



SÃO PAULO

PILOT 1. Functional forests



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Start date: April 2020

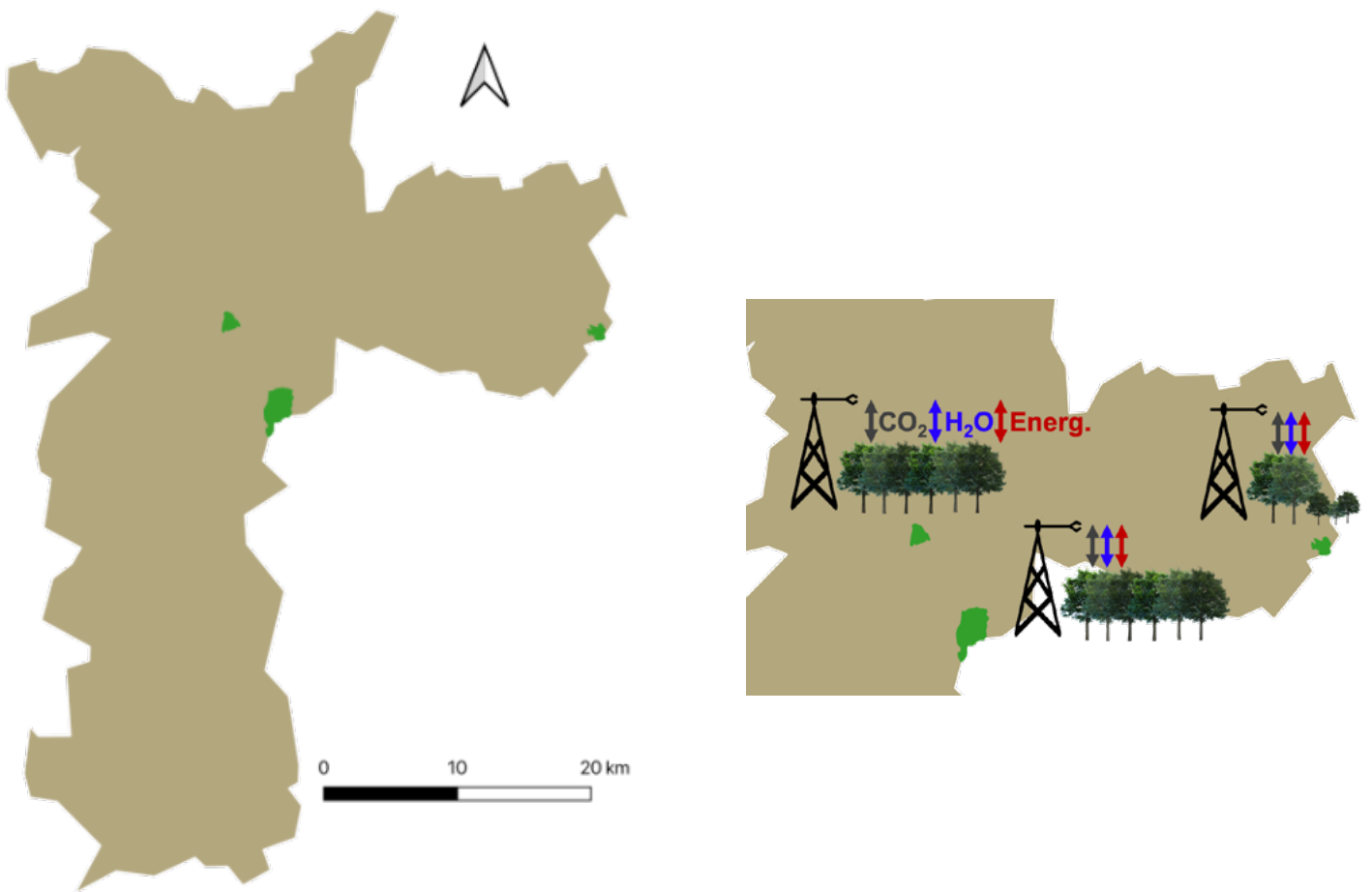
End date: August 2024

What and Where?

