



Geodome Project

Affordable Domes for Affordable Homes

































PROBLEM STATEMENT:

- Inadequate and slow provision of safe and sustainable housing during and after disasters.
- High demand for rapidly deployable and eco-friendly housing solutions for affected communities.
- Limited community engagement and input in the design and implementation of disaster relief housing.
- Environmental impact due to the use of unsustainable materials in conventional disaster relief shelters.





SOLUTION

- Immediate Shelter: Quick assembly for immediate shelter in disaster areas.
- Sustainability: Eco-friendly materials for minimal environmental impact.
- Community-Centric: Tailored solutions with local community involvement.
- Cost-Effective: Affordable alternative to traditional housing.
- Resilience: Durable designs withstand environmental challenges.
- Versatility: Adaptable structures for various purposes beyond housing.







Product Market Research

Current Option

Geodesic Domes



High Cost(1800/sqft)



Low Cost(1500/sqft)



Longer Time to Delivery (6 months)



Short Time to Delivery(30 days)



Complexity of Assembly



Ease of Assembly



Long Supply Chain



Short Supply Chain







Iterative BUSINESS MODEL

1.Collect & Verify

- 1.Gather HDPE plastic waste from communities and verify quality.
- 2. Set up sorting to ensure only suitable material is used.

2.Collaborate & Exchange

- 1. Partner with large-scale manufacturers for trade agreements.
- 2.Swap HDPE waste for finished plastic products.

3.Innovate & Produce

- 1. Utilize acquired plastic products (HDPE) in manufacturing.
- 2. Create diverse products using recycled HDPE material.

4. Market & Distribute

- 1. Develop compelling marketing strategies for recycled products.
- 2. Reach out to potential customers and establish distribution.

5. Sustain & Expand

- 1.Embed sustainability practices throughout the process.
- 2. Evaluate impact, consider growth opportunities, and expand.





Revenue:

- •Area: 1000 square feet
- •Rate: 1500 NPR per square foot
- •Revenue = Area × Rate = 1000 sq ft × 1500 NPR/sq ft = 1,500,000 NPR





Costs:

- Construction Materials: 600,000
 NPR
- Labor: 650,000 NPR
- Miscellaneous Expenses: 100,000
 NPR

Total Costs = Construction Materials + Labor + Miscellaneous Expenses = 600,000 + 650,000 + 100,000 = 1,350,000 NPR







Target Customer:

- Demographics: Individuals and families affected by natural disasters, humanitarian organizations, and disaster relief agencies.
- Characterization: People seeking rapid and sustainable housing solutions in disaster-stricken areas, organizations focused on disaster relief efforts.

Marketing Approach:

- Tailored outreach to disaster-stricken regions through partnerships with local NGOs and humanitarian agencies.
- Online and social media campaigns to raise awareness and educate potential customers on the benefits of our disaster relief housing.







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[Nationally Determined Contribution (NDC) Implementation Plan]

