



Why Communication?



Effective communication connects first responders, support systems, and family members with the communities and individuals immersed in the disaster. Reliable communication also plays a key role in a community's resilience.

- Effective Communication During Disasters



Two Main Aspects

Q

Finding necessary information



Staying Connected

Target Audience

Communities



Why Communities?

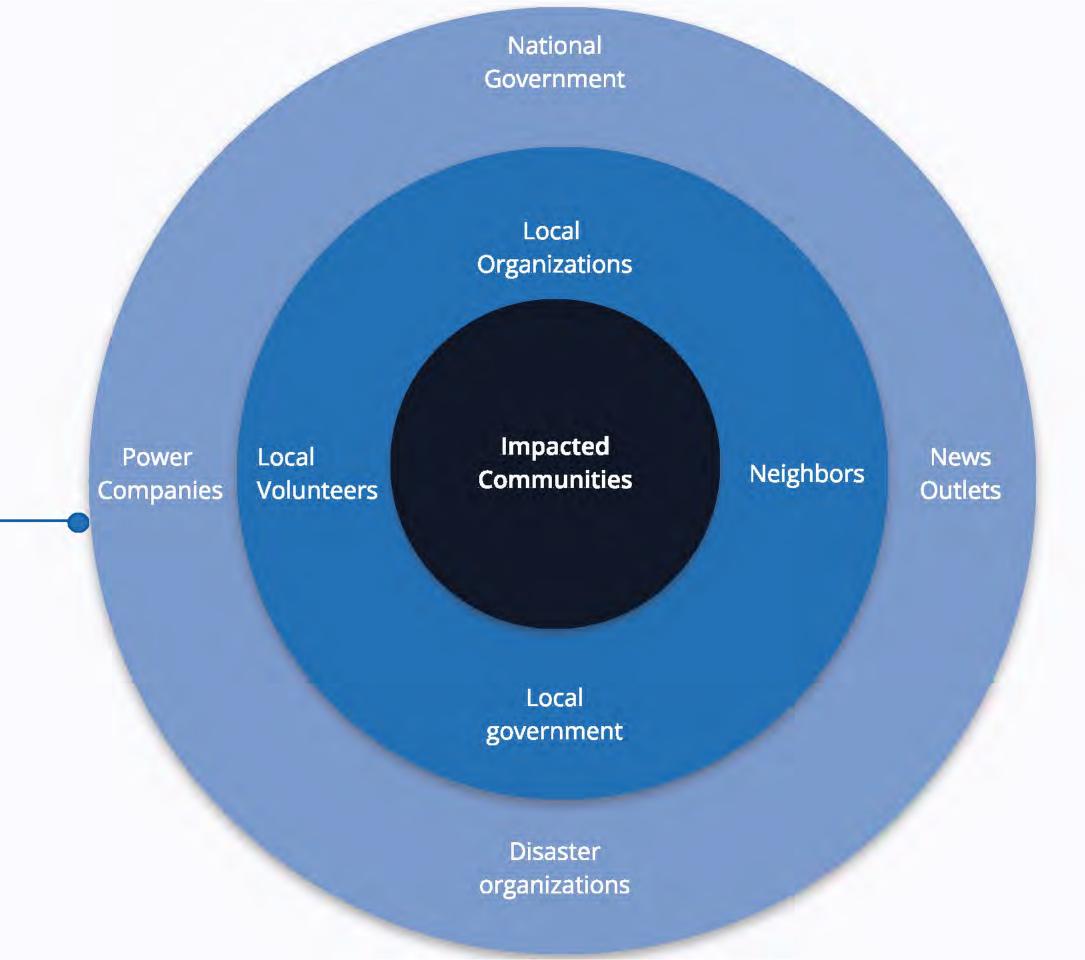


People are hard-wired to come together as a community after disasters... most search and rescue after a disaster is done by people in their communities, long before professionals arrive.

