

# 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**.



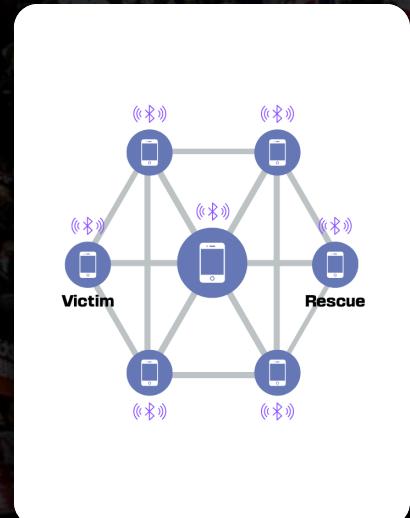
# USING BLUETOOTH MESH NETWORKING IN THE PAST

## DISASTER USE CASES

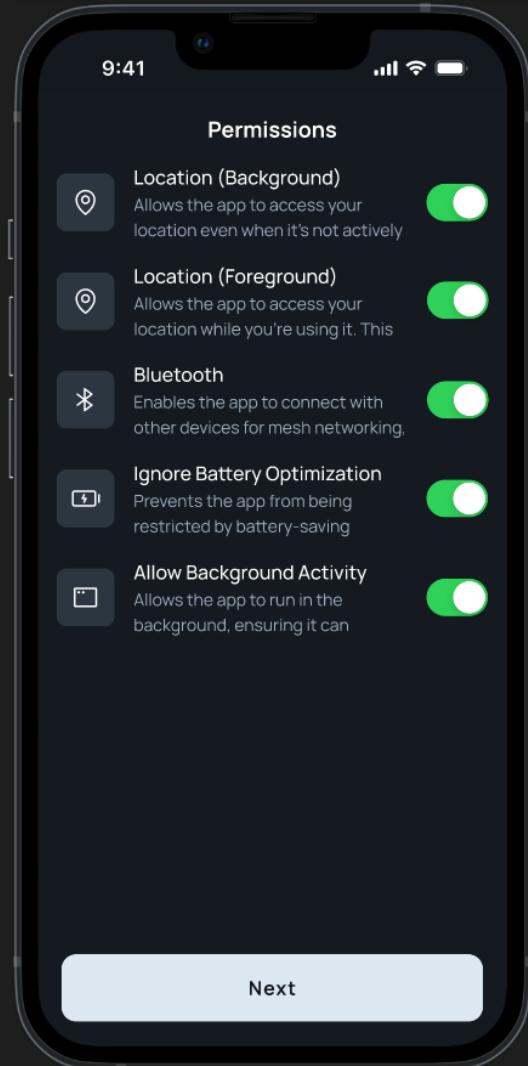
- ◆ Serval Mesh – Australia, Remote Areas
- ◆ GoTenna Mesh – Hurricane Maria 2017

## PROTEST USE CASES

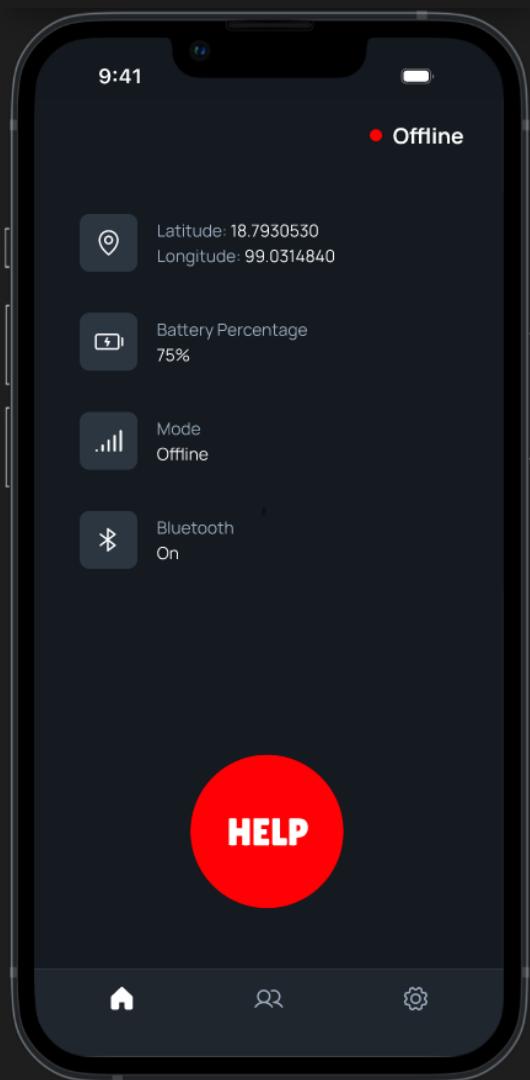
- ◆ FireChat – Hong Kong Protests (2014–2019)
- ◆ Bridgefy – Myanmar 2021 Military Coup



