

LIFE20 CCA/HU/001604

## CHALLENGES OF HEAVY RAIN AND RELATED FLASH FLOOD EVENTS IN RURAL AREAS

**INTRODUCTION OF LIFE LOGOS 4 WATERS PROJECT** 

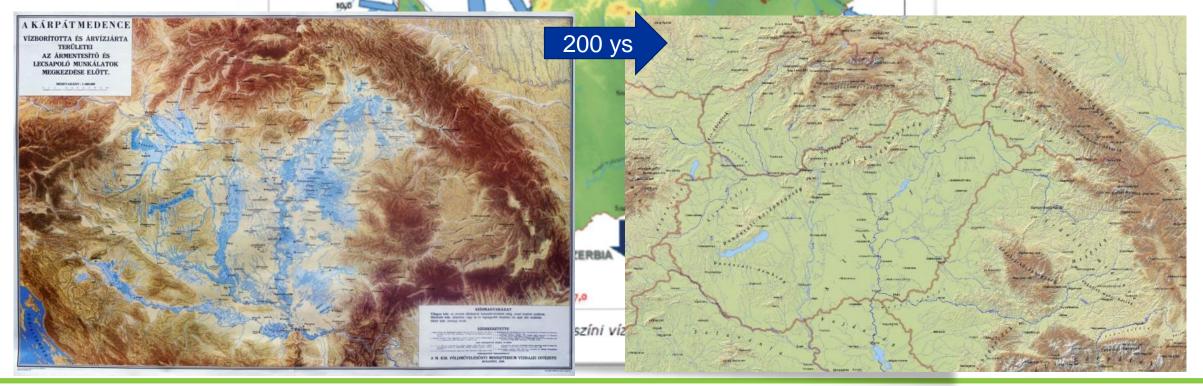
Adapting to Climate change in relation to WATER – 28th November 2023, Budapest

Petra Szatzker, project manager



## **Basic issues**

- Annual percipitation: 500-750 mm
- Annual evaporation: 420-570 mm
- River regulation in the 1800s
- Water budget: droughts and floods
  Sinking groundwater table
  90% reduction of active floodplain





## Effects of climate change

#### Flash flooding



Excess water inundation



#### Problems:

- $\succ$  Erosion and soil degradation
- > Heat-waves
- > Degradation of freshwater habitats