- Mitch Stripling, assistant commissioner of Agency Preparedness and Response



Stakeholder Map



Main Research Areas



Determine how people plan for natural disasters



Find
communication
platforms people
use during a natural
disaster



Discover existing information channels



Identify relationship between intensity of situation and need for communication support

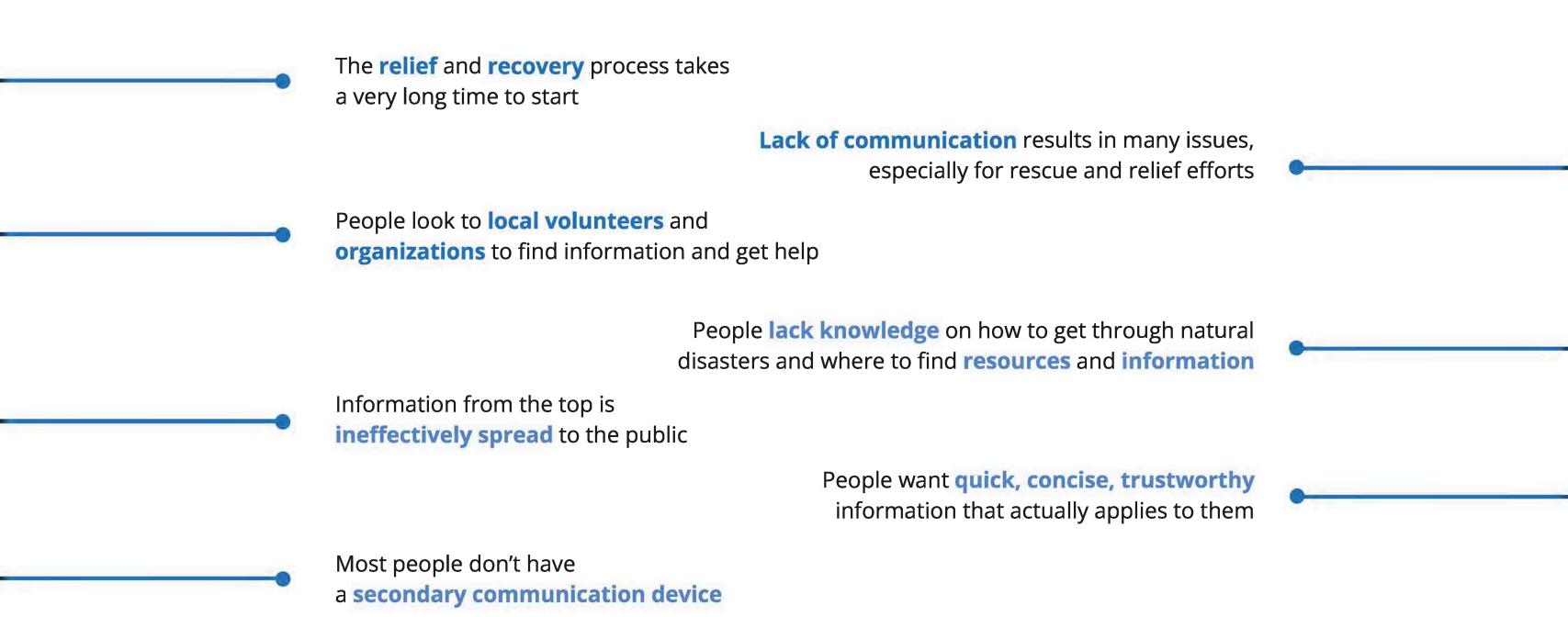


See ways to provide a safe enviornment for people in a disaster

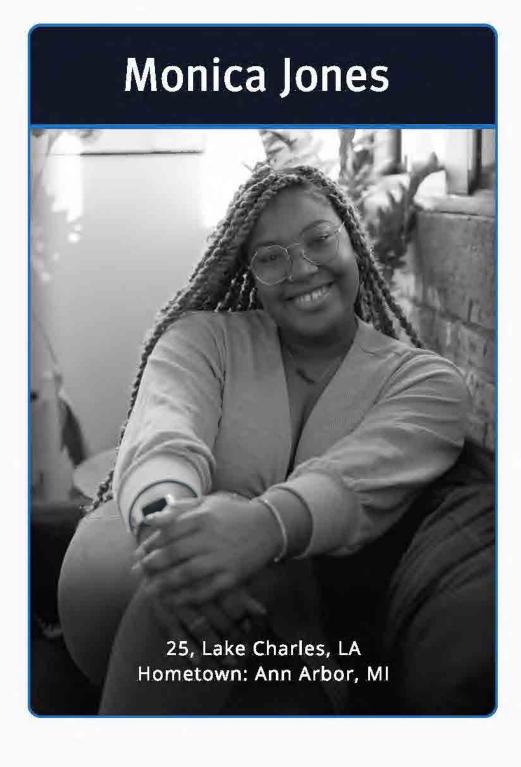
Methods



Key Insights



Persona



"Natural Disasters don't scare me, but I've never had to go through one alone and I don't know what to do."

Biography

Monica is a 25 year old nurse living in Lake Charles, Louisiana. She is originally from Michigan and has no prior experience dealing with natural disasters. She finds out a hurricane is coming and she feels very worried and doesn't know what to do.

Painpoints

- · Has never dealt with a natural disaster on her own
- Doesn't know where to look for reliable information
- Living in an unfamiliar place on her own
- Doesn't know local disaster procedures

Needs

- Centralized, reliable source of information
- · Help finding resources in the area
- Guidance from locals
- A way to contact help in an emergency

