H.E.A.L. Pods

Hydro-Energy Air-Lifted Pods for Emergency Relief in Flood Zones

Theme: Innovation for Coastal & Hilly Area Sustainability

Problem statement :

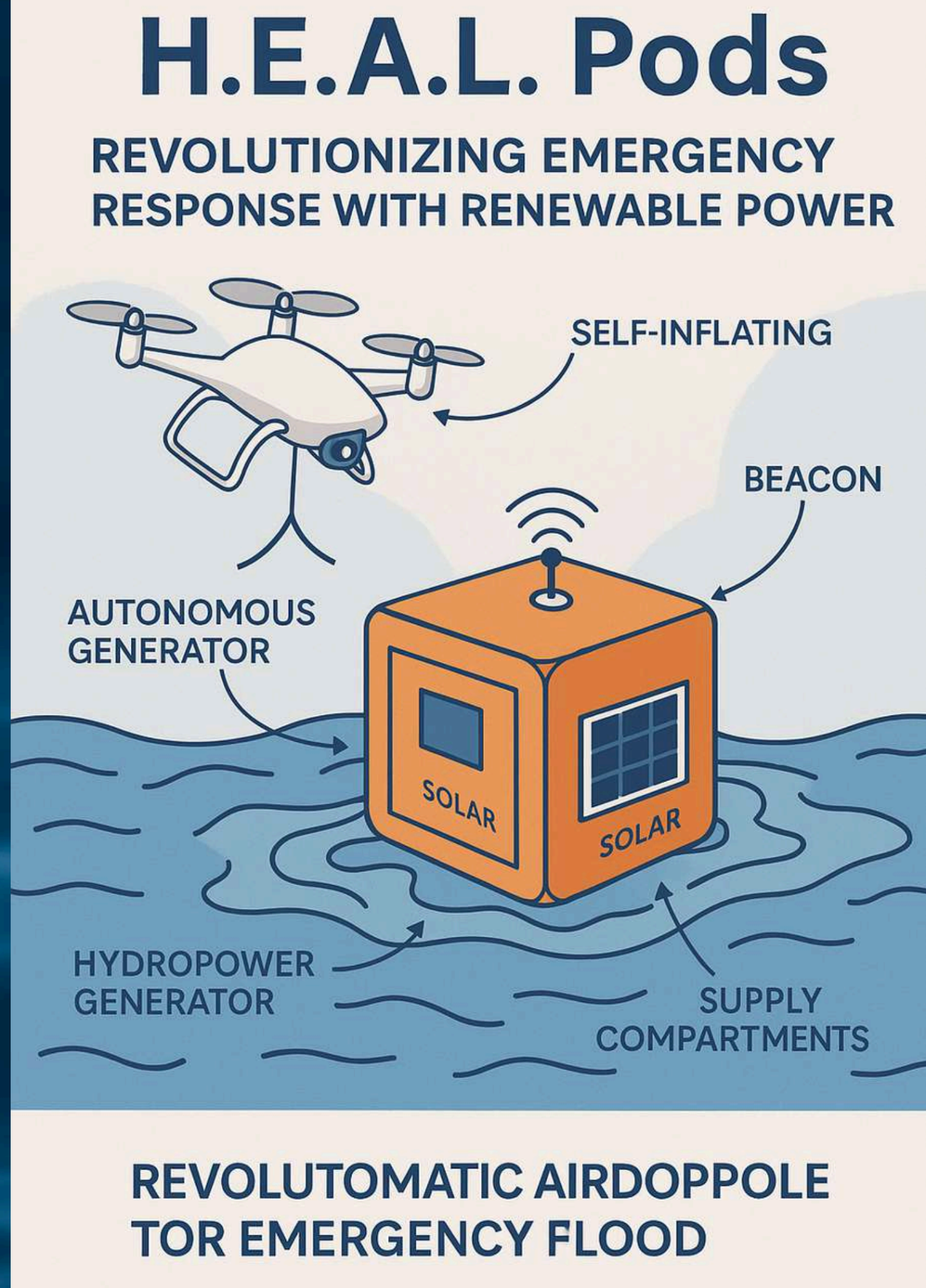
- Floods trap people for hours or days with no help.
- Roads break down — rescue teams can’t reach in time.
- Kids, elderly, and injured can’t escape or call for help.
- Most deaths happen at night — no light, warmth, or signal.
- Current relief kits aren’t floatable, trackable, or fast.

Issues in Current Flood Relief:

- Aid arrives late
- No victim tracking
- Uneven distribution
- Not ready-to-use
- Scattered solutions

Solution :

- Self-inflating pods that float safely in floodwater.
- Powered by mini water turbines and solar backup for emergency electricity.
- Pre-filled with food, medicine, solar charger, and GPS tracker.
- Sends live location automatically when deployed.
- Built from eco-friendly materials and assembled by local MSMEs.



