## LEARNING ENVIRONMENT

A school as an exponent of biodiversity conservation in Bogotá

COMMITMENTS

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Through participatory processes of restoration and conservation of urban ecosystems, the community of the Gimnasio Femenino school in Bogotá has found new ways to perceive and connect with the natural reserve adjacent to its facilities and build a pedagogical project to achieve sustainable communities.

Since 1967, the Gimnasio Femenino school has been located on a 74-hectare lot (a little more than one-fifth of New York's Central Park), currently called Mano de Oso (Bear Hand) Nature Reserve. Now, the school communi-

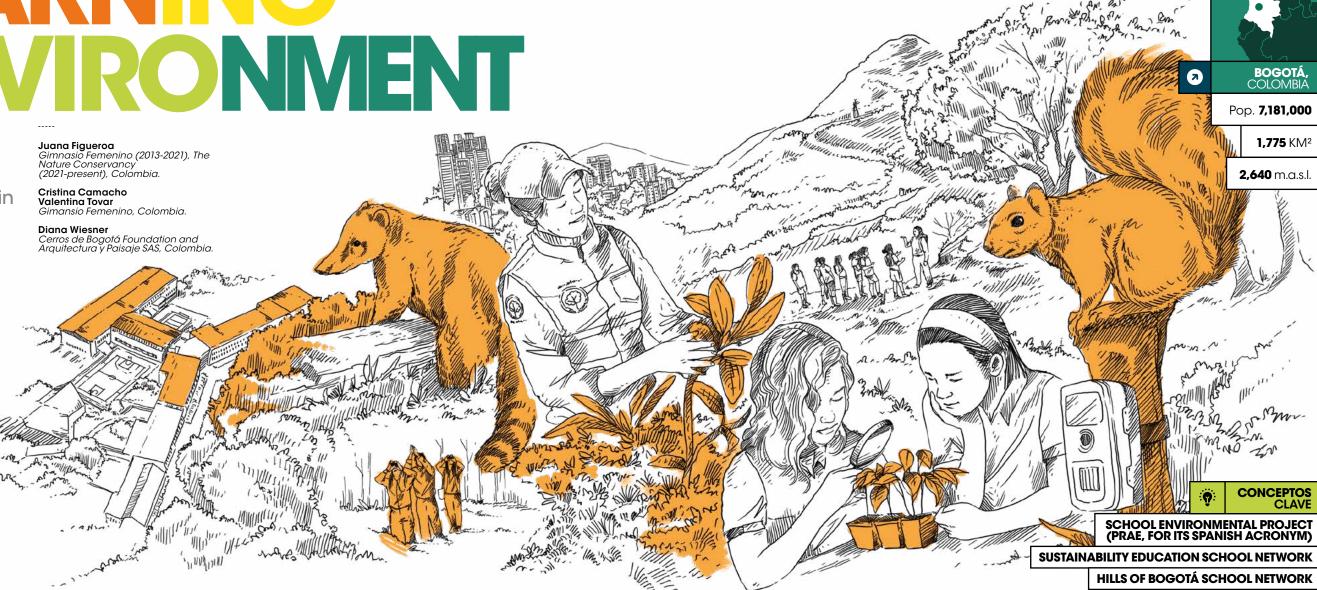
ty and its network of allies have participated in restoring the reserve with native species, which has turned this natural space into an educational, research, cultural, sports, and recreational scenario.

The ecological restoration of the forest and learning about the native biodiversity of the eastern hills (plants, birds, mammals, and insects) was the starting point for a cultural transformation of the educational community (students, parents, administrative staff) that was manifested on two levels. First, the planting of trees as a tangible experience of positive transformation of the environment contributed to the empowerment of

students as leaders of sustainability in their immediate environment (family, classmates, teachers), the development of competencies for sustainable development (e.g., systemic, critical, interpersonal thinking) and the adoption of sustainable living habits in their homes (Figueroa et al., 2017).

Secondly, the interaction with the forest contributed to the school's leadership at the management and administrative level to strengthen the transversality of sustainability in the curriculum and the in their school life.

campus operation processes (e.g., procedures for sustainable events and purchases, carbon footprint). The latter was also reflected in the Landscape Master Plan proposal, part of the school's infrastructure master plan (2016). The physical barriers (walls) that separate the classrooms from the forest were blurred thanks to the design of native plant corridors that prevail in the school's halls and promote the permanent interaction of students with butterflies, birds foxes and squirrels





leadership program illustrates how symbolic links are Symbolizing the growth of an oak tree from the seed to a mature tree, the school proposes a preschool to eleventh-grade curriculum focused on developing self-leadership and co-leadership skills.

## URBAN NATURE FOR THE FORMATION OF GLOBAL CITIZENS

The cultural transformation of the educational community took place through ecological walks and planting, campaigns to learn about the species of the ecosystem, and several different projects. The latter included the bird or plant of the month and the installation of camera traps to record animals within the reserve. These activities, along with the subsequent research on their educational impact, contributed to the School Environmental Project (PRAE)

established between the forest and the curriculum. For the spontaneous development of an environmental ethic that transcends the school environment in the lives of the students, impacting their relational environments, Gimnasio Femenino has fostered synergy between different components:

- 1) The development of critical competencies for sustainable development.
- 2 The thematic relationship of the classes to the global issues addressed by the Sustainable Development Goals (SDGs).
- 3 The creation of learning environments that involve experiences of direct contact with nature and the environment (forest, nursery, vegetable garden, vermicomposting, composting, and local territory).
- 4 Sustainability of campus operations as a process to which students are linked from classes and individ-

ual research projects (e.g., carbon footprint, water footprint, solid waste management).

## **KEY LESSONS**

Giving students a leadership role in the design of pedagogical practices is crucial for their ownership of the process and its impact on other educational com- different areas of the city were able to approach the *Mano* munity members.

Cooperation with other institutions can broaden the Cooperation with other institutions. For example, a scope of these educational initiatives. For example, a

## **TOTAL: APPROX. 3800 PLANTS**

Squamulose Maya (Miconia squamulosa)

Ruache, uche (Prunus buxifolia)

Cordoncillo (Piper bogotense)

great ally in several of the school's projects is the Hills of Bogotá School Network, thanks to which other schools in de Oso Nature Reserve, along with several others in the hills of Bogotá (Andreoni and Vargas, 2020; Figueroa and Camargo, 2022).