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# LIFE Platform meeting FOCUS ON WATER RESILIENCE STRATEGY

LIFE Strategic Integrated Projects implementing River  
Basin Management Plans practices

Day 1.  
Workshop  
POLLUTION CONTROL

## Miroslav Cernik



14-15 October 2025

Brussels

This meeting is  
organised by





Project title: **LIFEPOPWAT**

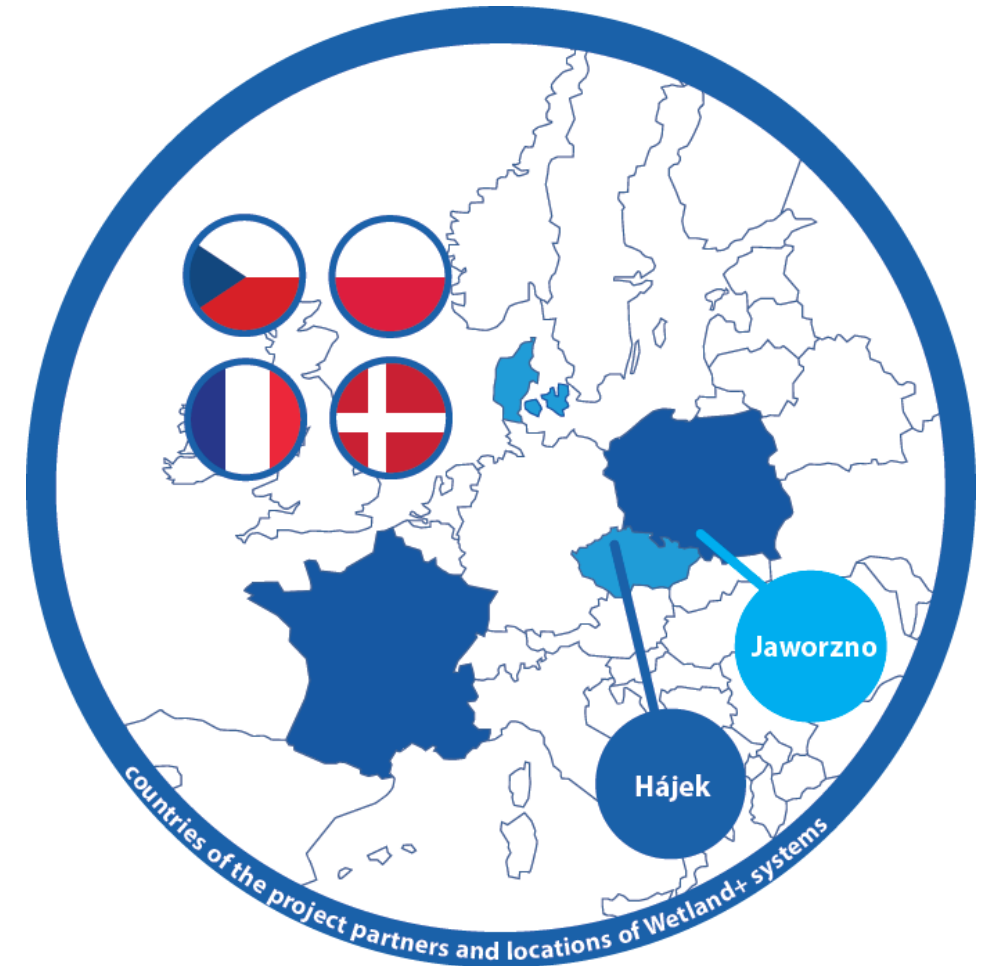
RBMP targeted: **Elbe River**

Beneficiary/ies: **Technical university of Liberec/  
university**

Total Budget: **€3.16M**

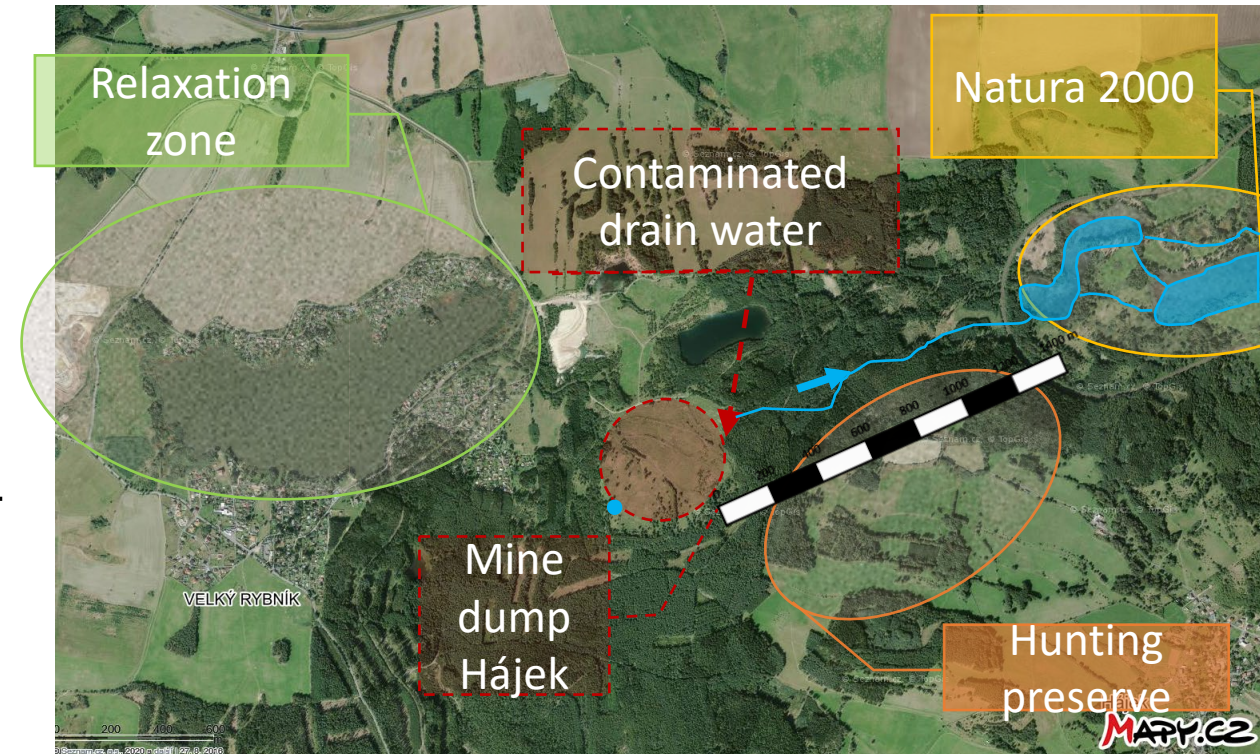
Start and end dates: **1/2020 – 12/2023**

Presented by:  
**Miroslav Cernik**  
Project main investigator  
**Miroslav.cernik@tul.cz**



# LIFEPOPWAT

- General project overview:
  - Objectives - Treatment of HCH polluted waters by a passive system (Wetland+)
  - Main expected impacts/results – Significant decrease of HCH concentration in polluted water at two demonstration sites (Hájek , CZ+ Jaworzno, Poland)



- Water outflow from Hájek slag heap → Ostrovský creek → Horní Stit lake → Bysřice River → Ohře River → Elbe River

