SUSTAINABILITY OF SOCIAL HOUSING IN THE PHILIPPINES

A Holistic Development of Bamboo Based Housing

Base

BASE Bahay Foundation, Inc.

HILTI FOUNDATION

Master Thesis on Alterntaive Building Materials.
2011

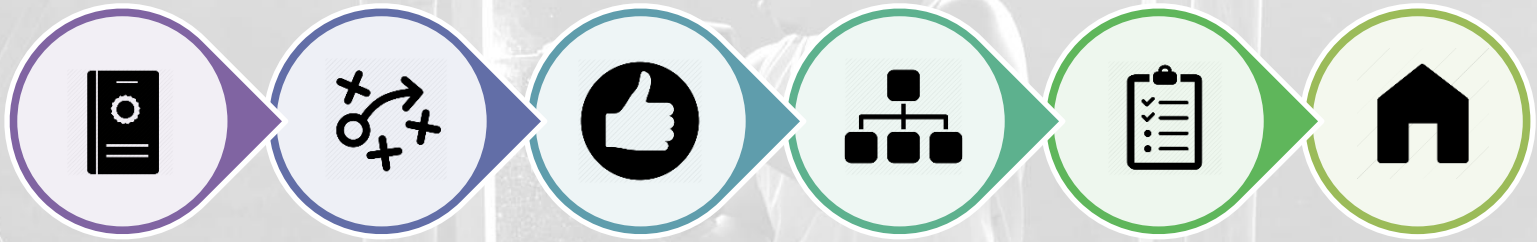
Conceptualization & Piloting in the Philippines
2012

Hilti Foundation Board Approval
2013

BASE Builds Pte, Ltd. BASE Bahay, Inc.
2014

First Project
2015

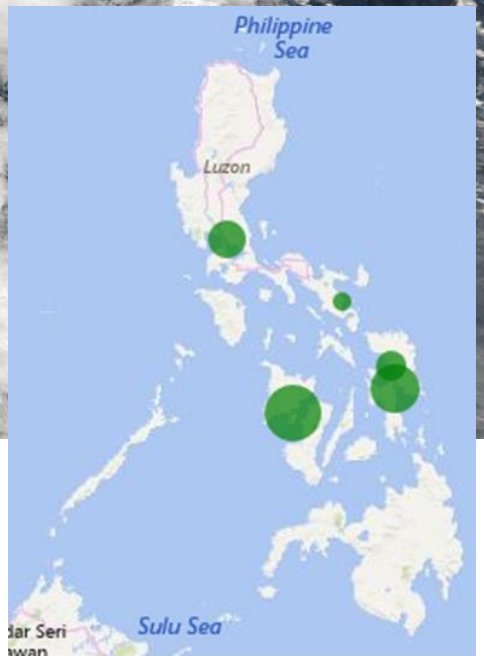
BASE Bahay Foundation, Inc.
2016



"As a responsible family and powerful corporate group we want to make a contribution towards the development of society. Our goal is not merely to support people in difficult circumstances, but to help them improve their lives by providing help for self-help."

Michael Hilti

Housing Technology



The technology is a combination of Bahareque Technology, European Engineering , local traditions and designed for the weather condition of the Philippines

Base

Value Chain

Catalyzing bamboo housing and bamboo industry development through partnerships, livelihood generation and QUALITY homes

Supply

- Environment,
- Skills
- Livelihood

Production

- Skills
- Livelihood

Construction

- Skills
- Livelihood

Home

- Environment
- Shelter

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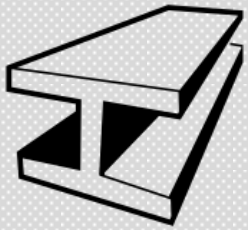
Environmental Impact



CO_2

Non Renewable material

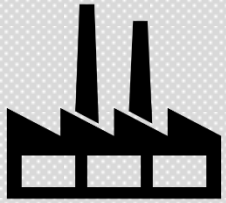
30 to 40 years before maturity

3 to 5 years before maturity

Erosion after harvest

Bamboo roots remain in place after harvesting

High production cost



Planting and Harvesting cost is higher

Planting and Harvesting cost is low

Does not insulate

Absorbs CO2 and releases oxygen

Absorbs CO2 and releases oxygen 35% more

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Social Impact




200+

Farmers and Workers Trained

200+

Homes built by the end of 2016

250+

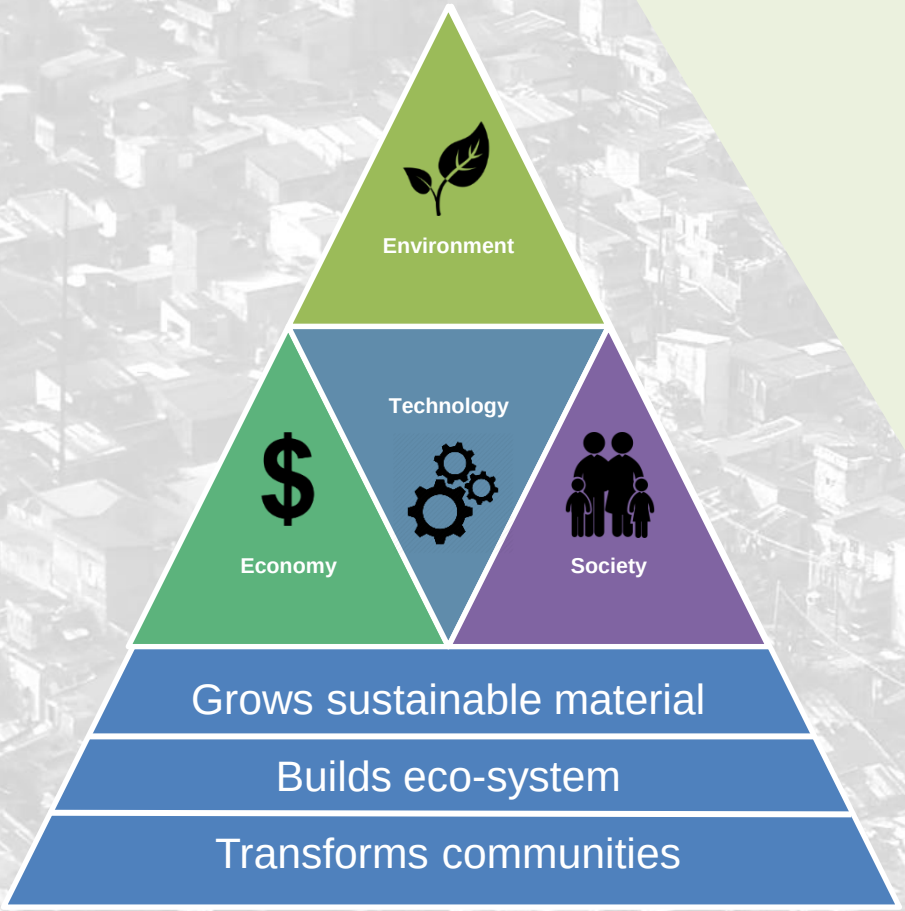
Livelihood and Jobs Created

1,200+

Filipinos with shelter

Base

Sustainability of Social Housing



The multi-dimensional challenge of social housing requires a **holistic approach**

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Advantages

- Renewable Material
- CO2 Emission Reduction
- Safe and Secure
- Healthy & Comfortable
- Disaster Resilient
- Livelihood & Skills Generating
- Cultural Acceptance
- Gender Sensitive

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To Scale

- Organized Supply / Bamboo Plantation
- Treatment Facilities
- Policy and Accreditation
- Financing

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