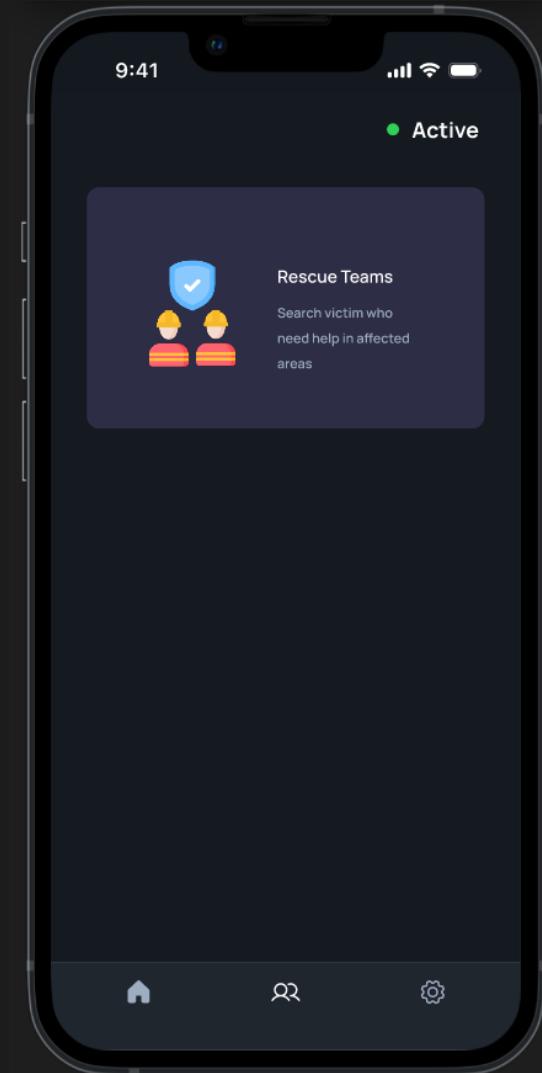
# PROPOSED SOLUTION



Permissions

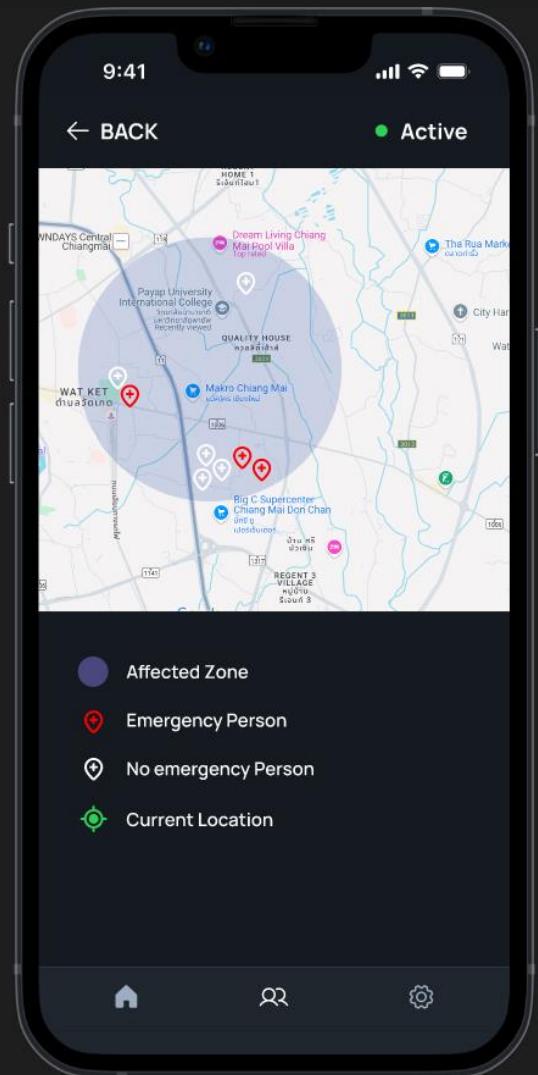


Home Screen

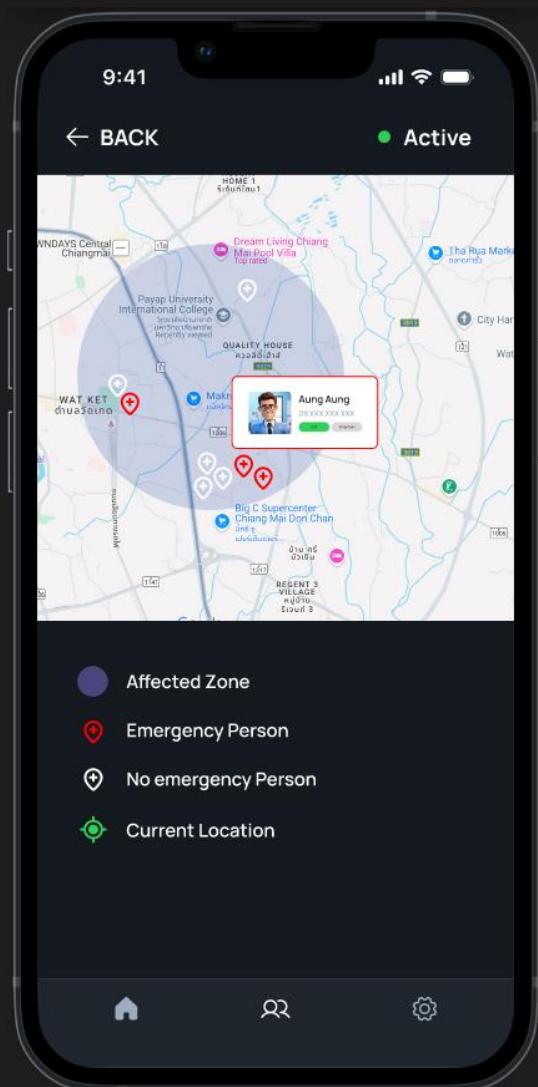


Rescue Team

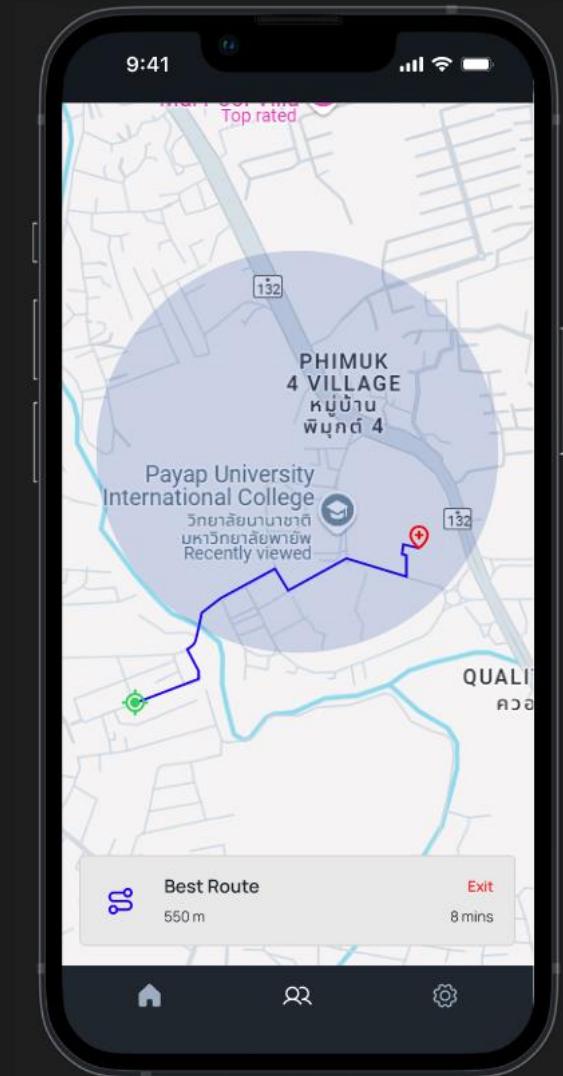
# PROPOSED SOLUTION



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**

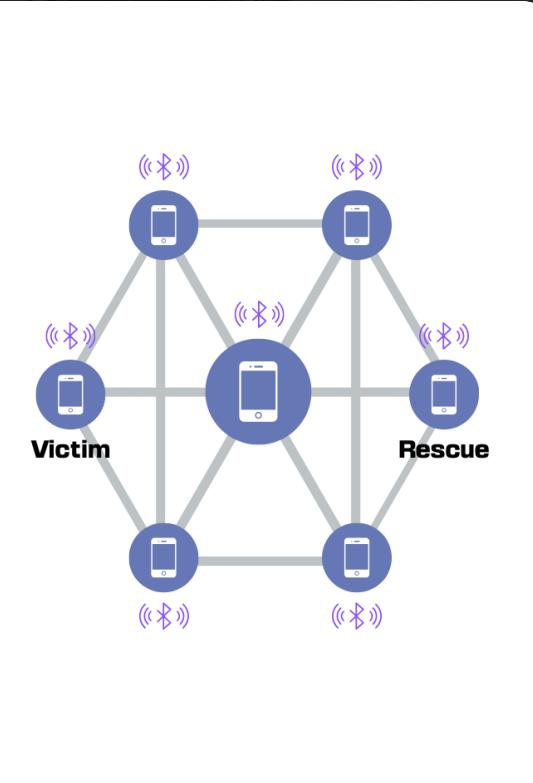
