



To illustrate how **BeaconMatch** works in a real-world scenario, let's follow a user named **Leo** through a sudden earthquake and the 48 hours that follow.

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## The User Journey: Leo's 48-Hour Survival

### Stage 1: The "Peacetime" Setup (3 Months Before)

- **Action:** Leo downloads BeaconMatch to join his neighbourhood "Tool Library." He registers his **4x4 Truck** and a **Chainsaw**.
- **Verification:** He uploads a photo of his driver's license. The app grants him a "**Verified Driver**" badge.
- **Result:** The app silently downloads a 10-mile offline map of his city and enters "Sleep Mode."

### Stage 2: The Impact (Minute 0)

- **Event:** A 7.2 magnitude earthquake hits. Power is out; cell towers are down.
- **Action:** Leo opens the app. It automatically detects "No Signal" and triggers **Survival Mode**.
- **The Pulse:** His phone begins "pulsing" via Bluetooth, looking for other phones nearby to establish a local mesh network.

### Stage 3: The Search (Hour 2)

- **The Swipe:** Leo is safe, so he switches to the "**I Can Help**" side of the app.
- **The Card:** A card pops up: "*Sarah (200m away) - Trapped behind jammed door. Needs heavy tools.*"
- **Decision:** Leo **Swipes Right**. The app opens a Compass View. Since there's no GPS signal, an arrow points him toward Sarah's last known "Pulse" location.

### Stage 4: The Rescue (Hour 3)

- **Action:** Guided by the compass, Leo finds Sarah's house. He uses his chainsaw to clear the debris and free her.
- **The Handshake:** Sarah is uninjured. She opens her app, and Leo scans her **QR Code**.

- **Result:** The mission is marked "Complete" on both their devices. The next time *either* phone gets near someone else with the app, this "Success" update is passed along like a digital whisper until it eventually reaches a working internet connection to notify Sarah's family.

### Stage 5: The Ripple Effect (Hour 12)

- **Action:** While Leo is resting, his phone acts as a **"Relay Node."** \* **The Flow:** A neighbor 50 meters away sends a request for "Insulin." That request "hops" from his phone to Leo's phone, then to a third person's phone further down the street who actually has the medicine.
- **Result:** Leo helped someone without even moving, just by keeping his app in **"Pulse Mode."**

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## User Experience Breakdown

User State	App Action	UX Element
<b>Panicked</b>	Huge buttons, high contrast.	<b>"I Need" / "I Can" Toggles</b>
<b>Lost</b>	Directional navigation.	<b>Compass &amp; Distance (No Map needed)</b>
<b>Isolated</b>	Bluetooth mesh messaging.	<b>The "Heartbeat" Pulse</b>
<b>Sceptical</b>	Identity verification.	<b>Verified Skill Badges</b>

### Summary of the "Golden Path"

1. **Detect:** App senses signal loss and triggers low-power mode.
2. **Discover:** User swiped through local needs or resources.
3. **Direct:** Compass leads the helper to the victim.
4. **Done:** QR handshake closes the loop and updates the mesh.