



# HEXPRESSIONS

green construction technique

# Homelessness

1.2  
billion

2022

2.0  
billion

2030



Unaffordable  
Construction



Huge (40%)  
carbon emission

## MISSION:

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



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

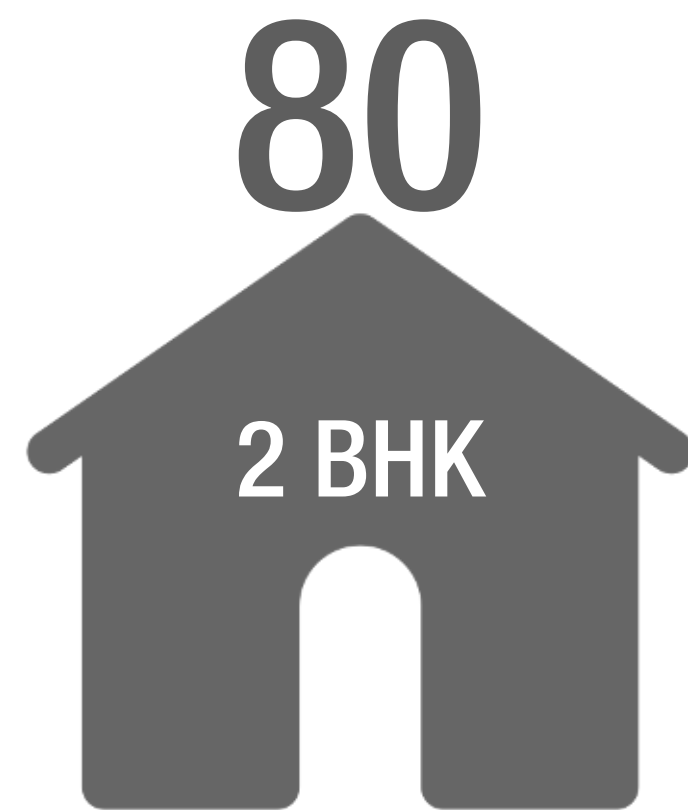
Poor  
Regulations

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 )

=



CAR



Economy airfare  
( HK to LON )



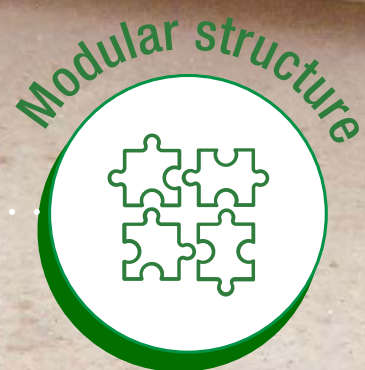
Unaffordable Housing



Huge carbon emission

# Solution

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



Composite Paper  
Honeycomb Panel\*  
(CPHP)

