

HEXPRESSIONS

green construction technique

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http://hexpressions.org

Homelessness



MISSION:

We aim towards sustainability and social integration by providing permanent shelter to underserved people globally.

African Context

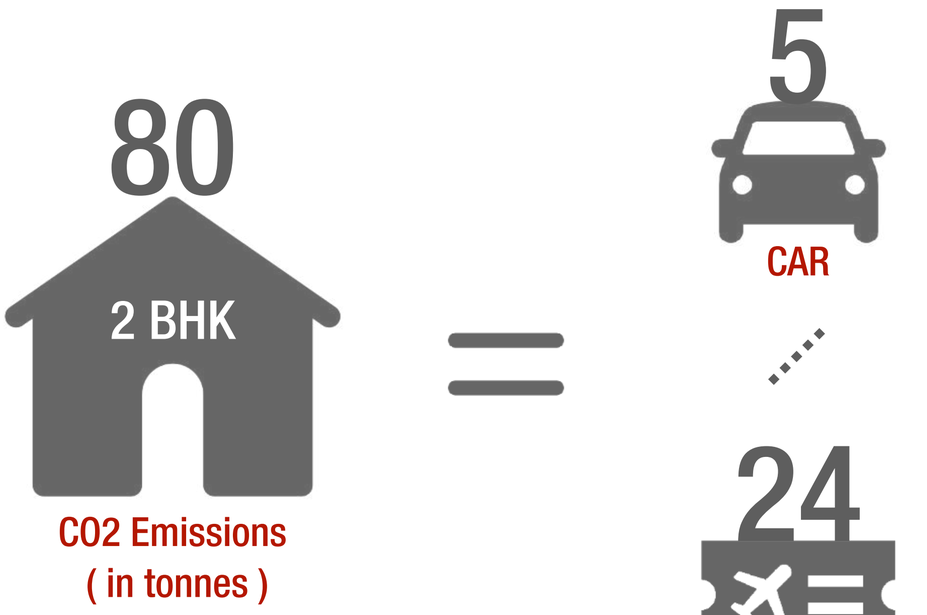
According to the African Development Bank, there is an estimated housing deficit of 50.5 million units in sub-Saharan Africa.



- Demand & Supply GAP
- Low Income
- Expensive Construction
- Poor Regulations
- Scarcity of Urban Land
- Absence of Housing Finance

Problem

Depleting natural resources and inefficient construction materials, methods and manufacturing has made home construction unaffordable for underprivileged people globally.



CO2 Emissions
(in tonnes)



Unaffordable Housing



Huge carbon emission

Solution



"Ready to assemble cost effective, fast, modular & sustainable new age construction system".

- Cost effective
- Super fast
- Modular structure
- High Insulation
- Acoustical
- Eco friendly

Composite Paper Honeycomb Panel* (CPHP)

* Granted Patent

Sustainable Development Goals



SUSTAINABLE DEVELOPMENT GOALS

Focus SDG's 1,11,13



We are aiming to impact the lives of underserved communities, homeless people & refugees by providing affordable, fast, modular & sustainable homes. The absence of a permanent shelter keeps the user virtually excluded from society. Most cities struggle with the dual challenges of housing their poorest citizens & providing housing at a reasonable cost for low & middle-income populations.



Our innovative & sustainable construction system transforms the complete life cycle of the built environment, literally. It starts with designing & planning the building on paper, making modules of the panels to minimize wastage of time, labour and material. During the construction process, we fabricate our panels on-site to minimise the transportation cost and installation time.



Composite Paper Honeycomb Panel is an evolutionary product that replaces non-eco-friendly materials like (wood, polyurethane foam, rock wool, mineral wool) in their respective applications while preserving the key virtues of their usage. It is more economical (50%), Superfast (10x), Space saver (50%), having zero carbon footprint, making it a boon to our planet.

Pilots

Factory



Hospital



Farmhouse



Coaching centre





Shop



Unit economics & Operations

Unit price: **$4,99 - $9,99**/ Sqft.
Panel size: 8’x4’ / 10’x4’ / 12’x4’
(30 - 150 mm Thickness)

Manufacturing capacity:
300 Panels / Day / manufacturer
10000 Sqft. approx.

