

Sustainable Development of Sussuapara Conecta Linear Park in Palmas, Brazil

Country

Brazil

City

Palmas

Sector

Green Spaces and Urban Infrastructure

Project Stage



Idea

Implementation



32,611

Direct beneficiaries living in the catchment area



4.02 m €

Investment value



328,500

Indirect beneficiaries living in the city

The Gap Fund's Support

The Gap Fund's intervention included:

- 1** Development of an environmental diagnosis of the park area
- 2** Hydrological simulation and flood modeling, identifying flood-prone areas and associated risks
- 3** Proposal of guidelines for the implementation of sustainable drainage infrastructure in the watershed
- 4** Preparation of a conceptual design for sustainable drainage infrastructure
- 5** Design of environmental programs including the development of a wildlife protection and environmental education program

Current Challenges and Solutions

Palmas, the capital of Tocantins, is experiencing rapid urban expansion, which requires significant adjustments to its infrastructure in order to sustainably support this growth. The natural watercourse system is increasingly pressured by rising population density and increased sealed soil surfaces. As a result, stormwater runoff from urbanized areas contributes to the sedimentation and silting of the river.

To address these issues, the city seeks to implement the Urban Linear Park of Indigenous Peoples under the Sussuapara Conecta Project. Providing a green mobility link between the central and northern areas of the city, the park aims to improve biodiversity while enhancing the population's well-being through the improvement of water quality, increased permeability and availability of green spaces.

Objective of the intervention

The purpose of the Gap Fund support was to facilitate environmental studies, data analysis and the preparation of preliminary projects for the Indigenous Peoples Linear Park, as well as to identify sustainable drainage solutions for the Sussuapara Stream Basin. The initiative seeks to tackle the recurring impacts of flooding, erosion of natural channels, silting up, irregular waste disposal and enhance people access to the park area. The intervention proposed a sustainable drainage system capable of reducing surface run-off and increasing infiltration into the soil. In addition, the Gap Fund supported the development of measures aimed at integrating communities and enhancing biodiversity, with a focus on protecting fauna and promoting qualified use of the park by the residents.



Sussuapara Stream, Palmas, Brazil. Credits: Ecobiose, Serviços Ambientais

The Intervention at a Glance

The results serve as the basis for the implementation and management of the park, expected to improve the microclimate in surrounding areas by up to 2 degrees and avoid up to 1.500tons of CO₂ annually.

The proposed model for the park integrates ecological conservation, green infrastructure and leisure spaces. In addition, maintenance criteria have been defined, promoting a participatory and sustainable management model. Finally, an action plan serves to guide the implementation of the environmental recommendations.



Lessons Learned and Challenges

- The project benefitted from the interdisciplinary set up of the project team, integrating different technical disciplines.
- To ensure community engagement, a continuous process is required including strategies that ensure transparency, dialogue and effective involvement of the population in the management of public spaces.
- Implementing green infrastructure requires institutional coordination, technical capacity and a flexible approach allowing for adjustments over time.

Financial Pathways

The project is part of the City's Environmental Transformation Program, which has received federal approval through Brazil's COFLEX process for international financing from the Latin-American Development Bank (CAF).

Co-Benefits of the Intervention

- Environmental conservation and restoration
- Social and recreational uses of the park
- Better integration of different divisions in the City Hall working on similar objectives

Scale-Up Potential

The Sussuapara Conecta assignment serves as a reference for other green areas: The project has not only established itself as an essential instrument for supporting municipal public management; it has also provided technical and methodological information that can inform future interventions on sustainable drainage, green spaces and environmental preservation - in the city of Palmas and beyond.

Next Steps:

The following recommendations seek to ensure the continuity of the proposed actions, optimize processes and increase the positive impacts expected from the implementation of the Urban Linear Park:

- Strengthening environmental monitoring and management
- Creation of strategies for ongoing community engagement
- Expansion of green infrastructure and ecological connectivity
- Research into financial and operational sustainability of the park

The city has the technical capacity to continue developing the Sussuapara Conecta project due to its trained staff and municipal support.

The Gap Fund in a Nutshell

Since its launch in 2020, the City Climate Finance Gap Fund provides technical assistance to cities in low- and middle-income countries to support the early preparation of climate-smart infrastructure projects, including energy, transport, waste, water, wastewater and nature-based solutions (Nbs).

More information: [City Climate Finance Gap Fund](#)
For additional information, please contact:
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Summary of the Sussuapara Conecta project in Palmas, Brazil

TA Partner and Beneficiaries



TA implemented by



On behalf of:



of the Federal Republic of Germany



Federal Ministry for Economic Cooperation and Development



THE GOVERNMENT OF THE GRAND DUCHY OF LUXEMBOURG
Ministry of the Environment, Climate and Biodiversity

