

Log-dams and side-reservoir protecting small mountain settlement from sediment erosion and flash-flooding - experiences from first three years of operation

European Climate Change Adaptation Conference, 2023 Dublin

MICACC - basic informations
Duration: 01/09/2017-31/08/2021
EU contribution: 1,528,069 Euro
Total budget: 2,546,783 Euro

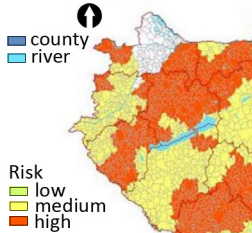
SEDIMENTATION

leaky woody dams are efficiently retaining water and sediment

these dams allow water to flow through slowly over about 15% of their cross-section



Categorisation of the settlements of Hungary by the levels of flash flood risks



Püspökszilágy settlement

Problem: flash floods at least once or twice a year

Solution: slowing down the flood of water

Problem:
flash floods at least once or twice a year



FLOOD PEAK REDUCTION

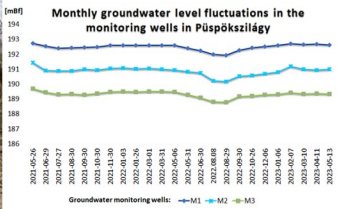
leaky woody dams successfully contribute to the flood-peak reduction effects

landscape-fitting solution was created

RESULTS



LOGOS - basic informations
Number: LIFE20 CCA/HU/001604
Duration: 1/10/2021-30/09/2025
EU contribution: 2,070,703 Euro
Total budget: 3,764,915 Euro



GROUNDWATER MONITORING SYSTEM

the local groundwater level was stabilized

the condition of the local microclima, as well as flora and fauna improved

a new permanent wetland was created

RESULTS