# Bruxelles Environnement
# Projet LIFE Belini

# Leefmilieu Brussel
# LIFE Belini Project

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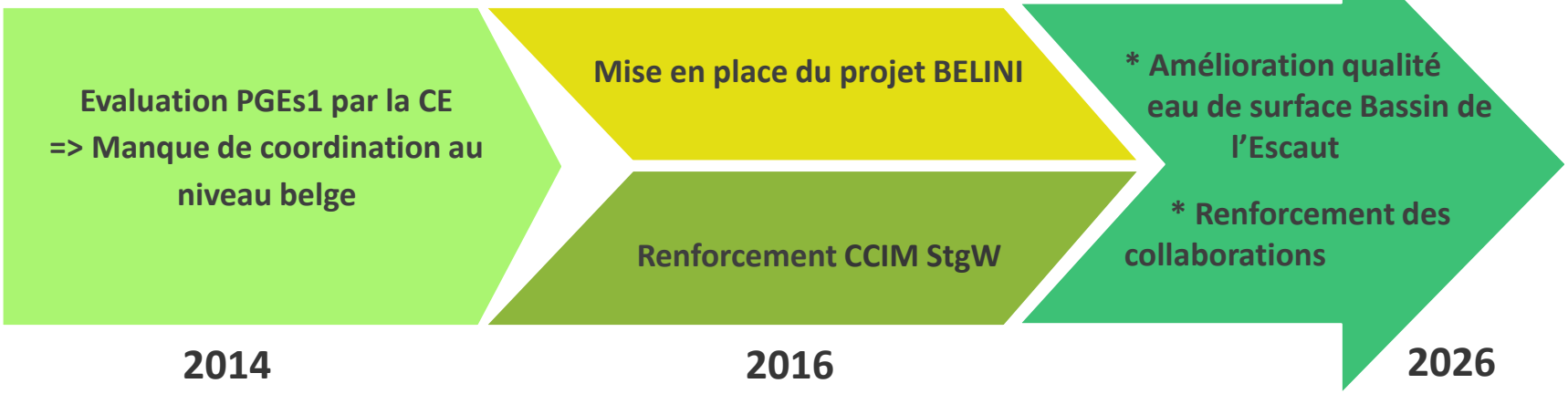
# LIFE Belini?

***Belgian initiative for making a leap forward towards good status in the river basin district of the Scheldt***



# Actions overview

**A** « PREPARATORY » ACTIONS

**C** CONCRETE IMPLEMENTATION ACTIONS

Ca. Actions to diminish pollution and improve quality of rivers
Cb. Actions to enhance hydro-morphological quality and continuity of rivers
Cc. Actions to restore natural water retention capacity of rivers to better manage flood risks and increase biodiversity

