



# BARCELONA

## PILOT 1. Monitoring naturalisation



**CONEXUS**

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## PILOT 1. Monitoring naturalisation

**Start date:** April 2020

**End date:** August 2024

### What and Where?

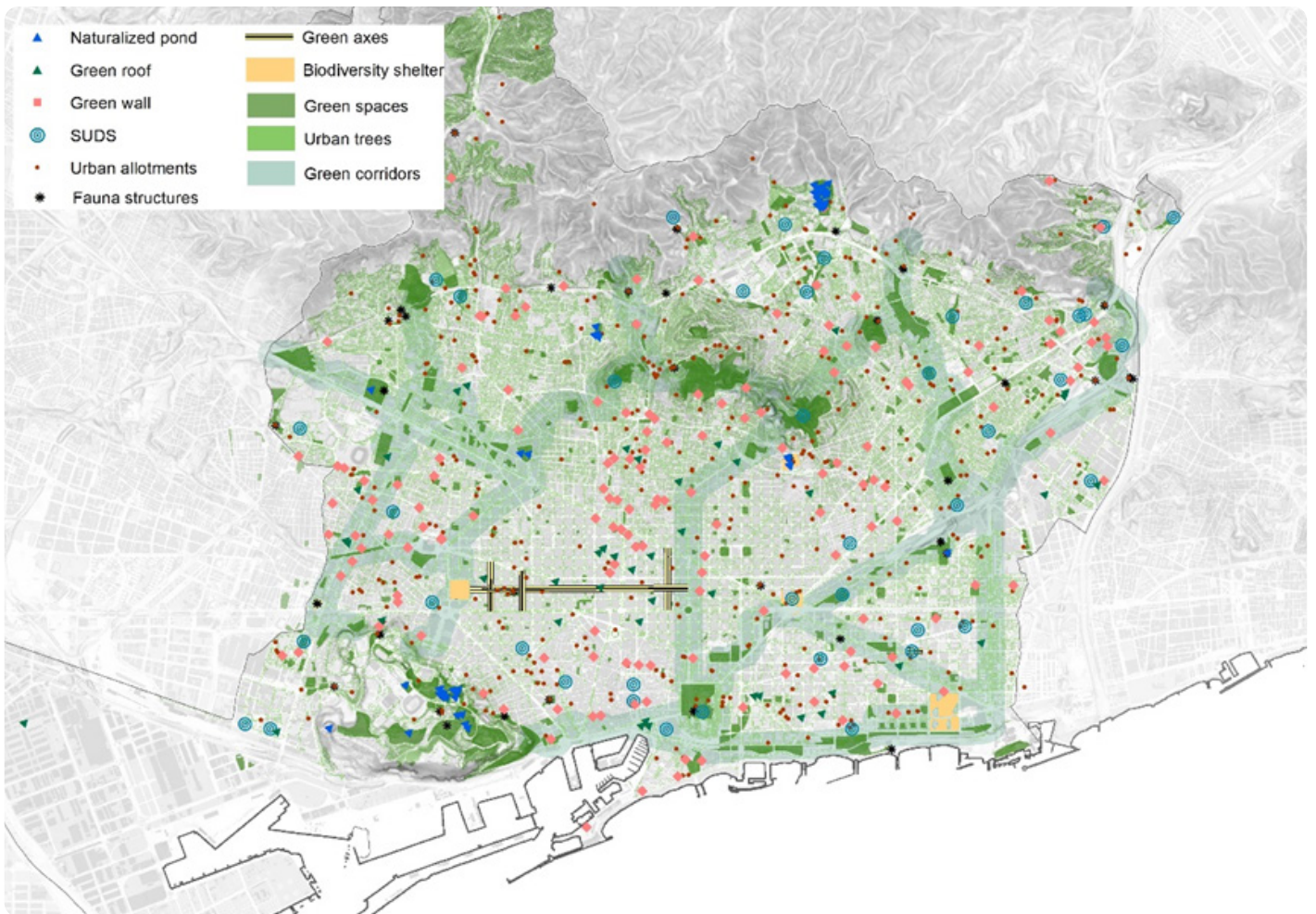
Barcelona committed itself, through the Green Horizon 2030 objectives, to increasing greenery by 1m<sup>2</sup> per resident by 2030, at the Paris Climate Change Conference (COP21) in December 2015. This climate change adaptation measure was equivalent to 160 new hectares of greenery at that time.

The aim of Pilot 1 has been to analyse the evolution of green infrastructure in Barcelona from 2019 to 2023. Pilot 1 has also shared with other cities the methodology carried out for the estimation of socio-environmental services and the calculation of accessibility to urban green infrastructure.

