# Assessing Nature-based Solutions for their environmental and social impact

BARCELONA METROPOLITAN AREA (AMB)



The example of the Llobregat Riverside in Barcelona Metropolitan Area

## CHALLENGES TACKLED



Citizens and

Biodiversity Enhancement Citizens and Business Involvement

### SUMMARY

Assessing Nature-Based Solutions (NBS) for different environmental and social aspects is useful to identify the successful NBS that could be replicated somewhere else. Thus, 16 NBS from the Llobregat Riverside - a very complex periurban territory located in Barcelona Metropolitan Area - were analysed with the final goal of transforming the riverside into a socio-ecological blue connector that will offer a safe and healthy greenspace for people and biodiversity.

All assessed NBS provided **multiple ecosystem services and environmental and social benefits**. The evolution of the NBS was generally good and invites further development.

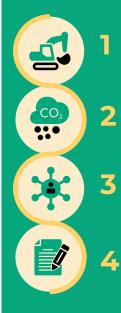
## **RESOURCES NEEDED**



#### TEAM:

Specialised Multi-Disciplinary Team - e.g. urban planner, landscape architect, environmentalist, biologist, agricultural engineer.

#### STEPS



Field work to inspect in situ the different NBS

Definition and implementation of methodology to calculate the **environmental impact of NBS** in terms of habitats, carbon capture, biodiversity, other environmental benefits

Definition and implementation of methodology to calculate the **social impact of NBS** in terms of sustainability education, wellness & health, perception of identity, diversity & quality of experience, social cohesion, activities, and accessibility and social connectivity

Writing of conclusions in terms of NBS typologies, variety, evolution, achievement of objectives, methodology applied and considering different project phases planning, design, execution, management

#### MAIN LESSONS LEARNED ALONG THE WAY

- It is key to identify and prioritize those ecosystem services to be enhanced to outline the most suitable NBS.
- It is important to have a **deep knowledge of the territory**.
- **Monitoring** NBS from the onset is key.
- NBS have a certain experimental character a trial and error exercise allows one to find the best solution.
- **Maintenance** is the no. 1 success factor for the vast majority of NBS.

The full report of this action can be found at URL **www.europarc.org/greening-plans** 

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