Brakel, Belgium

River restoration and grass-flower buffer strips increase biodiversity **Restoration Dorenbosbeek**





Due to land management was relocated within the and the river banks were





herinrichting-dorenbosbeek

NbS in depth



Environmental benefits

Fish migration was restored allowing locally protected species such as bullhead and brook lamprey to colonize new habitat leading to self-sustaining populations.

The natural e-flow was restored within the river creating extra microhabitat and promoting macroinvertebrate life. The flower buffer strips promoted insect diversity.



Social benefits



A bridge was constructed over the newly restored river to increase accessibility and allow recreationists to enjoy the typical landscape and spring streams.

Economic benefits



Erosion and flooding are reduced due to the construction of an erosion pool and thanks to extra water buffer canals, remeandering and the construction of winter beds.

This reduces the cost for drediging, reduces the possibility of economic damage by floodings and supports earlier ecological investments made. Insects foraging on the flow-buffer strips can act as natural enemies against pest species protecting the crops and increasing the yield leading to higher economic benefits.

To have the buffer strips installed the project also included farmers on a volontary basis to create support and connect with farming activities. Different stakeholders were informed on the planned activities and could provide support.







Credits: Pieter Boets (senior researcher aquatic ecology)

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