

- 18-45 years old
- Class BCD
- Flood-prone areas

I'm Van, 21 (B) from Marikina, and this is my story.

and just last week, Typhoon Carina.

It's the same story each time, **but it never ends**.

Persona

- Van and her family have victims to floods for years; from flooding in Typhoon Ondoy, to Typhoon Ulysses,

An average of **97,000 Filipinos** are displaced in floods.

(Save the Children Philippines, 2024)



Every year, **372,000 Filipinos** lose their lives to drowning in floods.

(Martinez et al., 2016)



Philippine floods can destroy 925,000 homes and buildings.



211,000 displaced Pinoys

P9.7 million in agricultural damage

AULOG TRA

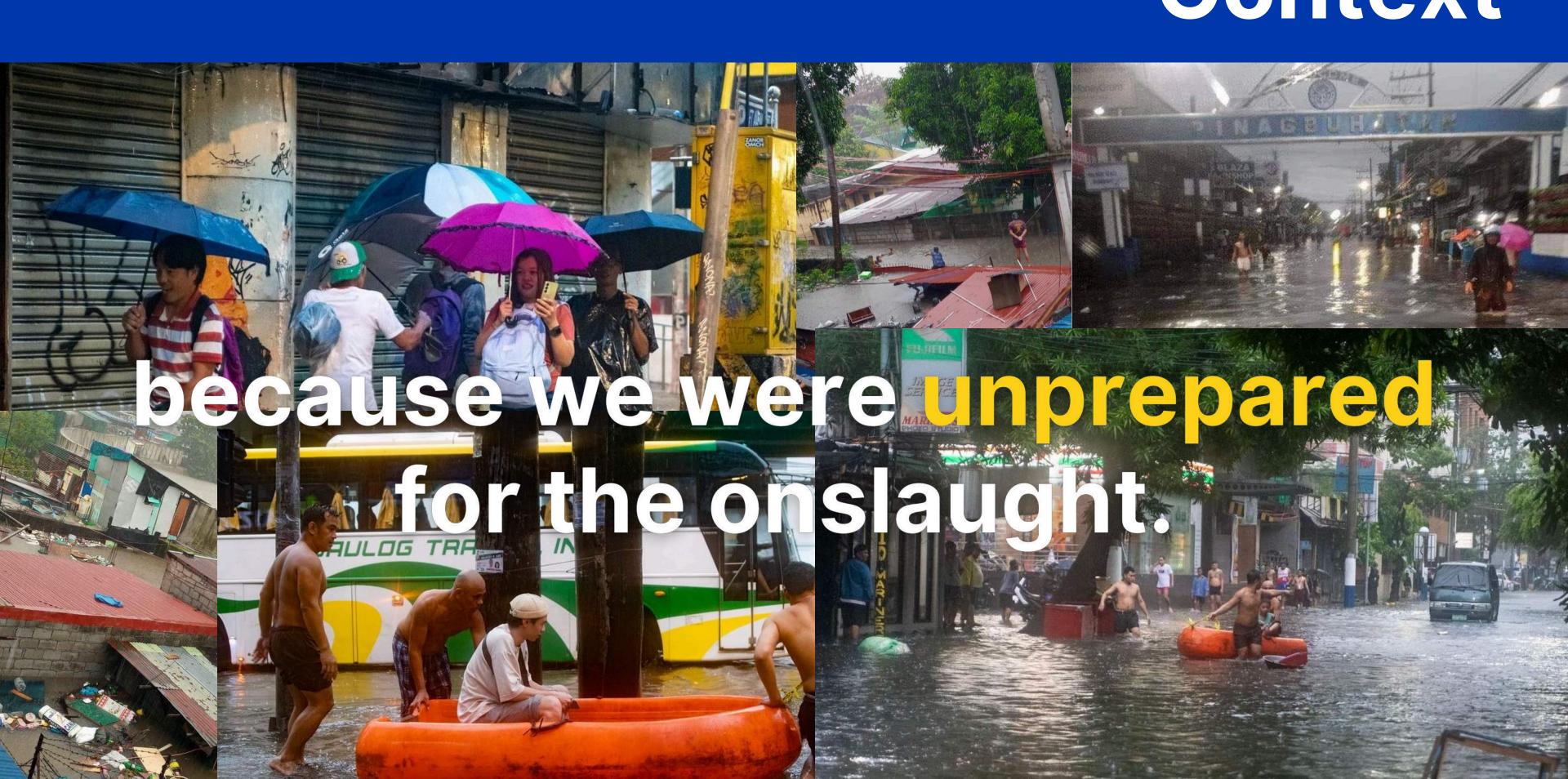
(Mangaluz, 2024)

Allef the in leday...

Context

1.3M Pinoys affected









SDG 11: Sustainable Cities & Communities

How might we enhance Philippines cities' climate resilience and enhance emergency responsiveness, effectively meeting residents' needs amid climate change challenges?

Problem Statement

Based on over 10 consumer insight interviews:

TIMEFRAME

PRE-FLOOD

DURING FLOOD

POST-FLOOD



Lacking or delayed warnings for flood prevention

Scattered avenues for assistance, lack of accountability in rescue help

LGU's delayed response in relief operations and aid

Root Causes



Inaccessible warnings and forecasting

No user-driven reporting mechanism

Non-centralized and standardized LGU response system



Tutok **baha**y-bah**ai**!

Real-time **E**vacuation **S**urveillance **P**latform for **O**perational **N**avigation in Flood-Related **D**isasters and **E**mergencies

An **integrated flood resilience system** designed to protect Philippine communities from the devastating impacts of floods through 2 distinct but interconnected components for LGU dashboard and citizen portal, combining:



Startup Introduction

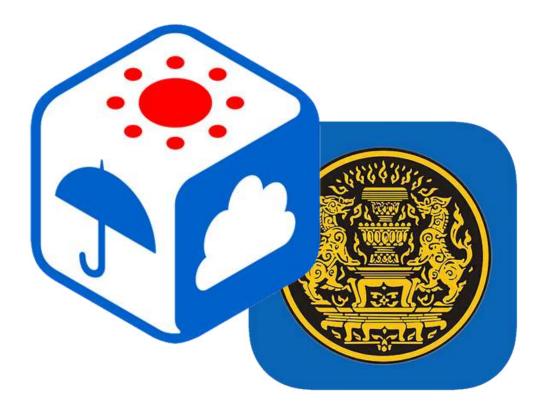
Drone camera feed

Climate data



System Flow

This integrates multi-modal data sources with AI algorithms to provide EWS, real-time alerts, and predictive weather risk data inspired by:



EARLY WARNINGS

Tenki (Japan) Water4Thai (Thailand)



LIVE UPDATES & ALERTS Citizen (U.S.) ubAlert (U.S.)







RISK & FORECASTING WeatherNews Inc (Japan)

Unique Selling Points

Existing mechanism	Gap	
NDRRMC text alerts	Warnings often delayed or too repetitive (Tomacruz, 2018)	 Work delive disse Incor provi
LGU emergency typhoon hotlines	Alone does not ensure accountability in deploying dispatch team immediately	Allows fo deploym
PAGASA and NOAH flood mapping	Not considered accessible or easy to navigate	Makes a and <mark>dige</mark>

RESPONDE PH

- ks with telcos to ensure prompt very and NDRRMC for **information emination**
- rporates **forecasting** technology to ride early warnings
- or live-monitoring of **aid and**
- all required information accessible estible



Pasig City, NCR

Home Page

Forecasting Map View Incident Summary

Live Chat

Rescue Navigator



Tutok **baha**y-bah**ai**!



