

Regional Civic Tech Innovation Challenge

TEAM PROFILE & MEMBERS

SWAN HTET – Project Lead & Developer



- Background in Digital and Communication Engineering
- Skilled in mobile app development, IoT, and AR/VR systems
- Leads technical development and project strategy

ARKAR PYAE PHYO – Data & Backend Developer

- Specializes in database systems, APIs, and secure data handling
- Develops reliable backends to ensure integrity and accessibility of civic data
- Focuses on building transparent data flows for public use

AUNG MYINT MYAT – Frontend Developer & UX Designer

- Experienced in UI/UX design, mobile development, and user testing
- Designs interfaces that make civic engagement simple and inclusive
- Ensures accessibility for underserved or low-tech communities

GOVERNANCE CHALLENGE

- Communication breakdowns during disasters cause poor coordination and delays.
- Lack of real-time information weakens transparency and accountability.

Lack of connection blocks action.

Rescue teams struggle to locate and assist victims because disaster-hit areas often have no internet or cellular coverage. Traditional communication methods fail, and organizations can't coordinate or share real-time data — leading to delays, duplication, and lives lost.



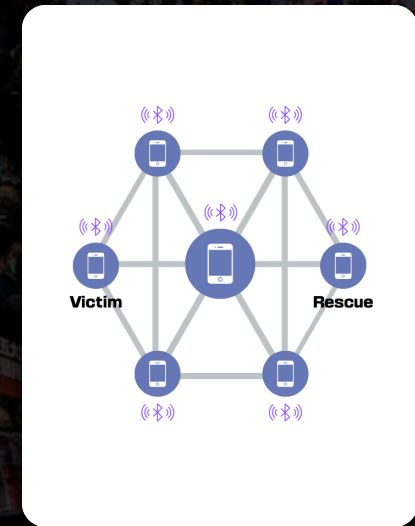
USING **BLUETOOTH MESH** NETWORKING IN THE PAST

DISASTER USE CASES

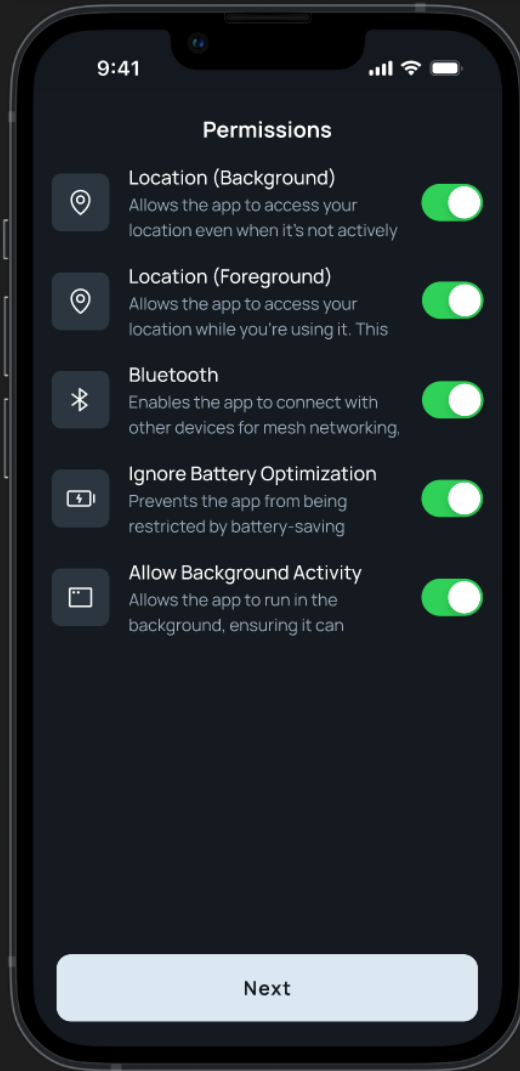
- ◆ Serval Mesh — Australia, Remote Areas
- ◆ GoTenna Mesh — Hurricane Maria 2017

