

Home Center Lusaka, Zambia

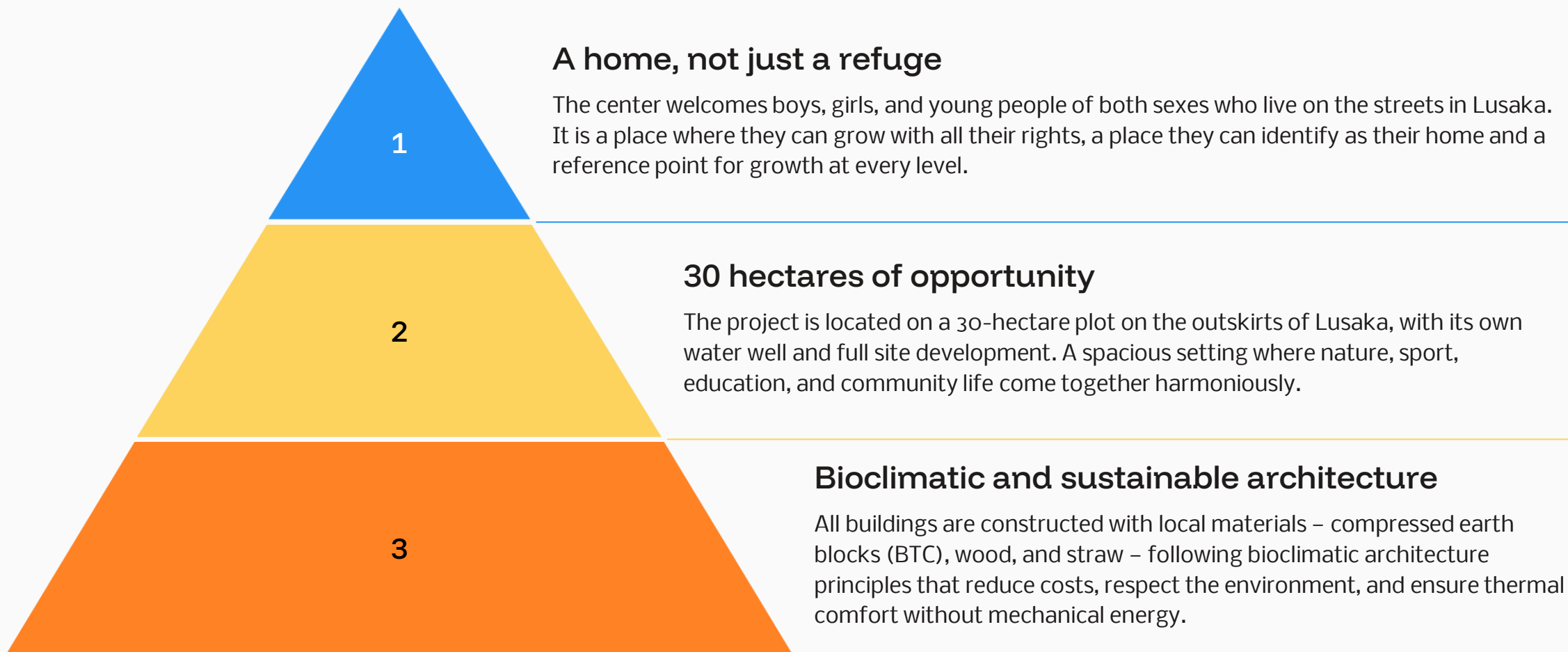
A place to grow with rights, dignity, and a future

Opening a center on the outskirts of Lusaka to welcome children and young people who live and sleep on the street – a reference home for their holistic development.

LUSAKA, ZAMBIA

TOTAL BUDGET: €175,000

Mission and Scope of the Center



5 Priority Elements of the Center

The center's architectural program is organized into five major functional areas, each with its own budget and specific construction criteria.



Home for 24 Minors

4 identical "U"-shaped modules with bunk-bed dormitories, bathrooms, and caregiver room. **€45,000**



Kitchen, Dining Room, and Storage

Traditional outdoor kitchen + building with indoor kitchen, dining room, and pantry. **€35,000**



Volunteer and Director House

Housing for 1 director and up to 8 volunteers, with a central garden and shared areas. **€35,000**



Sports Fields

11/7 soccer, 5-a-side soccer, volleyball, and outdoor gym with recycled materials. **€8,000**



Outdoor Bathrooms and Showers

"U"-shaped block with 8 sinks, 6 showers, and 6 toilets, straw and BTC roof. **€12,000**

ELEMENT 1

Home for 24 Minors — €45,000

Four identical modular blocks arranged around an open central courtyard in a **"U"** shape. The proposal combines functionality, natural ventilation, and a domestic scale designed for the daily well-being of the minors.

Each module contains a collective bedroom with **3 bunk beds** (6 places), a recreational or study area, shared bathrooms, and the caregiver's room with private services. The layout promotes supervision, convivencia, and flexible use of shared spaces.

Bedrooms

4 modules × 6 places = 24 minors. Local wood bunk beds, integrated wardrobes, and natural overhead light.

Central Courtyard

Wood and thatch pergola as an open-air extension, with tables and benches for workshops, study, and outdoor meals.



ELEMENT 3

Home for Volunteers and Director — €35,000



Single-storey "L"-shaped home that separates collective and private functions. It accommodates 1 director-coordinator and up to 8 volunteers, with an interior garden sheltered by the thatched porch.



Day Zone (Open Space)

Living room/lounge, meeting area or office, and communal kitchen with a central island. The pantry has an emergency exit to the outside.



4 Double Bedrooms (8 Volunteers)

Distributed along the long wing, with integrated furniture. Shared sanitary block with 3 sinks, 3 toilets, and 3 separate showers.