Home Page

Forecasting

Map View Incident Summary

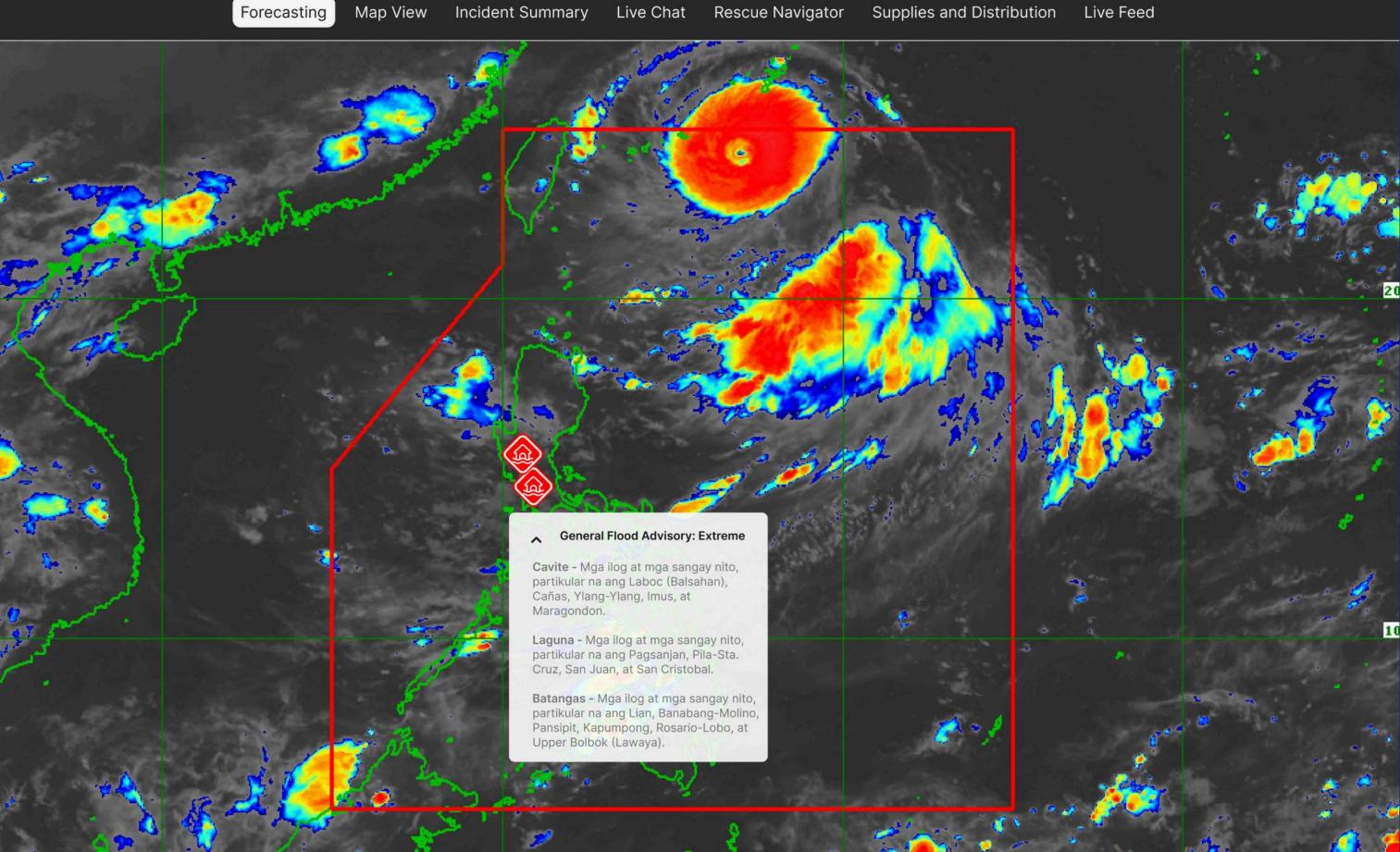
Live Chat

Rescue Navigator





Pasig City, NCR







Rescue Navigator

Supplies and Distribution

Live Feed

Home Page Forecasting Map View

Incident Summary

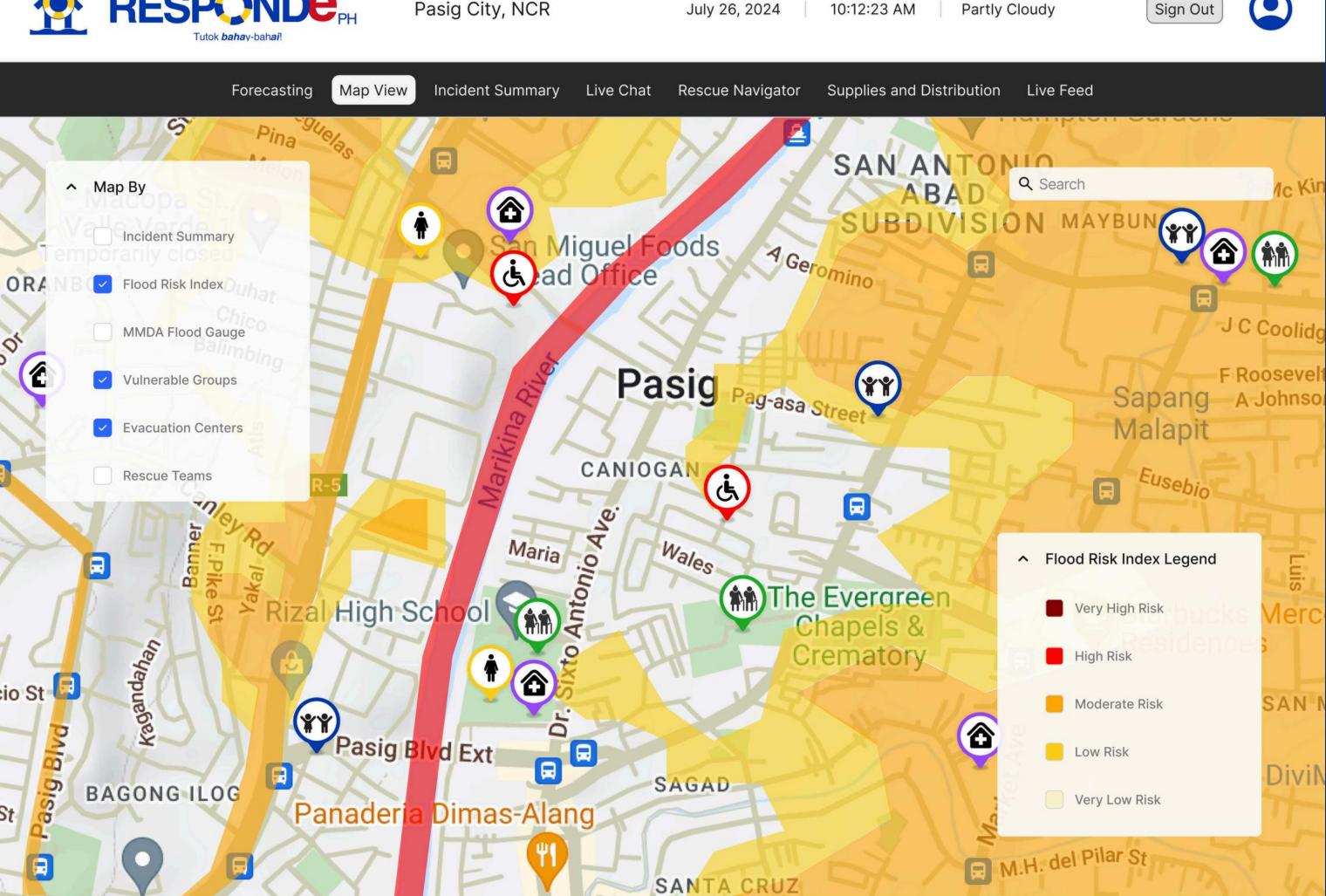
Live Chat

Rescue Navigator





Pasig City, NCR

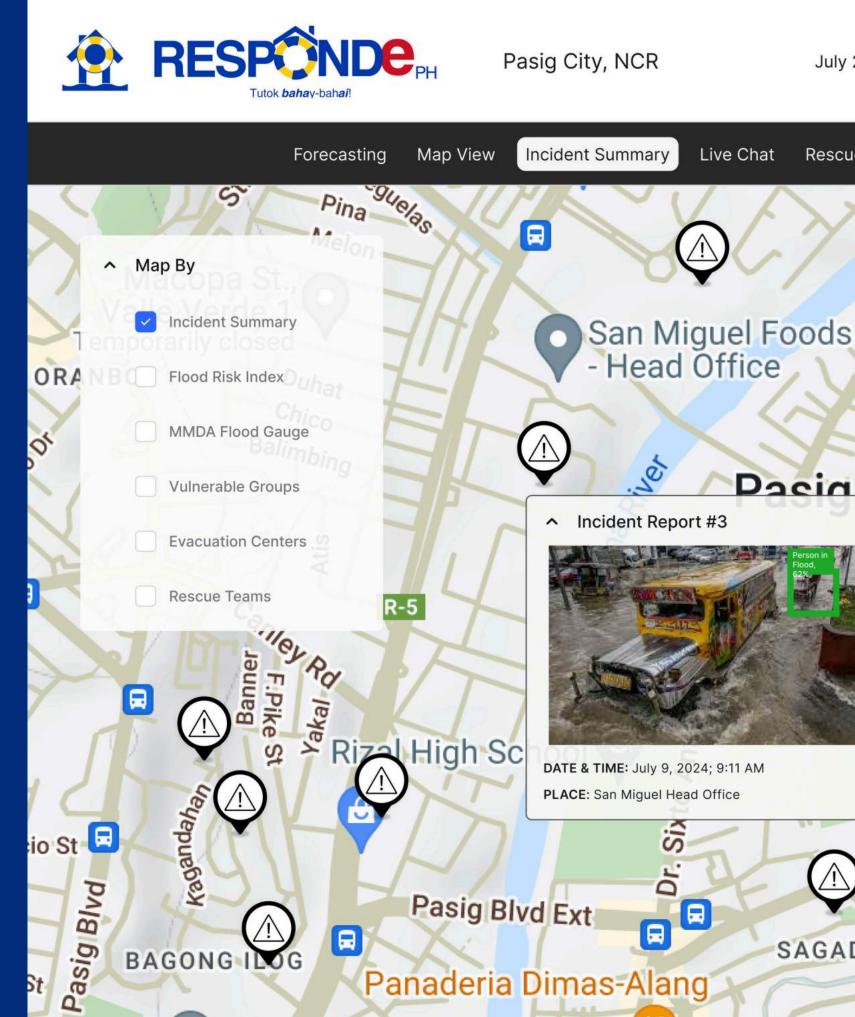


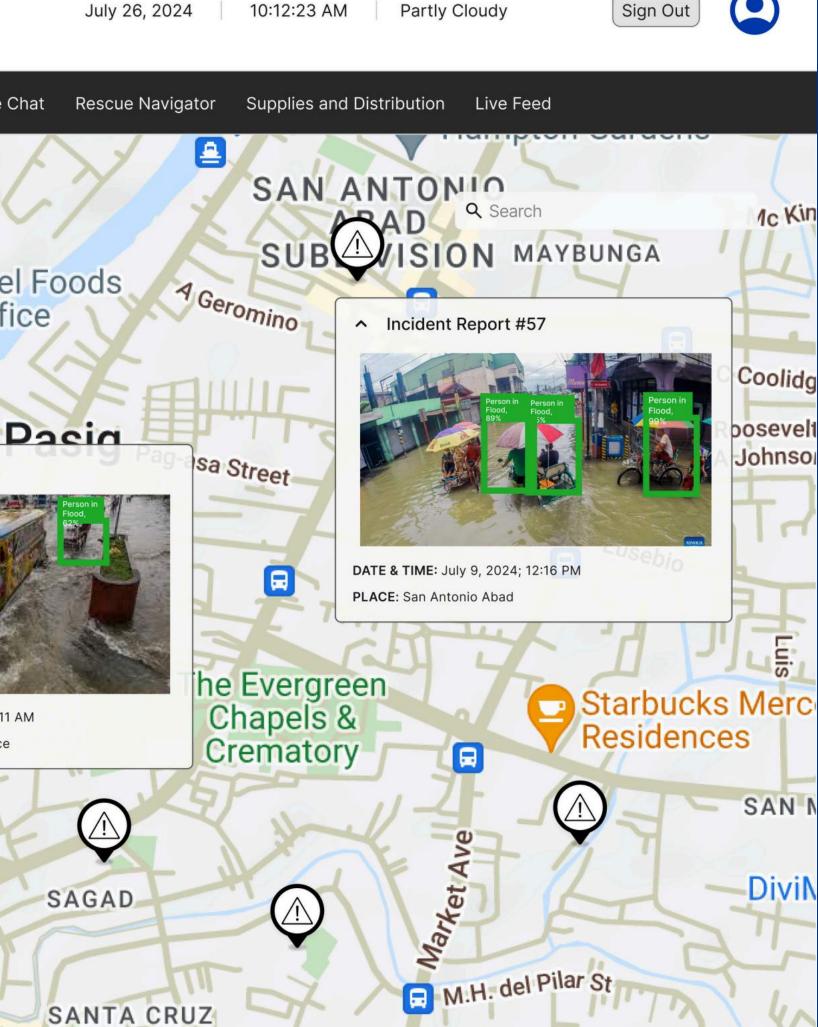
Home Page Forecasting Map View

Incident Summary

Live Chat Rescue Navigator







Home Page Forecasting Map View Incident

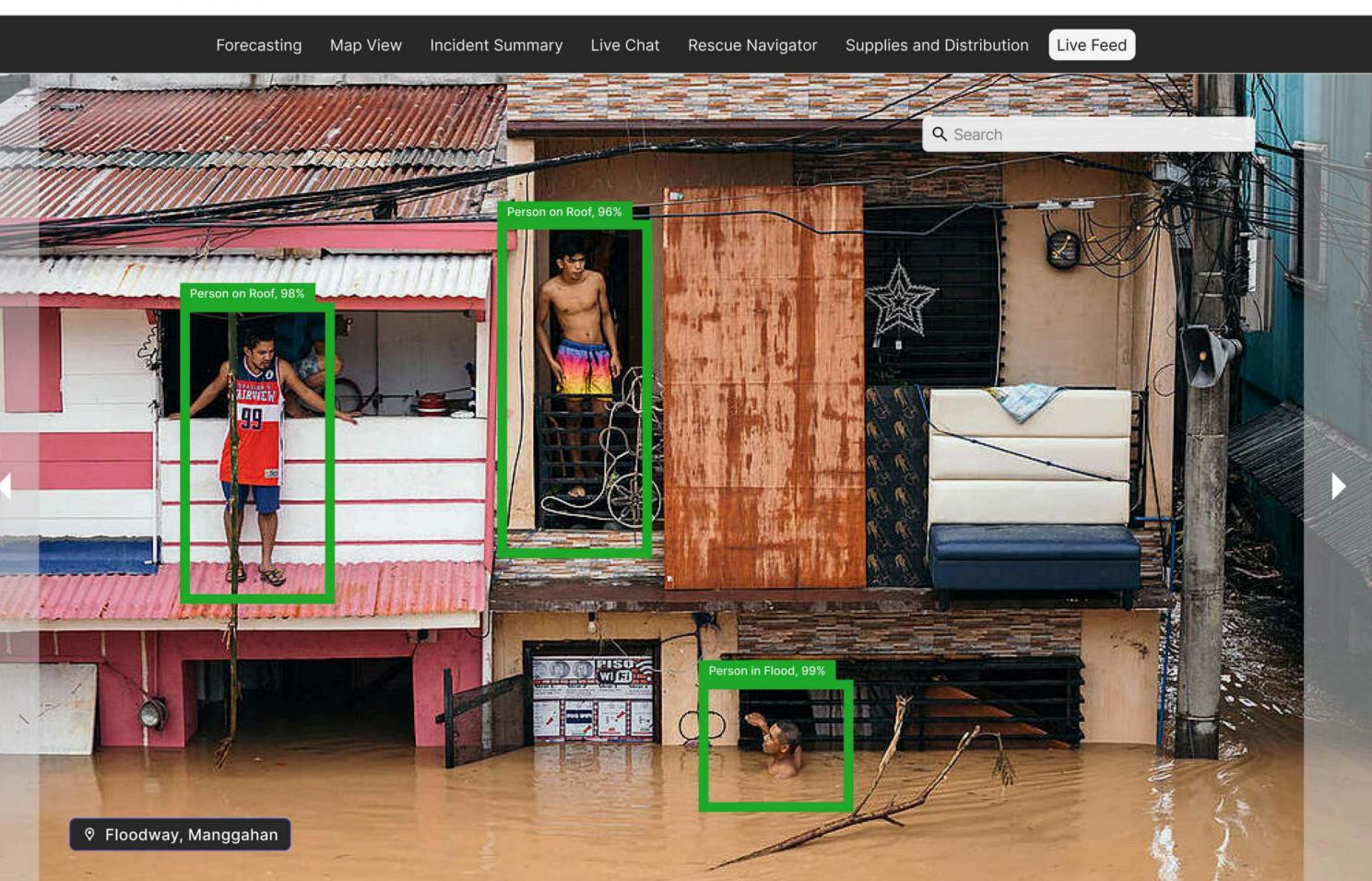
Summary

Live Chat Rescue Navigator





Pasig City, NCR









Pasig City, NCR

Detail

Forecasting

Map View

Incident Summary Live Chat

Table

Rescue Navigator Supplies and Distribution Live Feed

Home Page Forecasting

Map View

Incident Summary

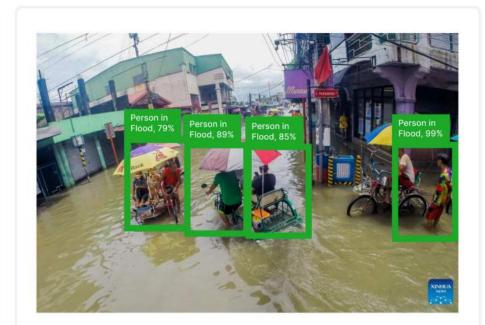
Live Chat Rescue Navigator



INCIDENT SUMMARY



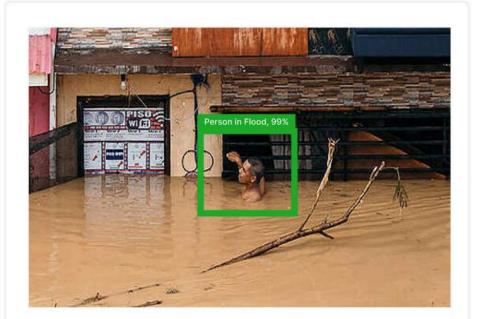
DATE & TIME: July 11, 2024; 2:37 PM PLACE: Floodway, Manggahan



DATE & TIME: July 9, 2024; 12:16 PM PLACE: Tramo, Rosario



DATE & TIME: July 14, 2024; 10:52 AM



DATE & TIME: July 14, 2024; 10:52 AM









DATE & TIME: July 14, 2024; 10:52 AM PLACE: Bliss, Sta. Lucia



DATE & TIME: July 21, 2024; 5:49 PM

Home Page Forecasting Map View Incident Summary

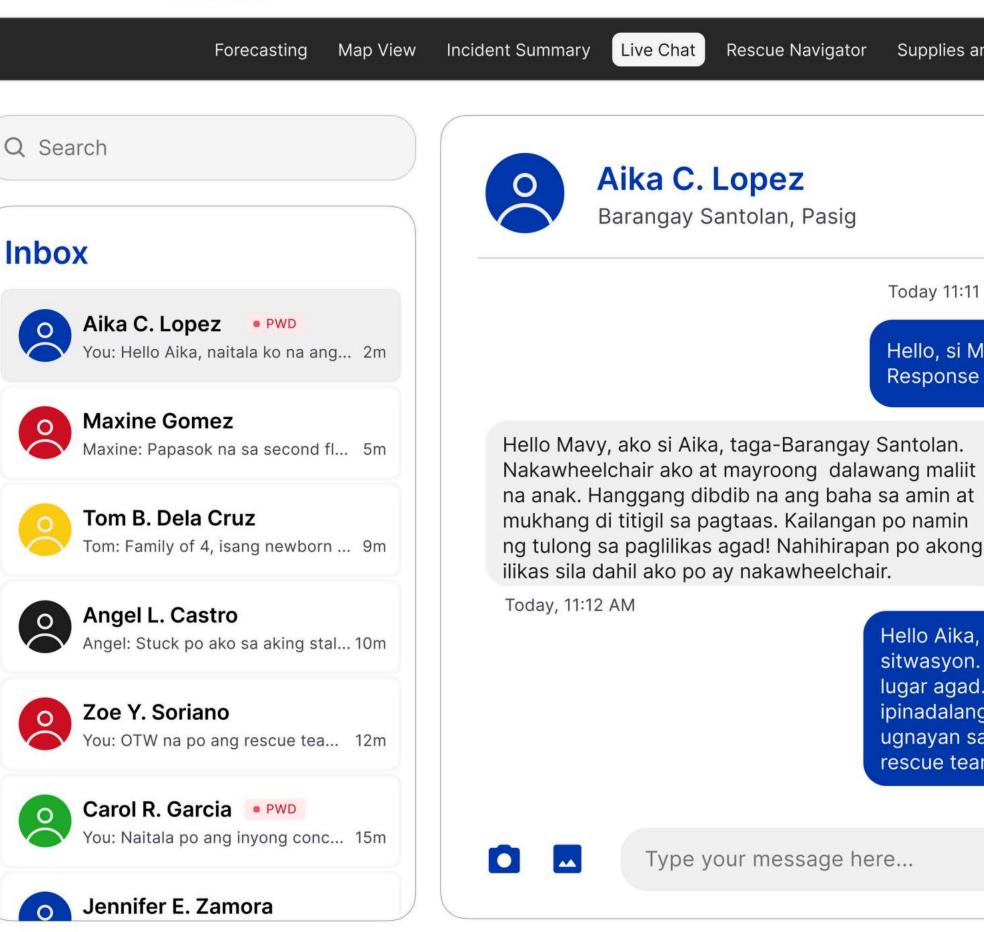
Live Chat

Rescue Navigator





Pasig City, NCR







Rescue Navigator Supplies and Distribution Live Feed

Today 11:11 AM

Hello, si Mavy ito mula sa Pasig Emergency Response Unit. Ano ang iyong emergency?

Hello Aika, naitala ko na ang iyong lokasyon at sitwasyon. Nagpapadala na kami ng team sa iyong lugar agad. Bibigyan kita ng update tungkol sa ipinadalang rescue team. Manatiling makipagugnayan sa amin hangga't di dumadating ang rescue team.

Sent 2m ago

Type your message here...



Pasig City, NCR

Map View Incident Summary Forecasting

Live Chat

Home Page

Forecasting

Map View

Incident Summary

Live Chat

Rescue **Navigator**



PRIORITY RESCUE IDENTIFIER

	T A	II 🖌 Q Search			+ New Entry
All 19	Vulne	erable 4 Healthy Adult 4 Pet or Pl	ant 2 Archived 9		
0	# \$	NAME 🌩	PROFILE 1	CATEGORY 🜲	LOCATION (
\bigcirc	1	Jieun Lee	Female, Senior Citizen, With Comorbidities	Vulnerable	Rainforest Drive, Maybunga, Pasig City
	2	Chappell Roan	Female, Middle-Aged, Mother of 2	Healthy Adult	Jenny's Avenue, Rosario, Pasig City
	3	Solar	Dog: Shih-Tzu, Brown and White Fur	Pet or Plant	Camia St., De Castro Subdivision, Sta. Lucia, Pasig City
	4	Sean Catacutan	Male, Young Adult	Healthy Adult	Nile Bldg., Riverfront Residences, Caniogan, Pasig City
	5	Mary Loi Yves Ricalde	Female, PWD: Difficulty Hearing, Young Adult	Vulnerable	Monggo St., Napico Subdivision, Manggahan, Pasig City
	6	Kai	Cat: Siamese, White Fur	Pet or Plant	Nile Bldg., Riverfront Residences, Caniogan, Pasig City
0	7	Justin Paolo Canlas	Male, Middle-Aged, Father of 3	Healthy Adult	Camia St., De Castro Subdivision, Sta. Lucia, Pasig City
	8	Ma. Nicolette Vergara	Female, Child	• Vulnerable	Monggo St., Napico Subdivision, Manggahan, Pasig City
0	9	Ignatius Loyola III	Male, Senior Citizen, With Comorbidities	• Vulnerable	Jenny's Avenue, Rosario, Pasig City
0	10	lan Arceta	Male, Young Adult	Healthy Adult	Rainforest Drive, Maybunga, Pasig City





~

Rescue Navigator Supplies and Distribution Live Feed



Pasig City, NCR

Map View Incident Summary Forecasting

Live Chat

Home Page

Forecasting

Map View

Incident Summary

Live Chat

Rescue **Navigator**



PRIORITY RESCUE IDENTIFIER

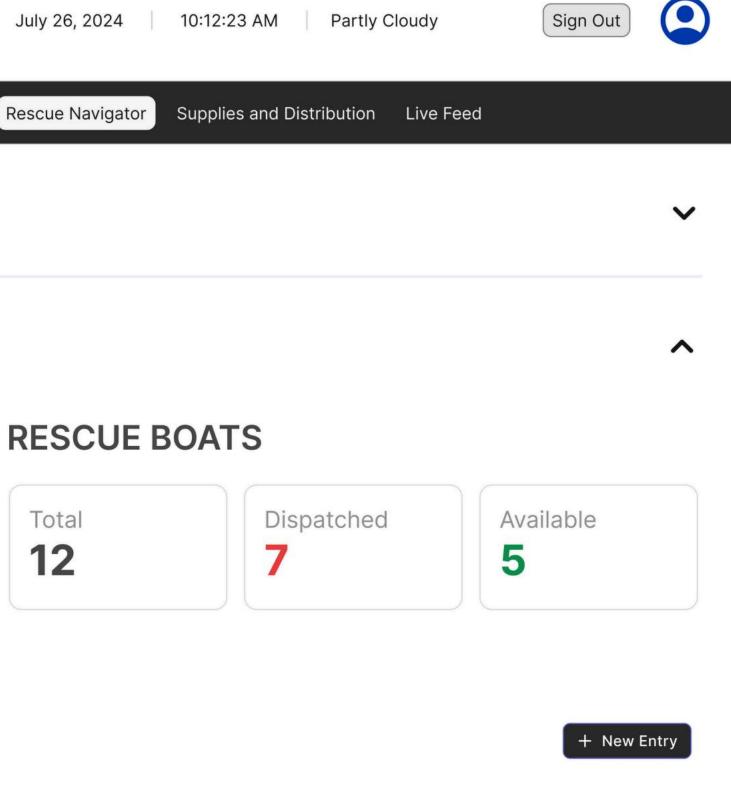
RESCUE RESOURCES

RESCUE TEAMS



RESCUE TEAM UPDATES

	T A	II - Q Search		
All 143	Dis	patched 57 Available 86		
0	# \$	TEAM MEMBERS	CATEGORY \$	CONTACT NUMBER/S
0	1	Juan dela Cruz, Tom Reyes	Dispatched	09981213452
0	2	Maria Tolentino, Rod Sanchez,	Available	09157265399
0	3	Wil Ildefonso, Peter Santos, Erik	Dispatched	09230973434
0	4	Patricia Jimenez, Jansen Cruz,	Dispatched	09982327656



LAST LOCATION	LAST UPDATE
Rainforest Drive, Maybunga, Pasig City	🖃 15 Jul 2024, 12:47 PM
Rainforest Drive, Maybunga, Pasig City	🖃 14 Jul 2024, 2:36 AM
Jenny's Avenue, Rosario, Pasig City	🖃 15 Jul 2024, 6:12 PM
Rainforest Drive, Maybunga, Pasig City	🗐 13 Jul 2024, 1:25 AM



Pasig City, NCR

Map View **Incident Summary** Forecasting

Live Chat

Home Page

Forecasting

Map View

Incident Summary

Live Chat

Rescue Navigator

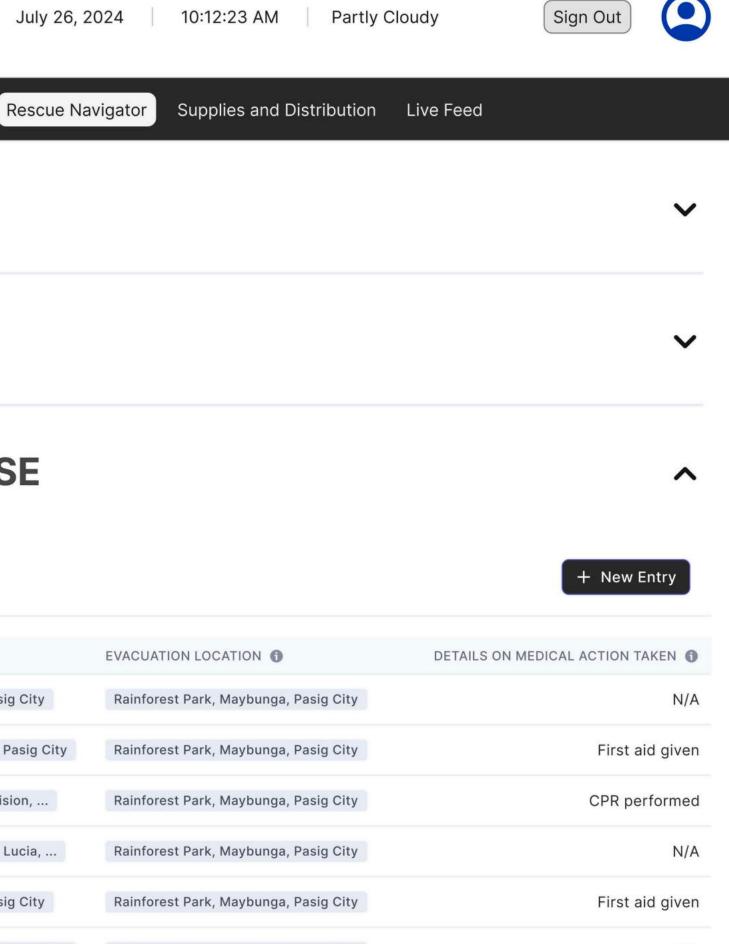


PRIORITY RESCUE IDENTIFIER

RESCUE RESOURCES

REAL-TIME RESCUED PEOPLE DATABASE

	Q S	earch				+ New Entry
0	# \$	NAME \$	RESCUE TIME 🌲	RESCUE LOCATION	EVACUATION LOCATION	DETAILS ON MEDICAL ACTION TAKEN
\bigcirc	1	Sabrina Plumber	14 Jul 2024, 12:51 AM	Jenny's Avenue, Rosario, Pasig City	Rainforest Park, Maybunga, Pasig City	N/A
	2	Conan Peach	22 Jul 2024, 10:10 PM	Rainforest Drive, Maybunga, Pasig City	Rainforest Park, Maybunga, Pasig City	First aid given
0	3	Saekyeong Shin	5 Jul 2024, 1:35 AM	Camia St., De Castro Subdivision,	Rainforest Park, Maybunga, Pasig City	CPR performed
	4	Jolina Madrigal	7 Jul 2024, 7:47 PM	Marietta Romeo Village, Sta. Lucia,	Rainforest Park, Maybunga, Pasig City	N/A
\bigcirc	5	Bryan Magpantay	16 Jul 2024, 12:06 AM	Jenny's Avenue, Rosario, Pasig City	Rainforest Park, Maybunga, Pasig City	First aid given
	6	Priscilla Tan-Ching	21 Jul 2024, 9:11 AM	Rainforest Drive, Maybunga, Pasig City	Rainforest Park, Maybunga, Pasig City	N/A
0	7	Jongsuk Lee	10 Jul 2024, 3:56 PM	Marietta Romeo Village, Sta. Lucia,	Rainforest Park, Maybunga, Pasig City	N/A



