

BAMBOO'Shousing

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Bamboo Housing regenerates deforested areas by creating self-sufficient housing communities that cultivate their own raw materials. These highly adaptable urban complexes promote community and are designed to be accessible to people with limited resources. The design takes advantage of the structural qualities and rapid growth rate of bamboo and relies on the local knowledge of bamboo construction techniques. However, the design is also contemporary and proposes a spatial, structural and formal solution that promotes natural lighting, ventilation and thermal comfort.

The house is composed of a scaffolding structure that enables both vertical and horizontal growth and a modular container. The container is divided into two areas. A private section contains a bedroom and a bathroom and a social space is comprised of a living room and a kitchen. The house is raised off the ground for protection from pests, animals and natural disasters such as floods, and to clear land for farm animals and organic crops.

The buildings are constructed with low energy methods that avoid the excessive harvesting of wood and that are intended to reduce electricity consumption. The buildings can be constructed by unskilled labourers and can be easily expanded by joining modules to-





