

# AFFORDABLE ABODES



SUSTAINABLE LOW COST HOUSING USING BIO COMPOSITE

# IMPACT OF COVID-19

# SUPPLY CHAIN DISRUPTION

- Lack of supply of raw materials
- Fear of infection amongst workers
- Increased business cost

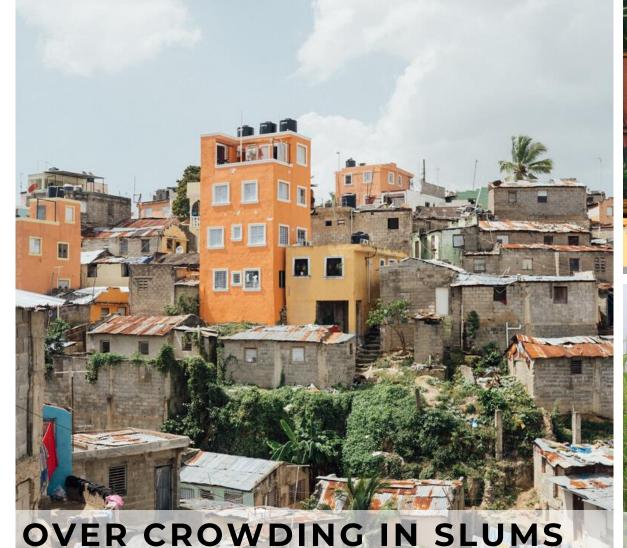
# THREAT TO FOOD SUSTAINABILITY

- 40% of Asia's farmland facing desertification
- 14-20% of rice crop will be affected by Global warming by 2050

# **CLIMATE CHANGE**

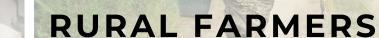
- 40 per cent of energy-related greenhouse gas emissions are from the buildings and construction sector\*
- Changing weather patterns are severely affecting crop yields







MIGRANT WORKERS

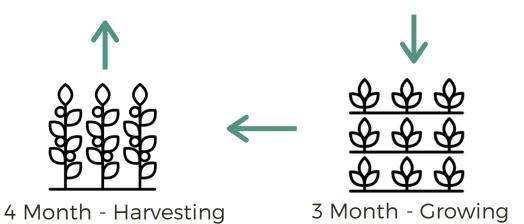




# Why Kenaf?

- Grows well in tropical regions
- 2 growing cycles a year
- Hardy and resilient to pest





**70%**LIGHTER

97%

UP - CYCLED MATERIALS

## **FARMING**

- Efficient 4 Month planting cycle
- Resilient, high yield crop
- Alternative to Padi



- >90% Biomass
- up-cycled industrial waste
- No sand required





1 HECTARE OF KENAF = 15 HOUSES / YEAR



40%
CHEAPER TO INSTALL

# PRE-FAB CONSTRUCTION

- Rapid assembly(1 week / house)
- Minimal skilled labour and equipment needed
- No wastage



# **Modular Factory Unit**









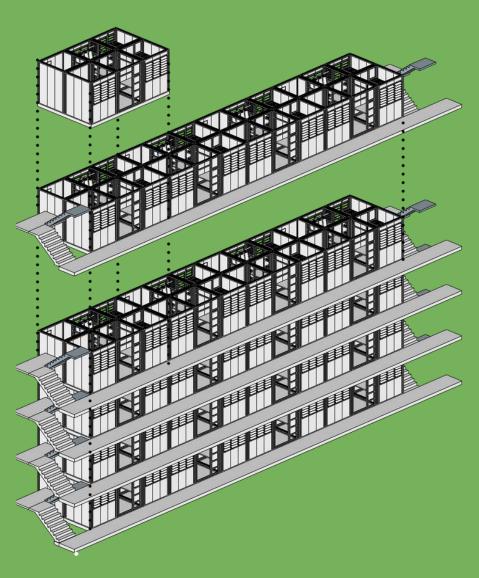




3-5 WORKERS PER MODULAR FACTORY

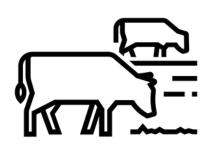


# PRE-FAB MODULAR STRUCTURE









ANIMAL FEED

**COMPOST** 











PROCESSING RAW MATERIALS





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# AFFORDABLE ABODES

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# WEBSITE

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