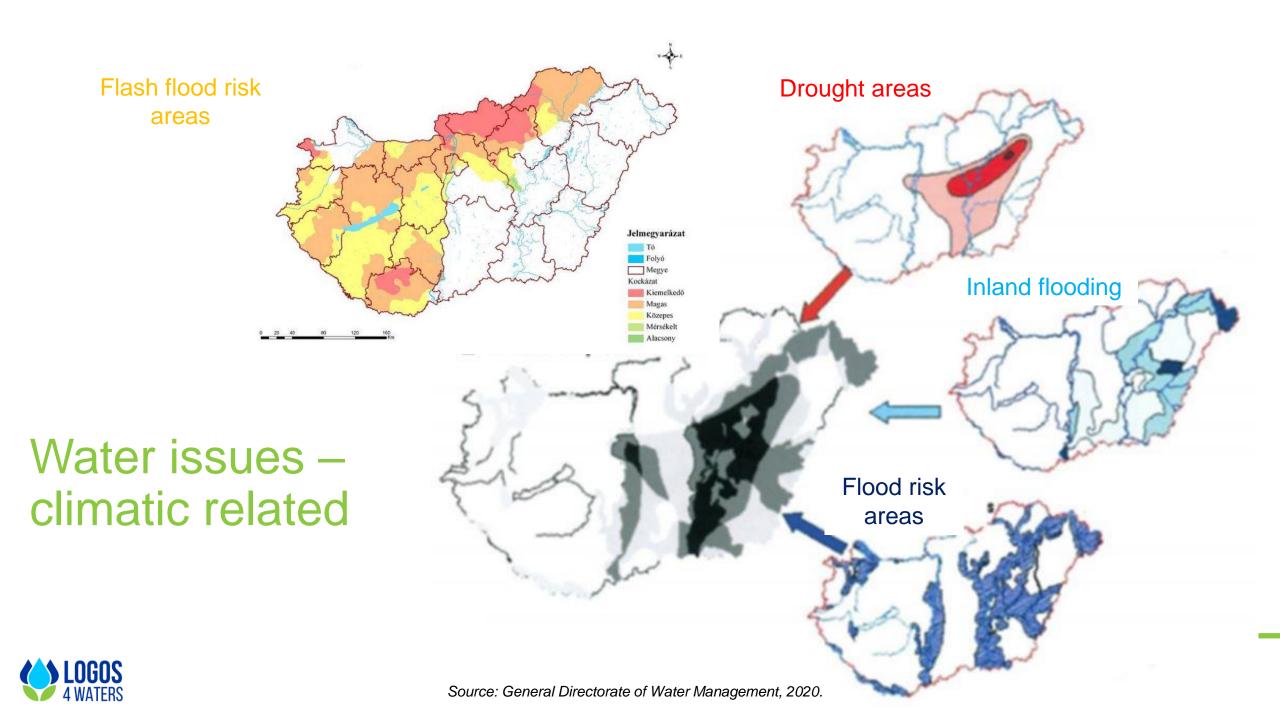


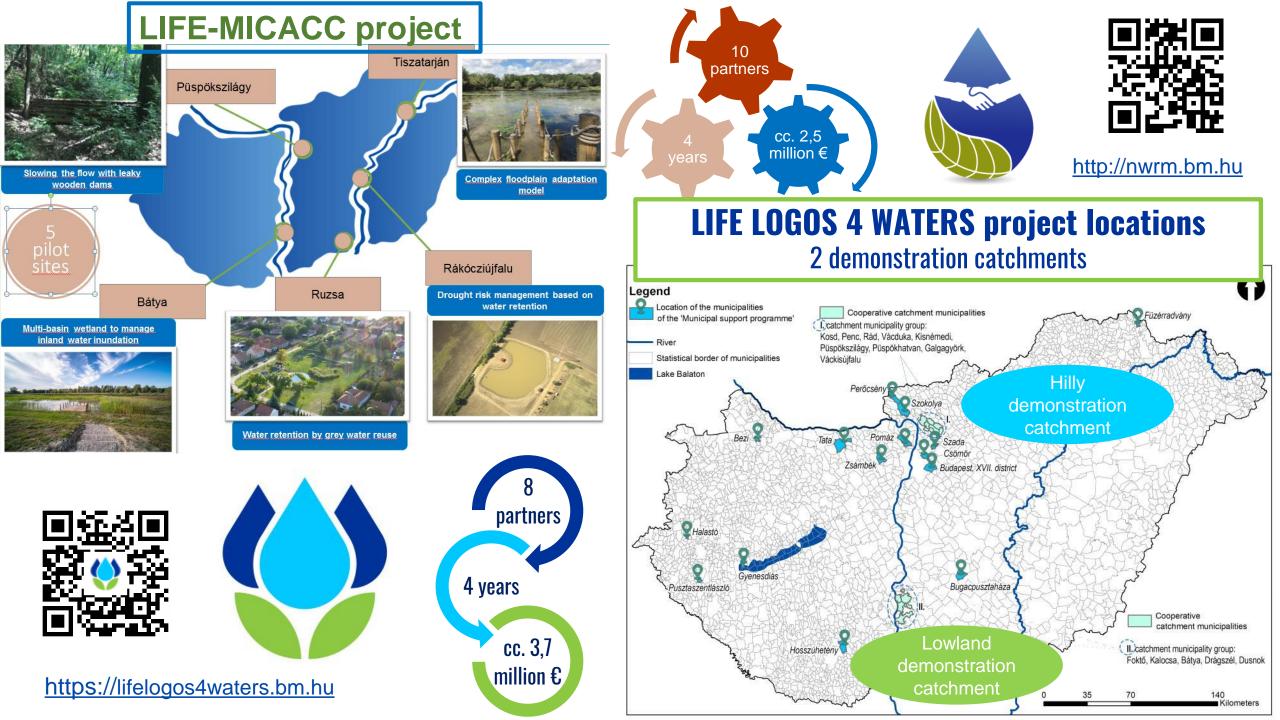


















- **♦** Cost-effective
- ♦ Close-to-nature
- HAT
- Protect settlements
- "Little streams make great rivers!"

ÍMABARÁT

MAGYAR MÉRNÖKI

Attractive townscape

**BELÜGYMINISZTÉRILI** 





- > Municipalities have firsthand experiences at the settlements
- $\succ$  Know the potential resources



 $\succ$  Know the local stakeholders

Why municipalities?