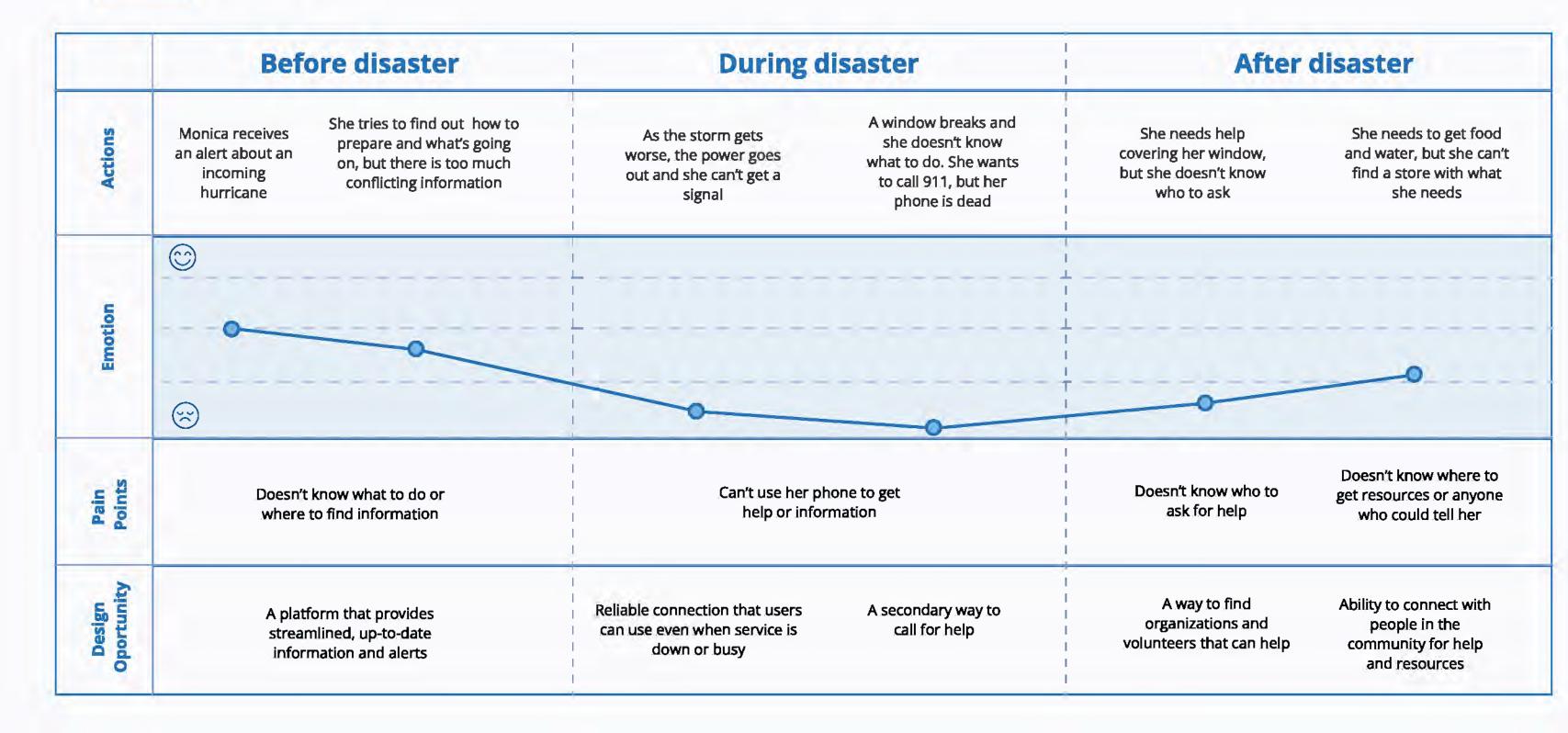
Current information channels







User Journey Map



How Might We...

HMW provide centralized, trustworthy, concise information in real time?

HMW provide a reliable, accessible, alternative form of communication?

HMW help people get the resources and information they need throughout a disaster?

HMW help people prepare and plan for natural disasters effectively?

HMW connect people with local volunteers and organizations for help and information?





HMW provide a **centralized** source for **reliable** disaster information and communication?

What is node?

Devices

- Create a decentralized, self-sufficient wireless network
- Secondary form of emergency communication

Application

- Emergency messages
- Up-to-date news and alerts
- Important resource mapping and navigation
- Connection to volunteers and community