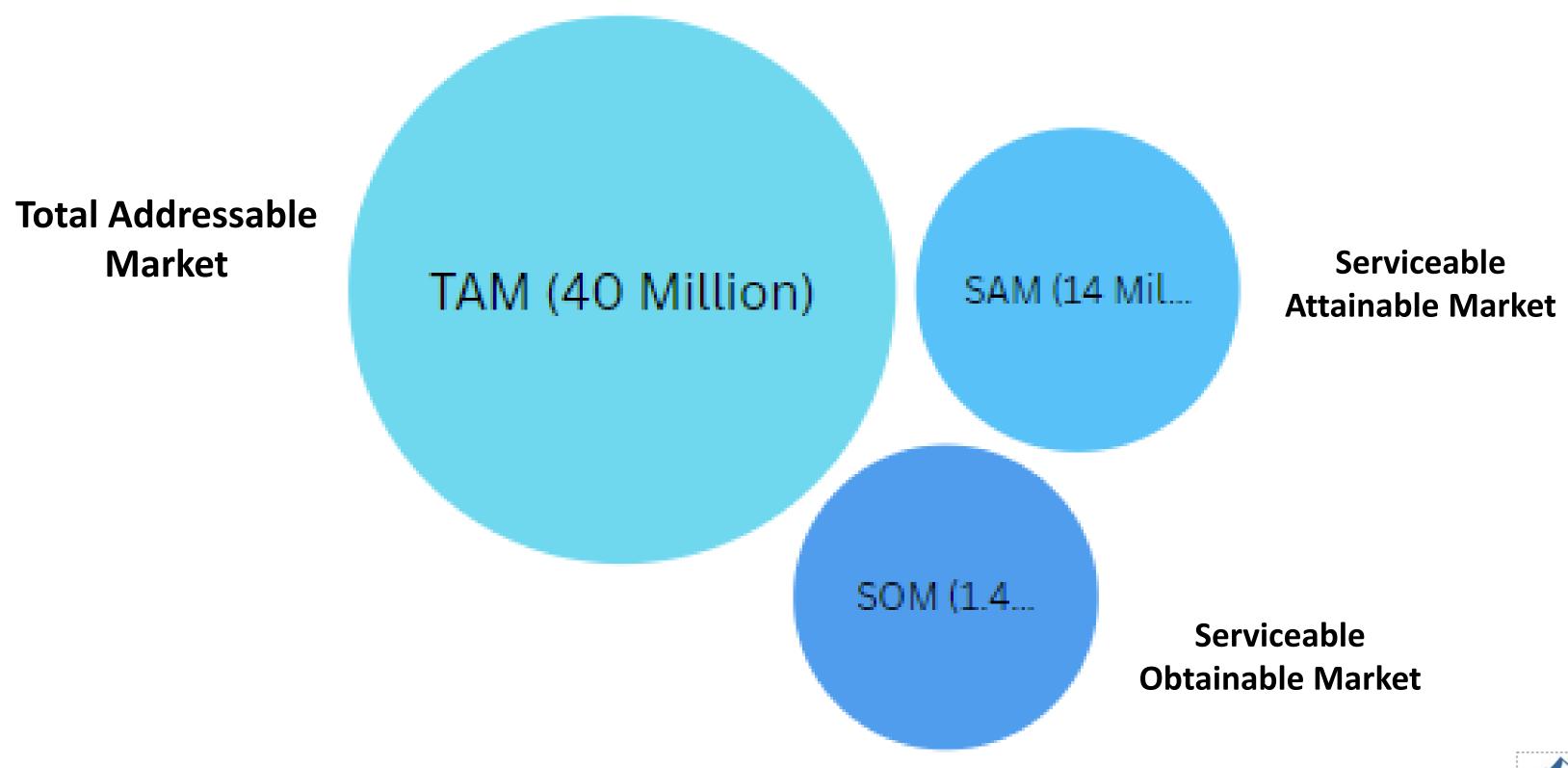
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दक्षता/ स्वेत प्रमाणपत्र		स्थानीय सरकार	
प्रणाली)।			





Market DATA: USD









Competitors:

Awning Global Pvt. Ltd. sell at 2600 NRS sq./ft Getaway Camps Pvt. Ltd. sell at 2800 NRS sq./ft