\* Granted Patent

# 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





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



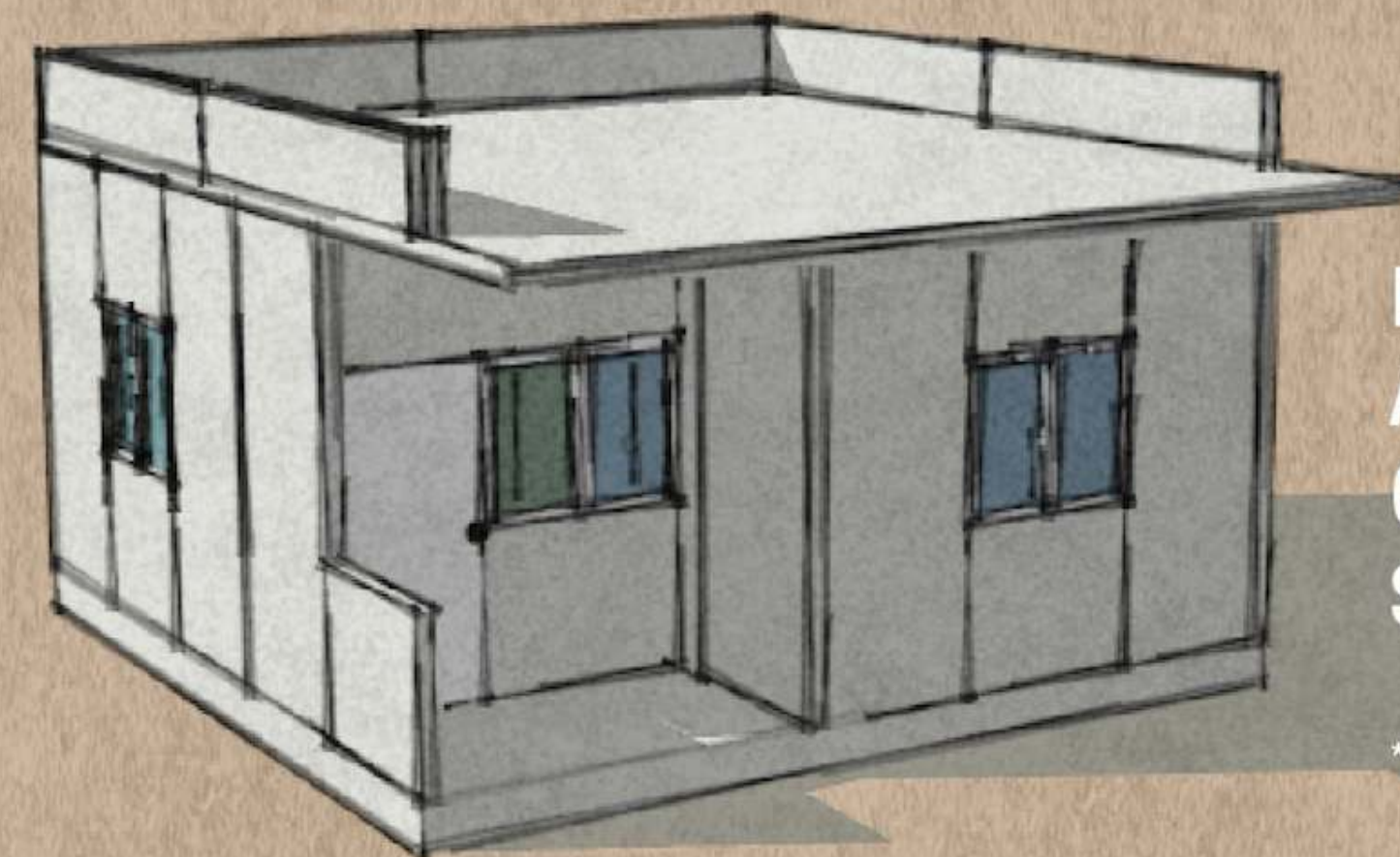
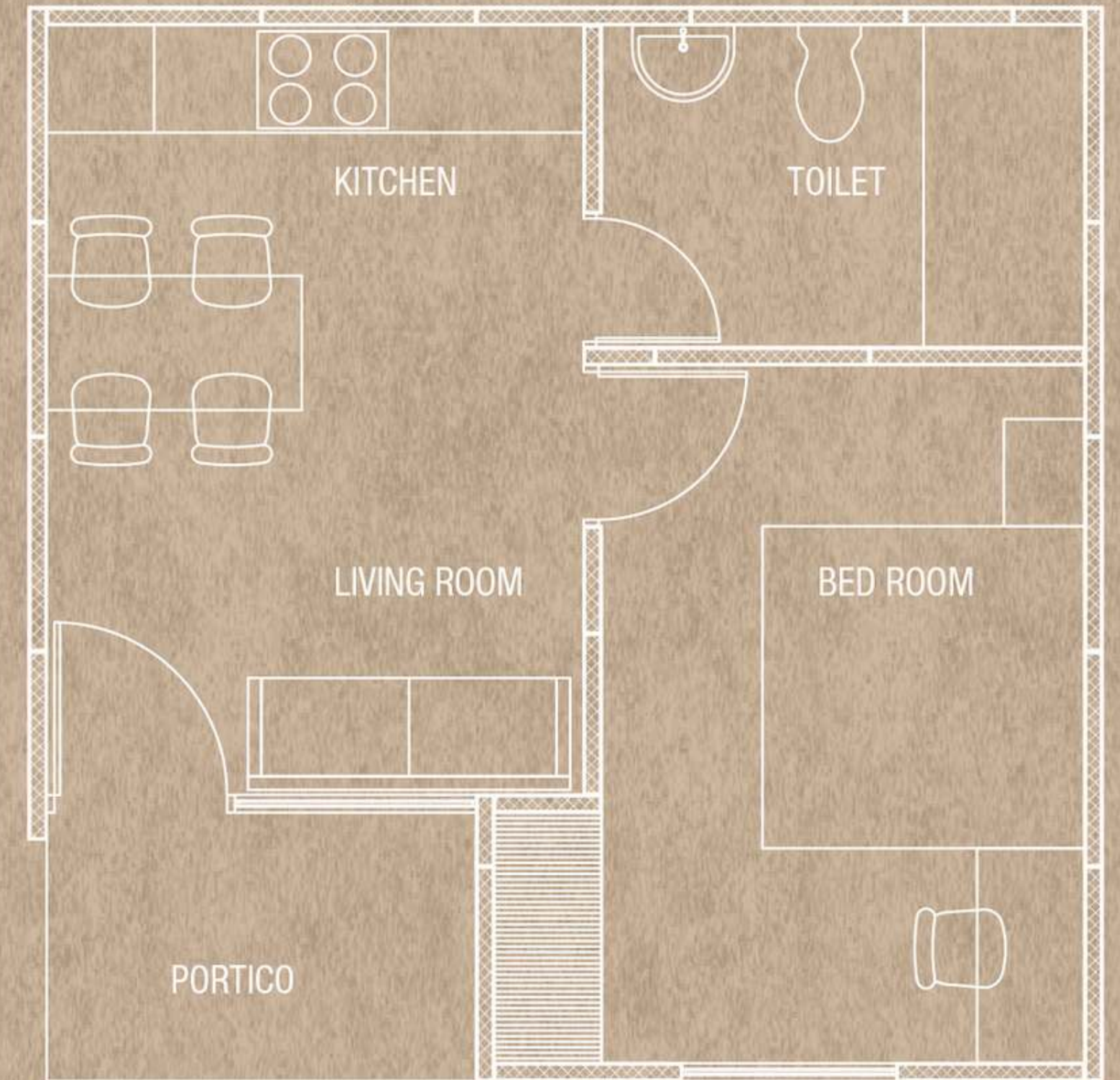
Social organisations