Node





0.3 - 0.6 miles



Always stays connected to other nodes and beacons



Can work as a stand-alone voice communciation device

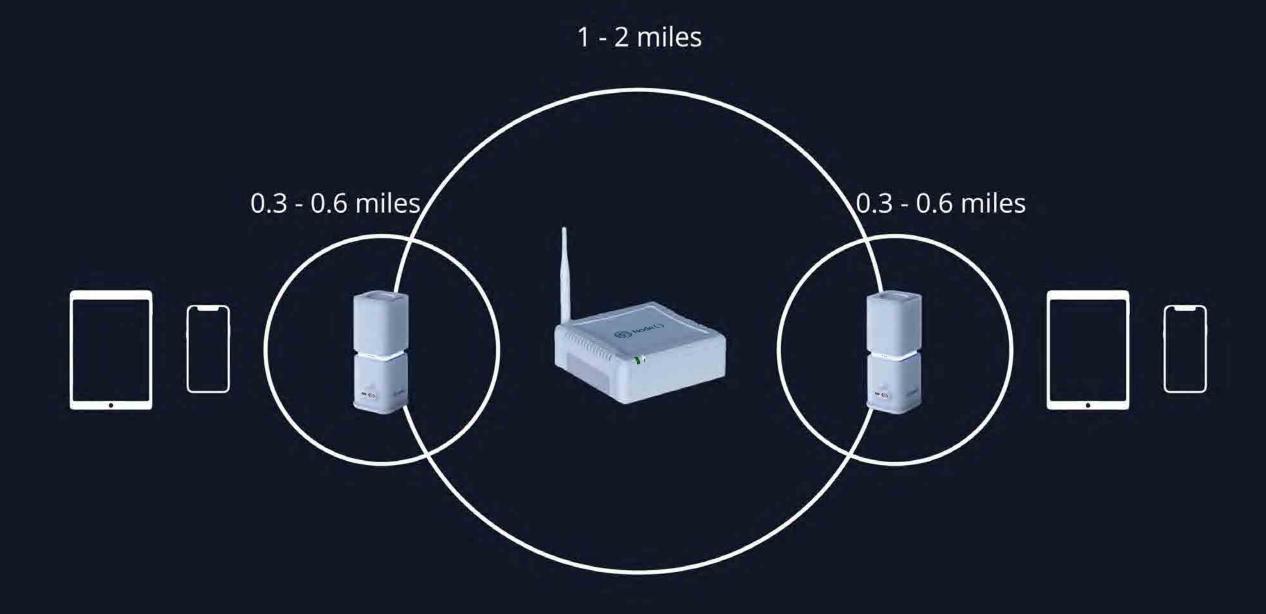
SOS Twist to contact emergency help

How does it work











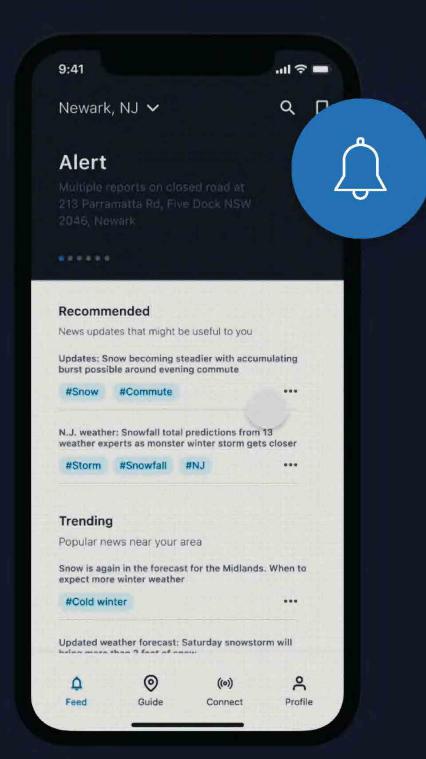
- Organizations set up beacons around the area
- Set up in public spaces



Node(Feed)

News Update
Users recieve credible, up-to-date news alerts

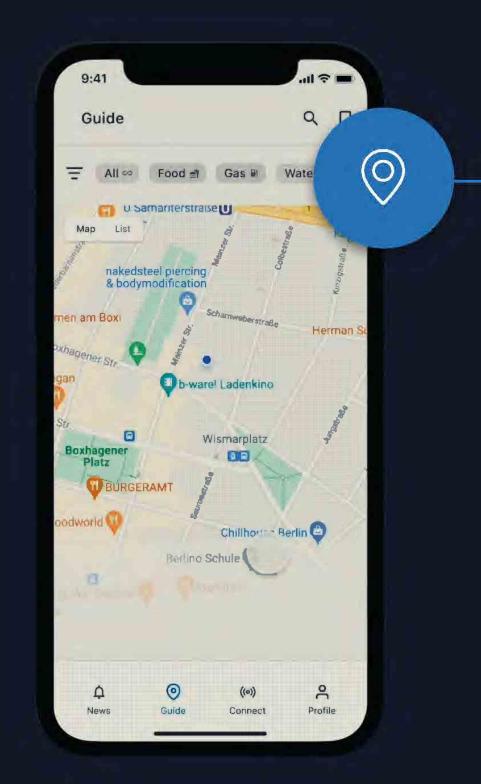




Node(Guide)

Guide

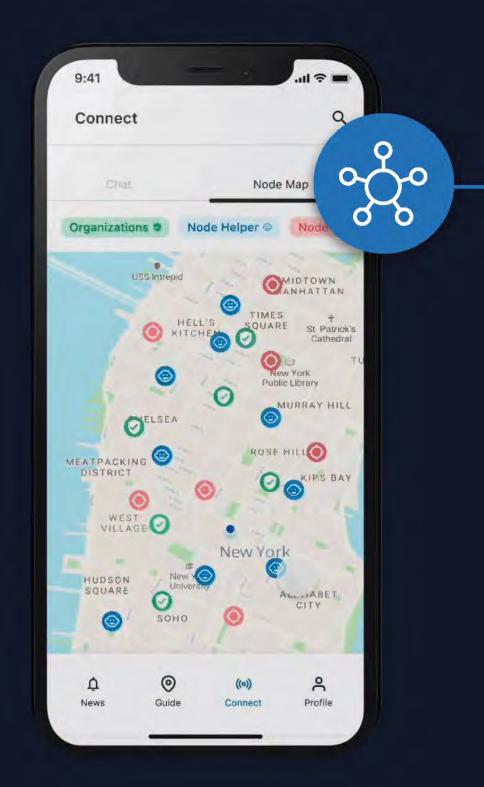
Provides users with a way to find necessary resources in their area vetted by members of the community



Node(Connect)

