European Network for Rural Development

Anti-flood and fire fighting reservoir Mestske lesy Krupina

EAFRD-funded projects

SLOVAKIA

Restoring, preserving and enhancing ecosystems related to agriculture and forestry

Location
Krupina

Programming period
2014 – 2020

Priority
P4 - Restoring, preserving and enhancing ecosystems related to agriculture and forestry

Measure
M8 – Investments in forest areas

Funding (EUR)
Total budget 530023
EAFRD 397517.25
National/regional 132505.75

Project duration
2015 – 2016

Project promoter
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The construction of a water reservoir helped combat the more frequent extreme weather events such as heavy rainfall and forest fires due to climate change.

Summary

Climate change can have a signigicant impact on local economies as extreme weather events such as heavy rainfalls and forest fires occur more and more often. In order to protect the area around Krupina town in southern central Slovakia, support from the rural development programme financed the construction of a reservoir on the bank of the Vajsov stream.


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Results

The reservoir plays a key role in preventing flood damages in the area around the town.

Adjusting small water flows contributes to biodiversity, carbon sequestration and adaptation to climate change.

The reservoir contributes to sustainable forest management, as it prevents soil erosion and retains water in the forest.

Lessons & Recommendations

- ❑ Even though this project was quite simple, there was a considerable administrative burden connected with its implementation.
- ❑ While implementing such projects, it is necessary to take into account the local natural conditions, the accessibility of the terrain, the proximity of the watercourse and urgency of the measures of anti-flood and forest fire protection.

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Context

Climate change has an impact on weather patterns and extreme weather events occur more and more often. Heavy rainfall (cloudbursts) have been affecting the whole territory of Slovakia. Town Krupina experienced serious floods due to cloudbursts in 1999. Due to the high risk of reoccurring floods there was an urgent need for anti-flood and fire fighting reservoir.

Objectives

Project objectives included:

- the introduction the preventive measures to protection against floods;
- the retention of intensive precipitation in the mountain streams;
- the mitigation of erosion process as well as the accumulation water for protection against fire,
- the prevention of flood damages on forest and agricultural land around Krupina town and in the town itself.

Activities

Following the preparation and submission of the project application, the project managers negotiated and acquired the necessary clearances from the different authorities for the works, such as issuing the building permission. In addition, the supplier was contracted through a public procurement procedure, and the construction itself started.

Specific works carried out included excavation works for adjusting the slopes and the bottom of the reservoir; laying down the geotextile fabric, waterproof foil, top protective geotextile fabric and storing the concrete blocks around the reservoir. Placing concrete rings and connecting the plastic pipes to the suction catcher which leads to the sludge catcher. The contractor installed inlet pipes, adjusted the edges of the reservoir, and installed fencing and protective railing. An access gate was installed and the area around the reservoir was adjusted for grazing.

Main results

The constructed reservoir plays a key role in preventing flood damages in the area around the town.

Adjusting small water flows helped improve biodiversity, carbon sequestration and adaptation to climate change as well as environmental protection in the region.

The reservoir contributes to sustainable forest management, as it helps prevent soil erosion and retain water in the forest.

Key lessons

Even though this project was quite simple, there was a considerable administrative burden connected with its implementation.

In the attempt to transfer and replicate this project, one should take into account the natural conditions, the accessibility of the terrain, the proximity of the watercourse and urgency of the measures of anti-flood protection and protection against fire.


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Additional sources of information

n/a

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