Sign Up

Info Page

Flood Alert Notification

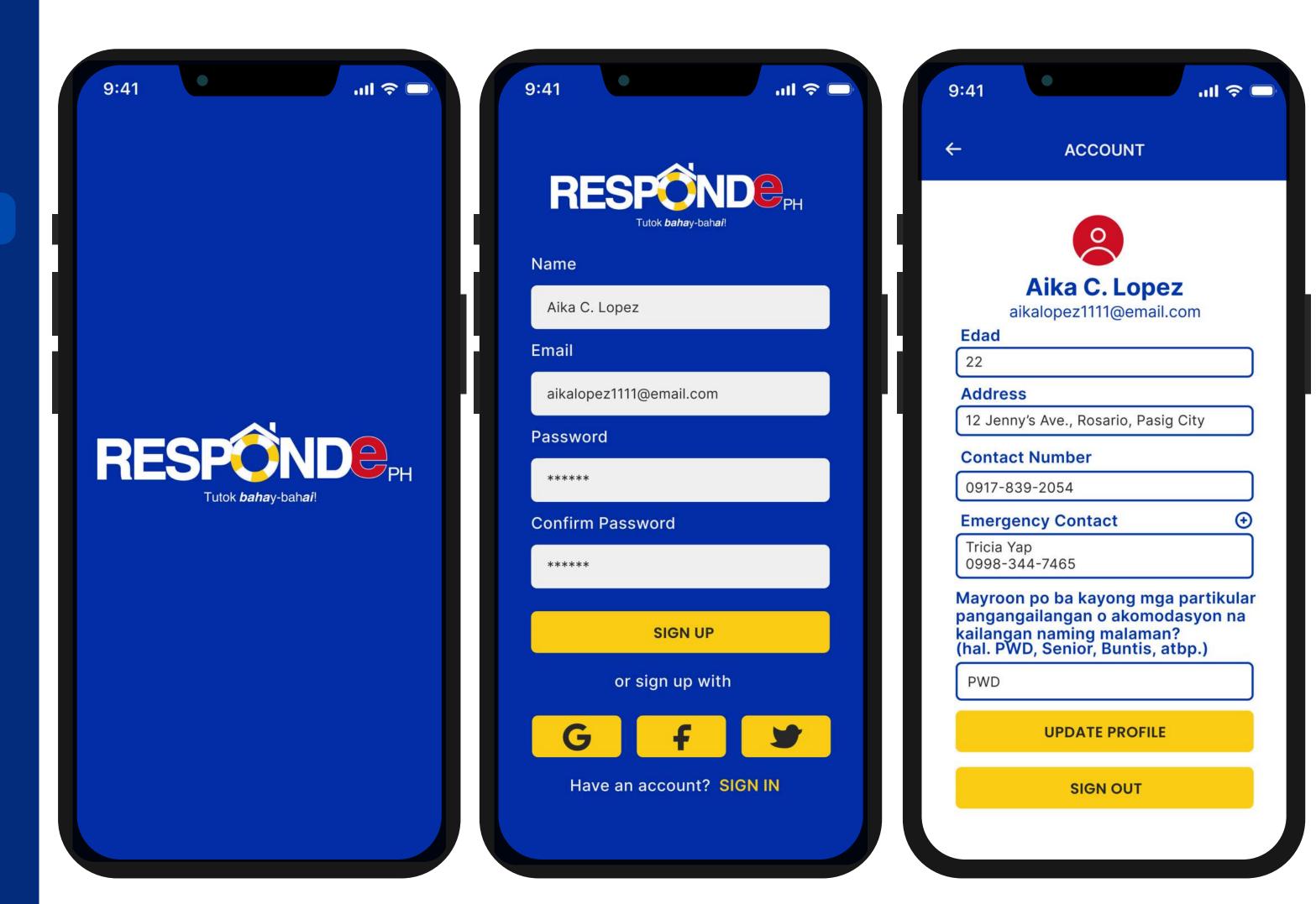
Forecasting

Мар

Contact Locator

Live Chat





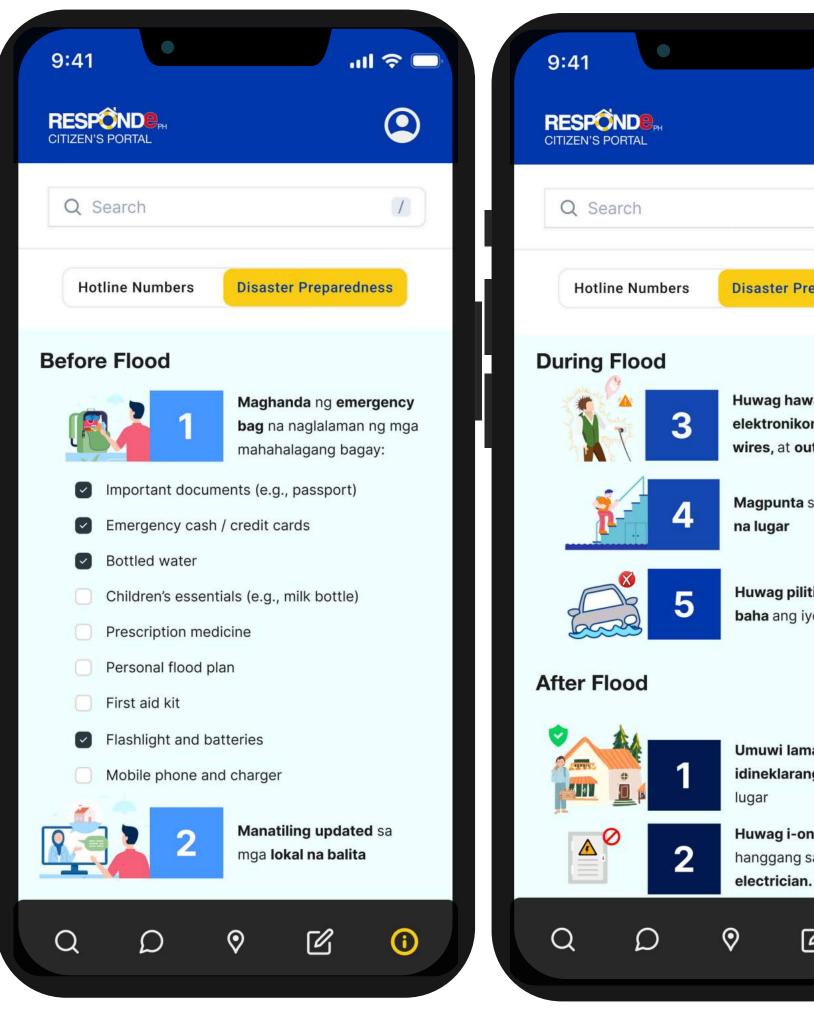
Sign Up

Info Page

Flood Alert Notification Forecasting Map **Contact Locator** Live Chat Community

Message Board





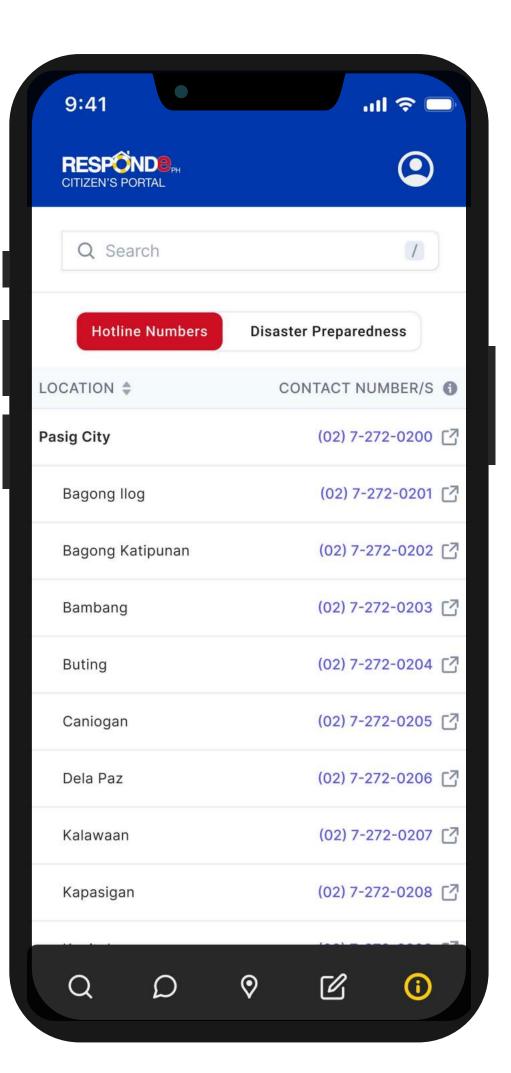
.... 🗢 🗔 1 **Disaster Preparedness** Huwag hawakan ang mga elektronikong aparato, wires, at outlets Magpunta sa mataas Huwag piliting imaneho sa baha ang iyong sasakyan

Umuwi lamang kapag idineklarang LIGTAS ang

Huwag i-on ang main switch hanggang sa masuri ng

 (\mathbf{i})

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Sign Up

Info Page

Flood Alert Notification

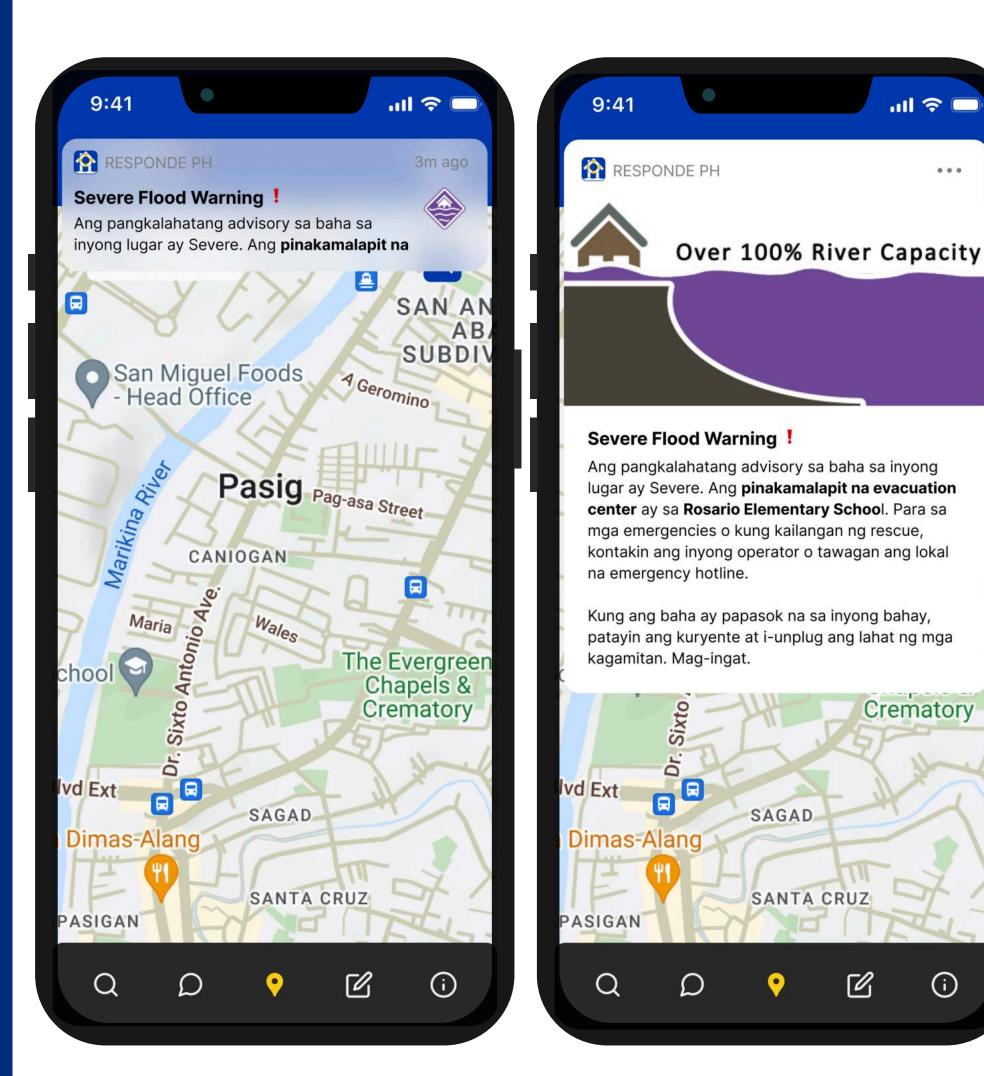
Forecasting Мар

Contact Locator

Live Chat

Community Message Board





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Crematory

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9:41



·III ຈີ

Today 8:35 AM

Ang pangkalahatang advisory sa baha sa inyong lugar ay Severe. Ang pinakamalapit na evacuation center ay sa Rosario Elementary School. Para sa mga emergencies o kung kailangan ng rescue, kontakin ang inyong operator o tawagan ang lokal na emergency hotline.

Kung ang baha ay papasok na sa inyong bahay, patayin ang kuryente at i-unplug ang lahat ng mga kagamitan.

Mag-ingat.

Text Message

+

Sign Up

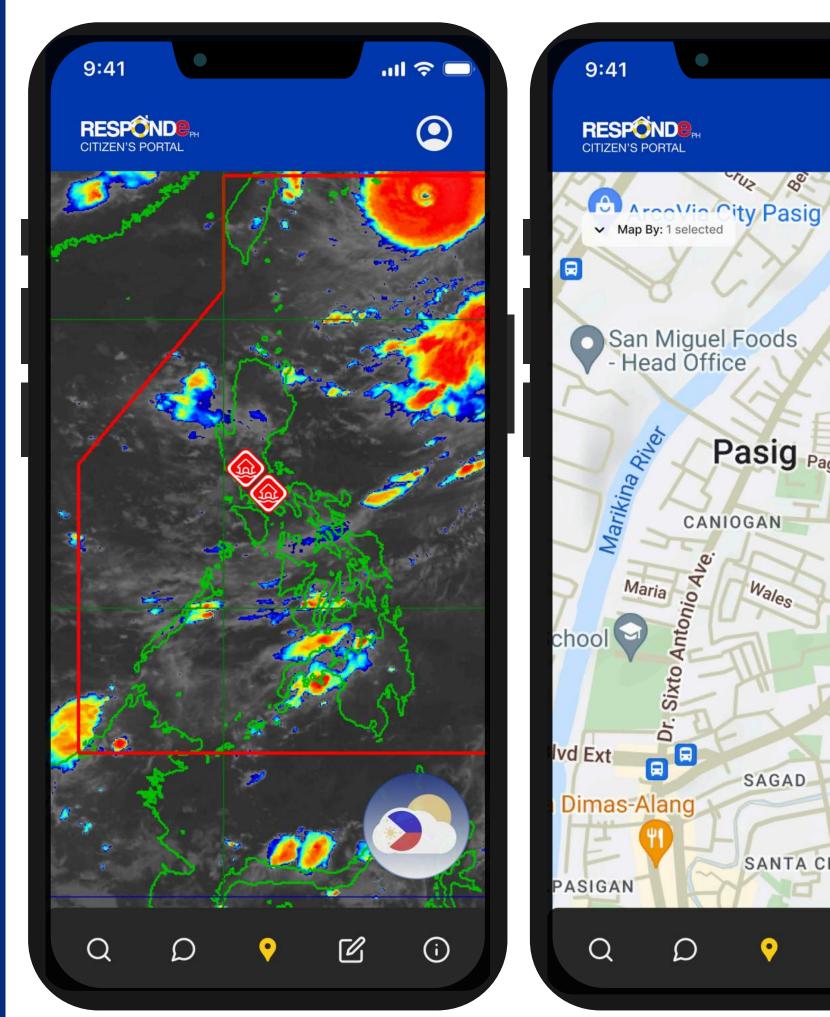
Info Page

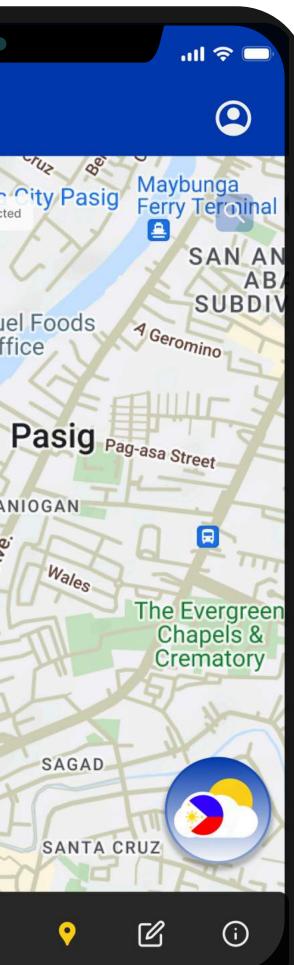
Flood Alert Notification

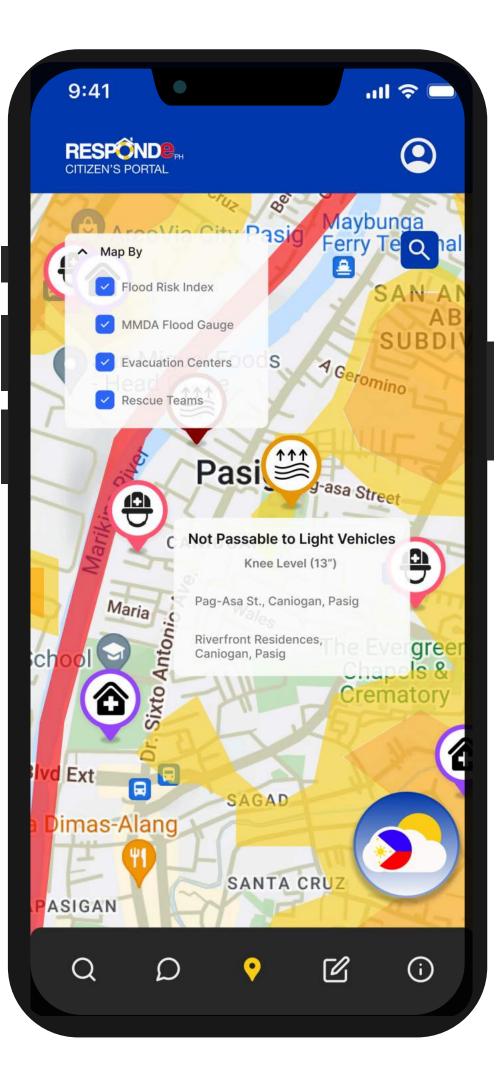
Forecasting Map

Contact Locator Live Chat









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Info Page

Flood Alert Notification

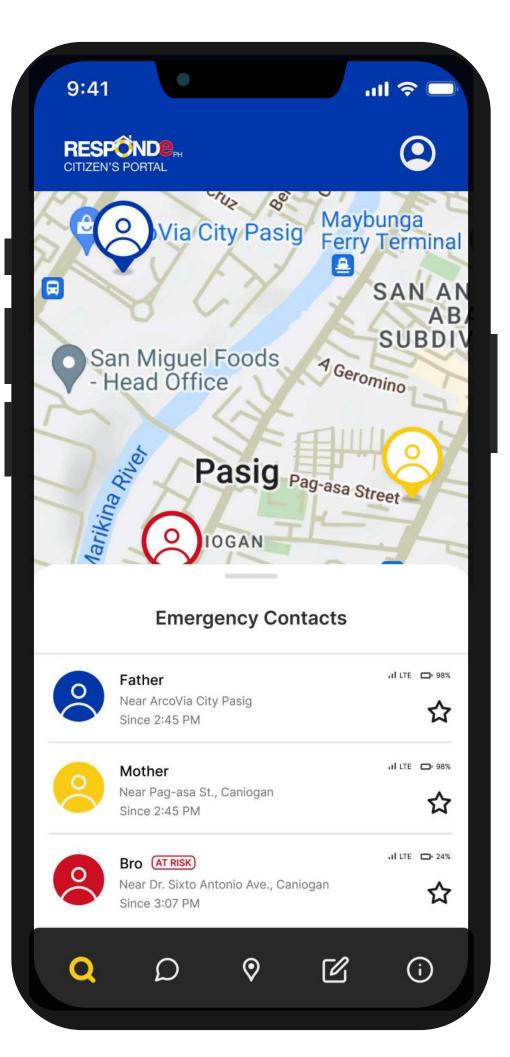
Forecasting

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Contact Locator

Live Chat







Sign Up

Info Page

Flood Alert Notification

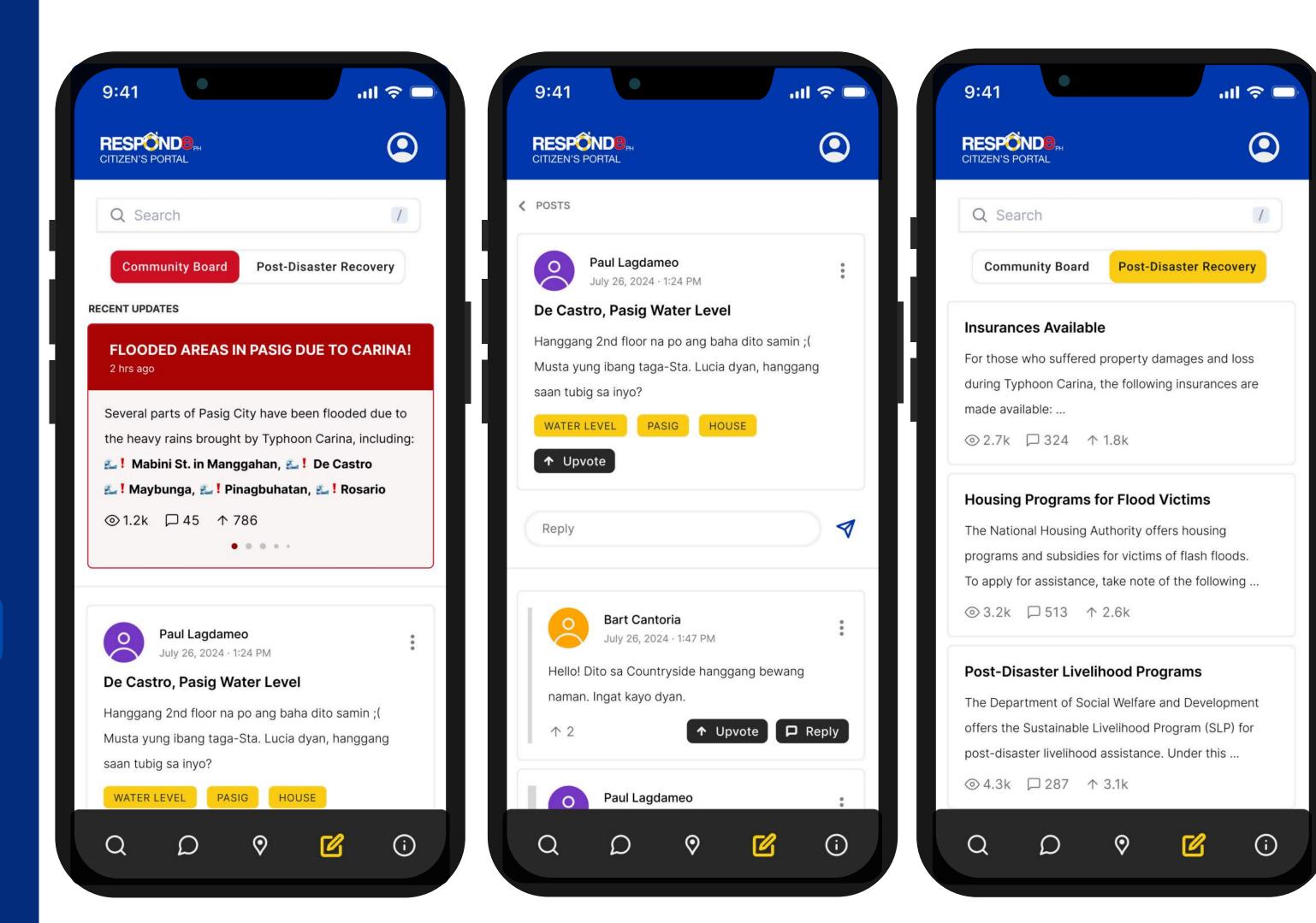
Forecasting

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Contact Locator

Live Chat







SDG 11: <u>Sustainable</u> **Cities & Communities**

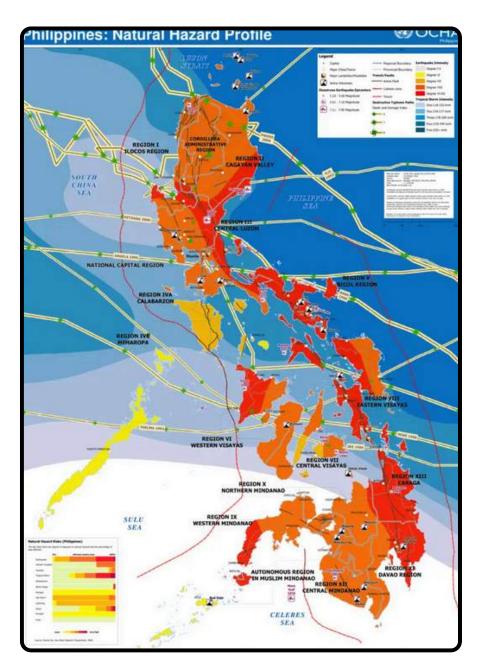
- **response** (see Lean Principle appendix)
- for the Philippines

