
- **Appropriate protection of wetland and peatland**
- Use of Farm Sustainability Tool for Nutrients (***https://fastplatform.eu/about***)

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Farm Policy Measures beneficial for water

- **Knowledge transfer and information actions**,
- **Advisory services**, farm management and farm relief services,
- **Investments in physical assets**,
- Restoring agricultural production potential damaged by natural disasters and catastrophic events and introduction of appropriate preventive actions,
- Basic services and village renewal in rural areas,
- Investments in forest area development and improvement of the viability of forests,
- **Agri-environment-climate** measures
- **Organic farming** support
- **Support through Natura 2000 and Water Framework Directive**

EU farm policy – evaluation of its impact on water (ongoing)

The evaluation covered all EU farm policy (CAP) measures that impact on water.

- focusses on the quality and quantity of water use and abundance
- assesses whether the measures are **effective**, **efficient**, **in line** with EU legislation, **relevant** and **add value**.

https://ec.europa.eu/info/law/better-regulation/initiatives/ares-2018-5223861_en

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Knowledge Hub on Water & Agriculture

- **Link and integrate** existing sources of **information**
- **Make** information widely **accessible**
- Offering **practical solutions for sustainable use of water and agriculture**
- Contributions from the DGs, OECD, EEA, MS, EIP water, EIP AGRI, ENRD, FP7, FP8, FAO..
- Knowledge shared among EU, national and regional institutions and stakeholders
- https://water.jrc.ec.europa.eu/

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Saline agriculture in the Netherlands

Saline agriculture enhances food security, preserves soils and makes production in climate affected areas sustainable

For saline agriculture to be succesful a good local analysis is needed

Specialized seeds/plants are a prerequisite

Careful management plans and training for farmers are a critical success factor

Sustainable water management strategies in the LIFE CLIMCOOP project

LIFE19 CCA/HU/001320 ***"Cooperation between cities and local companies for climate change adaptation"***

The overall aim of the project is to develop, test and disseminate **public-private partnerships**, urban-corporate cooperation, in which **stakeholders take collective action to reduce local climate risks and take steps to strengthen joint climate adaptation in vulnerable urban and corporate areas** in the focus region, in Hungary and in areas with similar socio-economic conditions in East-Central Europe.

The focus area will be Kazincbarcika and its surroundings in northern Hungary, which is highly vulnerable to droughts, heat waves and flash-floods. **The cooperation** will be established between the **city of Kazincbarcika and BorsodChem Ltd.,** supplemented by consortium partners supporting the cooperation.

The project aims to reduce water-related vulnerability with the following good practices:

watershed level of river Sajó	Tardona river basin	**1**	Implementation of small scale natural water retention measures, like woody dams to reduce the risk of flash-floods in the sub-catchment of river Tardona
	At the city (Tardona joins Sajó)	**2**	Development, test and upscaling of a prototype, which will reduce the water demand from river Sajó, as well as demonstrate a solution to recycle grey water from different sources and its use to recharge groundwater aquifers and urban green surfaces, thereby reducing vulnerability due to limited water resources.
	Sajó river basin	**3**	Building river basin level partnership (Water Stewardship) among large water users to reduce the water demand from river Sajó, and to upscale the applied good practices to river basin level.

https://life-climcoop.hu/

A projekt az Európai Unió LIFE programjának támogatásával valósul meg.

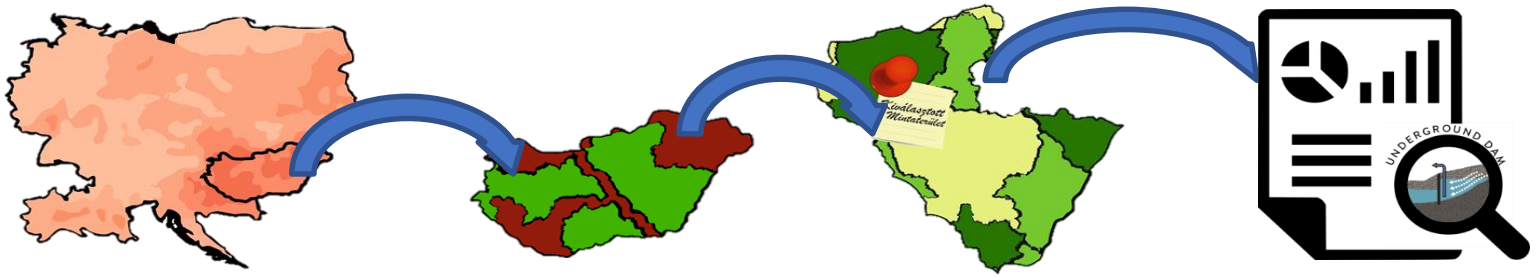
DEEPWATER-CE

https://www.interreg-central.eu/Content.Node/DEEPWATER-CE.html

MBFSZ MINING AND GEOLOGICAL SURVEY OF HUNGARY

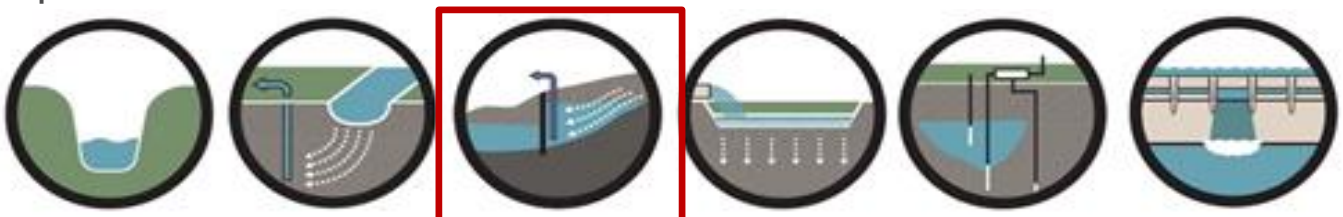
NAKFO DIVISION OF NATIONAL ADAPTATION CENTRE Mining and Geological Survey of Hungary

Development of an integrated implementation framework for managed aquifer recharge solutions to facilitate the protection of Central European water resources endangered by climate change and user conflict



MAR technology independent

Different parameters and parameter ranges depending on the target MAR technology



Ditches | Induced river and lake bank filtration | Underground dams | Infiltration ponds | Aquifer storage and recovery (ASR) | Recharge dams

Pilot site, Maros alluvial fan

6 different technology!

Interreg CENTRAL EUROPE DEEPWATER-CE

Further Examples in the EU agriculture brochure

- Reducing emissions from drained organic soils in Germany: Towards Tier-3 methods for peatland emission mitigation measures (page 7)
- Territorial project for water resource management in southwest France (page 11)
- Good practices to reduce effects of global changes, including water management (page 17)
- ***https://ec.europa.eu/clima/sites/clima/files/climate_action_agriculture_en.pdf***

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THANK YOU!

Further information is available at:

- *https://ec.europa.eu/clima/sites/clima/files/climate_action_agriculture_en.pdf*
- **herwig.ranner@ec.europa.eu**

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