**D** MONITORING THE IMPACT OF THE PROJECT

**E** PUBLIC AWARENESS AND DISSEMINATION OF RESULTS

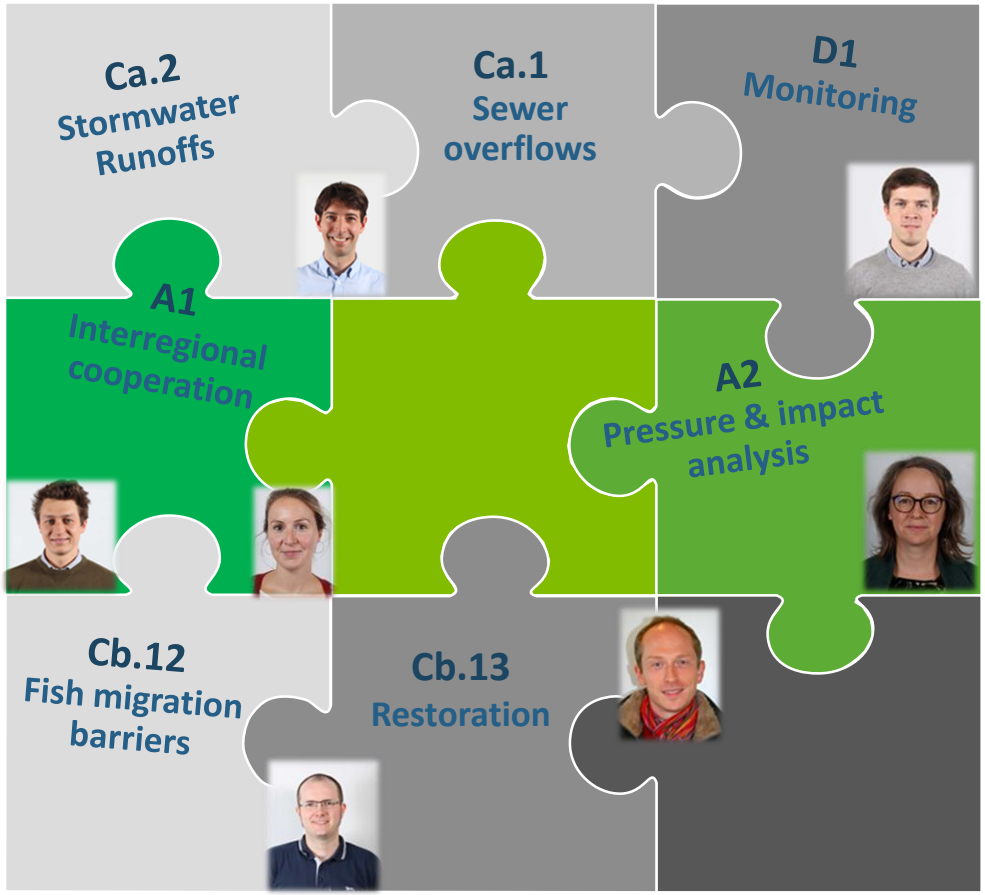
**F** PROJECT MANAGEMENT AND MONITORING OF PROJECT PROGRESS

**Q** COMPLEMENTARY ACTIONS

# Actions overview & Partners

| | | Partners | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **Action** | VMM | **BE-LB** | SPW | VLM | VBR | Vivaqua | WG | DVW |
| Policy | A1 Lifting the interregional cooperation to a higher level | x | | x | | | | | |
| | **A2 Working out a common pressure and impact analysis for the Scheldt RBD** | x | **x** | x | | | | | |
| Water quality | Ca.1 Mitigating the impact of 3 major combined sewer overflows of Brussels | | | | | | x | | |
| | **Ca.2 Treatment of polluted highway (road) stormwater runoff** | x | **x** | | | | | | |
| | Ca.3 Tackling pollution from nitrate originating from agriculture | | | | x | | | | |
| | Ca.4 Anti-erosion control measures at strategic points | | | | x | | | | |
| | Ca.5 Assessment of the origin and nitrate trends near the drinking water abstraction site of Leefdaal Puttebos | | | | | | | x | |
| | Ca.6 Integral analysis of the waterbodies with an aquatical ecological model | x | | | | | | | |
| Structural quality | Cb.7 Restoration of quality structure and improvement of sticking points fish migration in the city centers of Sint-Pieters-Leeuw (Zuunbeek) & Leuven (Dijle) | x | | | | | | | |
| | Cb.9 Land and water development project in the valley of the Maalbeek | | | | x | | | | |
| | Cb.10 Restoring Molenbeek (Hunderenveld) and cleaning tube verkeersplein | | | | | x | | | |
| | Cb.11 Land and water development project on the Woluwe river | x | | | | | | | |
| | **Cb.12 Suppression of fish migration barriers and creation of fish spawning areas on the Zenne/Senne** | | **x** | | | | | | |
| | **Cb.13 Restoration of the Zenne/senne river in the Brussels capital region** | | **x** | | | | | | |
| Water quantity | Cc.14 Land and water development projects in the valleys of the Molenbeek, Zevenborrebeek and Kwadebeek | | | | x | | | | |
| | Cc.15 Construction of flood area Grote weide - Groebengracht, Halle | | | | | x | | | |
| | Cc.16 Natural water retention area on the Hain river | | | x | | | | | |
| | Cc.17 Natural water retention area on the Senne river | | | x | | | | | |
| | Cc.18 Land and water development projects in the valley of the Ijse | | | | x | x | | | |
| | Cc.19 Natural water retention area on the Samme/Senette and Ancien canal | | | x | | | | | |
| | Cc.20 Project Demer valley: reinstitating river forelands and reconnecting meander | | | | | | | | x |
| | Cc.21 Renaturation of existing water retention area | | | x | | | | | |
| Monitoring | **D1 Monitoring of the impact of the project actions** | x | **x** | x | | | | | |
| | | 7 | **5** | 7 | 5 | 3 | 1 | 1 | 1 |

