



BUILD BEYOND

TODAY

From Roots to Revenue – Securing Finance and Climate Solutions Through Agroforestry: The Case of Bamboo April 11, 2025



HILTI FOUNDATION FOCUS AREAS





MUSIC FOR SOCIAL CHANGE



ECONOMIC EMPOWERMENT



AFFORDABLE HOUSING AND TECHNOLOGY

FOCUS AREA

AFFORDABLE HOUSING

AND TECHNOLOGY

Supporting deprived families through housing to build a better future for themselves

We know having a safe place to call home is essential for social and economic development.











ABOUT BASE

Provides alternative building technologies to enable a network of partners that provide comfortable, affordable, resilient, eco-friendly houses with social impact.











BASE has built over **2,300 homes** in the Philippines, Nepal, India, and Nicaragua. BASE has established 8 bamboo supply facilities and an additional 1 partner facility in the Philippines.





Jaro



Lanit



Quezon City



Basey



Cabug



E. Samar

Tacloban



Sorsogon



Silay



Davao







Sicogon

40,000+ tCO2 savings



2,300 **CBFT Houses**



10,500+ sheltered



1,000+ trained



Philippines

India



Farmers Model House
Bukidnon



BARMM Walay House
Cotabato



Torogan House (Maranao)
Bukidnon



Two-storey, Single DetachedDavao

HOUSING PROJECTS



Single Detached
Tacloban



Middle Class Houses Negros Oriental

NON-RESIDENTIAL PROJECTS



Community Center



Ampitheatre



Office



Food Processing Center



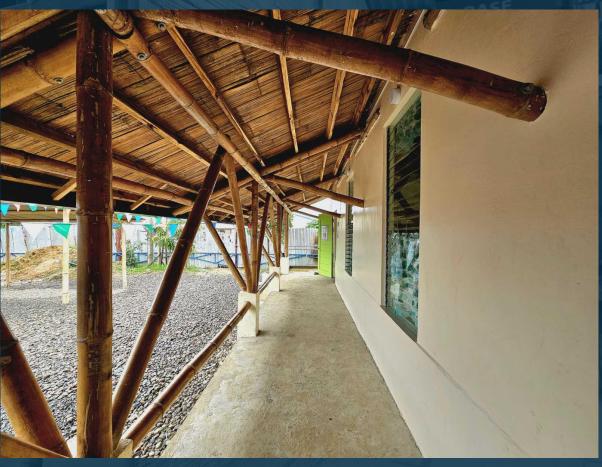
Weaving Center



School Building

NON-RESIDENTIAL PROJECTS







NON-RESIDENTIAL PROJECTS

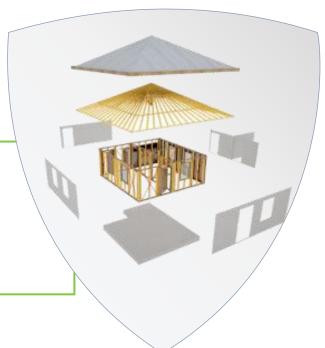






Bahareque Technology, Colombian Engineering Filipino Craftsmanship

Accreditation of Innovative Technologies for Housing (AITECH)





Typhoon Resistant



Earthquake Resistant



Fire Resistant



Insect Resistant



BASE INNOVATES

At BASE, innovation is at the forefront, with continuous research and development through the Base Innovation Center to optimize technology and explore new applications beyond standard housing models.

BASE INNOVATION CENTER



RESEARCH & DEVELOPMENT

Committed to continuous improvement and optimization of construction processes and procedures.



TRAINING & LEARNING

Conducting a series of training on CBFT and other housing solutions with an emphasis on quality and resiliency.



TECHNOLOGY TRANSFER

Providing and sharing the expertise on CBFT with partners.

PARTNER ORGANIZATIONS

Hilti Group





Local Universities

















BASE INNOVATION CENTER

International Universities















Other Institutions











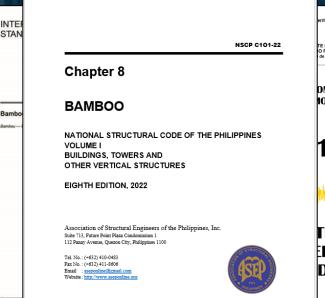




INCLUSION OF BAMBOO IN NSCP

Recommended Bamboo Structural Standards

- 1. Content
- 2. Visual grading
- 3. Allowable stresses and modulus of elasticity
- 4. Coefficient of modification, CD, Ct, Cr, etc.
- 5. Design of Elements with axial load
- 6. Design of elements with Bending
- 7. Design elements with Shear parallel
- 8. Connections design
- 9. Maintenance



