New Housing Design for Low-income Communities

Earl Forlales
Co-founder and CEO
CUBO Modular
An Issued Challenge

The Cities for our Future Challenge
A Traditional Home
The Bahay Kubo of the Philippines
A Traditional Home
The Bahay Kubo of the Philippines
Can a traditional Filipino dwelling be employed to fight malaria in Africa?

Yes.
Outline

Chapter 1: CUBO: A Bamboo House for the 21st Century
Affordability
Upgraded Material
Housing Features
Co-housing Potential

Chapter 2: CUBO Prototype Launch
Open House
Rapid Manufacturing and Setup

Chapter 3: Housing and Vector-borne Diseases in the Philippines
Philippine Housing Shortage
Increasing Dengue Cases

Chapter 4: CUBO in Africa
Requirements for Transferability
Chapter 1: CUBO: A Bamboo House for the 21st Century
CUBO is an affordable modular housing made from engineered bamboo.
Affordability

635 EUR per sq.m.

167 EUR per sq.m.
Upgraded Material

Engineered bamboo can last up to 50 years for interior applications and 25 years for exterior applications.
Housing Features

CUBO was designed to let breeze through the house, to dissipate heat, to direct rainwater, and to keep floodwaters out.
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Co-housing Potential
Co-housing Potential
Chapter 2: CUBO Prototype Launch
Open House

Last January 26, 2019, less than two months after winning the competition, we launched our first CUBO prototype and opened it for public viewing.
Rapid Manufacturing and Setup

We employ a modular construction system that allows CUBO to be manufactured within 5 days and set up within 4 hours.
Chapter 3: Housing and Vector-borne Diseases in the Philippines
Philippine Housing Shortage

The lack of affordable and dignified housing in the Philippines has left millions of Filipinos vulnerable to pollution and diseases.

5.0M
houses are needed today

12.0M
houses will be needed by 2030
Increasing Dengue Cases
We experienced a 33% in dengue cases in the Philippines last 2018.

180K
Dengue cases in 2018

135K
Dengue cases in 2017
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CLOSED CEILING
SCREEN WINDOWS
SCREEN DOORS
Chapter 4: CUBO in Africa
Requirements for Transferability

PRESENCE OF BAMBOO

18 African countries with natural bamboo have joined INBAR:
- Benin
- Burundi
- Cameroon
- Eritrea
- Ethiopia
- Ghana
- Liberia
- Kenya
- Malawi
- Madagascar
- Mozambique
- Nigeria
- Rwanda
- Senegal
- Sierra Leone
- Tanzania
- Togo
- Uganda
Requirements for Transferability

BAMBOO KNOW-HOW
Requirements for Transferability

FINANCING
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@CUBOModular

CUBO Modular
Burgundy Place, 174 B. Gonzales St., Loyola Heights, 1108 Quezon City, Philippines
info@cubo.ph