Connect

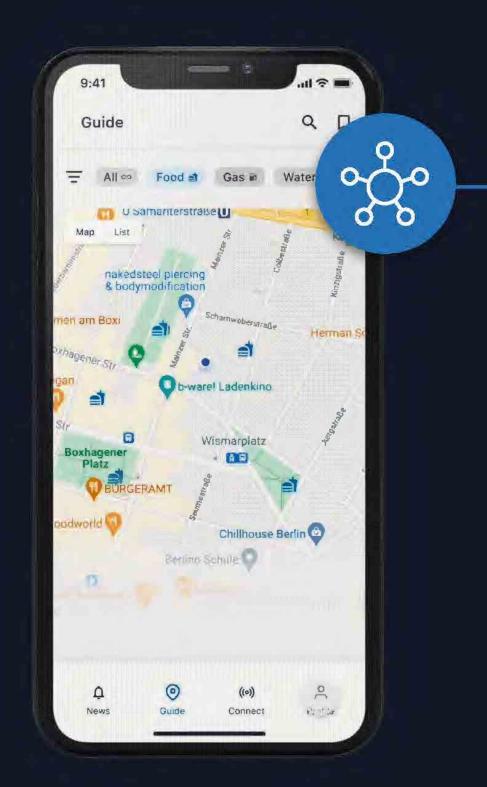
The Node device uses mesh network technology to keep users connected and able to get help