WWF

> Form local strategies and plans







#### Log-dams



#### **Sedimentation**



# Hilly demonstration catchment



#### Mud reservoir



#### **Slowing down, infiltration**





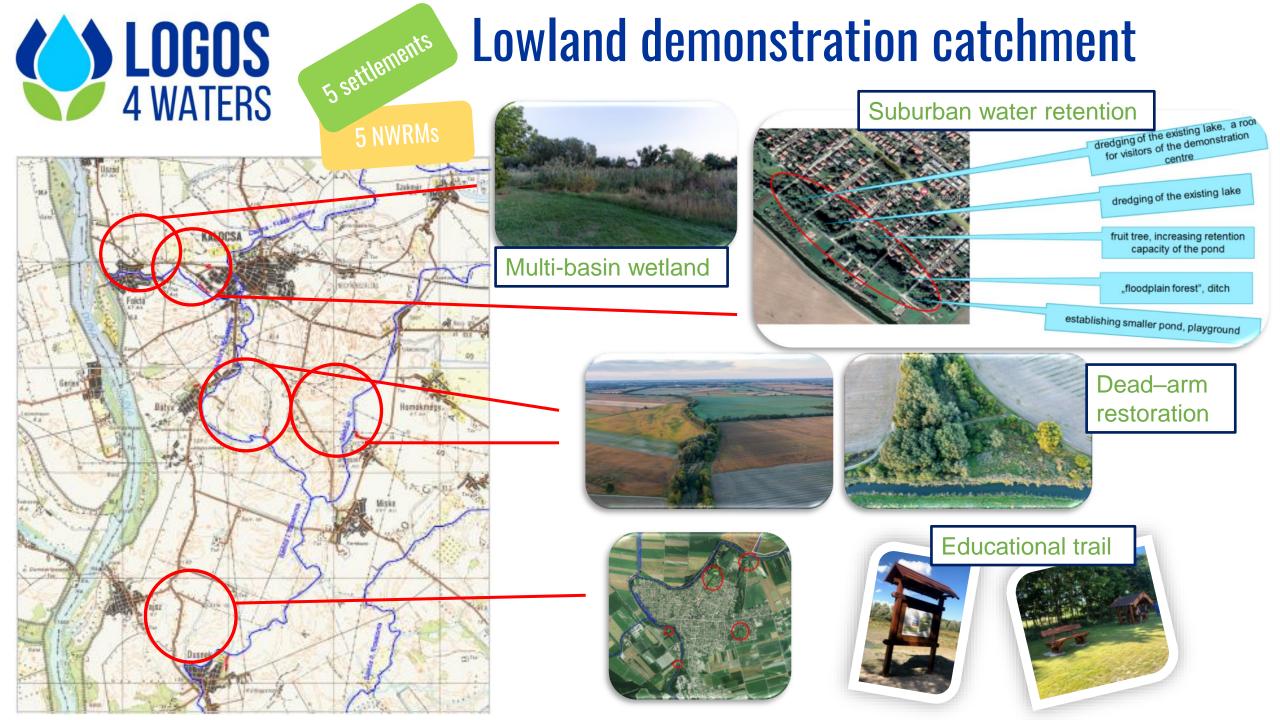
#### Side reservoir



Landfill



- Slow down the flow
- Flood peak reduction
- Retain excess water
- **Erosion reduction**



## 2 support programmes for municipalities – 286 participants



# Involvement



### Via 2 kind of institutions

### **Integrated Support Board**









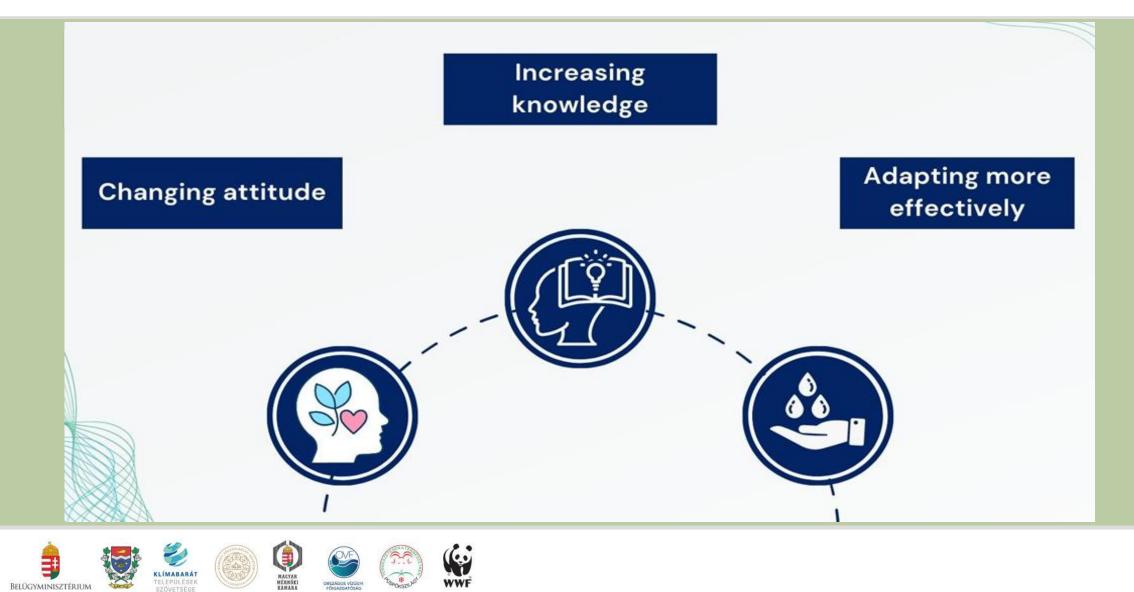
### Multi-stakeholder Catchment Forums





BELÜGYMINISZTÉRIUM

What we expect ...



WWF

# Thank you for the attention!

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