# BE People involved



# A1 – Lifting the interregional cooperation to a higher level

**What?**

- Development of **new collaborative ways of working**
- **Strengthen and deepen** the **interregional cooperation and coordination** for both the Water Framework and the Floods Directive
- Through **working** & **consultation groups** (CCIM, Exemptions, EQS-RBSPs,…)

# A1 – Lifting the interregional cooperation to a higher level

## *Sub-actions*

- Setting up a new consultation platform within the Steering group Water of the CCIM/CCPIE
- New governance agreements and schemes leading to better coordination of the WFD
- Two permanent representatives for every region (for WFD and FD)
- Inviting additional experts to the platform
- 3-4 times a year the consultation platform will meet
- Meetings can be supplemented by additional bi- or trilateral meetings
- Report to the Steering Group water
- Mainly high level implementation issues are considered
- Agreements on how to set up local consultation platforms (E3)

# A2 – Working out a common pressure and impact analysis for the Scheldt RBD

**What?**

- **Inventory of emissions** coming from all kinds of water use sectors including a **quantification of transboundary loads** (in- and out-coming loads) **at regional borders**
- Development of a common impact & pressure analysis for all the 3 Belgian regions

**Why?**

- Achieve a **better coherence between transboundary loads**, calculated by the regions by exchanging data and expertise on methods for calculating
- Perform a **basin-wide pressure and impact analysis** for a selection of parameters for the transboundary Senne river basin
- **Formulate recommendations** based on those pilot experiences for the entire Scheldt RBD and disseminate those towards others RBDs

# A2: Sub-actions

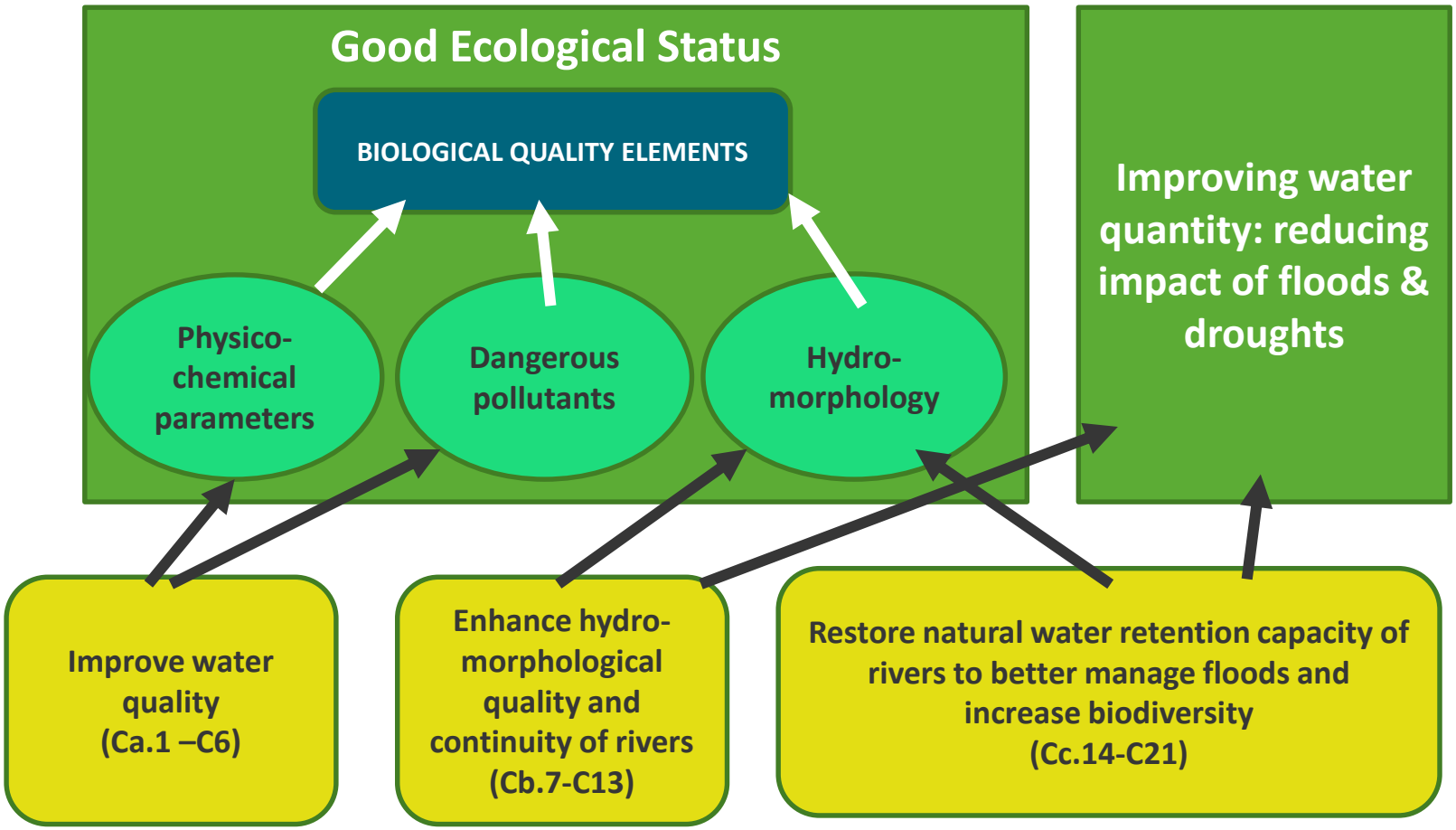
- Calculation of transboundary loads for the three Belgian regions for a selection of parameters **(A2.1)**
- Pressure and impact analysis for the transboundary Senne basin **(A2.2)**