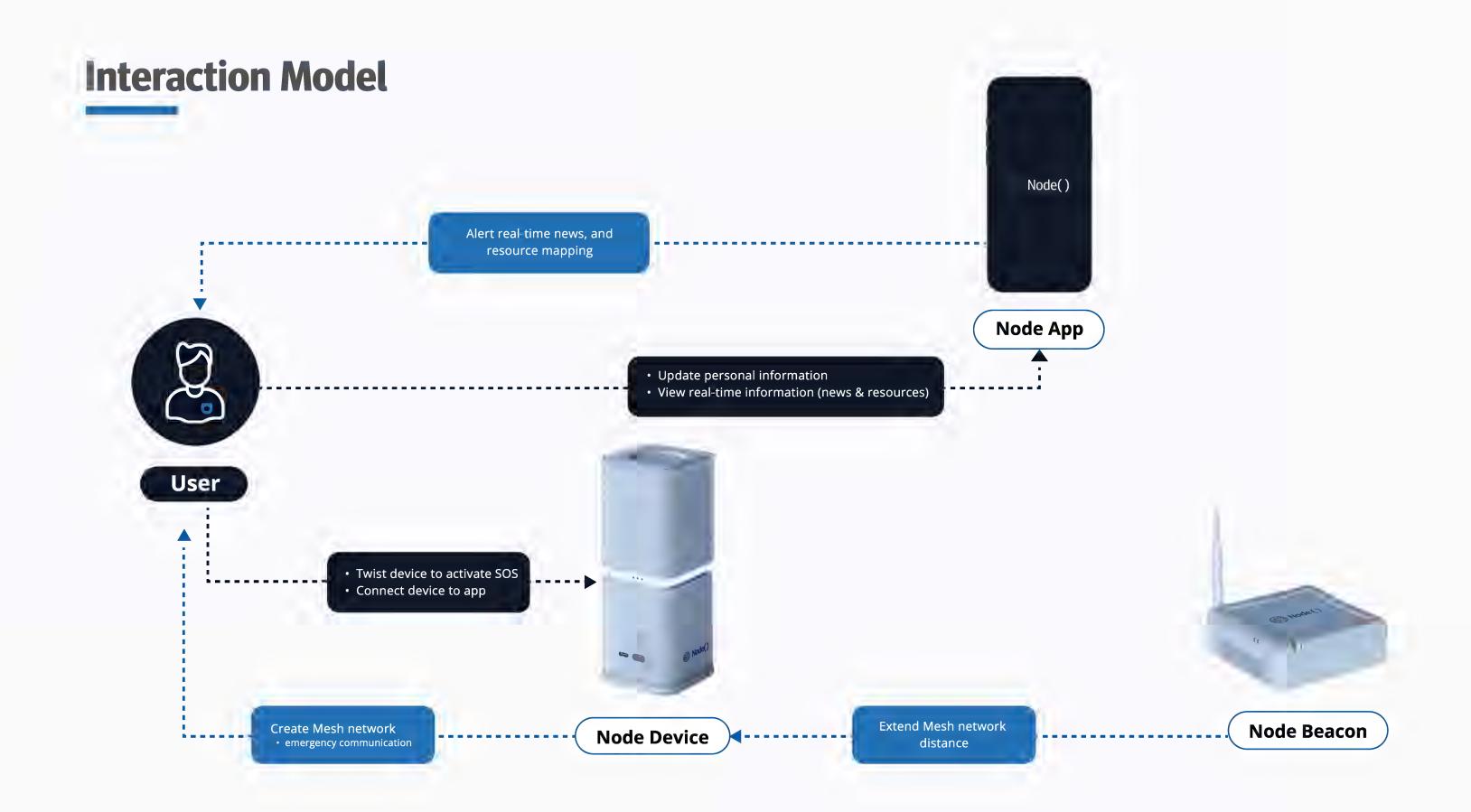


Node(Connect)

Connect

The Node device uses mesh network technology to keep users connected and able to get help





Monica's Journey with Node



Monica receives an alert about an incoming hurricane



She goes onto the Node app and finds all of the information she needs about the storm.



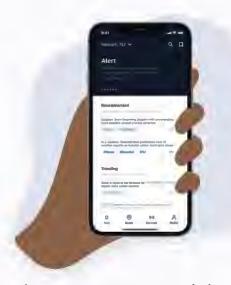
She also finds where to get gas and other resources she needs with the best routes to get there.



Monica went to the grocery store Node suggested and was able to find everything she needed. She upvotes it to notify other users that it is a good place to go.



When Monica gets back home, she feels much more prepared and waits for the storm to hit.



After a while, the power goes out and she has no service, but Monica isnt worried because Node keeps her up-to-date on the latest news and alerts. She's also able to still get emergency help using the Node network.

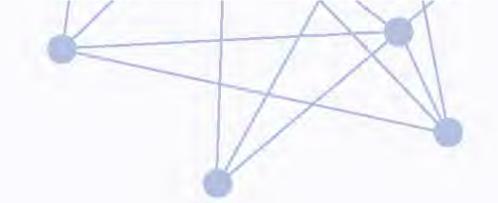


When her window breaks, and she realizes her phone is dead, she twists her device to contact emergency help. A local disaster organization talks to her with the walkietalkie and tells her what to do



Eventually, she needs more resources and Node let's her know where to find them and the safest routes avoiding any road closures and debris.

Pricing Model





Business to Consumer

Individual Plan

 Individuals can purchase a Node for their personal use

Family plan

 Families can buy Nodes for up to four family members and save more



Business to Business

- City government and organizations can contact us for a quote
- Scalable pricing
- Product sold at cost

Business Plan

Employee Cost Marketing Cost