PROTEST USE CASES

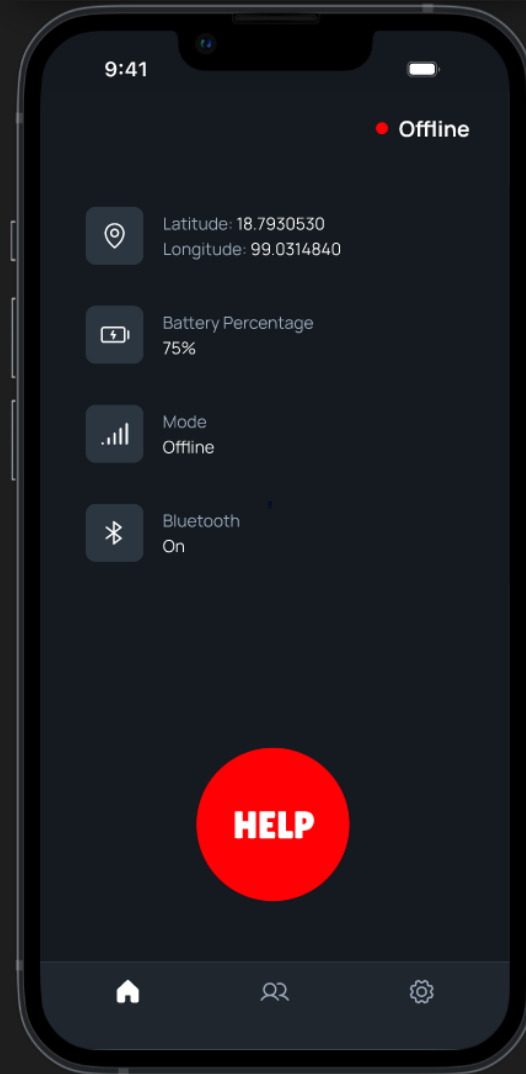
- ◆ FireChat — Hong Kong Protests (2014–2019)
- ◆ Bridgefy — Myanmar 2021 Military Coup