Alignment

• 11.8: Support positive national and regional development planning by gathering data for flood-resistant infrastructure and planning 11.9: Implement policies for inclusion, resource efficiency, and disaster risk reduction in building the foundation for flood • 11.A: Support least developed countries in sustainable and resilient

building by developing a flood resilience technology specifically

Phase 0: Trial





Successful implementation in **1 very** high-risk city (e.g., Marikina)

• Relies on forced evacuation processes, not EWS

LGU DASHBOARD **MVP TEST PHASE**

<5% margin of error **30 waterproof cameras 3 drones**

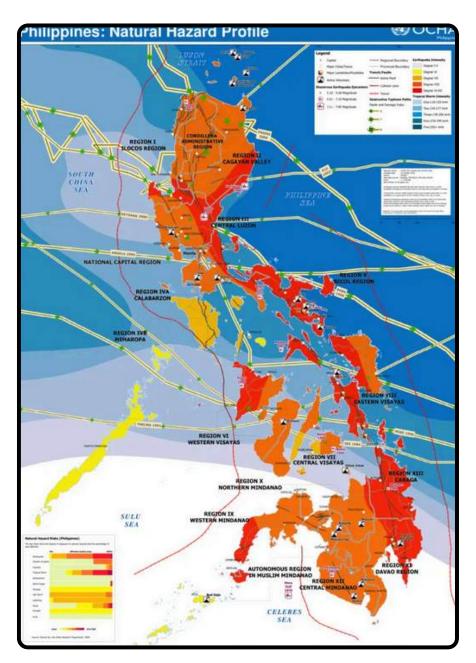


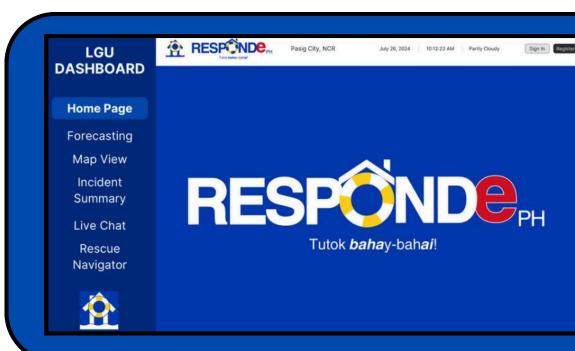
Sign In Register

SCIENCE AND TECHNOLOGY PHILIPPINE COUNCIL FOR INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH AND DEVELOPMENT (DOST-PCIEERD)

- Funds ~200 projects annually, worth **P3-5M** each
- Grants known to be very generous with contributions even from senators
- Interest in IoT systems

Phase 1: Launch





Successful implementation and acquisition of **10 highrisk cities (urban)**

- Can look at vulnerable, urbanized, highly-populated areas
- Malabon, Pasig, Makati, Taguig, Cagayan de Oro, etc.,

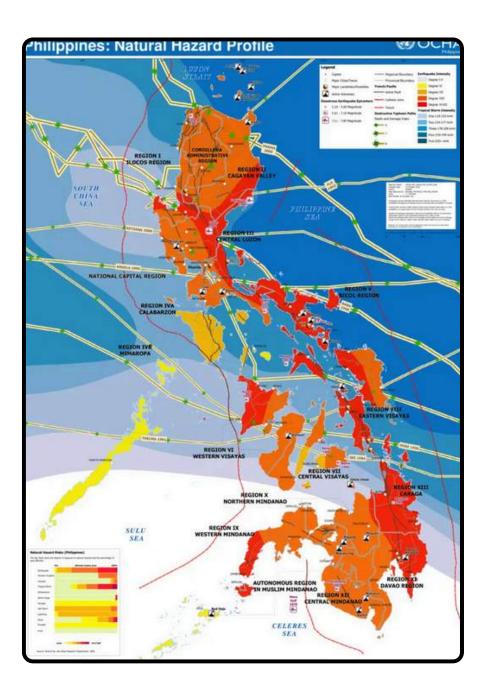
LGU DASHBOARD LAUNCH

<5% margin of error 600 waterproof cameras 30 drones



- Just this week, given an approved P255B budget for flood control given Carina
- Can implement this at a national level in line with their mandate
- Takes care of most of the work at **P10M**

Phase 2: Expansion



LGU DASHBOARD

1,500 waterproof cameras 60 drones

APP LAUNCH <5% report errors

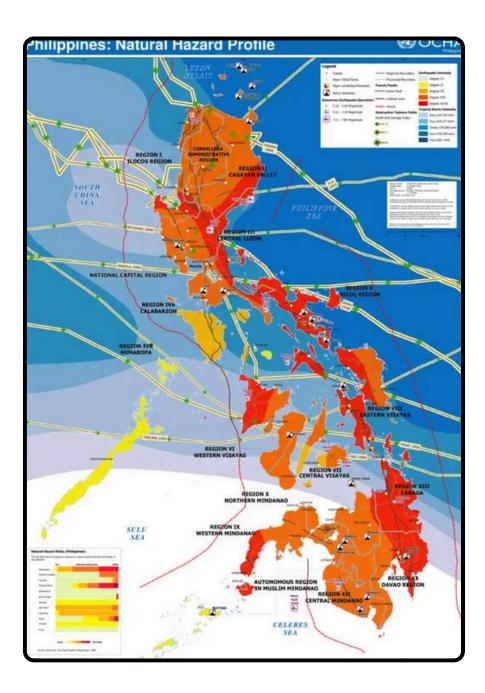
4.8% rating from beta testers

- Successful implementation and acquisition of **20 high-risk cities** (metro/rural)
- Can expand to more provincial areas, such as Navotas, Cataman (N. Samar), etc.,



- Have stake in getting the information from dashboard and app for rescue operation efficiency
- Takes care of most of the work at a combined **P15M**

Phase 3-onward: Solidification



LGU DASHBOARD

2,400 waterproof cameras 120 drones

AAA

Successful implementation and acquisition of **40 high-risk to mild-risk cities (rural)**

Continue annual funding
Can have a developed portfolio offering climate consulting and relevant services
Of interest for highly-climate dependent industries like fishing, forestry, mining, etc.,
For local and international investors

Financial Projection

PRIMARY FUNDING (B2G): Packages based on VBP + Tiering Scheme

DOST: Funding for monitoring and mitigating national calamity

City governments: Funding for streamlining LGU processes based on tierring (HUCs, metro, rural)

SECONDARY FUNDING



Implementing the **LGU** dashboard across municipalities

1 👭 Manulife 🤞 🔞 🛛 6 IIIV

2 10

Interest from climatedependent industries

EXTERNAL (NGOs) FUNDING

For aid distribution and relief operations



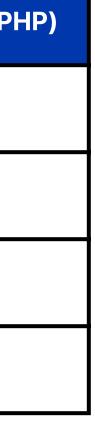
Projected Cost vs. Revenue of RESPONDE PH in millions (PHP)

PHASE	COST (PHP)	REVENUE (F
0	2.6M	5M
1	13.1M	17M
2	23.1M	25M
3	29.6M	33M

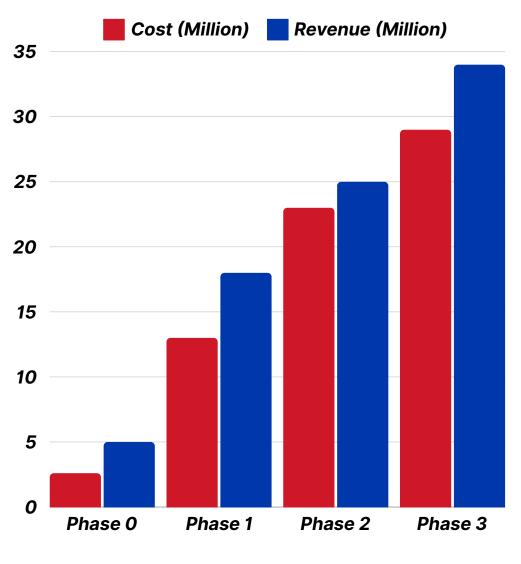








Projected Cost vs. Revenue of RESPONDE PH in millions (PHP)



see Costing & Funding Appendices

Climate Resilience

Fostering consistent climate resilience

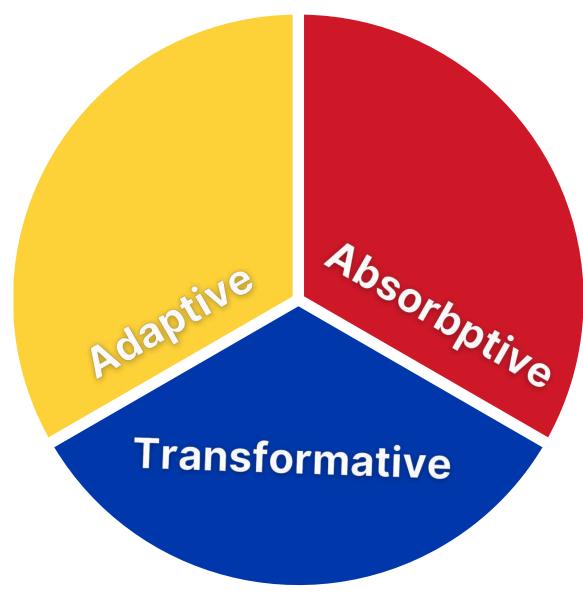


Figure inspired by Lanlan et al., 2023

- citizens navigating calamity.
- - and rescues from LGUs.
- during, and after calamity.

With all of these, we can affect and effect the following:

PINOYS

• Adaptive: provide early warnings and real-time updates for

• Absorbptive: develop a robust, integrated emergency responsiveness system that **speeds** up emergency dispatch

• Transformative: build a multistakeholder foundation for a disaster preparedness ecosystem and infrastructure **before**,





Emergency Responsiveness

Developing holistic emergency responsiveness

With our forecasting, live feed, and integrated community system, we can be **equipped** with the requisite tools to affect and effect the following:

O Half the time FOR RESCUE OPERATIONS Double the efficiency for dispatch and relief **ONE FOURTH**

PHP 15B

PHP 300M

IN AGRICULTURE DAMAGE

PHP 100M

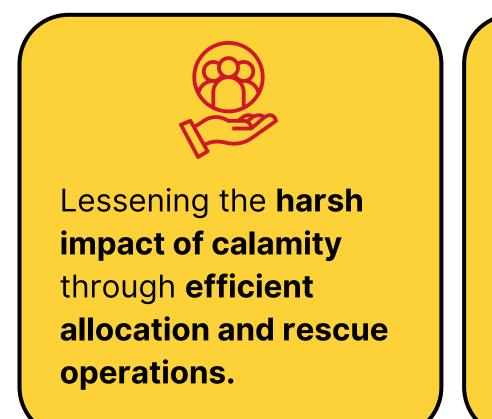
IN PROPERTY DAMAGE (Balita, 2024; Clapano, 2024) IN INFRASTRUCTURE DAMAGE





Move toward an ecocity

According to the World Bank (2018), ecocities enhance the well-being of citizens and society through integrated urban planning and management to protect and nurture these ecosystems for future generations. We can affect and effect:



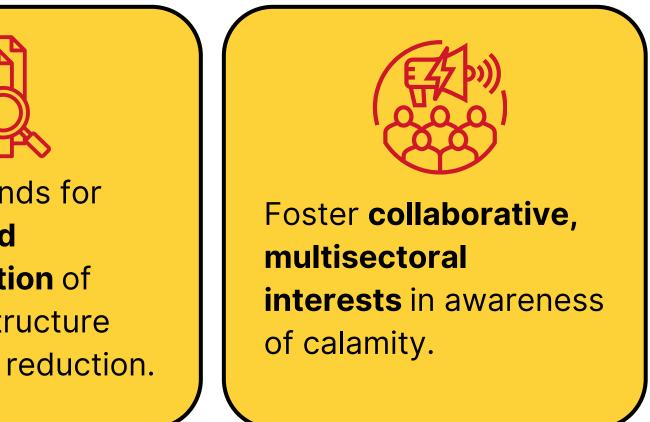
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о́—	

Pooling information and resources for adaptive, data-driven planning at an LGU-level cityplanning.

-1	

Set the grounds for research and implementation of green infrastructure and disaster reduction.

Ecocity Model



Let's change the ending of our story with RESPENDE

Tutok **baha**y-bah**ai**!



Team BahAl



Maxine V. Caparas Ateneo de Manila University BS in Electronics Engineering





Ma. Angelika C. Regoso Ateneo de Manila University BS in Electronics Engineering

Chanel Cerise G. Ang Ateneo de Manila University BA in Political Science & BA Communication (Ad-PR)





Pamela Anne C. Serrano Ateneo de Manila University BS in CS-DGDD Minor in Education Balita, C. (2024). Philippines: number of people affected by flood. Statista. https://www.statista.com/statistics/1307224/philippines-number-of-people-affected-by-flood/

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Lanlan, J., Sarker, M.D., Ali, I., Firdaus, R.B., & Hossin, M.D. (2023). Vulnerability and resilience in the context of natural hazards: a critical conceptual analysis. Environment, Development and Sustainability. https://doi.org/10.1007/s10668-023-03440-5

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Appendices



Backend

Frontend

Database

Cloud Services



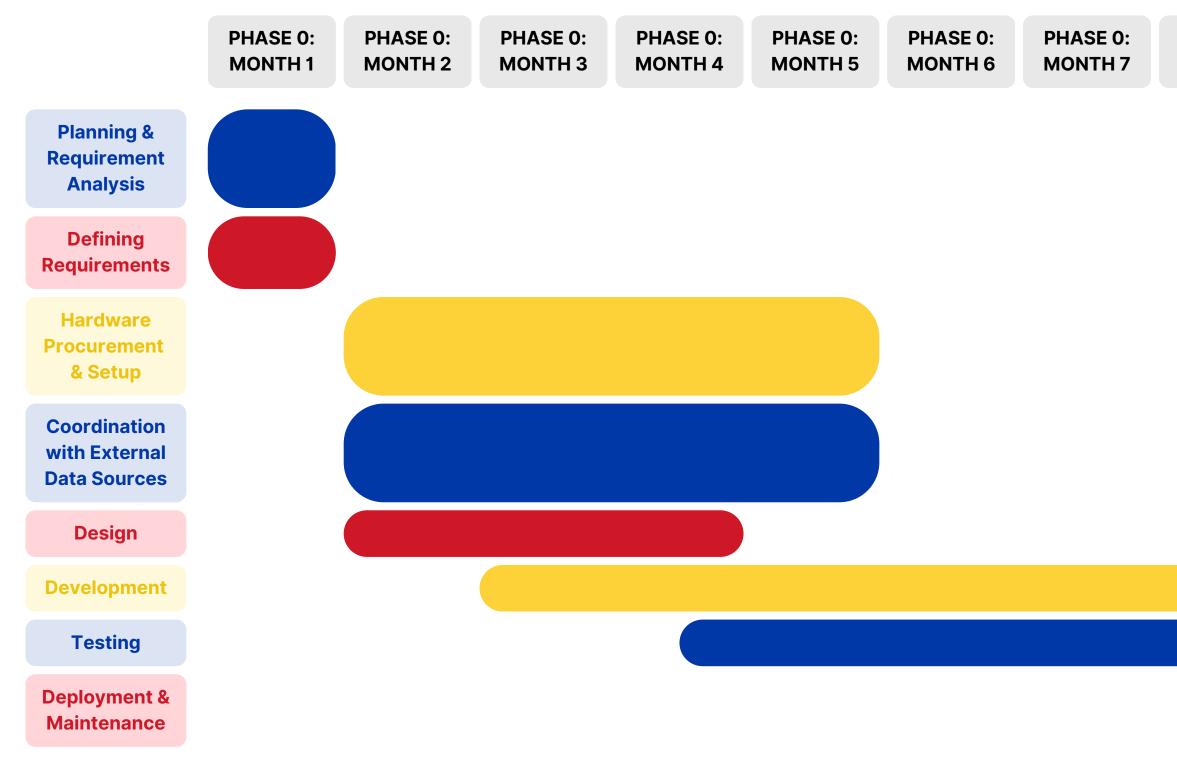
- **Python**: data preprocessing and machine learning
- Keras + PyTorch: deep learning models
- **Django:** API developments
- Vue.js: web application
- **React Native**: mobile application (Android + IOS) **PostgreSQL**: structured + unstructured data storage

AWS: secure and scalable deployment

MMDetection / RetinaNet: object detection

Tech Stack





Development Plan

PHASE 0: **MONTH 8** PHASE 0: **MONTH 9**

PHASE 0: **MONTH 10**

PHASE 0: **MONTH 11**

PHASE 0: MONTH 12



Object detection Al

A Real Time YOLO Human Detection in Flood Affected Areas Based On Video Content Analysis

Keerthana T, Kala L

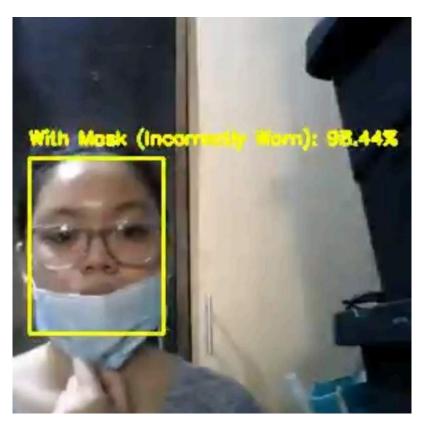
Person detection and tracking is a dynamic and widely researched area in computer vision. Keerthana and Kala (2019) demonstrated the effectiveness of the YOLO object detection algorithm in identifying humans in flood-affected areas using surveillance video feeds, successfully achieving human recognition and detection with the COCO dataset.

Early Warnings

Water4Thai (Thailand)

Water4Thai is an iOS app that offers real-time updates on Thailand's water situation from the Office of National Water and Flood Management Policy, including rainfall reports, daily tide information, weather charts, as well as water level statistics for rivers and dams. It utilizes API Integration, Geospatial Technology: Geographic Information Systems (GIS), and Cloud Services.





