Design of a decision tool for hydromorphological restoration of water bodies in Walloon Region WALPHY - LIFE07 ENV/B/000038

The specific objectives of the project are the following :

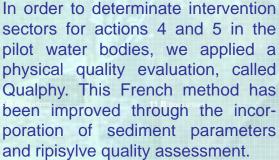
development of a unique, usefull and suitable methodology in Walloon Region to determine and schedule river physical quality restoration works.

realisation of experimental and demonstrative river restoration works on some risk water bodies in the studied basin based on two axes : longitudinal continuity and transverse continuity (area of freedom);

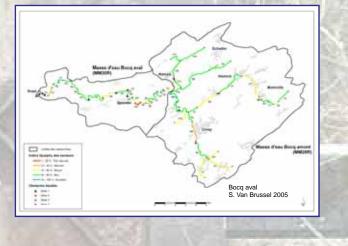
monitoring of the restored river system and its ecological status evolution with a geomorphological and an ecological monitoring

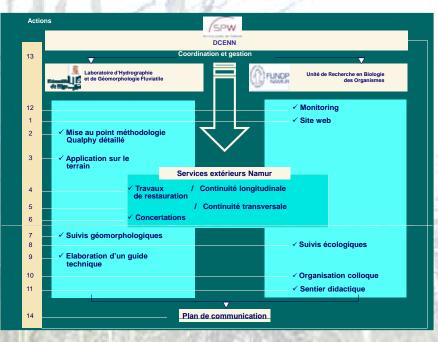
Bocq upstream and Bocq downstream = non natural and risk water bodies Seemed to be convenient for the restoration works which concern the longitudinal continuity due to the presence of obstacles and also for transversal continuity





Physical quality assesment







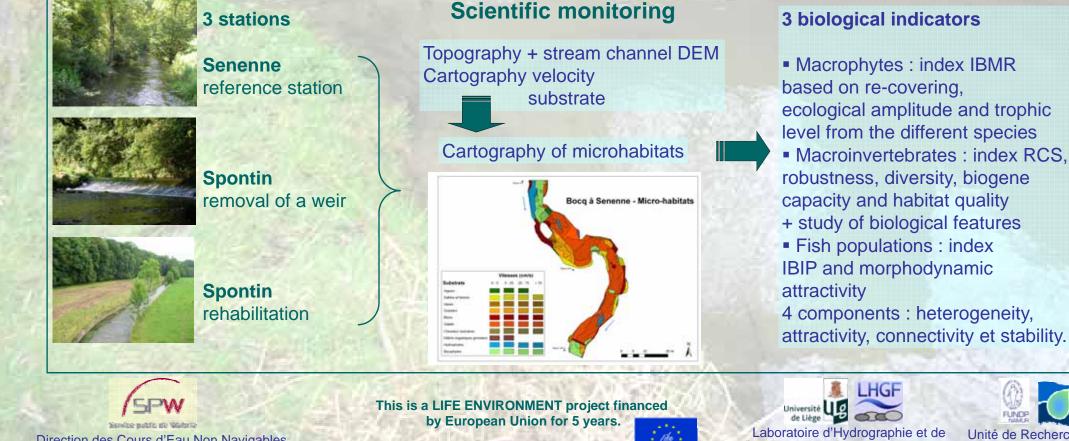


According to this physical quality evaluation, every sector of the river has a global physical quality score, which is calculated from 40 parameters. Each score can be decomposed in 3 compartments: flood plain, stream channel and banks.

First restoration study about the eight most important obstacles of Bocq downstream

- Phase 1 : inventory + 3 scenarios / obstacle
- Phase 2 : multicriteria comparative scenarios analysis (cost of the work, socio-economic aspect, microhabitat, sediment transport and flooding impacts...)
- Phase 3 : detailed preliminary draft (5 obstacles)





Scientific monitoring

Macrophytes : index IBMR

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Géomorphologie fluviatile

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