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URBAN GREENUP PUBLIC-PRIVATE PARTNERSHIPS IN IMPLEMENTING NBS

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applied to water
technologies

LEiTAT
managing technologies

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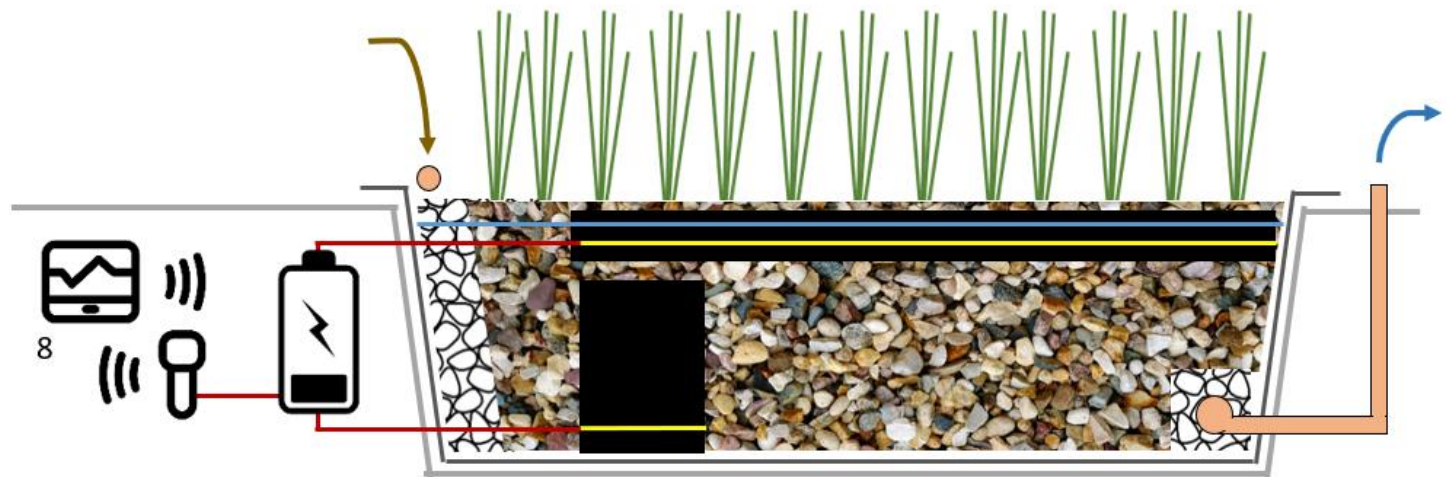




Table of Contents

1. The process from conceiving the NBS to materializing NBS at the site.
2. Planning implementation and maintenance activities – role and responsibility
3. Lessons learned: advice and experience and Good practices establishing the public-private partnership in NBS implementation

0. ELECTROWETLAND=BIOELECTROGENIC WETLANDS



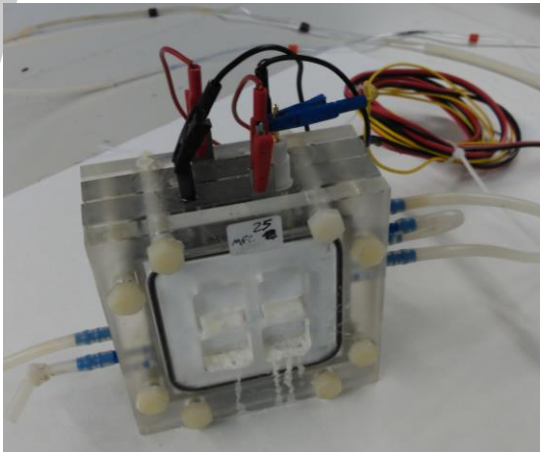
- 1 – Parterre municipal
- 2 – Grava gruesa
- 3 – Lecho filtrante granular
- 4,5 – Electrodo (ánodo y cátodo)
- 6 – Colector de corriente
- 7 – Circuito externo
- 8 – Plantas fitodepuradoras
- 9 – Colector de salida
- 10 – Nivel de agua dentro del humedal