<b>Location:</b>	City scale (Barcelona).
<b>NBS type, and habitat/s:</b>	All kind of NBS, Mediterranean habitat.
<b>Ecosystem services:</b>	Physical and mental health, Well-being, regulating the quality of air, climate regulation, water regulation, recreation, social cohesion.
<b>Management &amp; maintenance:</b>	The management and maintenance of these spaces is carried out by Barcelona City Council.



## Map



## Why?

Such assessments make it possible to identify which socio-environmental services need to be enhanced and which areas of the city need urban green spaces. In this way, it provides the city government with a useful tool for precise action in the planning and management of urban green infrastructure.

When?	Who	2021	2022	2023	2024
Previous work GIS and cabinet	BR				
<b>Monitoring and evaluation of green infrastructure:</b>					
<ul style="list-style-type: none"> <li>Monitoring of the actions and measures proposed and carried out by the government measure</li> </ul>	BR				
<ul style="list-style-type: none"> <li>NDVI analysis</li> </ul>	BR				
<ul style="list-style-type: none"> <li>Monitoring of the involvement of citizens</li> </ul>	BR				
Processing data	BR				
Results	BR				
Creation of an observatory (Dissemination of information and communications)	BR				

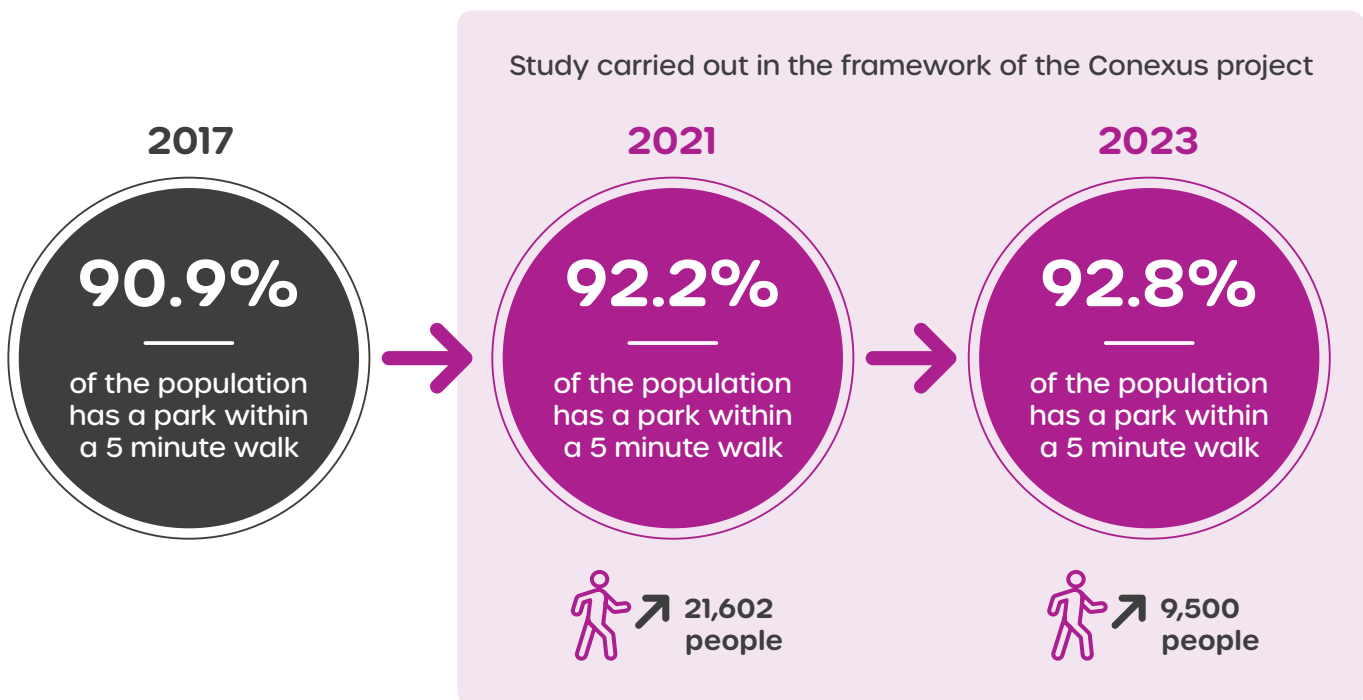


## How?

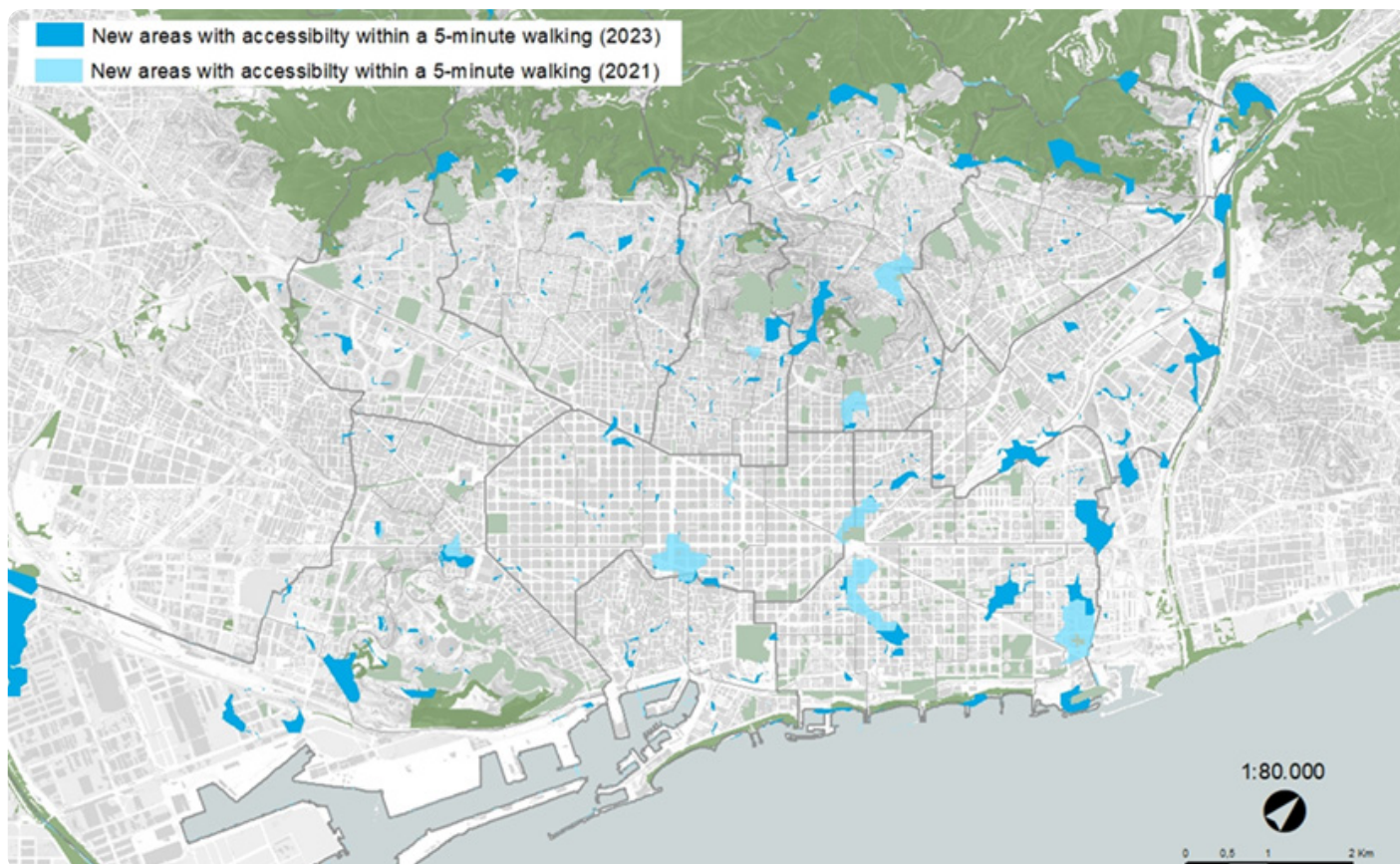
In 2017, Barcelona Regional developed a methodology to analyse socio-environmental services, which has helped Barcelona to significantly increase socio environmental services in urban green infrastructure since then. Using the same methodology and as part of the CONEXUS project, two updates were carried out to analyse socio-environmental services in 2021 and 2023. The methodology includes 52 representative indicators, which combined in the matrix, allows calculating a total of 29 socio-environmental services. In addition, Pilot 1 has analysed the accessibility to urban parks and the total urban parks surface in 2021 and 2023. The green spaces are classified into four categories: historic parks; parks and gardens; interior courtyards of blocks; and green squares.

## So what?

Pilot 1 has monitored the evolution of accessibility to urban parks through the indicator "Accessibility to urban green infrastructure" showing an increase from 90.9% of the population with a park within 5 minutes walking in 2017 to 92.8% of the population in 2023.



As a result, Pilot 1 has mapped the increase in new areas with accessibility to green spaces in 2021 and in 2023 compared to 2017.



Pilot 1 has also monitored the indicator **“Urban parks surface”** showing an increase of 35 hectares from 2017 to 2023.

Finally, in collaboration with CONEXUS LifeLab Exchanges, Barcelona life lab has organised a training session to show how to calculate green accessibility to other Lifelabs.





# Project Partners



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