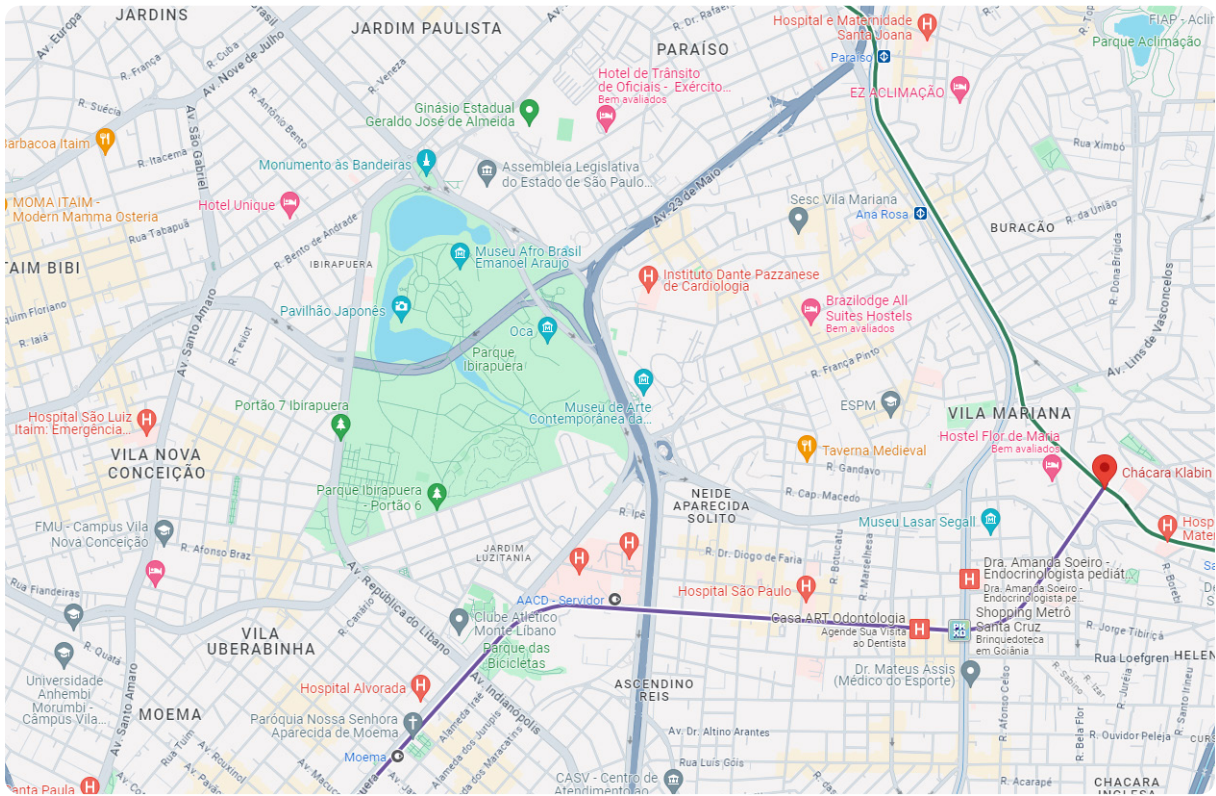
Location:	Ibirapuera and Fontes do Ipiranga Parks in the city of São Paulo.
NBS type, and habitat/s:	
Ecosystem services:	Carbon sequestration, thermal comfort, mitigation of air pollution.
Management & maintenance:	Carried out by the State of São Paulo, the city council and the concessionaire URBIA.