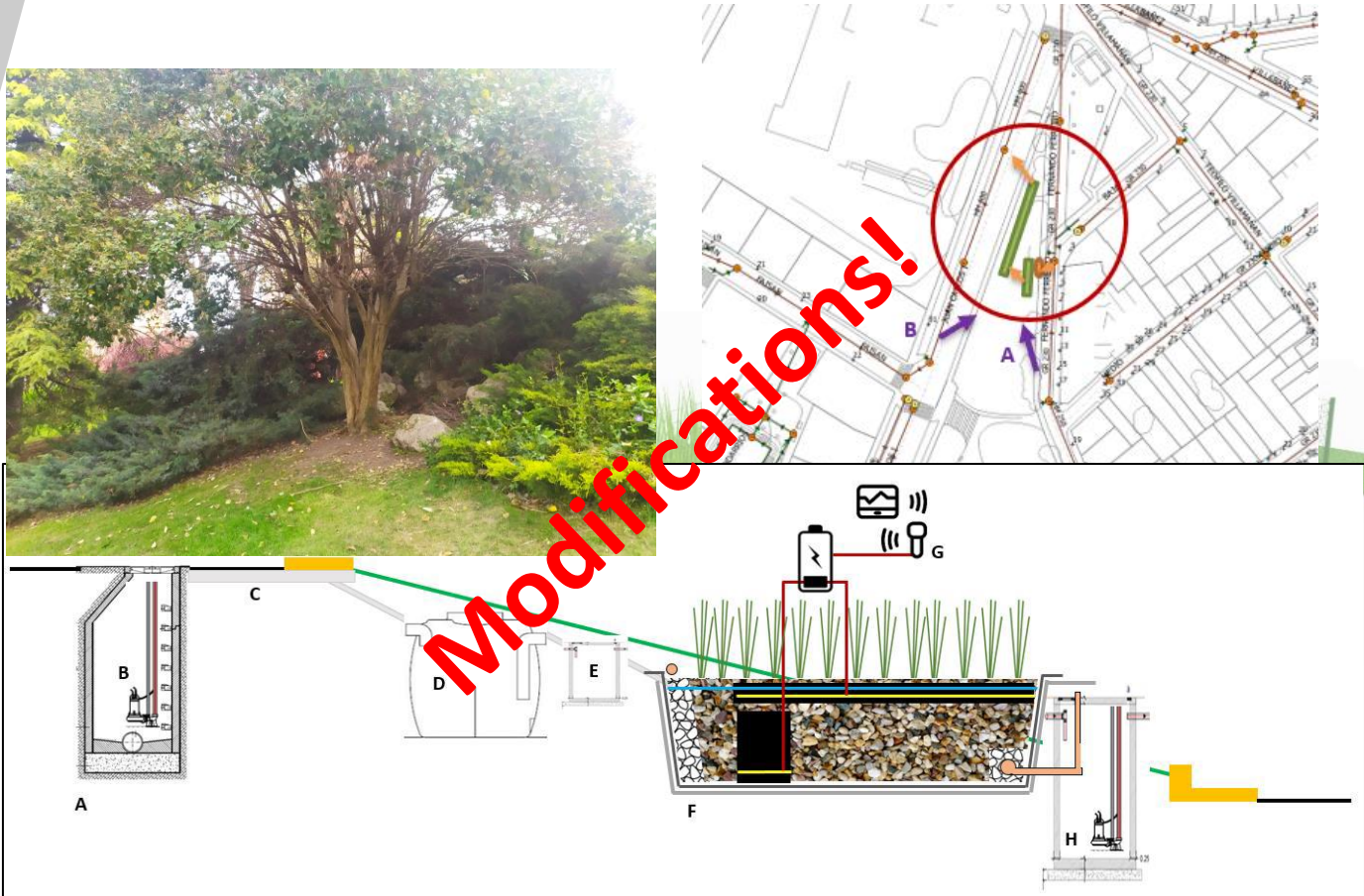
1. FROM CONCEIVING THE NBS TO MATERIALIZING NBS AT THE SITE

Experimental @ Leitat



Selecting the implementation site: The public administration should provide a suitable site according to the ELECTROWETLAND requirements:

- a. Carrying capacity of site $>2200 \text{ kg/m}^2$.
- b. Access to wastewater to feed the EW: $0.5 \text{ y } 5 \text{ m}^3 \text{ ww /day}$.
- c. Access to the sewerage system through a manhole .
- d. Solar irradiation zone: enough to optimize plant development.
- e. Urban zone.
- f. Access to the electrical network : pumping elements.
- g. Access to the water supply system (as a contingency measure







2. PLANNING IMPLEMENTATION AND MAINTENANCE ACTIVITIES – ROLE AND RESPONSIBILITY.

Definition of tasks and duties for each partner!

- ✓ Control of infrastructure (cleaning and maintenance)
- ✓ Control of performance (water quality, electric signal)
- ✓ Periodic control visits
- ✓ Promotion of the infrastructure
- ...
- ✓ Fate of infrastructure after the project ends



3. LESSONS LEARNED FROM THE PPP IMPLEMENTING NBS IN UGUP



Good opportunity to achieve more visibility (demonstrator), ambitious projects, foster new applications, markets....



Slow and sometimes though administrative procedures

- ✓ Good planificación → wide execution timings
- ✓ Good communication → find a Good interlocutor
- ✓ Define all tasks and duties



Thank you!!!

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