Director's Room

At the back of the residential wing, with a desk area and private en-suite bathroom (sink, toilet, and shower).



Shared Garden

Interior courtyard enclosed by the "L" with native vegetation, wooden tables, handcrafted benches, and hammocks under the thatched porch.



Kitchen, Dining Room and Storage — 35,000 €

Nutrition and community space: traditional outdoor kitchen for daily use, plus an interior building with kitchen, dining room, pantry, and storage. Built entirely with local materials and bioclimatic principles.



Foundations and Base Platform — 5,250 €

Local stone, drainage gravel, and polished concrete slab in the kitchen, pantry, and dining areas to meet hygiene regulations.



BTC Walls and Thatch Roof — 12,250 €

Compressed earth blocks manufactured on site. A steep thatched roof with generous overhangs protects the walls from rain and provides shade to the outdoor dining area.



Finishes, Installations and Equipment — 8,750 €

Sink, piping, hand water pump, connection to cisterns; kitchen surfaces; local wood for tables and built-in benches in the dining area; lime and clay plaster.



ELEMENT 4

Sports Fields and Outdoor Gym — €8,000



The sports area occupies the upper half of the complex and is designed for **inclusion, health, and teamwork**. Rammed earth, preserved acacia trees for shade, and low-cost lightweight fencing.

11-a-side / 7-a-side Soccer

Main field convertible lengthwise into two 7-a-side soccer fields for training sessions and youth tournaments held simultaneously.

5-a-side Soccer

Independent fenced field in the lower-right corner, with its own goals and full marking.

Volleyball

Field set apart strategically from the soccer fields, with a regulation net on metal posts.

Recycled Gym

Tires, logs, and recovered concrete blocks. Pull-up bars, parallel bars, and an agility circuit with practically no material cost.

Bathrooms and Showers Block — €12,000

U-shaped design around a central courtyard covered by a large thatched canopy. Local materials except where hygiene requires concrete. Natural ventilation through a chimney effect.



Central Courtyard — 8 Outdoor Sinks

Meeting and socializing point: 4 concrete sinks on each side of a central wall that optimizes piping. An area also intended for laundry washing.



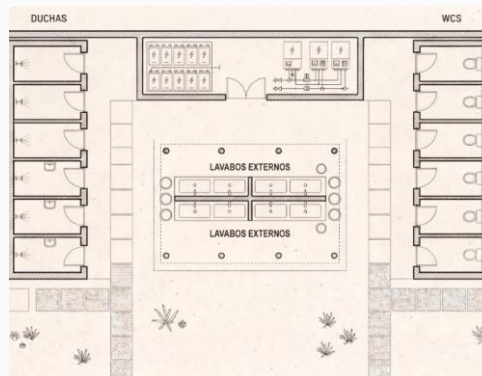
Left Wing — 6 Individual Showers

Linear stalls with wooden doors to ensure maximum privacy. Raised roof for ventilation and filtered natural light.



Right Wing — 6 Independent Toilets

Symmetrical to the shower wing. Low-cost ceramic bowls or squat toilets, better suited for peripheral communal flows.



Bioclimatic Architecture and Materials

Three Construction Principles

BTC Walls: Compressed earth blocks manufactured on site with manual presses. High thermal mass: they absorb heat during the day and release it gradually at night.

Ventilated Roof: Sandwich panels on a timber truss, raised above the walls. The "chimney effect" continuously expels hot air.

Wood and Thatch Porch: Perimeter canopy with local timber posts and traditional woven thatch. It protects the facades from tropical rain and drastically reduces the outdoor thermal sensation.

Cost Control Strategies

On-site production: The soil from the excavations is directly turned into BTC blocks, eliminating transportation costs for heavy materials.

Modularity: Identical and symmetrical blocks optimize labor, reduce waste, and standardize execution timelines.

Local labor and carpentry: Local artisans for timber structures and latticework, with active community participation (faenas/mingas).

Rainwater collection: The sheet metal roofs channel water into outdoor cisterns, ensuring reserves and reducing future maintenance costs.



Investment Summary — €175,000

45K€

Home for 24 Children

4 modules in a "U" shape with bedrooms, bathrooms, and caregiver room

35K€

Kitchen and Dining Room

Outdoor kitchen + indoor building with dining room and storage

35K€

Volunteer House

Housing for the director and 8 volunteers, "L" shaped floor plan

8K€

Sports Fields

Soccer, volleyball, and recycled outdoor gym

12K€

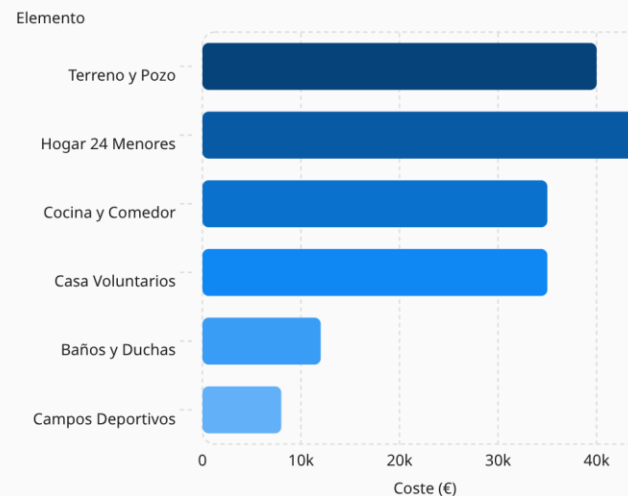
Bathrooms and Showers

"U" shaped block with 8 sinks, 6 showers, and 6 toilets

40K€

Land and Well

30 hectares, site preparation, and private water well



Project philosophy: Locally sourced materials, community self-build, and bioclimatic architecture to ensure long-term environmental, economic, and social sustainability on the outskirts of Lusaka.