Key partners	Value propositions	Key activities	Customer relationships	Customer Segments
Natural Disaster hotlines 911 Government Agencies Local organizations & volunteers Local disaster services Communities	 Risk reduction during natural disasters Trustworthy and essential information only for users Reduced panic and worry by providing, up-to-date, reliable news based on location, as well as resource mapping 	 Platform to connect with necessary resources Services that help users get through natural disasters smoothly Streamlined information based on location and need 	Co-Creation: Interactive map where users can create a better experience, for example voting on whether a store has important resources people are looking for	 Mass market: People who are not used to going through natural disaster live far away from support network, want specific disaster guidance Communities using Node for help and safety
Motivations for Partnerships	 Reliable form of communication utilizing radio and mesh network technology for users to get help 	Key resource	Community:Radio and app connect users to local	Channels
Optimization in spreading news and alerts Reduction of traffic Focus on people who really need help Expedited relief and recovery	 and stay in the loop Increased customization and improved usability from current solutions 	 Physical product Intellectual resources, such as data collection and news filtering Human resources; reliable communication and local resources 	community for help, updates, and safety	 Partner channels: Local disaster services, natura disaster hotlines, resource distribution locations Website Social media Instagram and Twitter
Cost structure		Revenue streams		4.



Node()

Reliable Disaster Communication