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



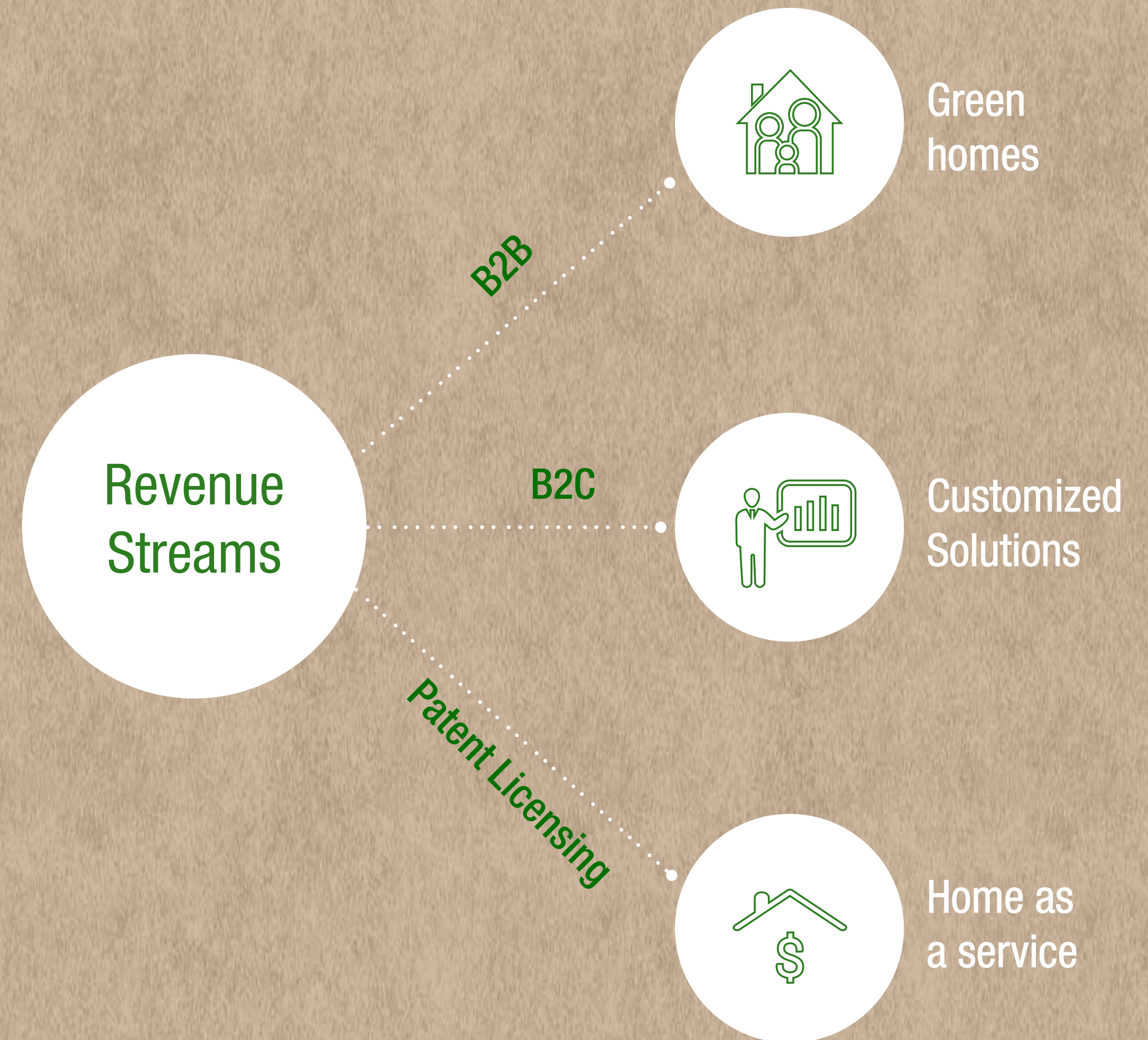
**Rahul Pandit**  
Marketing & Sales  
MBA  
Experience : 15 Years