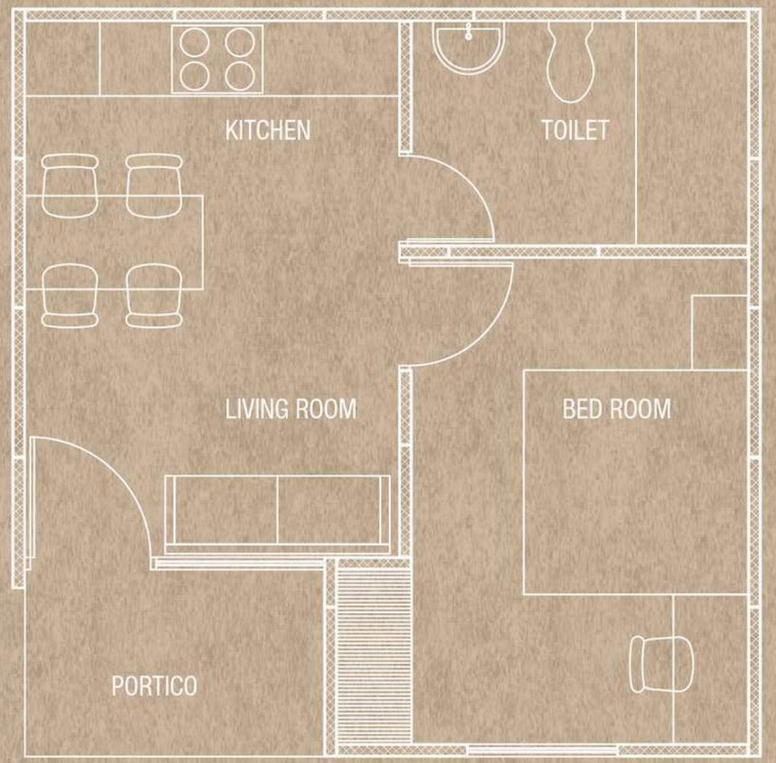
3 nos. (Jaipur, Bangalore)
State of the art manufacturing units
(contract manufacturing)

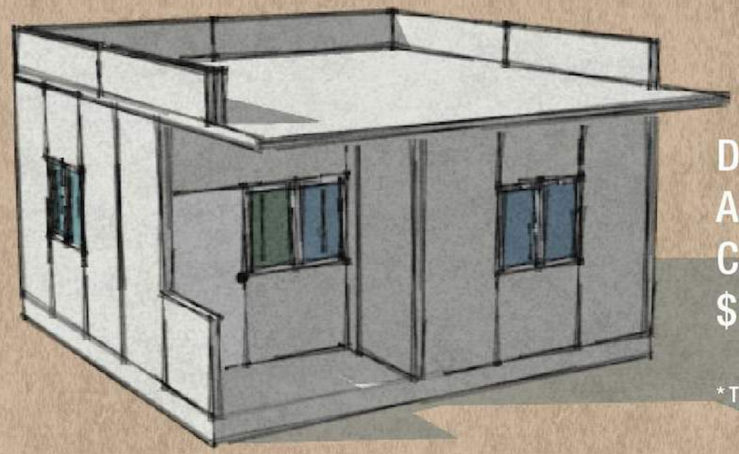
Go-To-Market strategy

- Channel Partners
- Social organisations
- Real estate developers

Quadra home

A single unit of quadra home having area of 36 sqm., Is self sufficient for a small family of 4 people.





Duration : 4 week
Area : 36 m2
Cost to Consumer :
$ 12000*

* The cost is excluding logistics and taxes.

Business



Shilpi Dua
Co-Founder & Director

B.Arch, M.Arch (S.P. A, New Delhi)
M.Sc, 2015-17 (Politecnico di Milano)



Abhimanyu Singh
Co-Founder & Director

B.Arch, M.Arch (N.I.D, Bangalore)
M.Sc, 2015-17 (Politecnico di Milano)