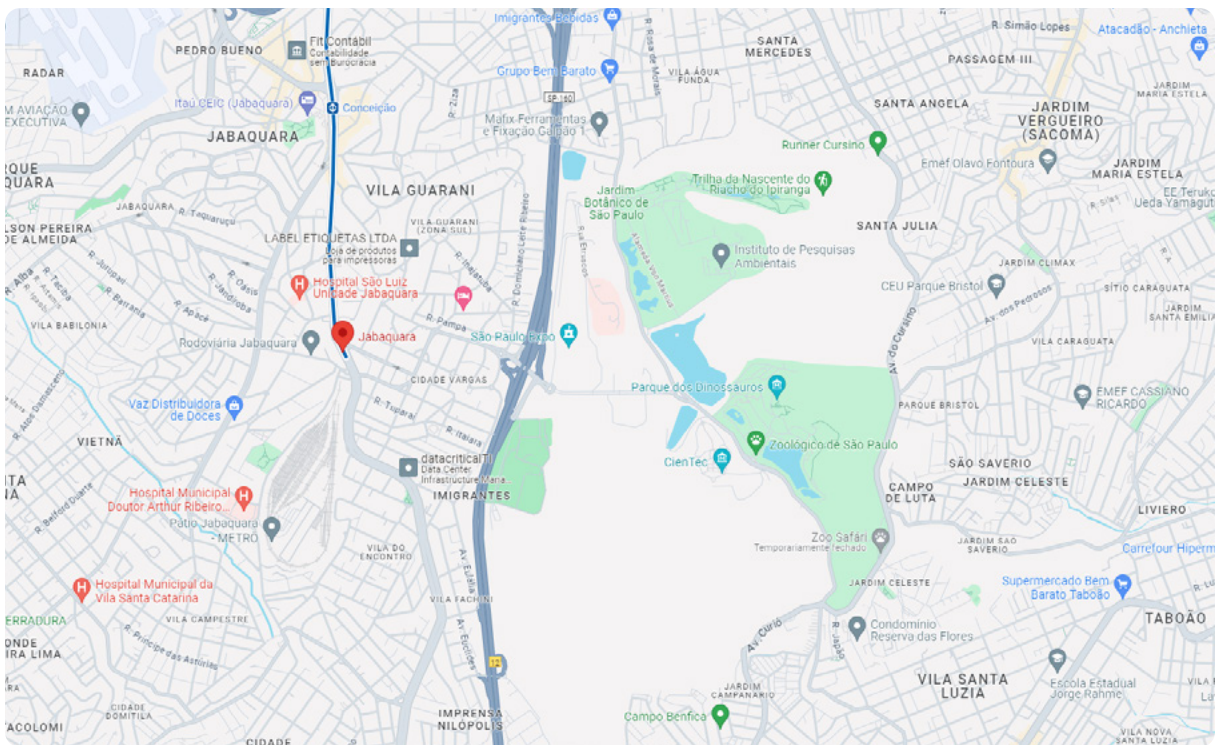
Map



The city of São Paulo and the parks locations



Ibirapuera Park, with two subway lines (2 and 5) in surrounding area, and the 23 de Maio Expressway (North-South Corridor) along the park.



Fontes do Ipiranga Park, with subway Line 1 near the park, as well as Imigrantes Highway.



Why?

São Paulo is one of the largest cities in the world, where the population already faces the exacerbated impacts of climate change. Heatwaves, droughts, and floods are becoming more frequent and intense with great impact especially in the most vulnerable sectors of the city. Aiming at promoting a resilient city, this pilot builds on the need to optimise the ecosystem services of urban forests through the choice of species and vegetation structure.

When?

The pilot is based on a long-term monitoring experiment that started in April 2020, and is still running. We expect it to keep running for years to come, and we have a new grant funded by the São Paulo Research Foundation that will expand the pilot in the Ibirapuera Park.

How?

This pilot builds on a sophisticated monitoring network of ecosystem services at the urban forest level using eddy covariance towers and on the individual tree species using sapflow sensors, digital dendrometers and other ecophysiological analyses. The longer the dataset the better for increasing our knowledge on urban forests benefits and functioning. From this knowledge we will support mechanisms like the Plan for Urban Trees, and Plan for Open Areas and Green Spaces from the city of São Paulo, directly influencing evidence-based decision making in the city.







So what?

The Functional Forests pilot in the city of São Paulo has already three years of monitoring data, a wealth of information available to support decision-making in the city. It is already supporting the municipality to build guidelines for planning and managing the urban green-infrastructure. As next steps, the pilot is planning a platform to use the live data on ecosystem services in the parks to inform the users about the importance of these green areas to the city.



Project Partners



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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 867564