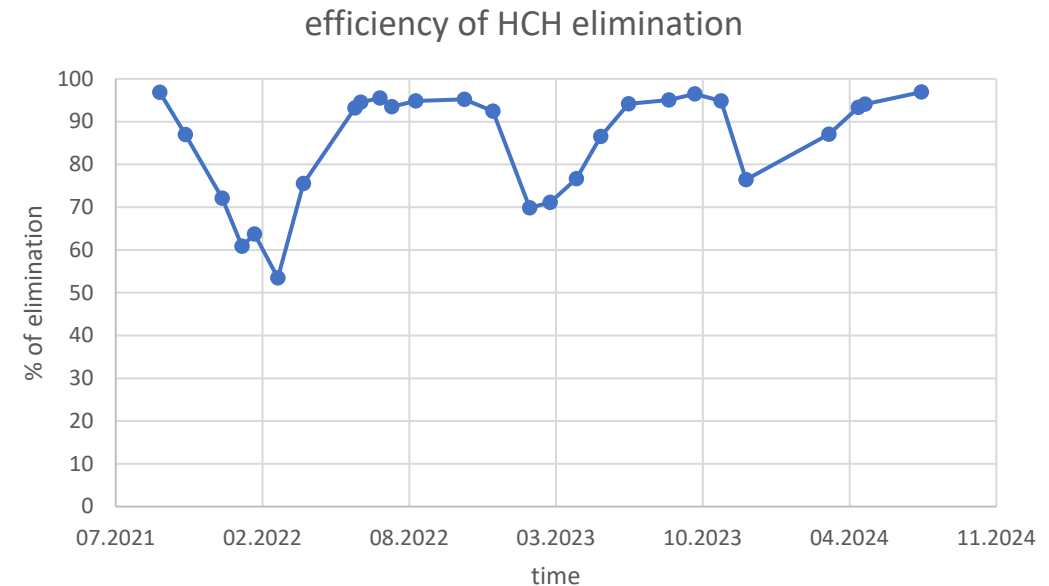


# Pesticide-contaminated waters: CHALLENGES & POTENTIAL SOLUTIONS

- DIAMO, as the site manager, received a decision of the Watercourse administration on the need to reduce the concentration of HCH in outflow water below a limit.
- HCH discharged amounts were in range of 25 g/day.
- Wetland+ technology: PRB → biosorption → CW
- Compare to excavation, WWTP, no-action (LCA)

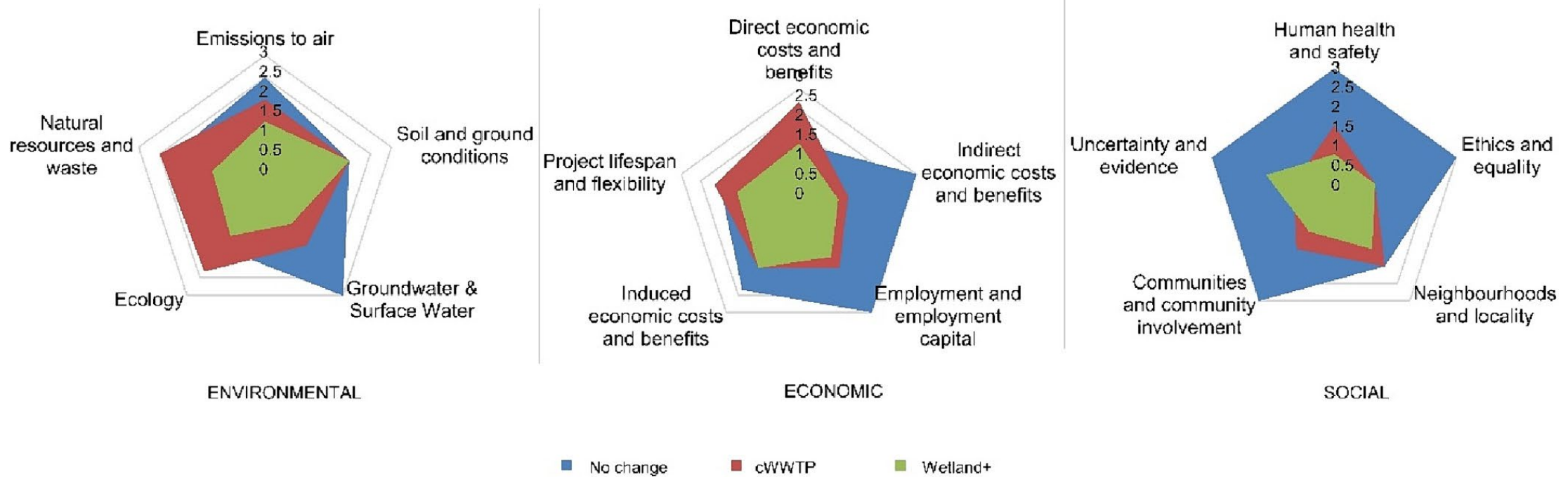


# Case study LIFEPOPWAT at Hajek, CZ: Ohre River



- Hajek site (flow 1-5 l/s, temperature 0 – 25 °C, HCH concentration 50 – 260 ug/l)
- Did not work well: replication on other sites
- Did well: Preparatory work!, involvement of all beneficiaries, result-oriented