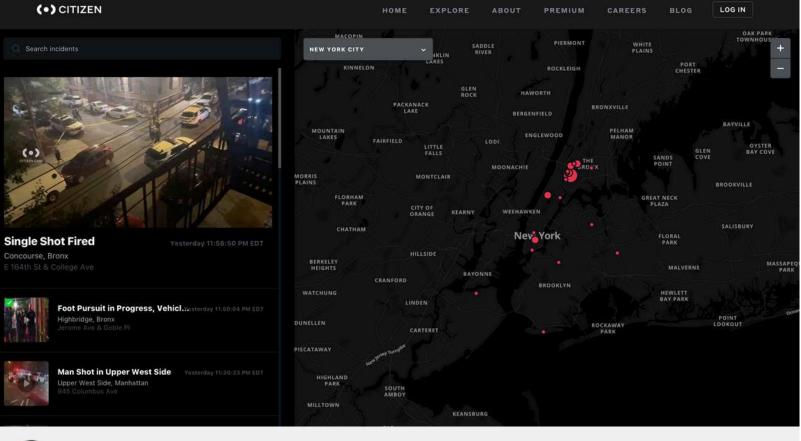
Object detection Al

CMD: Real-Time Compliant Mask Detection using Transfer Learning

Serrano P, Mendoza J, Tarun I, Lopez V, Abu P

This study offers an enhanced approach to the automated monitoring of mask-wearing compliance by developing models that identify correctly masked, incorrectly masked, occluded unmasked, and non-occluded unmasked faces through transfer learning and deploying them in real time. A curated dataset was first prepared by selecting and relabeling images from publicly available datasets. Transfer learning was then performed on the pre-trained models MobileNetV3 Small, ResNet50V2, VGG16, Xception, and YOLOv5 Small Classification.





DigitalCCTV



roducts > CCTV > Analog CCTV Camera and DVR > Outdoor Cameras

Outdoor Cameras

Outdoor cameras are cameras that are specifically made for monitoring locations that are exposed to the elements of weather. These cameras easily mount on walls and ceilings and most have infrared light emitting diodes (LED) which allow them to see during night time without any light source. Most outdoor cameras are housed inside weatherproof bullet or pipe shaped casing which are either made of plastic or metal.



Live Updates & Alerts

CITIZEN

The Citizen App boosts personal safety by offering real-time alerts for nearby incidents such as crimes, fires, and accidents. It enables users to receive notifications, stream live videos, report incidents, share their location with trusted contacts, and utilize incident mapping to view ongoing and recent incidents in area.

It utilizes GIS technology, live video streaming, geolocation services, GIS for incident mapping, cloud services, and data analytics.

Waterproof Cameras

OUTDOOR Cameras

Digital CCTV offers outdoor cameras designed for monitoring areas exposed to weather conditions. These cameras are easy to mount on walls and ceilings and typically feature infrared LEDs for night vision.

made of plastic or metal.





They are usually housed in weatherproof bullet or pipe-shaped casings







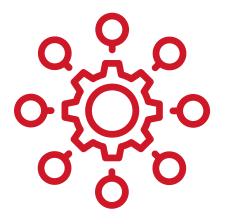
Waterproof Drones

- Level 7 Wind Resistance
- Waterproof rating: IP67
- Floatable & Fippable
- Corrosion-resistant



Real-time HD Video Streaming
IP66 Waterproof Remote Controller
Sandproof
Rugged Body

LGU Value Proposition



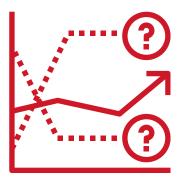
Centralized real-time flood monitoring



Enhanced **coordination** between LGU & citizens



More individuals **saved** from flood onslaught



Crucial data for **forecasting** & **relief** operations initiatives



om More **cost-efficient**, **accurate** flood response



Improved **trust** from constituents

App Value Proposition



Greater **awareness** surrounding floods



Further capacity to make **informed** decision-making



Enhanced **coordination** between LGU & citizens



Increased **preparedness** against calamity



More avenues to **receive and monitor** help



Stronger **community initiatives** & engagement

Key Problem

- Inefficient warning and hazarding systems for floods
- Delayed emergency and rescue operations
- Lack of centralization in emergency response operations
- Lacking flood infrastructure and weathering technology
- Underutilized forecasting technology for floods
- Lack of communication and information avenues during calamity

Solution

- All-in-one flood resilience response system
- LGU rescue operations dashboard for dispatch, priority rescue, and live chat
- Citizen app for flood alerts, evacuation mapping, locating loved ones, and live chat
- Development of forecasting technology and flood information storage

Success Metrics

- Number of downloads (app)
- User retention rate (app)
- User feedback ratings (app)
- Amount of trained partners (LGU)
- Amount of public partners
- Amount of private partners
- Revenue gained from all phases

Unique Value Proposition

- Centralized system for flood response
- High-technology LGU monitoring mechanisms
- Live operations and engagement between residents and LGUs
- All-in-one rescue and response system
- Integrated predictive technology and forecasting platform
- Accurate and end-to-end alert systems for residents
- Tracking system for residents and their loved ones
- Community communication platform for residents

Revenue Streams

- Funding from VCs

Seed fundraising

Cost Structure

- National government agency contributions
- Risk and climate consulting premiums
- Crowdfunding

- Integration via advertisements on key websites
- Onground promotions through
- interactive booths and showcasing

Lean Canvas

Customer Relationship

- Consumer feedbacking feature
- Information sessions and trainings with LGUs
- Product showcases and
- interactive booths in strategic
- locations

Channels

- Partnerships with LGUs for
- information sessions
- Training modules and sessions with LGUs

Customer Segments

- Residents in flood-prone areas
- Flood-vulnerable LGUs
- Telecommunication companies
- Insurance companies
- Investors
- MNCs
- Government clients

• Financial support from national government agencies

• Private funding and consulting with interested partners (TelCos, insurance companies, etc.,)



Responde PH uses the Lean Methodology to streamline flood emergency responses, cutting waste and delays to deliver swift, effective support and ensure residents' safety and resilience.

Type of Waste	How the Platform Helps	
Waiting	Provides immediate updates and data.	Efficien
Motion	Streamlines evacuation routes, minimizing unnecessary movement.	Safety:
Overprocessing	Automated identification of people in severe risk, reducing manual report.	Cost Sav
Inventory	Manages resources more effectively, avoiding surplus.	Resou

Lean Principle

Benefits

ncy: Faster processes, reduced delays, and quicker response times.

Better coordination and safer evacuations.

avings: Less manual labor and fewer errors.

urce Optimization: Better use of supplies.

KPI Computation

			Hardware Premises
Hypothetical 1:	assuming each	very high to high risk city has at least 2	20 vulnerable streets
Hypothetical 2:	assuming each	vulnerable street will have least 3 cam	neras each
Hypothetical 3:	assuming we ta	rget very high risk streets with a drone	e (mobile)
			Phase 0 (Year 1)
Cities	Streets	Standard Camera Amount	Total Cameras: Cities*Streets*Standard Amt
1	10	3	
			Phase 1 (Year 1)
Cities	Streets	Standard Camera Amount	Total Cameras: Cities*Streets*Standard Amt
10	20	3	60
			Phase 2 (Year 2)
Cities	Streets	Standard Camera Amount	Total Cameras: Cities*Streets*Standard Amt
20	20	3	120
			Phase 3 (Year 3)
Cities	Streets	Standard Camera Amount	Total Cameras: Cities*Streets*Standard Amt
40	20	3	240

		-
	Total Drones: Cities*3 (Most high risk areas)	
)	3	3
	Total Drones: Cities*3 (Most high risk areas)	
)	30)
	Total Drones: Cities*3 (Most high risk areas)	
)	60)
	Total Drones: Cities*3 (Most high risk areas)	
)	120)

Business Costing (Phase 0)

COMPONENT	COST DRIVER	CPU (PHP)	UNIT AMOUNT	ANNUAL COST (PHP)	
	Waterproof cameras	2,000	30	60,000.00	
	Drone	50,000	3	150,000.00	
Hardware costs	PCs / CPUs for employees	50,000	5	250,000.00	
	Contingency fee		500,000	500,000.00	
Employee costs	Salaries	20,000 / month	5 employees	100,000.00	
Onemational sector	Office space (rented)	140,000 / month	12 months	1,680,000.00	
Operational costs	Electricity and utilities	17,000 / month	12 months	204,000.00	
	TOTAL			2,944,000.00	

Business Costing (Phase 1)

COMPONENT	COST DRIVER	CPU (PHP)	UNIT AMOUNT	ANNUAL COST (PHP)	
	Waterproof cameras	2,000	600	1,200,000.00	
Llowbuces costs	Drone	50,000	30	1,500,000.00	
Hardware costs	PCs / CPUs for employees	50,000	20	1,000,000.00	
	Contingency fee		500,000	500,000.00	
	Salaries	30,000 / month	10 employees	3,600,000.00	
Employee costs	Senior/manager salaries	40,000 / month	5 managers (Product, TechOps, Marketing, Finance, R&D)	2,400,000.00	
	LGU training and development	100,00	0 contingency fee	500,000.00	
Onerstienelesets	Office space (rented)	140,000 / month	12 months	1,680,000.00	
Operational costs	Electricity and utilities	17,000 / month	12 months	204,000.00	
Training costs	Training program and development of multi-modal tutorials		590,000	590,000.00	
	TOTAL			13,174,000.00	

Business Costing (Phase 2)

COST DRIVER	CPU (PHP)	UNIT AMOUNT	ANNUAL COST (PHP)	
Waterproof cameras	2,000	1,500	3,000,000.00	
Drone	50,000	60	3,000,000.00	
Hosting and cloud services (AWS)	10,000	12 months	10,000.00	
App Store fees	500 / month	12 months	6,000.00	
Salaries	30,000 / month	15 employees	5,400,000.00	
Senior/manager salaries	40,000 / month	5 managers (Product, TechOps, Marketing, Finance, R&D)	3,000,000.00	
Initial training and development	100,000 c	500,000.00		
Office space (rented)	140,000 / month	12 months	1,680,000.00	
Electricity and utilities	17,000 / month	12 months	204,000.00	
Digital advertising fees	375,000 / campaign (Meta)	4 quarters	1,500,000.00	
Onground activations (billboards, demos, etc.,)	1,000,000 / campaign	4 quarters	4,000,000.00	
R&D costs Training program and development of multi-modal tutorials 590,000		90,000	590,000.00	
Beta testing and user support per area	15,000	20	300,000.00	
TOTAL			23,190,000.00	
			20,100,000.00	
	DroneHosting and cloud services (AWS)App Store feesSalariesSenior/manager salariesInitial training and developmentOffice space (rented)Electricity and utilitiesDigital advertising feesOnground activations (billboards, demos, etc.,)Training program and development of multi-modal tutorialsBeta testing and user support per area	Drone50,000Hosting and cloud services (AWS)10,000App Store fees500 / monthSalaries30,000 / monthSenior/manager salaries40,000 / monthInitial training and development100,000 dOffice space (rented)140,000 / monthElectricity and utilities17,000 / monthDigital advertising fees375,000 / campaign (Meta)Onground activations (billboards, demos, etc.,)1,000,000 / campaignTraining program and development of multi-modal tutorials5Beta testing and user support per area15,000	Drone50,00060Hosting and cloud services (AWS)10,00012 monthsApp Store fees500 / month12 monthsSalaries30,000 / month15 employeesSenior/manager salaries40,000 / month5 managers (Product, TechOps, Marketing, Finance, R&D)Initial training and development100,000 contingency feeOffice space (rented)140,000 / month12 monthsElectricity and utilities17,000 / month12 monthsDigital advertising fees375,000 / campaign (Meta)4 quartersOnground activations (billboards, demos, etc.,)1,000,000 / campaign4 quartersTraining program and development of multi-modal tutorials590,00020	Drone50,000603,000,000.00Hosting and cloud services (AWS)10,00012 months10,000.00App Store fees500 / month12 months6,000.00Salaries30,000 / month15 employees5,400,000.00Senior/manager salaries40,000 / month5 managers (Product, TechOps, Marketing, Finance, R&D)3,000,000.00Initial training and development100,000 contingency fee500,000.00Office space (rented)140,000 / month12 months1,680,000.00Electricity and utilities17,000 / month12 months204,000.00Digital advertising fees375,000 / campaign (Meta)4 quarters4,000,000.00Onground activations (billboards, demos, etc.,)1,000,000 / campaign4 quarters4,000,000.00Training program and development of multi-modal tutorials590,00020300,000.00

Business Costing (Phase 3)

Employee costs S Initia Operational costs	Office space (rented)	500 / month 35,000 / month 50,000 / month	2,400 120 500,000 12 months 15 employees 5 managers (Product, TechOps, Marketing, Finance, R&D) contingency fee	4,800,000.00 6,000,000.00 500,000.00 6,000.00 6,300,000.00 3,000,000.00 500,000.00
echnology maintenance Employee costs S Initia Operational costs	Contingency fee App Store fees Salaries Senior/manager salaries al training and development Office space (rented)	5 500 / month 35,000 / month 50,000 / month 100,000 c	500,000 12 months 15 employees 5 managers (Product, TechOps, Marketing, Finance, R&D)	500,000.00 6,000.00 6,300,000.00 3,000,000.00
Employee costs S Initia Operational costs	App Store fees Salaries Senior/manager salaries al training and development Office space (rented)	500 / month 35,000 / month 50,000 / month 100,000 c	12 months 15 employees 5 managers (Product, TechOps, Marketing, Finance, R&D)	6,000.00 6,300,000.00 3,000,000.00
Operational costs	Salaries Senior/manager salaries al training and development Office space (rented)	35,000 / month 50,000 / month 100,000 c	15 employees 5 managers (Product, TechOps, Marketing, Finance, R&D)	6,300,000.00 3,000,000.00
Operational costs	Senior/manager salaries al training and development Office space (rented)	50,000 / month 100,000 c	5 managers (Product, TechOps, Marketing, Finance, R&D)	3,000,000.00
Operational costs	al training and development Office space (rented)	100,000 c	Marketing, Finance, R&D)	
Operational costs	Office space (rented)		contingency fee	500.000.00
Operational costs	· · · · · · · · · · · · · · · · · · ·	140.000 / month	Initial training and development 100,000 contingency fee	
]		140,000 / 1101101	12 months	1,680,000.00
The second se	Electricity and utilities	17,000 / month	12 months	204,000.00
	Digital advertising fees	375,000 / campaign (Meta)	4 quarters	1,500,000.00
Marketing costs Onground	d activations (billboards, demos, etc.,)	1,000,000 / campaign	4 quarters	4,000,000.00
	g program and development of multi-modal tutorials	5	90,000	590,000.00
Beta tes	sting and user support per area	15,000	40	600,000.00
	TOTAL			29,680,000.00

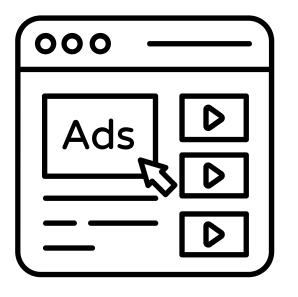


VBP + TIERING					
		Base costs			
Basic Formula	Driver		Amount	Initial Cost	
P=Costs×(1+M)+V	Cameras		60	2,000	
Where:	Drones		3	150000	
P = Price	LGU installa	tion fees	20	50,000	
M = Profit Margin % (20%)	LGU mainte	nance fees	4	160,000	
V = Value-based premium based on the LGU's perceived or actual benefit	LGU training	j fees		100,000	
	Value			200,000	
				662,000	
	TIER		Base Charge	Profit	Total
	HUCs		662,000	30%	860,600
	Metropolitar	า	662,000	20%	794,400
	Rural		662,000	10%	728,200
	*Over time,	can do VBP			
		Revenue	Package	Cities Amount	LGU revenue
		Phase 1	860,60	0 10	8606000
		Phase 2	794,40	0 20	15888000
		Phase 3	728,20	0 40	29128000



Costing Plan





Integrated website ads with public and private partners

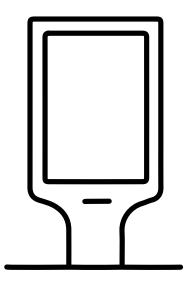
Similar to Tenki, promoting the app through website ads and tutorials (e.g., YouTube)



Social media marketing and digital promotions

Marketing through commonly used social media with interviews, testimonials, etc.,

Marketing Plan



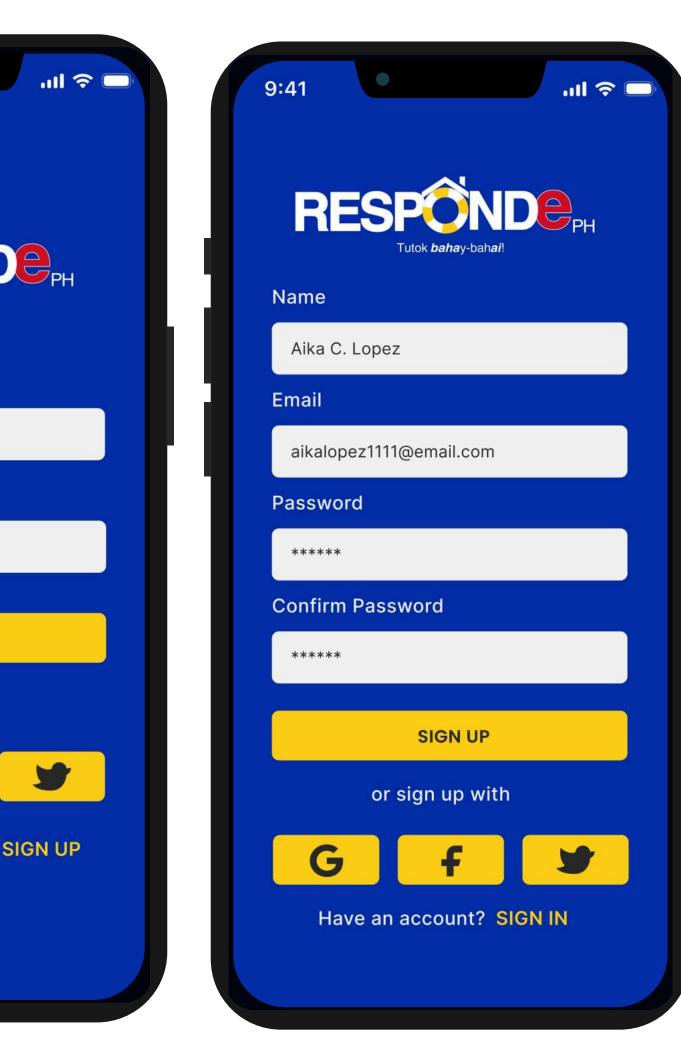
Strategic billboards and onground activations

Have interactive ads at city halls & strategic locations (residential areas, lots, etc.,) that have a CTA to download

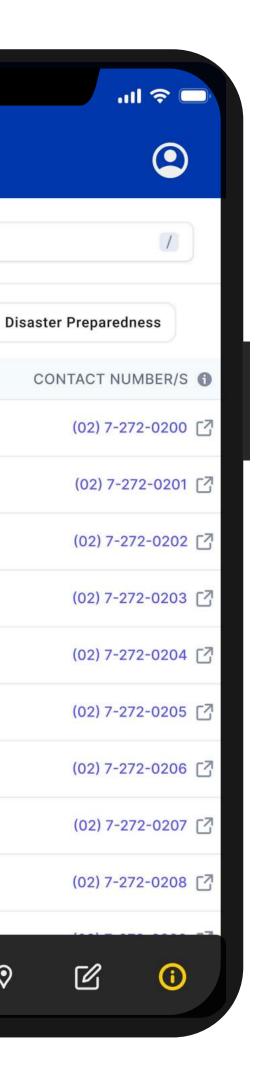


RESPONDE Tutok bahav-bahai! Email ex.aikalopez1111@email.com Password ****** SIGN IN or sign in with G f Don't have an account? SIGN UP

