Environment Agency

SYKE

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SESSION

**RIVER** RESTORATION **TECHNIQUES** 

# River Restoration and biodiversity: techniques developed and used in Belgium by private consultants

Ir. Sebastien Den Doncker (Stream and River Consult SPRL, Belgium, info@streamandriver.com)



Constraints

Final restoration

project

X %

Natural

Ecosytem

## I. Our Philosophy

- ✓ Thorough diagnosis essential
- ✓ Which healty starting point do we want to recreate?
- ✓ Knowledge (continuous training)
- ✓ Ecosystemic approach (sustainable development and global way of thinking)

# II. Our Projects and techniques



Dam impact project Governement With Faune et Biotopes Association Tourism (local

econnomy)

Vesdre, Ourthe, ...

rivers Project

Administration

Global approach

Flood

**Burnot River project** Pivate (landowner) **Erosion** meanders

Geer, Berwinne, Houille Rivers Project

> **Hydraulic annexes** Spawning areas

Interreg

Bio enginering Hydrobiology Civil engineering (hydraulic,

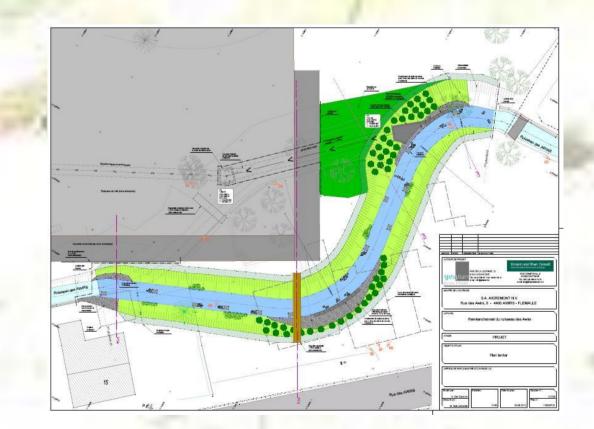
structure, stability) Technical drawing

Awirs River Project Private company **Esthetic** Landscape



Walphy Project Otter project Life (E.U.) **Fish Habitats** LWD, ...

Private Wetlands project (landowner) **Biodiversity** Riparian area



## III. Assessment of the situation : river work

It is indispensable to interfere?

- 1. other solution (purchase of land...)
- 2. risk: problem displacement
- 3. is it sustainable development

Yes

No

What can be done to procect the ecosystem during the works?

Which compensation measures are needed

#### IV. Our Conlusion

- Complexity: global approach needed
- Cost efficiency/Natural process favoured
- Good ecosystem response : flexible scientific assessment needed