The Innovation: Why BeaconMatch is Different

Most disaster technology in 2026 relies on the "Cloud" or professional responders. **BeaconMatch** is built on a different philosophy: **Hyper-Local Orchestration**. We don't just provide a way to talk; we provide a way to act when the world goes dark.

The "Unfair Advantages"

Feature	The Status Quo	BeaconMatch Innovation
Cognitive Load	Complex forms and chaotic chat feeds.	**Lizard-Brain UX:** Intuitive Tinder-style swiping for instant decision-making.
Connectivity	Dependent on 4G, 5G, or Wi-Fi infrastructure.	**Zero-Infrastructure:** A pure Bluetooth Low Energy (BLE) mesh that works without a single cell tower.
Sustainability	Rapid battery drain from constant signal searching.	**The "Pulse" Manager:** A battery-stewardship logic that wake-syncs for only 15–30 seconds to preserve life for days.
Navigation	Relies on high-data map "tiles" that fail offline.	**Compass-Only Logic:** Real-time vector pointing using internal phone sensors (no data needed).

1. From Conversation to Orchestration

Existing offline apps (like Briar or Bridgefy) are great for **communication**, but in a crisis, "chatting" is a luxury. BeaconMatch is a **logistics engine**. By using "Need

Cards" and "Skill-Share Swiping," we eliminate the "Orchestration Gap," matching specific local assets—like a chainsaw or medical skill—directly to a nearby victim.

2. Survival Mode: Battery as a Resource

If the phone dies, the "Beacon" dies. Our **Survival Mode UI** is an industry-first "OLED Stealth" design. By using pure black backgrounds, we ensure that modern screens use near-zero power, while our "Pulse" background service keeps the mesh "warm" without killing the device.

3. The "Peacetime" Bridge

The biggest failure of emergency apps is that nobody has them installed when the disaster hits. BeaconMatch solves this with a **Community Tool Library**. Neighbours use the app daily to borrow ladders or find volunteers, ensuring the network is already active and the users are already verified before the "Silent 72" begins.

4. Verified Trust in a Crisis

During chaos, you need to know who is coming to help. Our **Verified Trust Layer** allows users to pre-validate their skills and equipment during peacetime, building a neighbourhood "Trust Score" that ensures the most qualified responders are matched with the most critical needs.