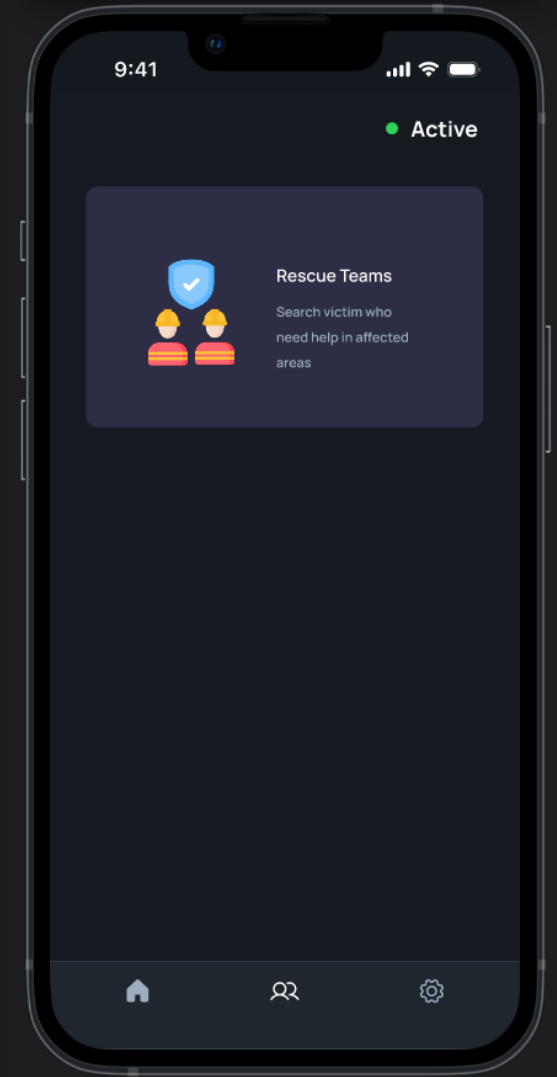
PROPOSED SOLUTION



Permissions

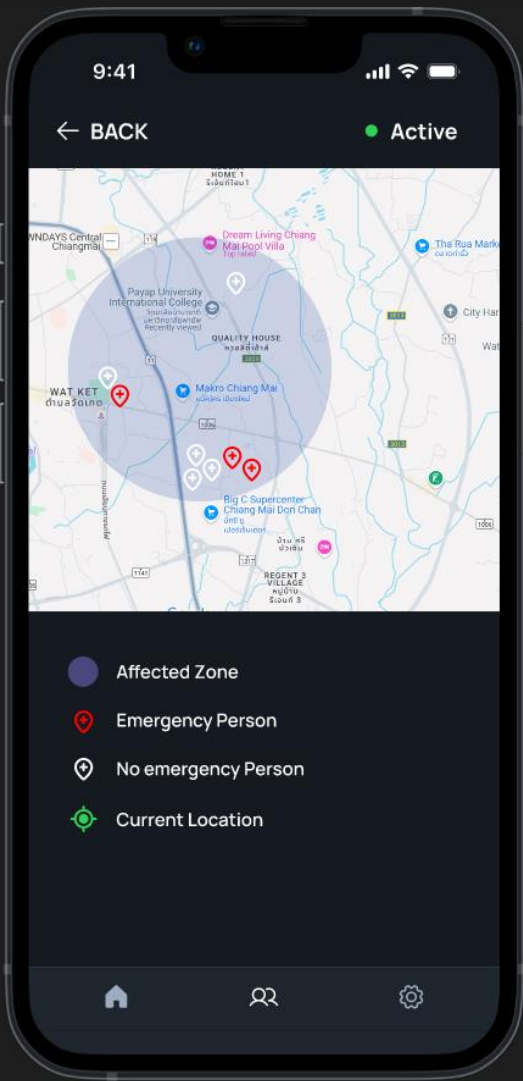


Home Screen

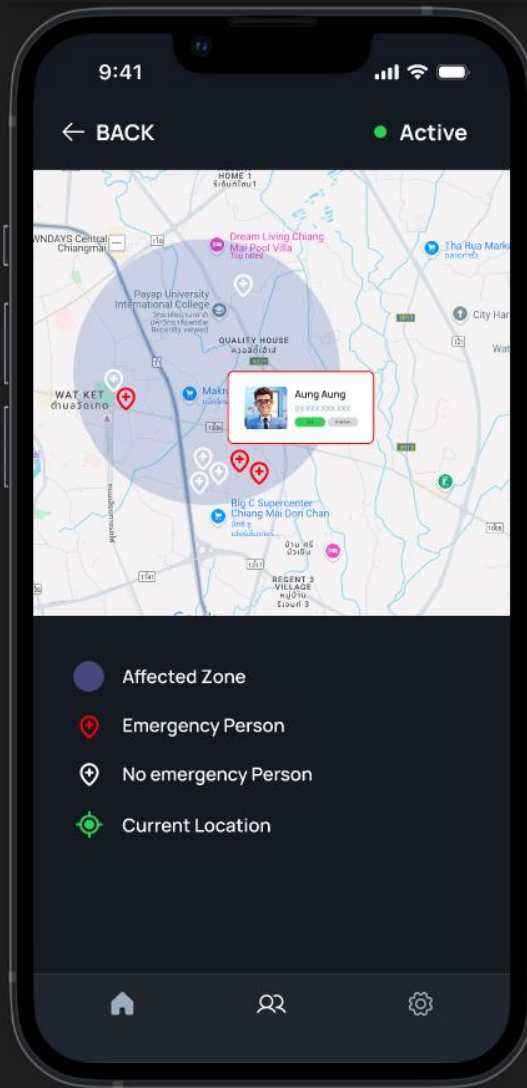


Rescue Team

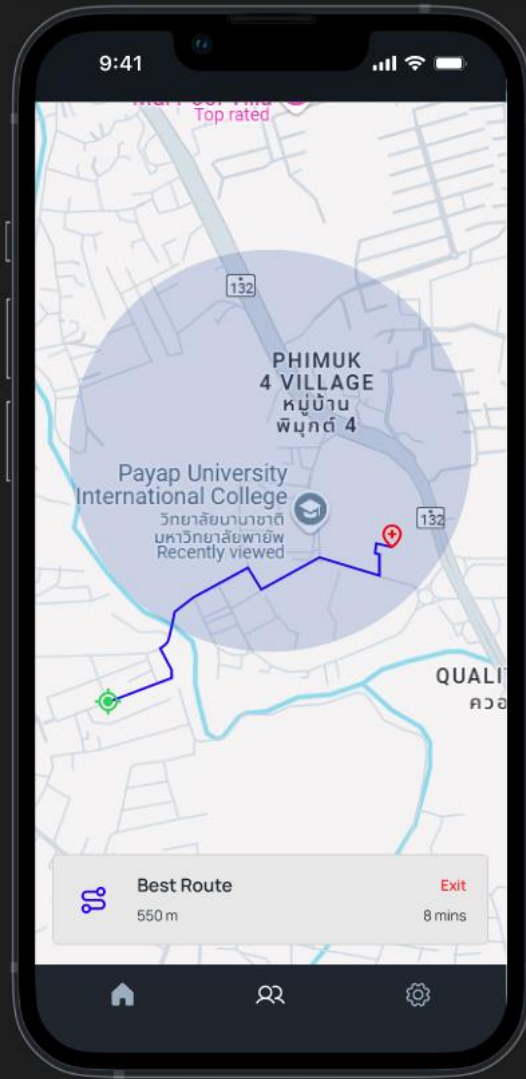
PROPOSED SOLUTION



Map



Victim Information