Why H.E.A.L Pods ?

- Fast emergency response – Auto-deploys when flood hits
- Tracks location – Sends GPS signal to rescue teams
- Ready-to-use supplies – Food, water, power, medicine all inside
- Works without electricity – Uses flowing water and backup solar
- Built locally – Assembled by MSMEs, creating jobs in disaster zones
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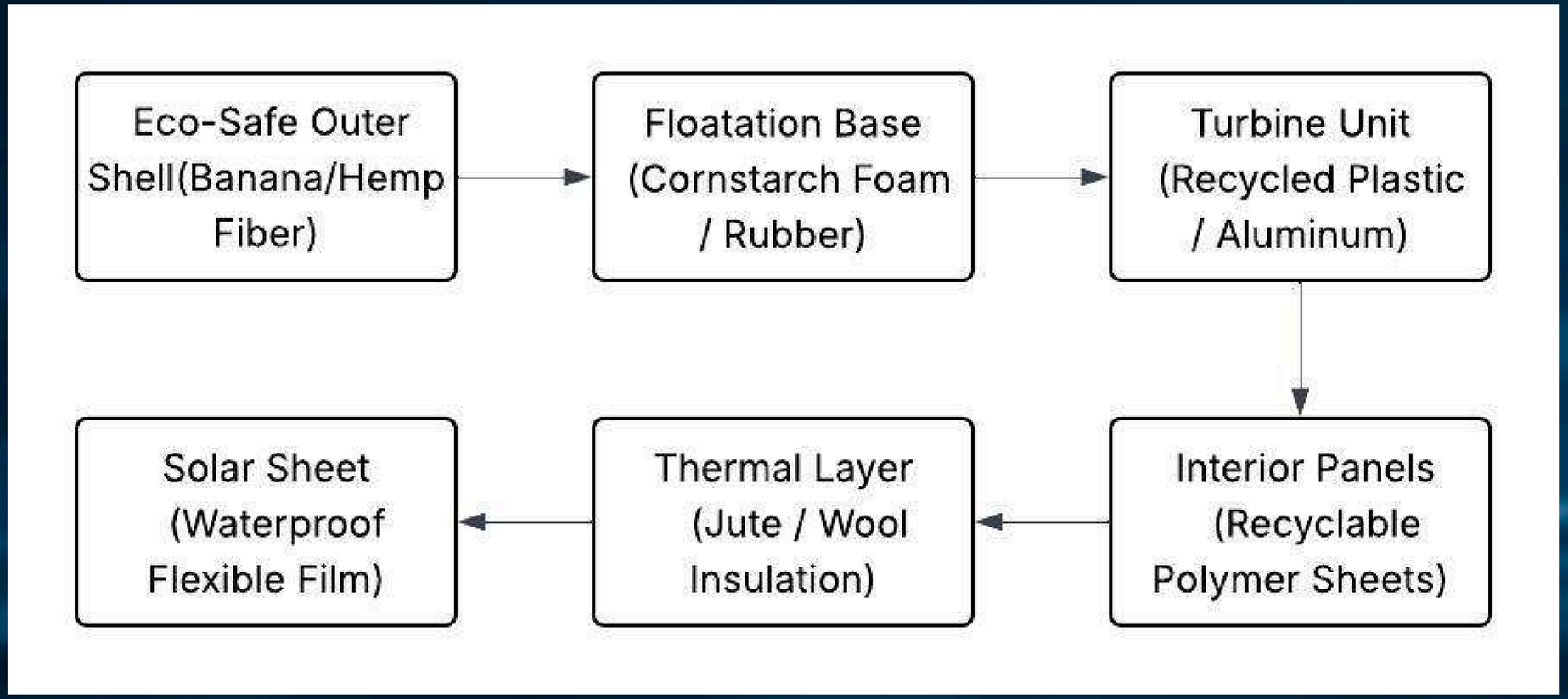
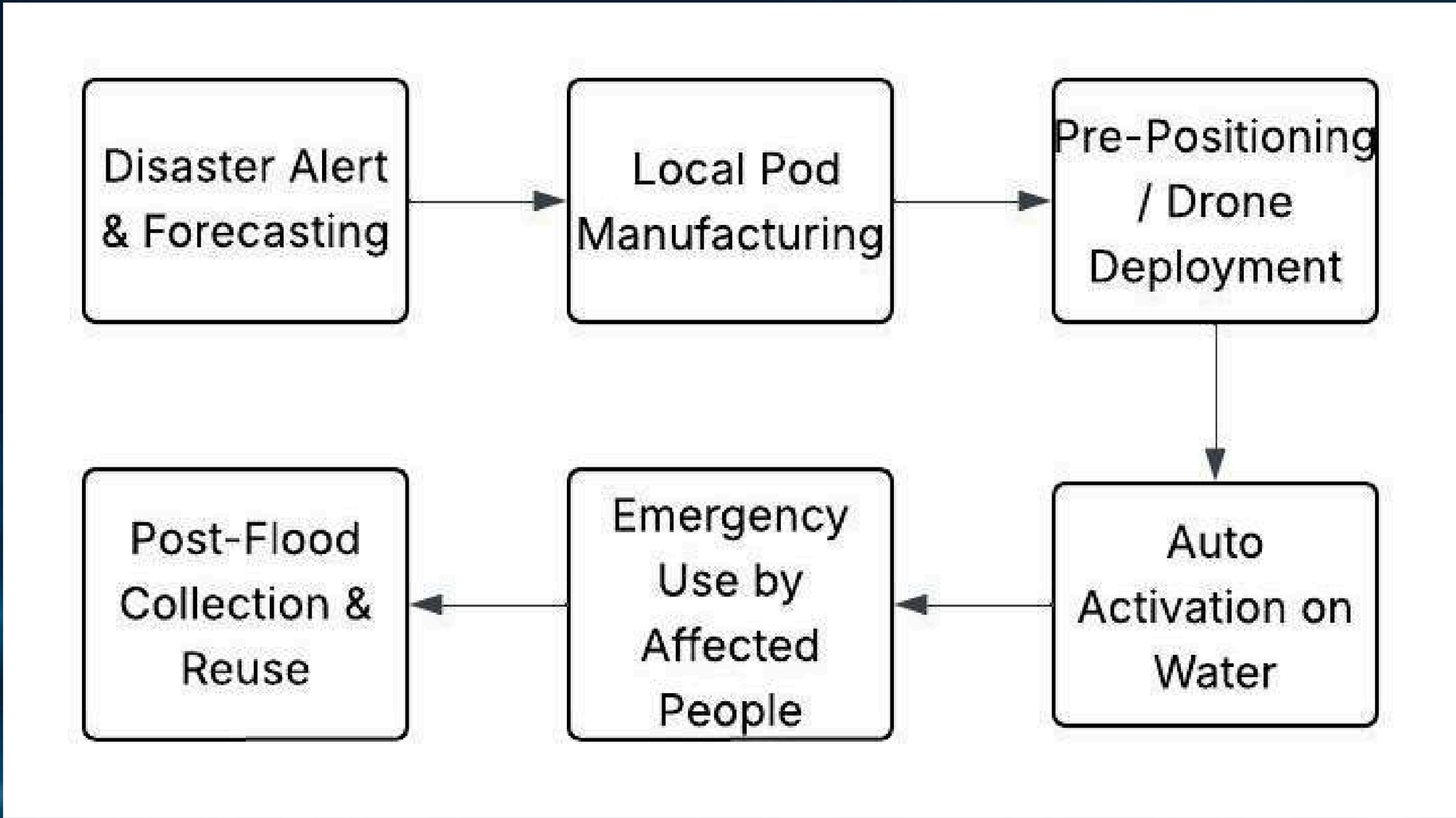
How H.E.A.L Pods are made