9:41

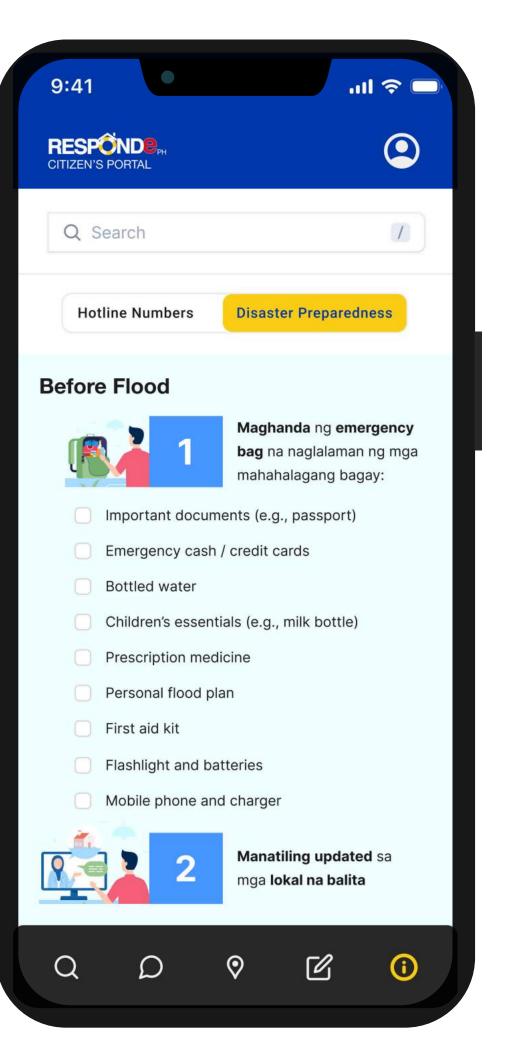


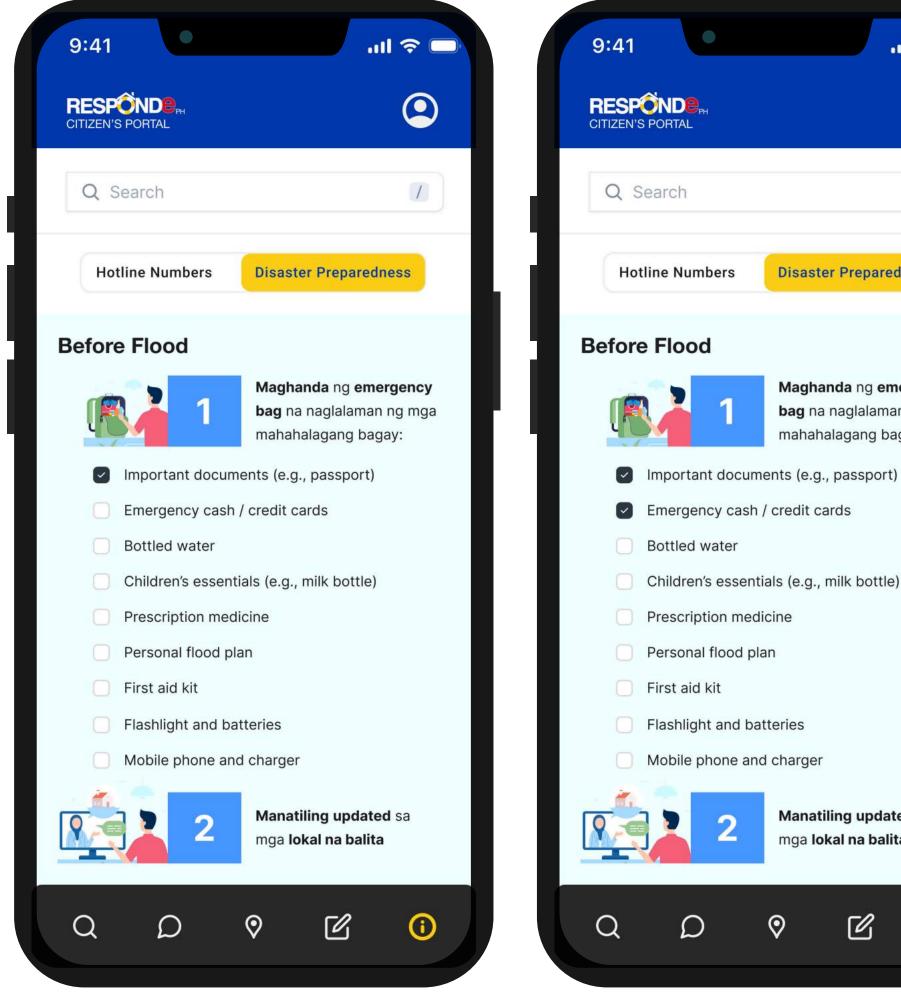
9:41 • ull 🗢 🛙	9:41
	RESPONDER CITIZEN'S PORTAL
	Q Search
Aika C. Lopez aikalopez1111@email.com	Hotline Numbe
Edad	LOCATION \$
22	Pasig City
Address	
12 Jenny's Ave., Rosario, Pasig City	Bagong Ilog
Contact Number	Bagong Katipunan
0917-839-2054	
Emergency Contact	Bambang
Tricia Yap 0998-344-7465	Buting
Mayroon po ba kayong mga partikular pangangailangan o akomodasyon na	Caniogan
kailangan naming malaman? (hal. PWD, Senior, Buntis, atbp.)	Dela Paz
PWD	Kalawaan
UPDATE PROFILE	Kapasigan
	Kapusigan
SIGN OUT	



umbers

0





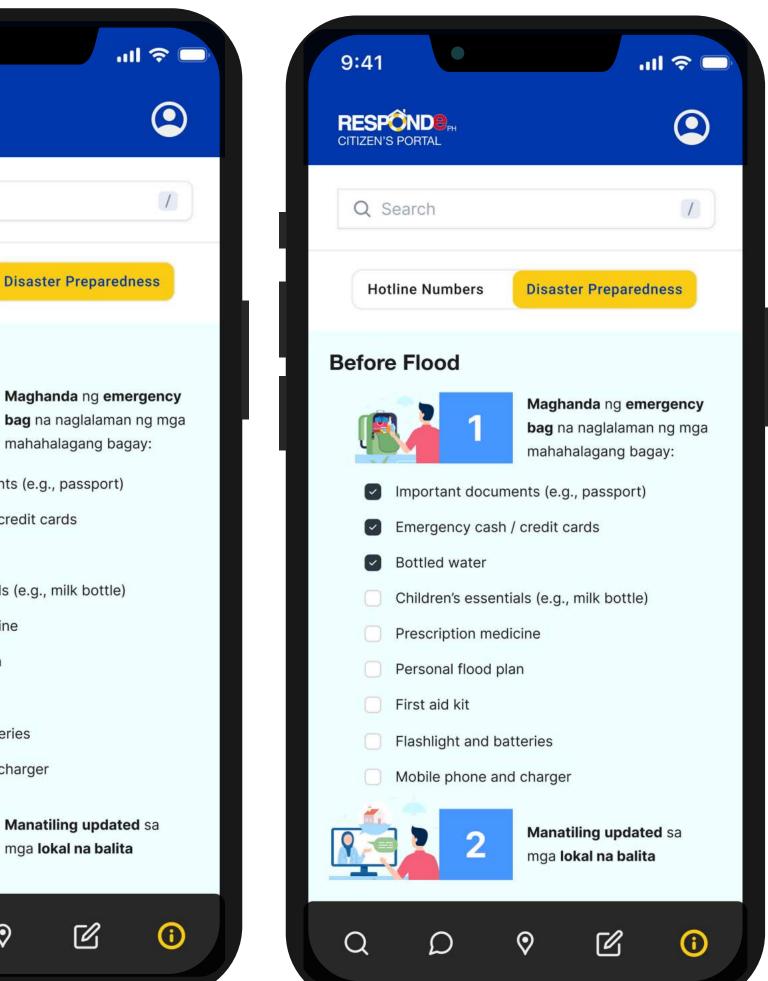
mahahalagang bagay:

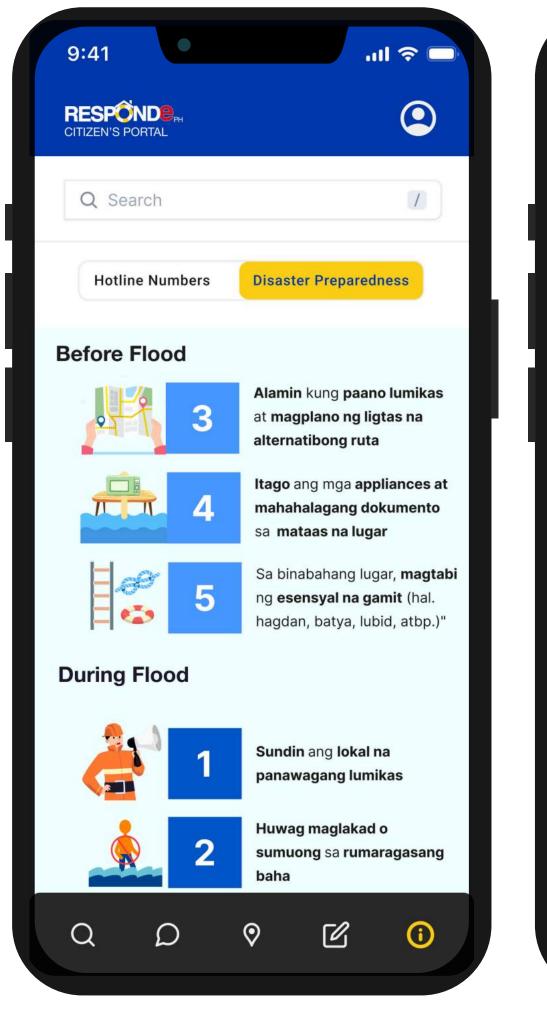
- Emergency cash / credit cards
- Children's essentials (e.g., milk bottle)
- Prescription medicine
- Personal flood plan
- First aid kit
- Flashlight and batteries
- Mobile phone and charger



Manatiling updated sa mga lokal na balita

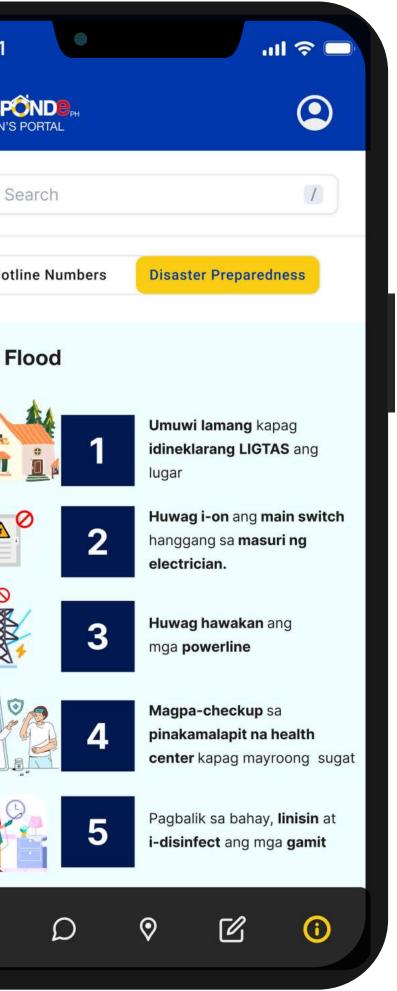
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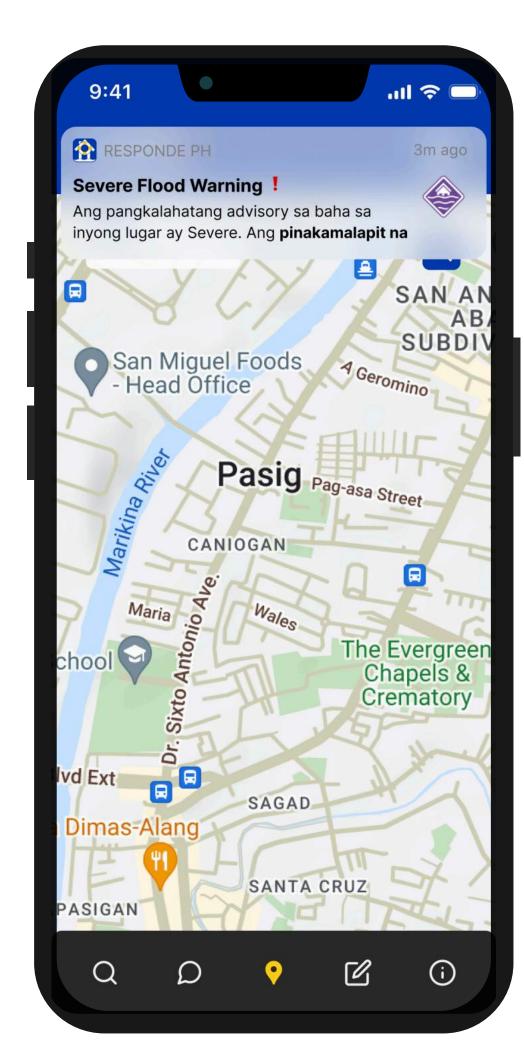


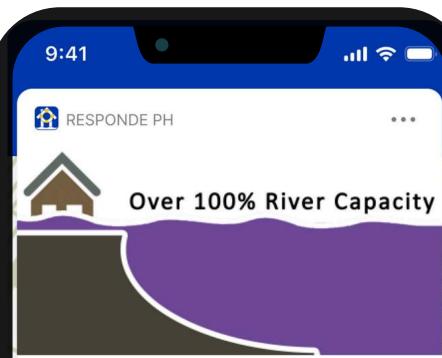


9:41	
RESPONDE CITIZEN'S PORTAL	
Q Search	
Hotline Numbers	Disaster Prep
During Flood	
3	Huwag hawa elektronikong wires, at outl
1 - 4	Magpunta sa na lugar
5	Huwag pilitin baha ang iyo
After Flood	
1	Umuwi lama idineklarang lugar
2	Huwag i-on a hanggang sa electrician.
QD	0 C





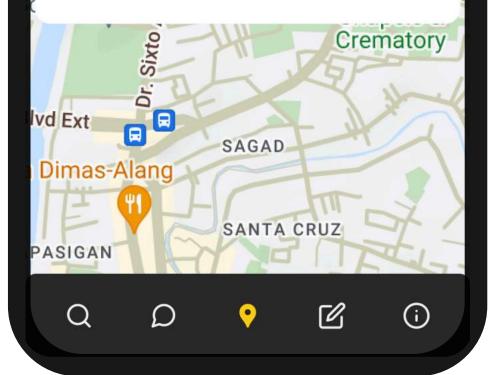




Severe Flood Warning

Ang pangkalahatang advisory sa baha sa inyong lugar ay Severe. Ang pinakamalapit na evacuation center ay sa Rosario Elementary School. Para sa mga emergencies o kung kailangan ng rescue, kontakin ang inyong operator o tawagan ang lokal na emergency hotline.

Kung ang baha ay papasok na sa inyong bahay, patayin ang kuryente at i-unplug ang lahat ng mga kagamitan. Mag-ingat.



ul 🗢 🗖

...

9:41

RESPONDE PH

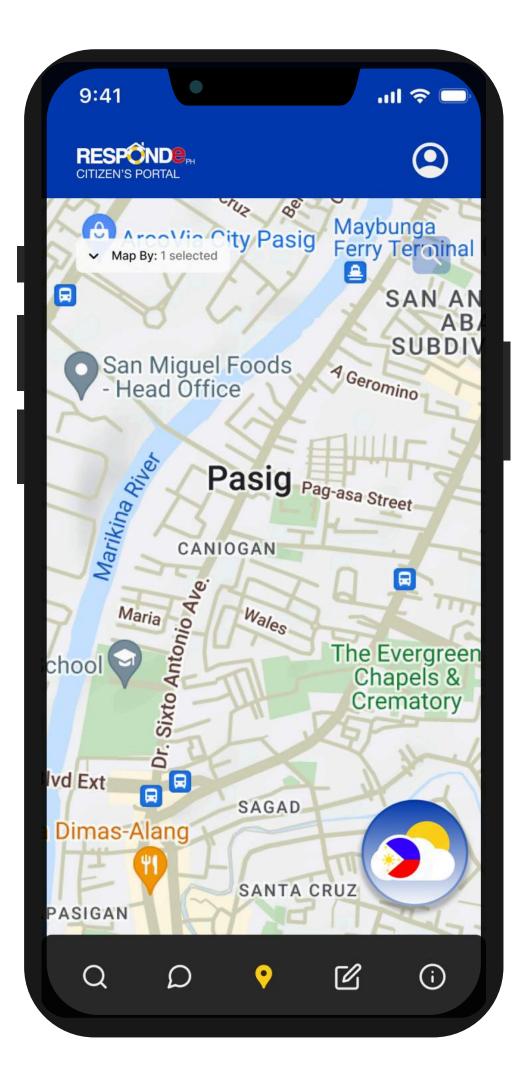
Today 8:35 AM

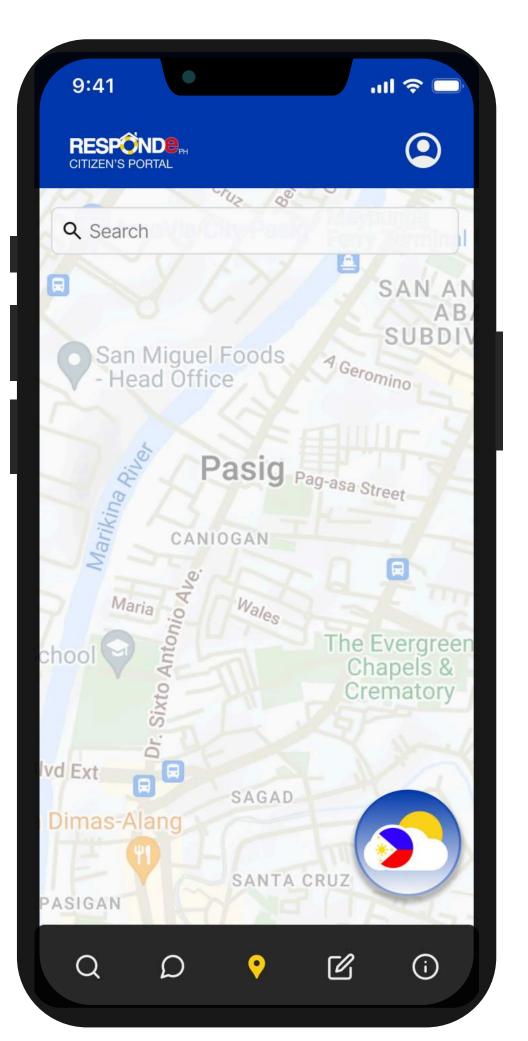
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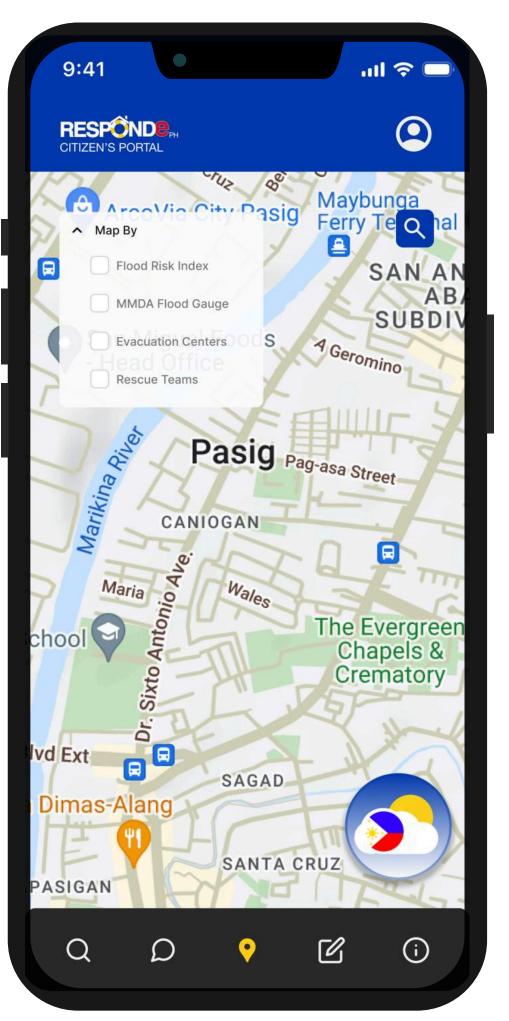
Kung ang baha ay papasok na sa inyong bahay, patayin ang kuryente at i-unplug ang lahat ng mga kagamitan.

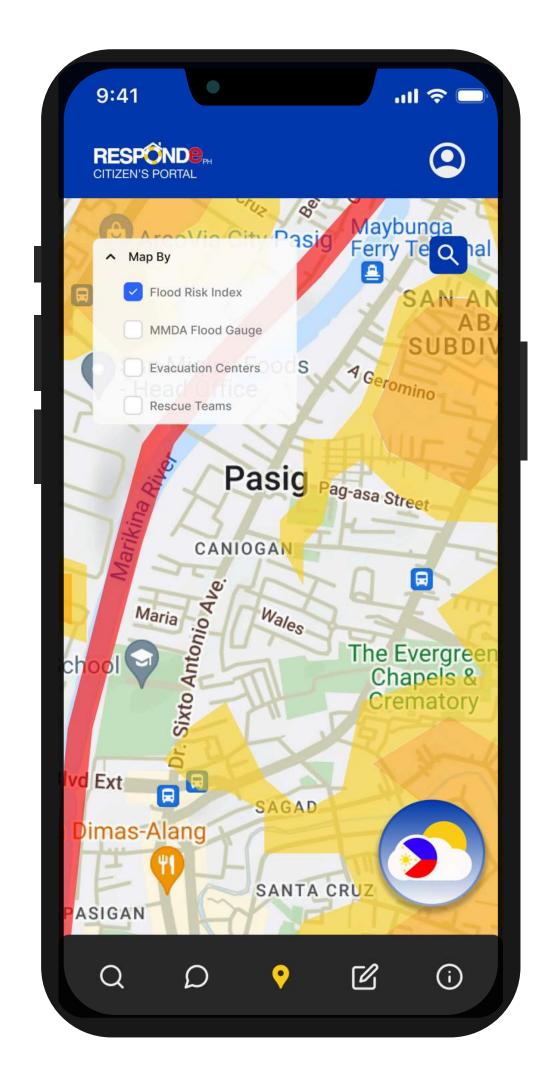
Mag-ingat.