National Structural Code of the Philippines Volume I. 8th Edition, 2022

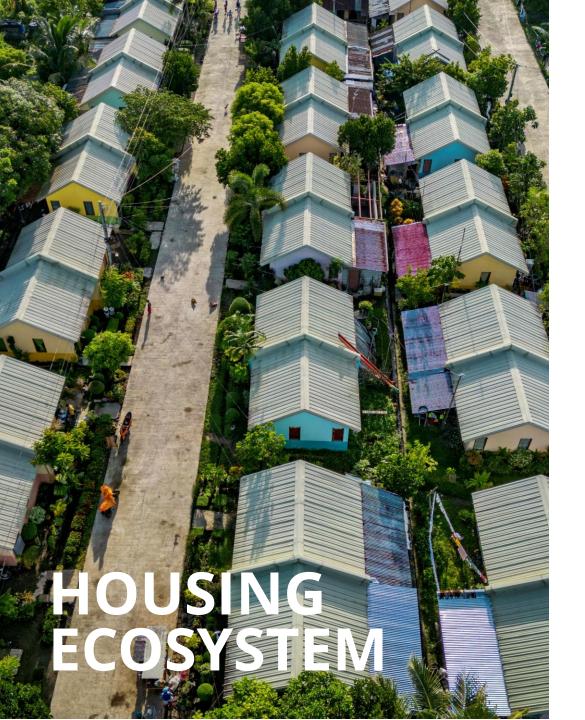
TE PARA EL REGIMEN O RESISTENTES

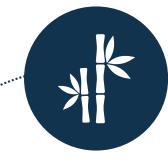
DMBIANO DE IO RESISTENTE

10

TRUCTURAS ERA Y DE GUADUA







Supply Chain



Base

Livelihood



Education

Access to Basic Utilities



Quality Houses



NEGROS OCCIDENTAL IMPACT (NOI25)

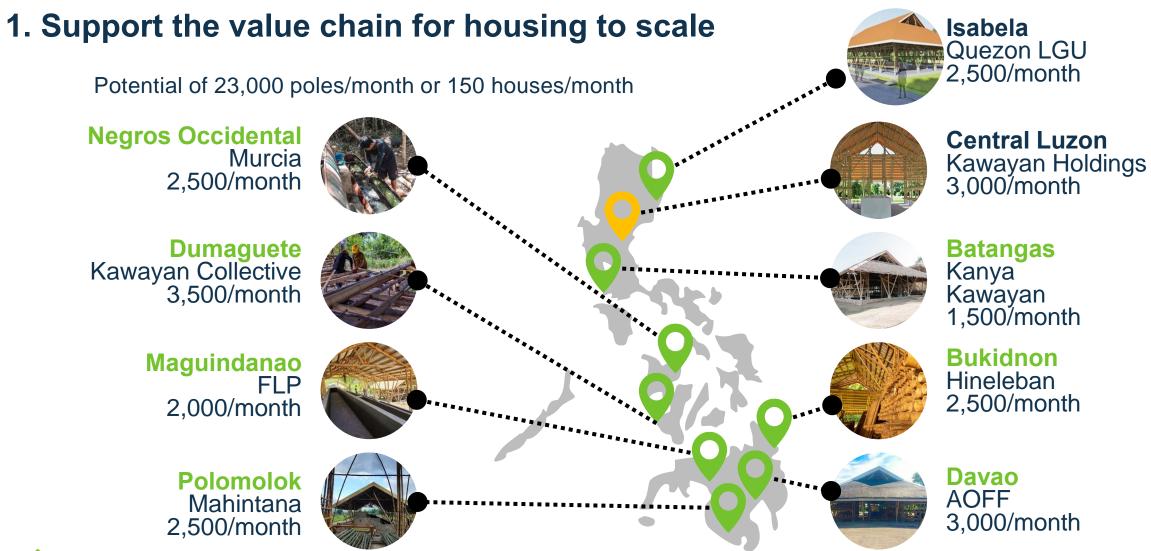
Base provided technical input and knowledge transfer

- 1. Programmed for 10,000 disaster-resilient homes by year 2025
- 2. 612 houses constructed to date
- 3. Shift in national policy for house funding affected target



CHALLENGES

Demand creation and investment support for suppliers in the value chain





CHALLENGES

Policy change sees national housing budget oriented towards vertical housing only

2. Support to Codes and Regulation

- NSCP National Structural Code of the Philippines,
- Green Building Code

3. Technology and Know-how transfers

4. Support to local government funding

- Solution for cities/municipalities shelter program
- On-going study:
 - Housing Finance in the Philippines
 - Developmental Loan Financing
 - Housing Loan Programs for End-Users
 - Development/Green Incentives











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DEEP DIVE DISCUSSIONS

- 1. Success Factors: Identifying effective strategies and best practices.
- 2. Key Enablers: Understanding the drivers of progress.
- 3. Challenges & Barriers: Addressing obstacles to implementation.
- 4. Scaling & Replication: Exploring opportunities for broader adoption.