O2 - Best Practice Data Sheet

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Name of the Project: FLOOD PROTECTION in Hlohovec

Carrier of the Project: City Hlohovec Lomnica

Country: Slovakia / Trnava Region

Contact: City Hlohovec, www.hlohovec.sk

Duration: study and construction from 2009-11

Reference:
http://www.hlohovec.sk/?program=50&module_action__0__id_clanok=16804

https://kravcik.blog.sme.sk/c/277312/Open-Air-Gallery-revitalizacie-krajiny.html

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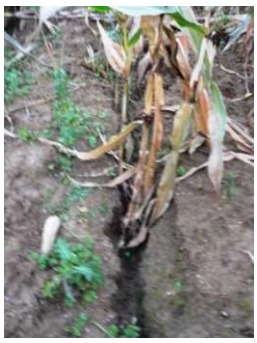
Origin and Context of the Project

Due to the unsuitable manner of ploughing agricultural land, regular local floods occurred in the town of Hlohovec. The extreme last local flood in the town was occurred in July 2009.

In 2009, the town asked the NGO People and Water to develop a project which resulted in proposals to reduce erosion directly on agricultural land and build a whole cascade of flood prevention measures in the creek called Šumperský jarok, where water flows only during heavy rains.

In 2011, the town implemented a flood prevention project on the Šumperský jarok to build 37,000 m^3 of water retention measures. The total costs of the project got to € 120,000 with the financial support from the Government Office of the Slovak Republic. Unique solutions that attract not only tourists but also those interested in seeing these measures in practice were implemented.



The types and selection of water restraint measures were logically designed and implemented throughout the section from top to bottom, from simple to more complex.

Wooden interlaced dams made of branches of acacia wood, followed by pole dams also made of acacia wood were implemented in the upper part of the Šumperský jarok. The upper interlaced dams were selected to contain sediments from erosion from agricultural land. A total of 17 units were implemented. The dominant part was implemented on the side erosive grooves to prevent the flow of sediments into the Šumperský jarok.

Pole dams were built to mitigate the removal of biomass and branches in the flood wave. A very interesting dam made of acacia wood and stone was built on the main tributary. Followed by loose dams, gabions and finally, at the end, sheet piling dams.

The whole cascade of measures creates a symbiosis of diverse measures and attracts visitors to this place. The whole project has been tested several times by intensive rainfall and the most intense rains in the summer of 2016 turned into a very faint flood wave. At the same time, in a neighbouring valley with no protective measures, a flood wave swept through, causing damage to the town.
At Šumperský jarok there was a very weak flood wave without any risk (see the last two photos.

Photo: Michal Kravčík