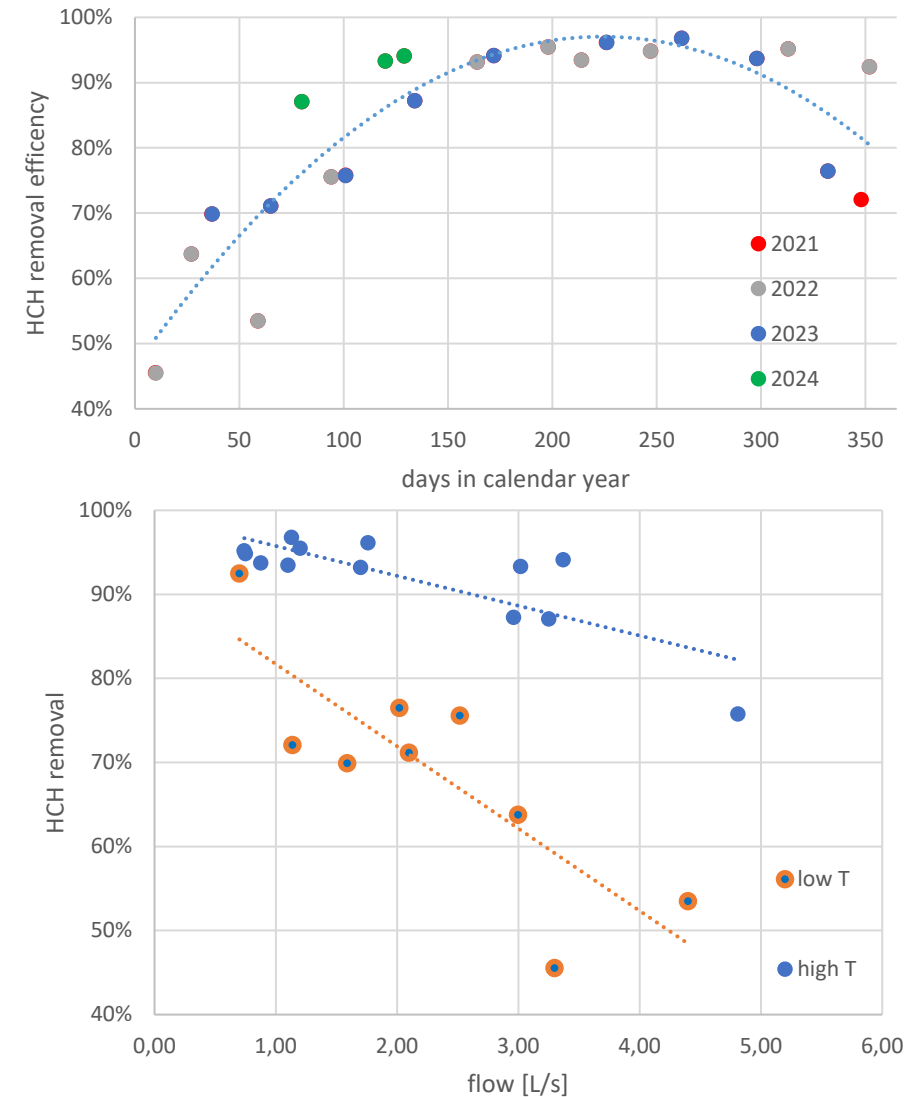
# Case study LIFEPOPWAT at Hajek, CZ: Ohre River



- Public involvement in LCA (comparison with WWTP and no-action scenario)
- 3 steps: small team → all beneficiaries → public bodies, NGOs, public
- Site visits...

# Project results, next actions

- Impact: HCH significant removal
- Campaign for replicating results – potential site visits, conferences, articles
- We have prepared the LIFE4FARMS project for the removal of nutrients and pharmaceuticals from water (as a result of agricultural activity).
- Local municipality and the Water Body are satisfied





# Thanks to LIFE programme!