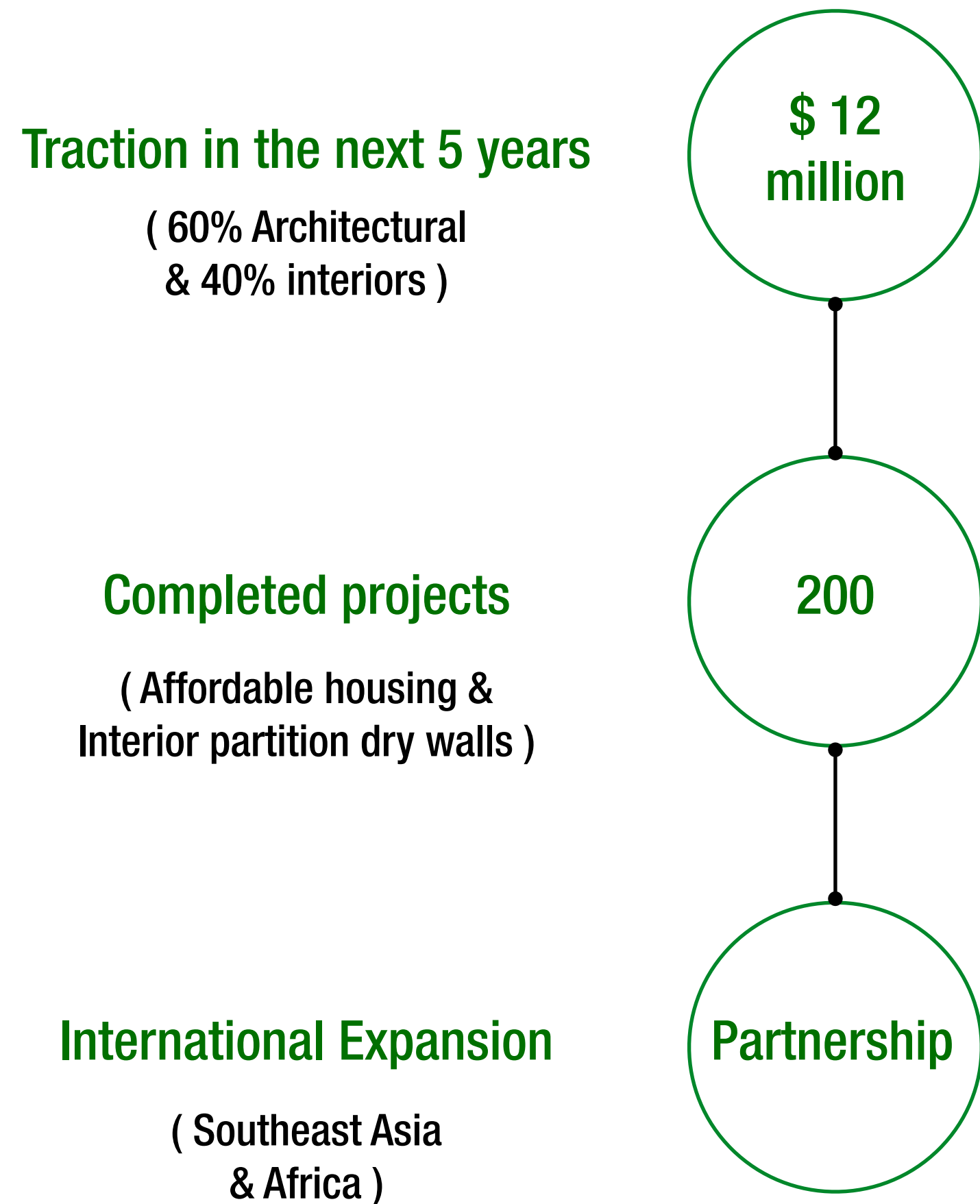
**Govind Singh**  
Advisor  
B.E (MBM Jodhpur)  
Experience : 32 Years

## Business projections

Multiple revenue streams strengthening one end goal !!



# ROI: 5x - 6x (5 years)



## 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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