Kush Jee Kamal
Associate Architect
B.Arch (BITS MESRA)
Experience : 5 Years



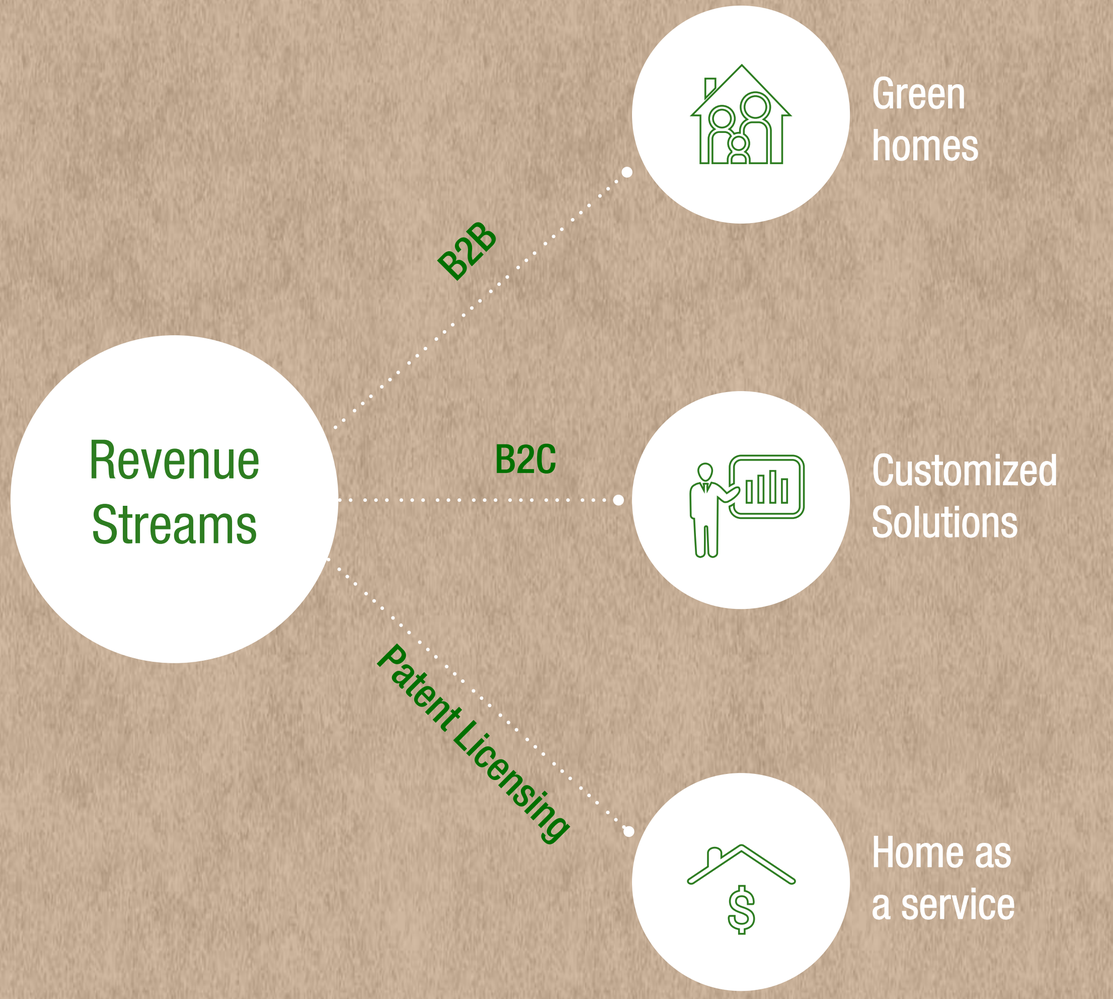
Rahul pandit
Marketing & Sales
MBA
Experience : 15 Years



Govind Singh
Advisor
B.E (MBM Jodhpur)
Experience : 32 Years

Business projections

Multiple revenue streams strengthening one end goal !!



Ask

ROI: 5x - 6x (5 years)

Traction in the next 5 years

(60% Architectural
& 40% interiors)

$ 12 million

Completed projects

(Affordable housing &
Interior partition dry walls)

200

International Expansion

(Southeast Asia
& Africa)

Partnership

Needs

Funding needs to kick off startup





Owner: Veeresh
Location : Bellary , Karnataka
Function : Xerand Mobile servicing area
Size: 10ft x 10 ft
Existing floor: Kadappa stone
Walls & Roof: Hexpression composite panels



Let’s innovate the construction industry together!

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