Route

MULTI-HOP MESH NETWORKING

- ✓ Every phone: A node (**Relay Station**)
- ✓ Messages hop device-to-device
- ✓ Works even in complete network outages

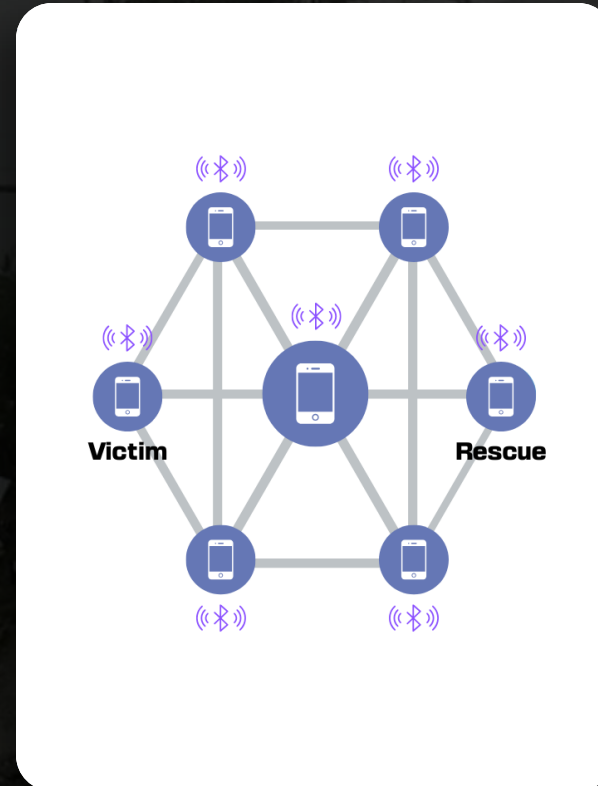
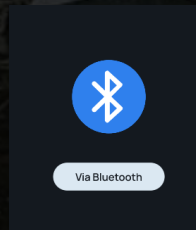
Challenge in internet breakdown areas