1 Cost of Plastic

Cost/Time Training of Workforce

Cost/Time of Raw Material to finished

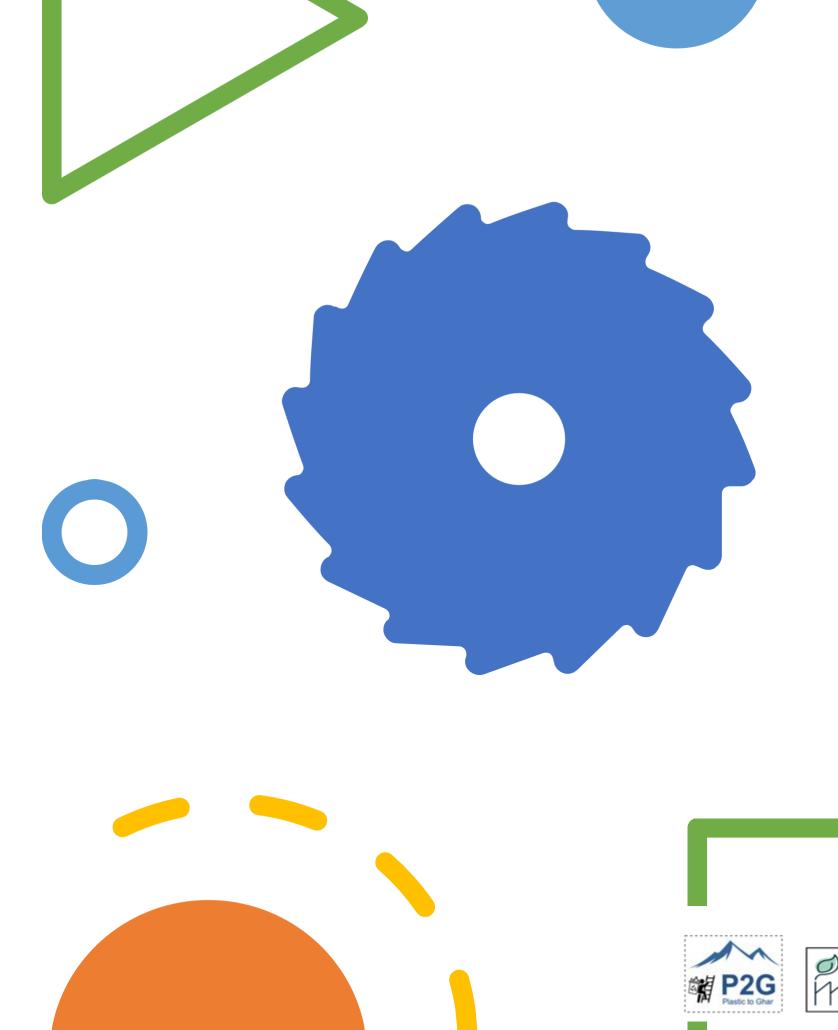
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Our Advantage

Localized Advantage

Cost of finished Connector- (117 per kilo to 170 per kilo)

- Lower cost of equipment required- (2 Lakhs-6 Lakhs)
- No training for Workforce required in handling HDPE
- Barter with Pipe Manufacturers for recycled plastic for finished pro duc t



Traction

- Raw Materials for Recycled Plastic-Mapping Ongoing Environmental Mitigation of Recycling-Completed
- Skilled Workforce-Completed
 Customer Base Identification-Identified Disaster Recovery
- After Sales Service Modeling-Completed
 Finance For Project-Assessment Ongoing