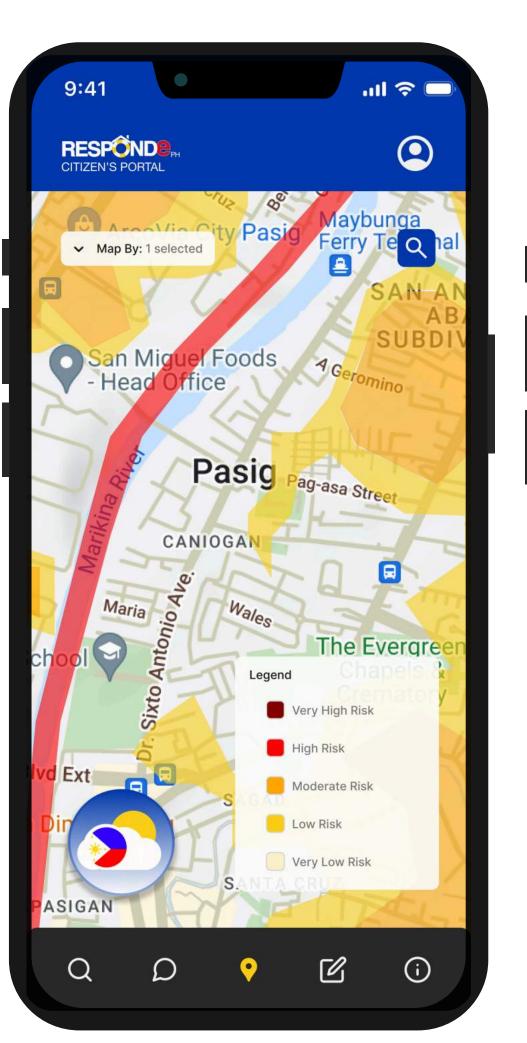
Text Message

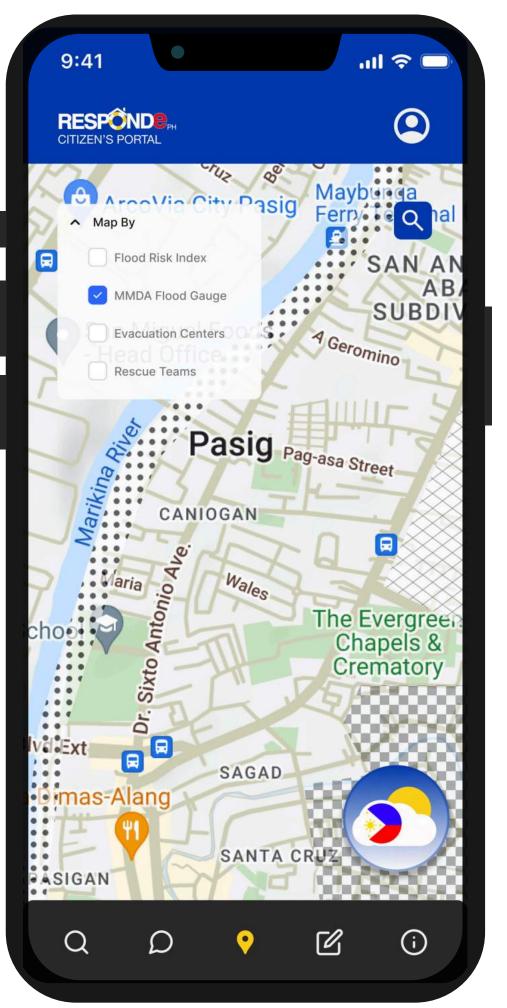


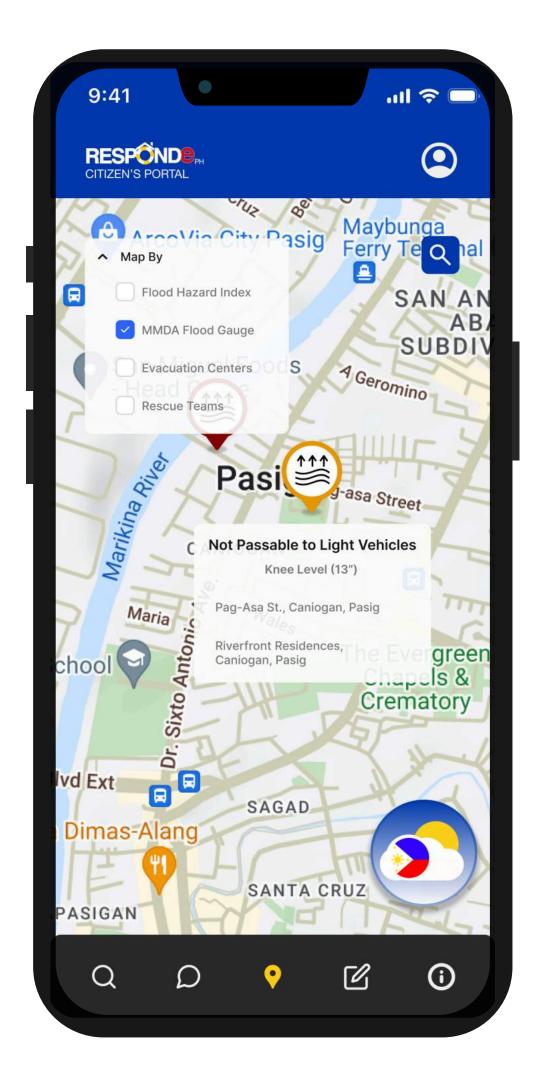




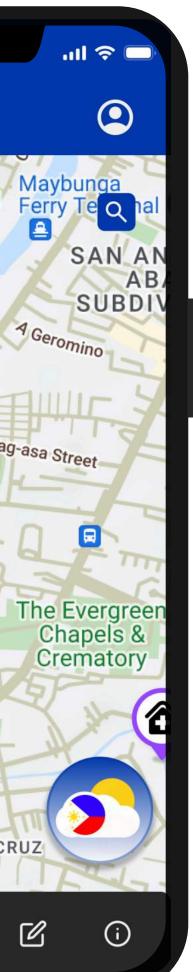


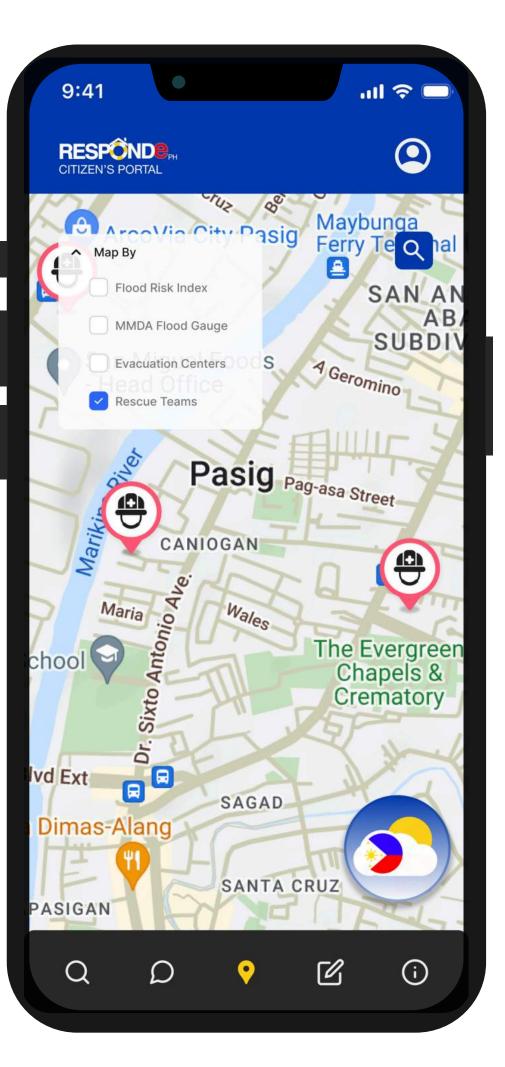






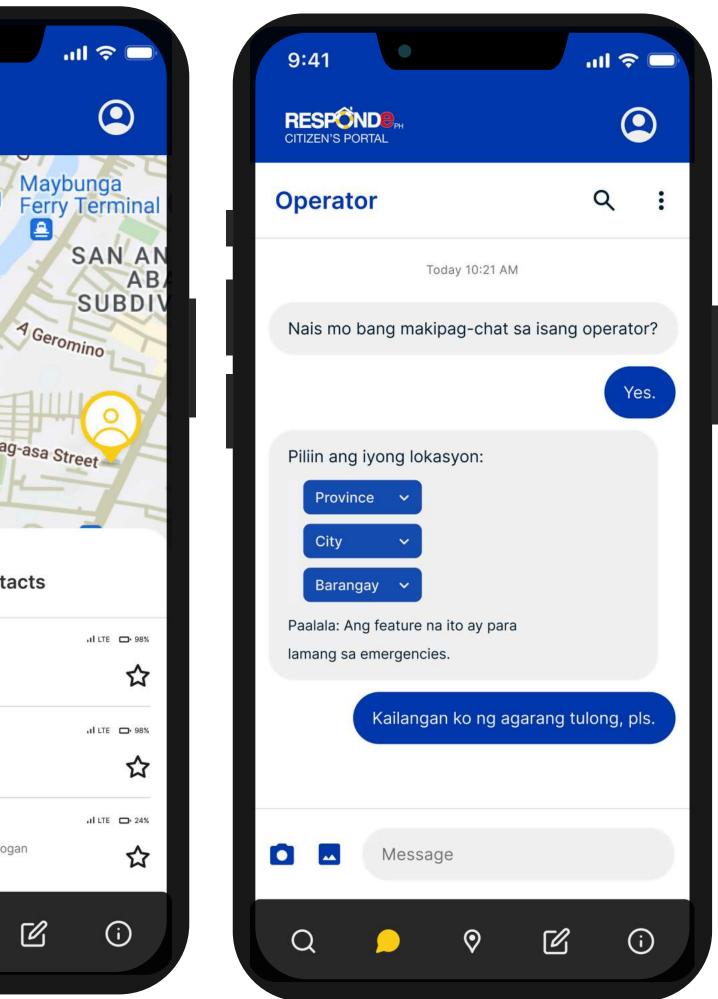
9:41 RESPONDE CITIZEN'S PORTAL 547 Be ArooVia City Pasig Map By Flood Risk Index MMDA Flood Gauge S Evacuation Centers **Rescue Teams** Marikina River Pasig Pag-asa Street CANIOGAN e' Antonio A Wales Maria chool 🕤 Sixto Dr. vd Ext SAGAD **Dimas-Alang** SANTA CRUZ PASIGAN Q Ω 0

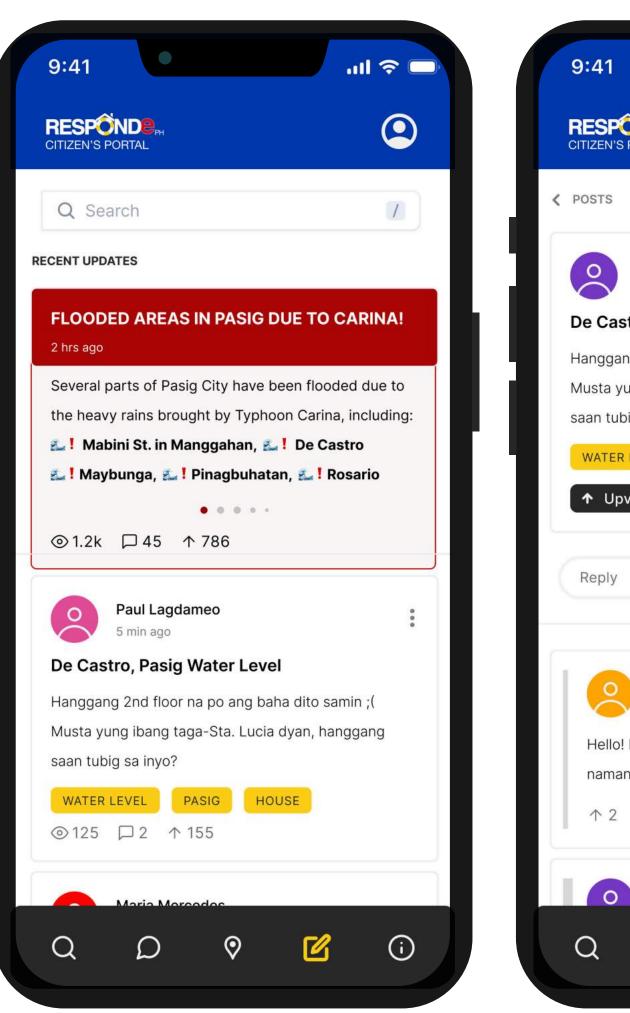




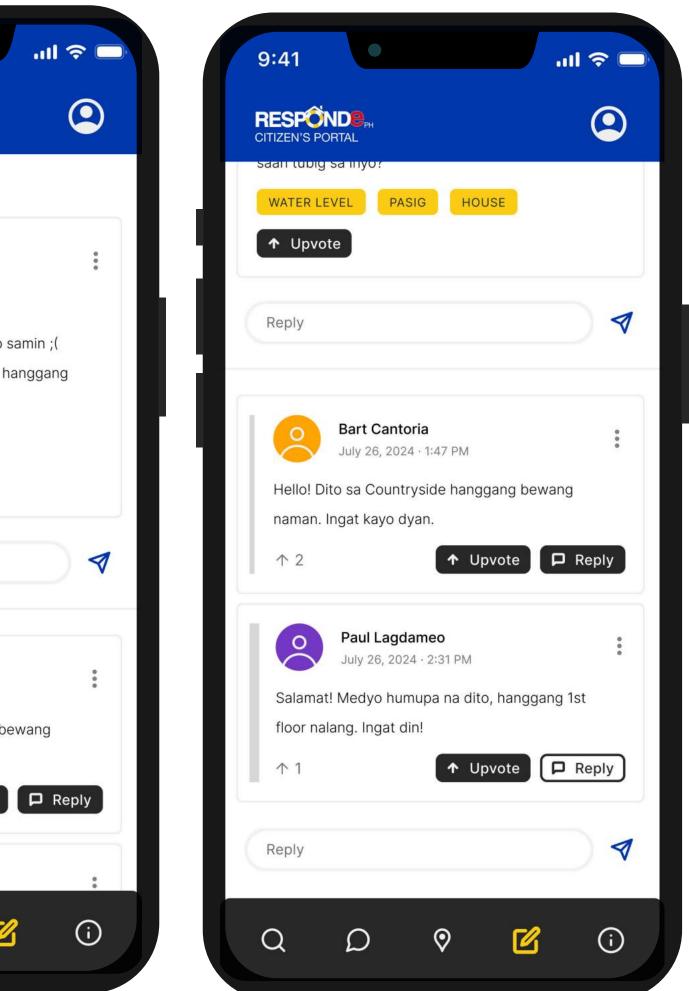


9:41 RESPONDE CITIZEN'S PORTAL B SUL 0 Via City Pasig San Miguel Foods - Head Office Aarikina River Pasig Pag-asa Street 0 IOGAN **Emergency Contacts** Father 0 Near ArcoVia City Pasig Since 2:45 PM Mother 0 Near Pag-asa St., Caniogan Since 2:45 PM Bro AT RISK 0 Near Dr. Sixto Antonio Ave., Caniogan Since 3:07 PM Q Ω 0





RESPONDE CITIZEN'S PORTAL Paul Lagdameo July 26, 2024 · 1:24 PM De Castro, Pasig Water Level Hanggang 2nd floor na po ang baha dito samin ;(Musta yung ibang taga-Sta. Lucia dyan, hanggang saan tubig sa inyo? WATER LEVEL PASIG HOUSE ↑ Upvote **Bart Cantoria** July 26, 2024 · 1:47 PM Hello! Dito sa Countryside hanggang bewang naman. Ingat kayo dyan. ↑ Upvote 🛛 🖵 Reply Paul Lagdameo Ω 0 C



LGU UX



Pasig City, NCR

RESPONDE_{PH}

Tutok *baha*y-bah*ai*!

10:12:23 AM



Partly Cloudy

Sign In

Register

LGU UX



Forecasting

Map View

Pasig City, NCR

Incident Summary

▲ General Flood Advisory: Extreme

Cavite - Mga ilog at mga sangay nito, partikular na ang Laboc (Balsahan), Cañas, Ylang-Ylang, Imus, at Maragondon.

Laguna - Mga ilog at mga sangay nito, partikular na ang Pagsanjan, Pila-Sta. Cruz, San Juan, at San Cristobal.

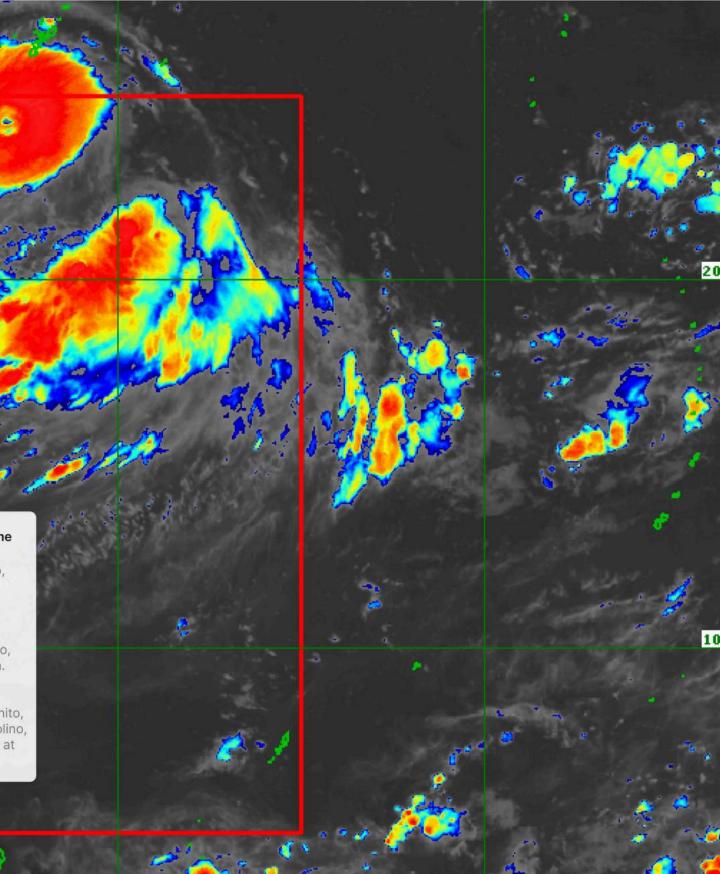
Batangas - Mga ilog at mga sangay nito, partikular na ang Lian, Banabang-Molino, Pansipit, Kapumpong, Rosario-Lobo, at Upper Bolbok (Lawaya).