**no internet = no app installation**

## Our Solution

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



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

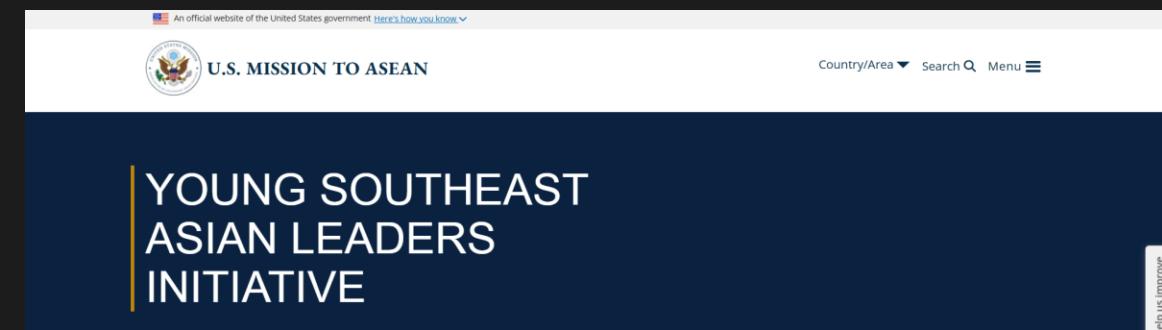
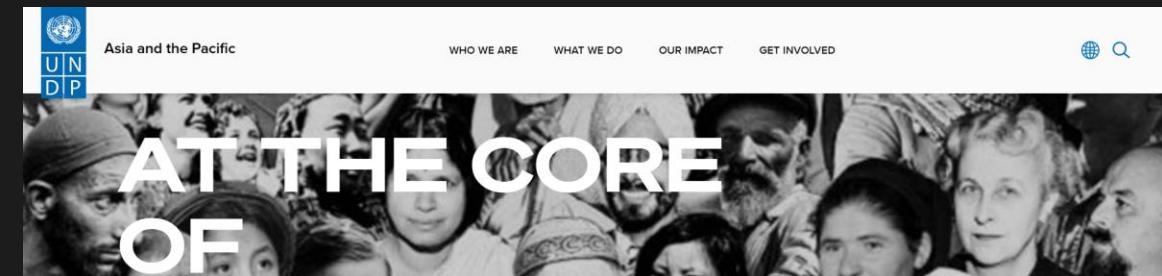


# INTENDED IMPACT

## ❖ 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.

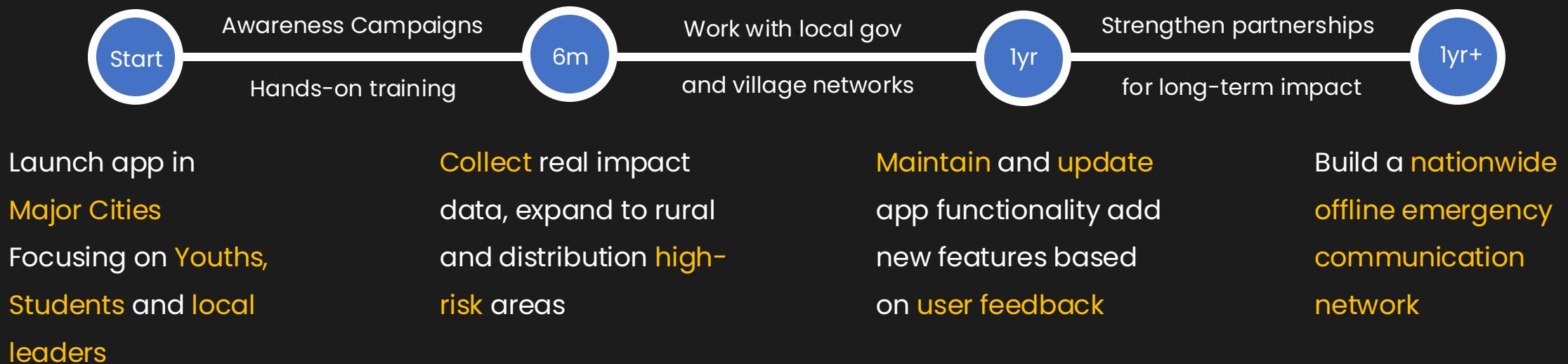
Poor infrastructure, limited internet, and low awareness make distribution across diverse regions a critical challenge.



## ❖ 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](https://skillfusion.tech)

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SUPPORT AT YOUR FINGERTIPS**