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Material Resource Partne

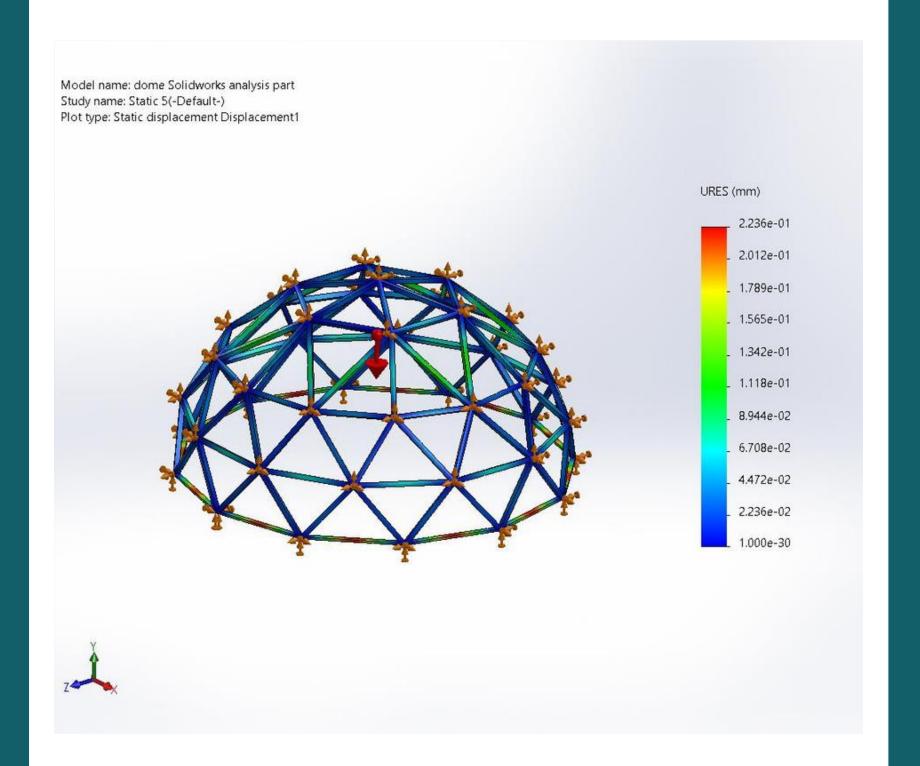
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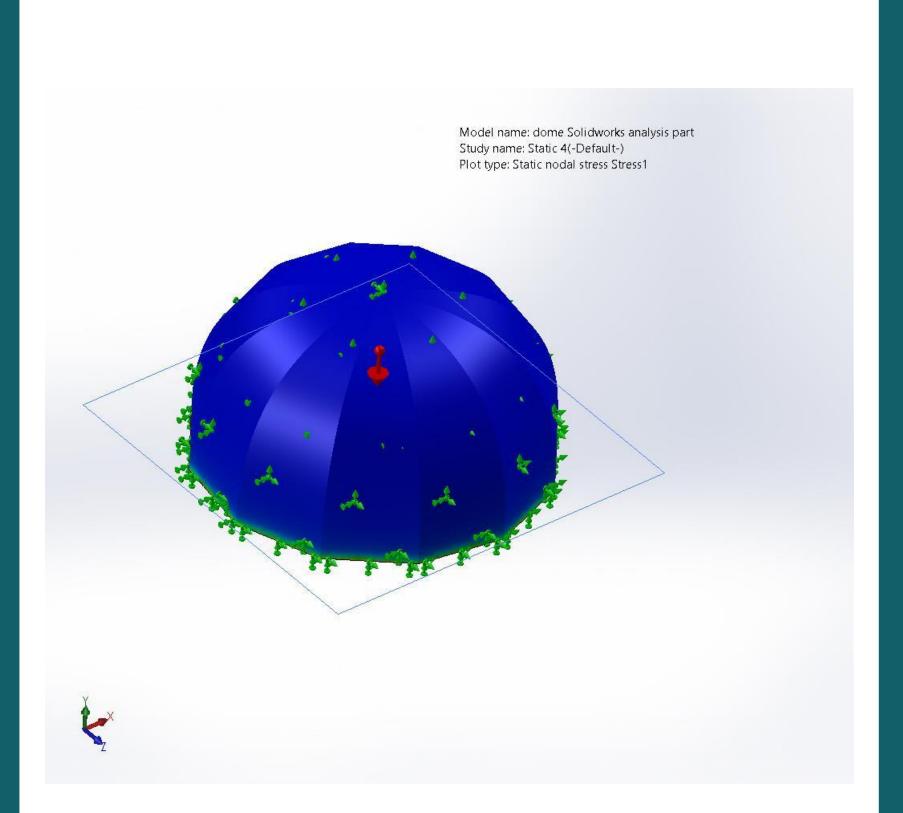
- Dil Bahadur Gurung,+9779761782929
- Location: Kavre,
- Panchkhal
- Type of Plastic: PET,
- LDPE, HDPE
- Daily Supply Claimed: 500 kg















Our Progress by Team Effort:

- Customized Size Based Design Template-Completed by Gunjan Ghimire
- Structural Analysis-Ongoing by Ramiz Bhattarai
- Design of Struts and Joints-Completed by Bishwa Bista
- Loading of Geodesic Domes and National Building Codes Assessment-Ongoing (Team Effort)
- Site Work: Ongoing by Riwaj Subedi and Prashil Neupane
- Machinery Identification-Completed by Shoban Mishra
- Material Specification-Completed by Shoban Mishra
- Material Resource Partner-Identified by Riwaj Subedi
- Large Scale Manufacturing Partner-Completed by Shoban Mishra





Our Ask

15 Lacs NPR for First Installation and machinery tools.