no internet = no app installation

Our Solution

Enable **Bluetooth File Sharing** to deliver the app **without internet**

App can be shared **phone-to-phone**

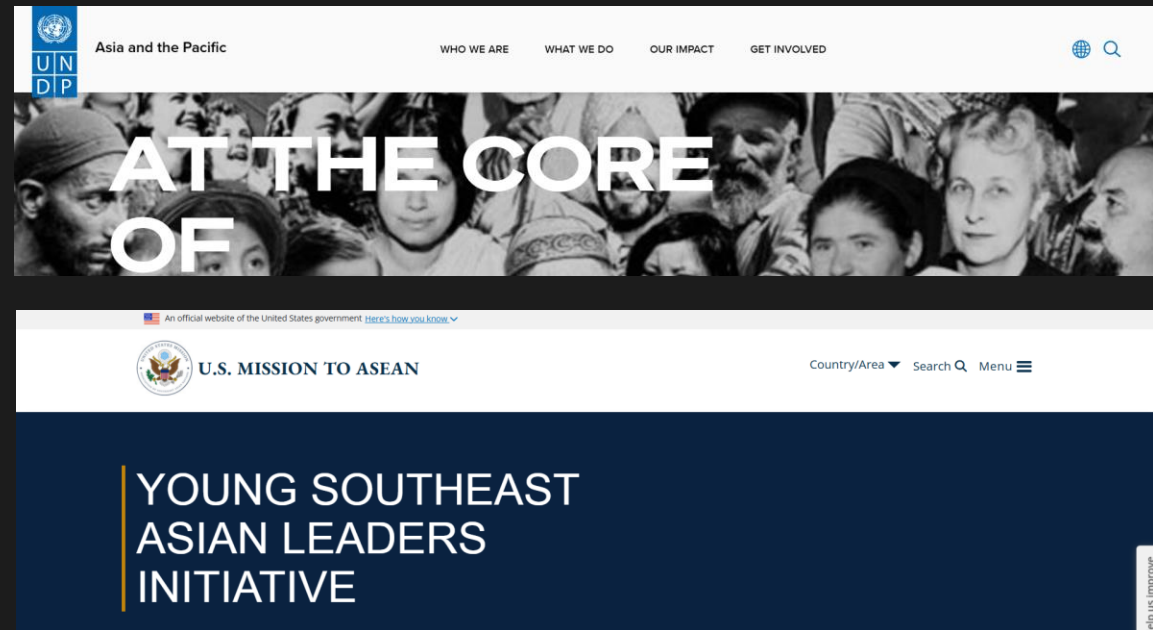


INTENDED IMPACT

❖ Reaching the Right People in the Right Places

In disaster situations, the biggest barrier is getting **life-saving tools** into the hands of those who need them most — quickly and effectively.

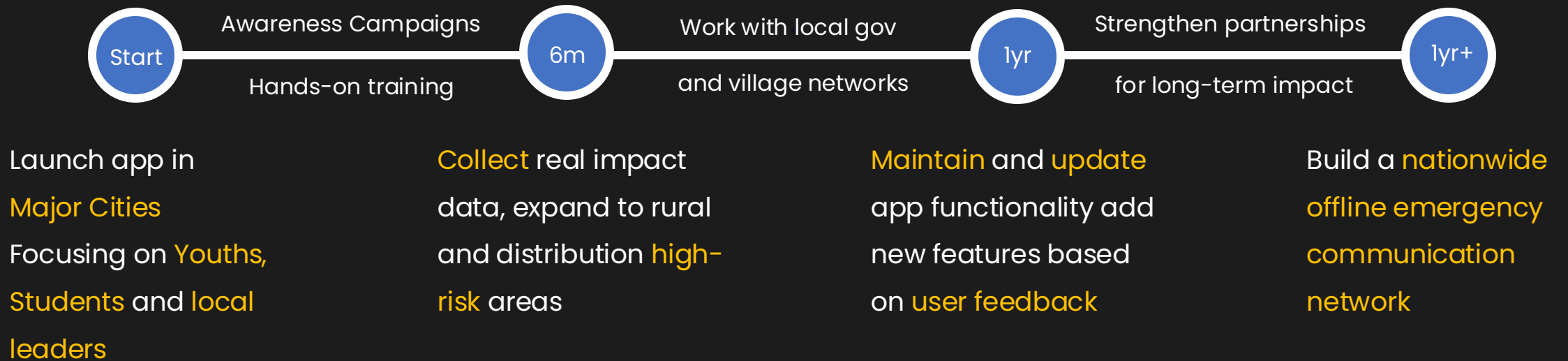
Poor infrastructure, limited internet, and low awareness make distribution across diverse regions a **critical challenge**.



❖ First Step to Overcome the Challenge

Partner with **Regional & International NGOs (Governance + Disaster Focus)** to initiate distribution efforts

FUTURE PLAN



THANKS FOR YOUR **ATTENTION**



Developed by skillfusion.tech

**QUICK RELIABLE AND LIFE-SAVING
SUPPORT AT YOUR FINGERTIPS**