# A2 – Working out a common pressure and impact analysis for the Scheldt RBD

## *Sub-actions*

- Transboundary loads (TL) in the main rivers: selection of parameters
- TL in the main rivers: agree on a work method
- TL in the main rivers: comparison on transboundary loads calculated exchanging concentration and flow data of the pollutants
- TL in the main rivers: examine and explain differences (and if possible eliminated)
- TL : lessons learnt/recommendations are compiled in a brief report
- Pressure and Impact Analysis (P&I A) Senne: selection of parameters
- P&I A Senne: agree on work method for this selection
- P&I A Senne: examine and explain differences (and if possible eliminated)
- P&I A Senne: common impact and pressure analysis will agreed upon
- P&I A Senne: will be carried out on a subset of parameters for the transboundary Senne river basin
- P&I A Senne: lessons learnt/recommendations are compiled in a brief report

# Actions ‘in the field’



# Ca.1 – Mitigating the impact of 3 major combined sewer overflows of Brussels

**What?**

- **Equip** 3 major (CSO's) - « Nouveau Maelbeek », « Paruck », « Molenbeek » - with devices that remove floatable materials and suspended sediments
- **Optimize the properties of the CSO weirs** so that they activate only if really needed

⇒ **Different strategies still under discussion**

**Why?**

- **Improve overflowing water quality** and hence **mitigate** their **impact** on the receiving river
- **Reduce the source of pollution** for the river by removing sediments

# Ca.2 – Treatment of polluted highway (road) stormwater runoff

**What?**

- Polluted runoff water poses an ecological threat to a number of watercourses within the catchment area of the Senne and Dyle. **4 case-studies** have been selected to study and develop road runoff treatment:
- **2 cases** are located **in the Brussels Region** along the Senne:
  - **E411 viaduct (Auderghem)** which releases its runoff water towards the Roodklooster ponds into the Woluwe river;
  - **“Small ring" of the city** which releases its run-off water directly towards the Senne river through almost 100 diffuse connections.

**Why?**

- **Monitor the impact** of highway runoff on water resources
- **Implement of infrastructures** and thus **improving the quality of the receiving rivers**
- **Exchange of expertise**