H.E.A.L Pods - workflow



Unique Features :

- Auto-activates on water with GPS
- Solar + hydro power backup
- Eco-safe and recyclable materials
- Voice assistance in local language
- Compact, modular, and easy to deploy

Technologies used :

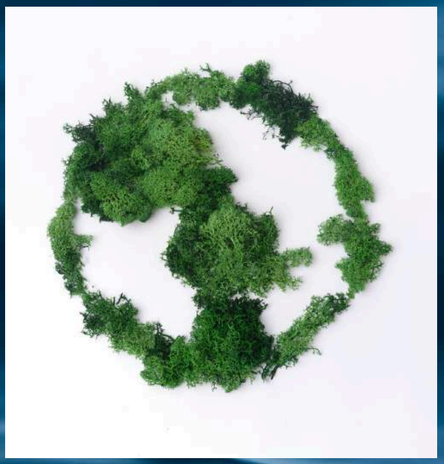
- GPS-based location tracking
- Micro-hydro power generation
- Flexible solar film for energy backup
- Auto-activation water sensors
- Voice module with regional language support

Marketing & Business Model Innovation

1. Targeted Delivery – Focus on disaster-prone areas via NGOs and relief agencies
2. Local Production – Low-cost, fast manufacturing near high-risk zones
3. Ready Storage – Pods pre-placed for quick access during disasters
4. Reusable Sales Model – Buy-back or restock system post-use
5. Trust Building – Live demos and survivor stories for awareness

Sustainable Growth Model

- Scalable, local production
- Eco-friendly materials
- Reusable, not single-use
- Built with user feedback
- Useful even after floods




THANK YOU