# Cb.12 – Suppression of fish migration barriers and creation of fish spawning areas

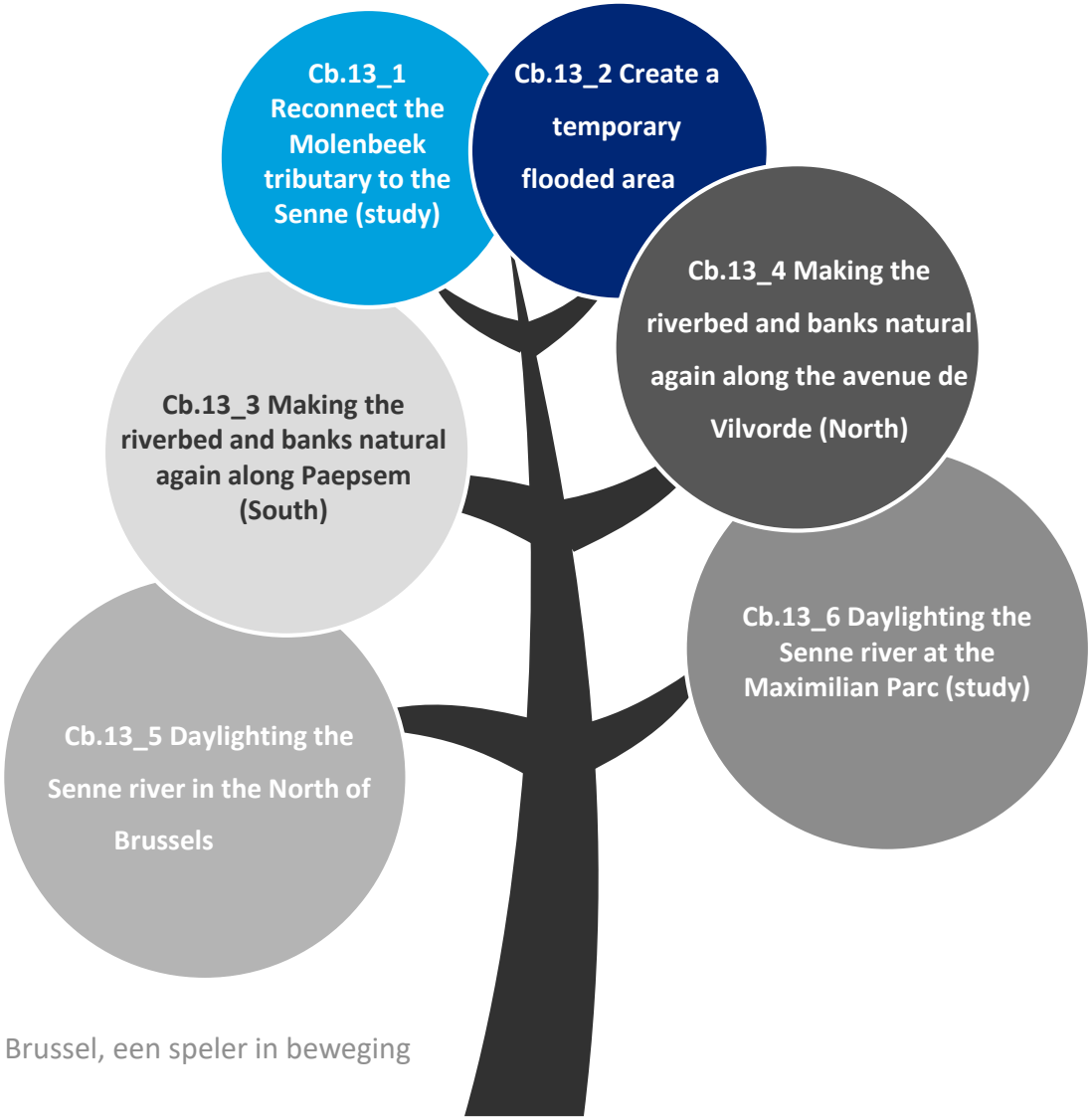
**Cb.12_1 –** Suppression of a fish migration barrier at the beginning of the vaulting

**Cb.12_2** – Creating a fish spawning area nearby the Brussels North WWTP

**Cb.12_3** – Creating light and aeration point in the Senne vaulting at Sainclette square (study)

**Cb.12_4 –** Creating light and aeration point in the Senne vaulting at boulevard Point Carré nearby the Sewer museum (study)

# Cb.13 Restoration of the Zenne/senne river in the Brussels capital region



# D1 – Monitoring

**What?**

- **Monitoring of all actions** and on **the way they participate to reaching the objectives of WFD** (and FD) → **Technical & environmental impact**

- The **impact of the projects on socio-economic aspects** and **on the ecosystem functions restoration** will also be assessed.

- *In order to act as a leverage to maximize synchronized planning, implementation and reporting between the 3 Belgian regions, the progress made will be monitored periodically and discussed during project meetings and in the CCIM.*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