Live Chat Rescue Navigator

Supplies and Distribution Live Feed



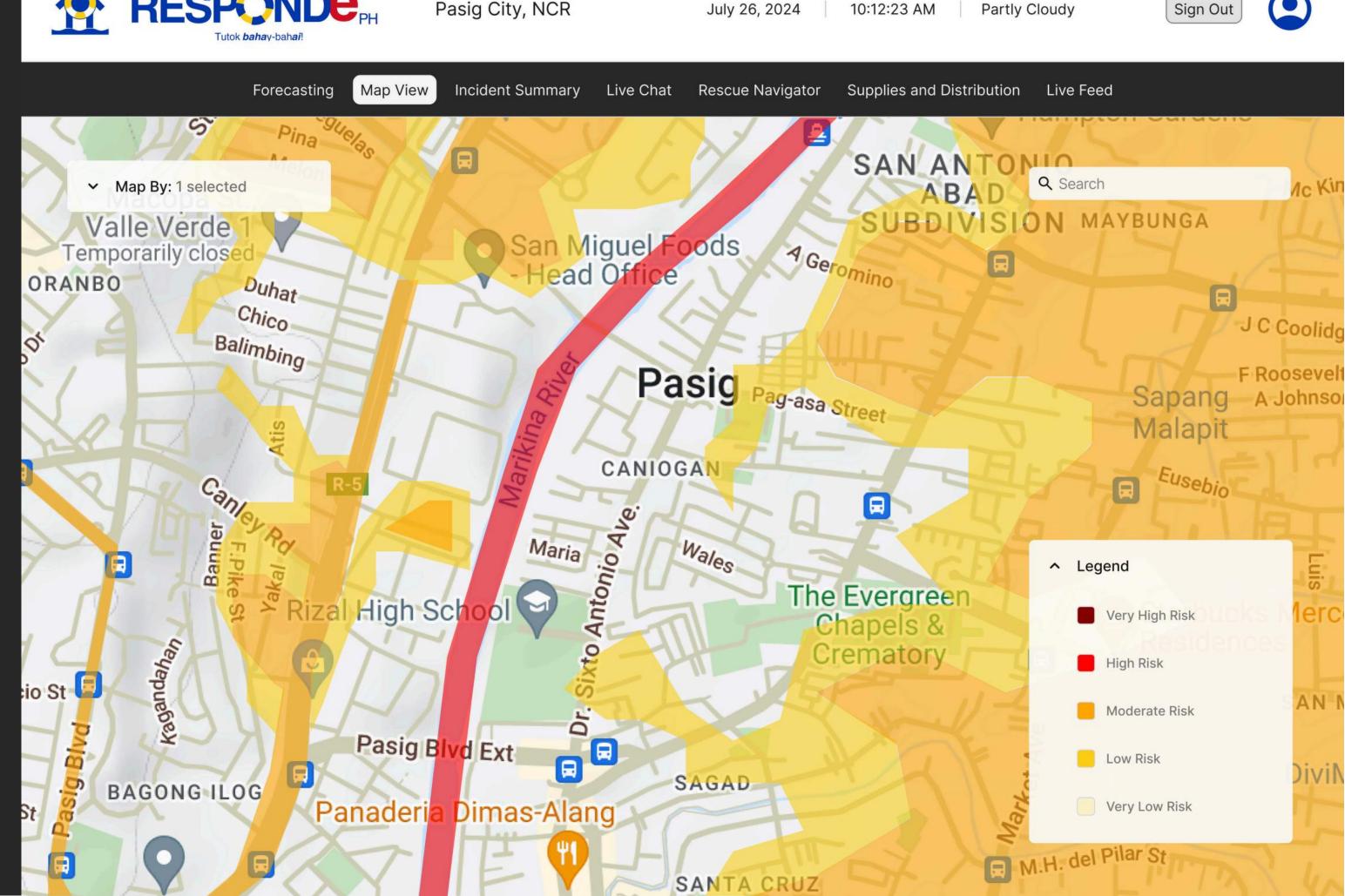
LGU UX

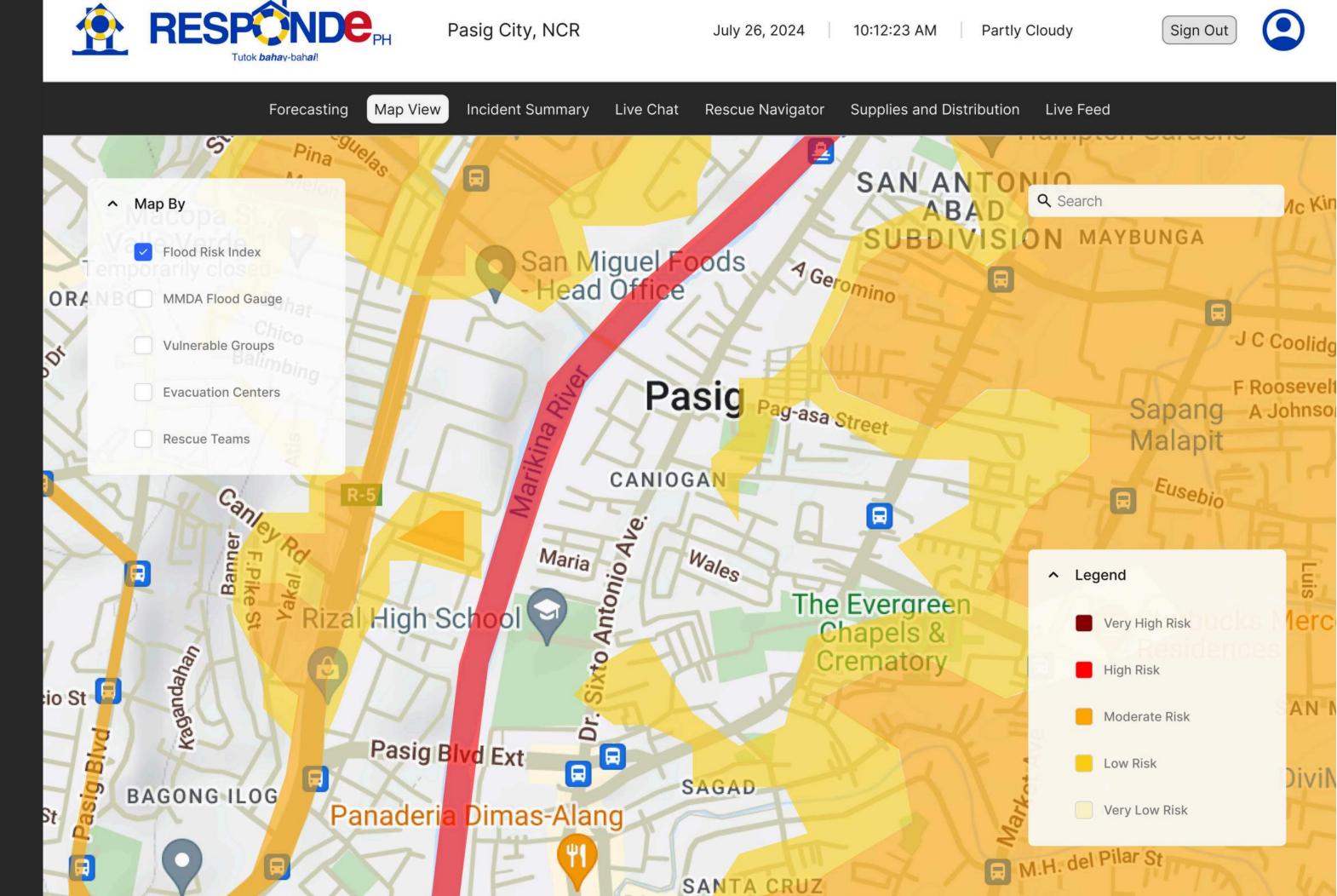


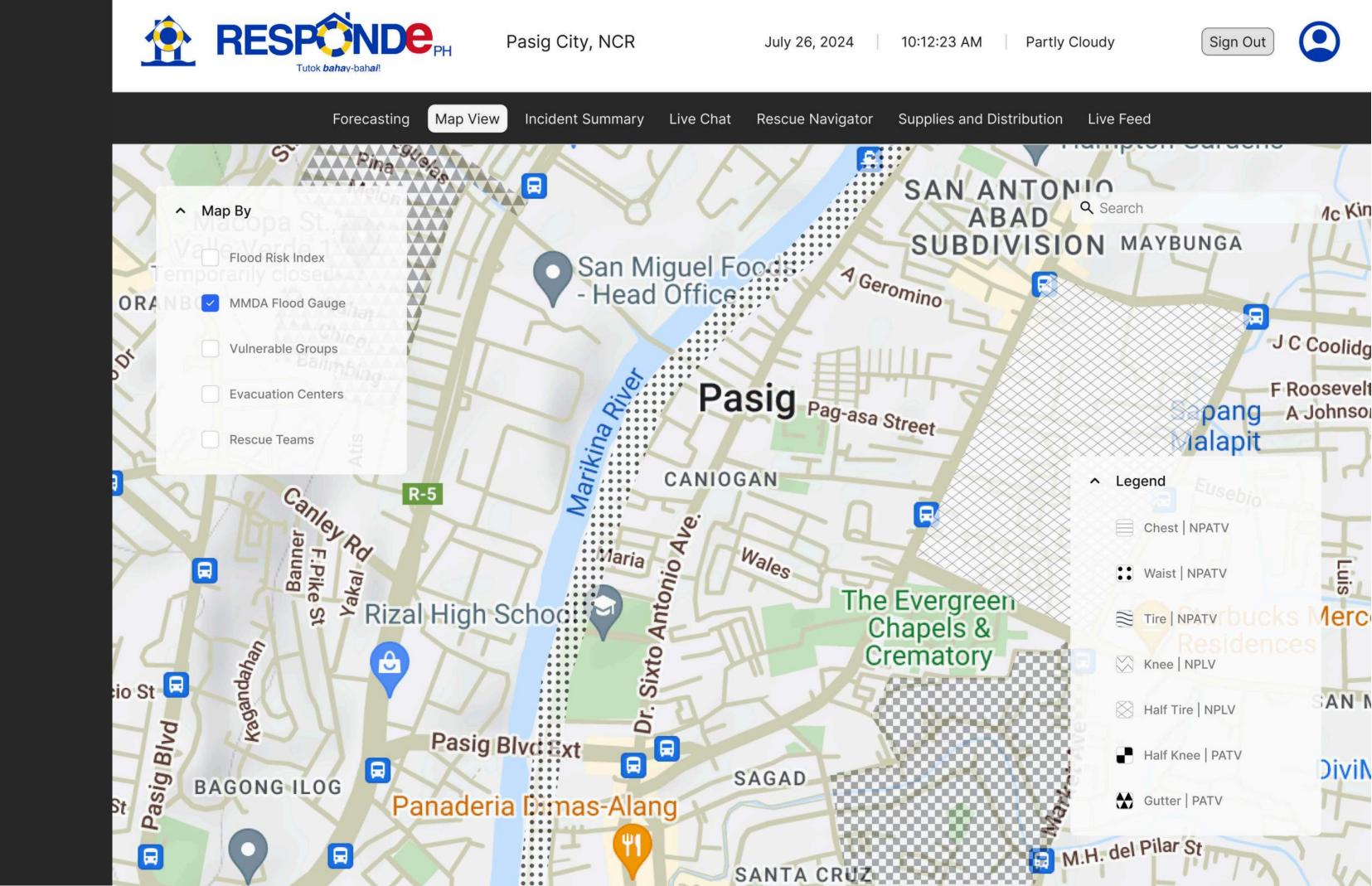
Pasig City, NCR

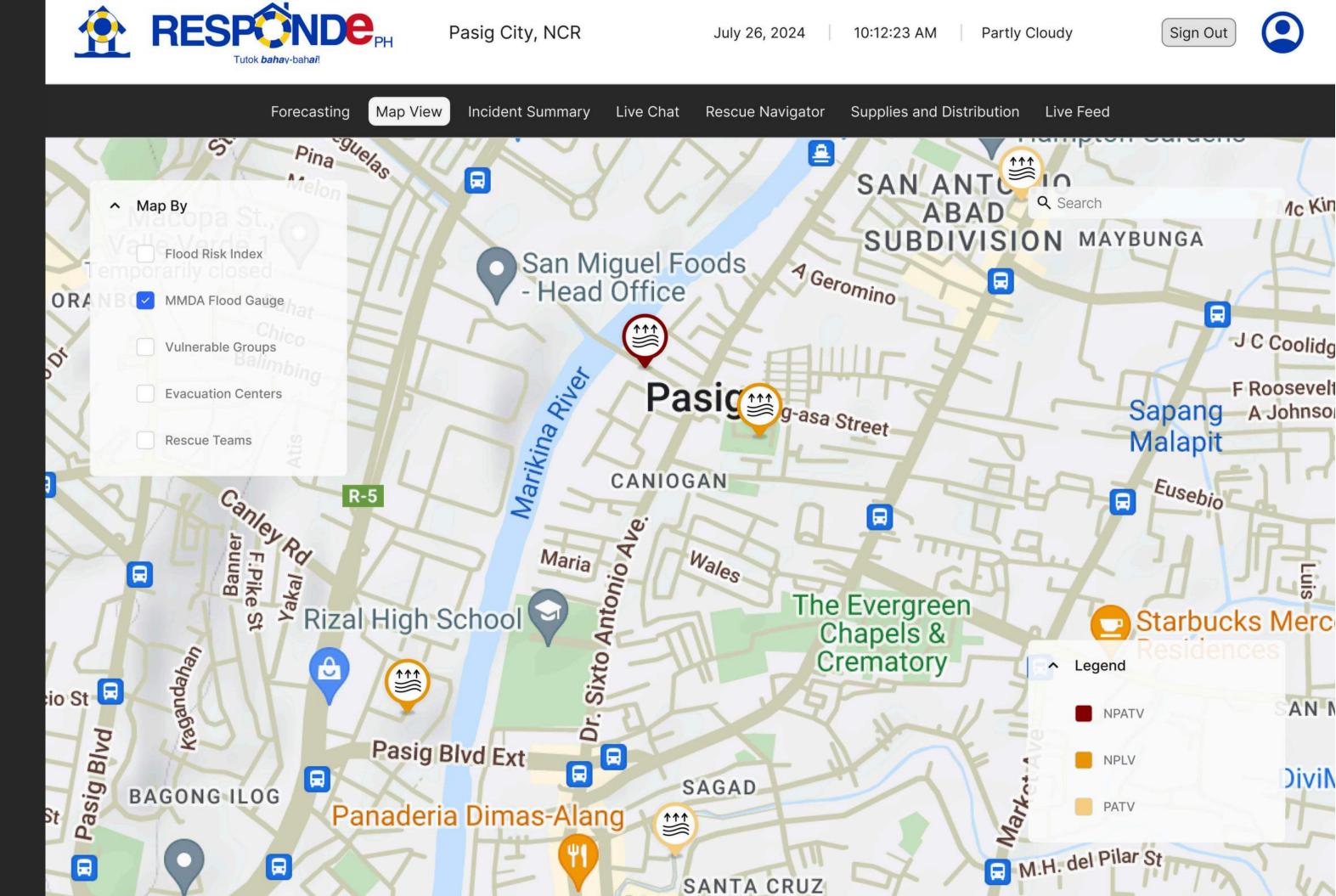
10:12:23 AM

Partly Cloudy



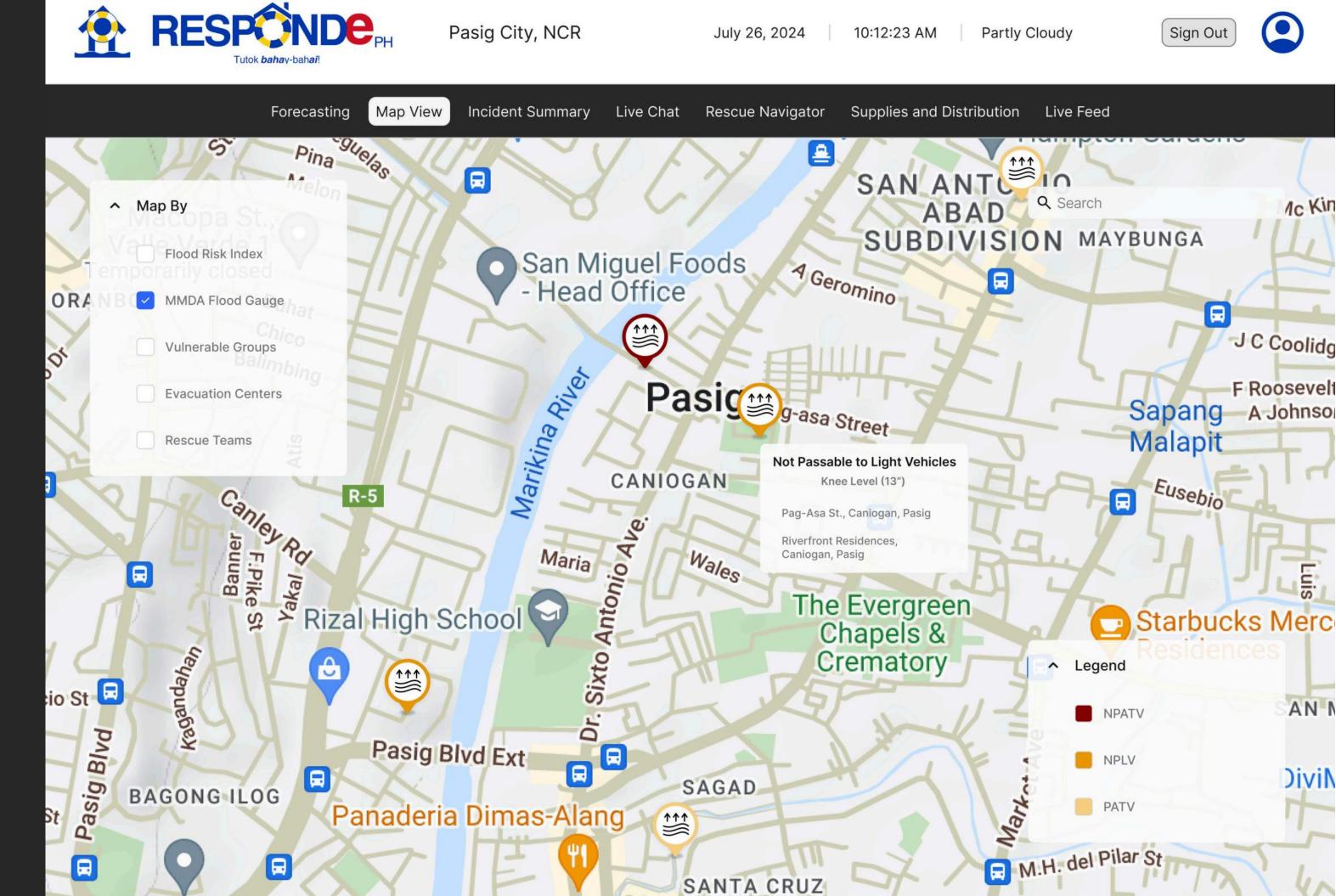






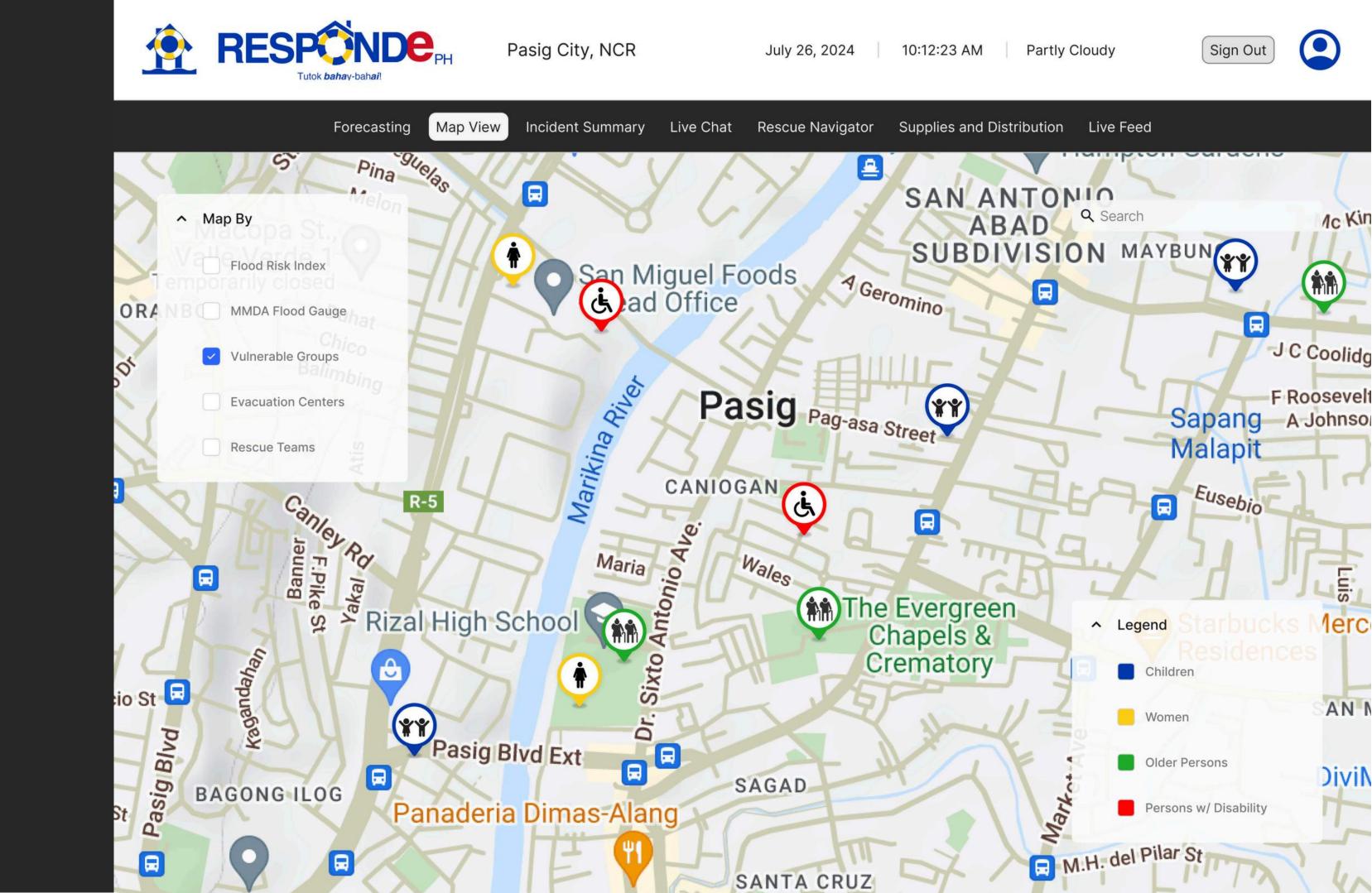


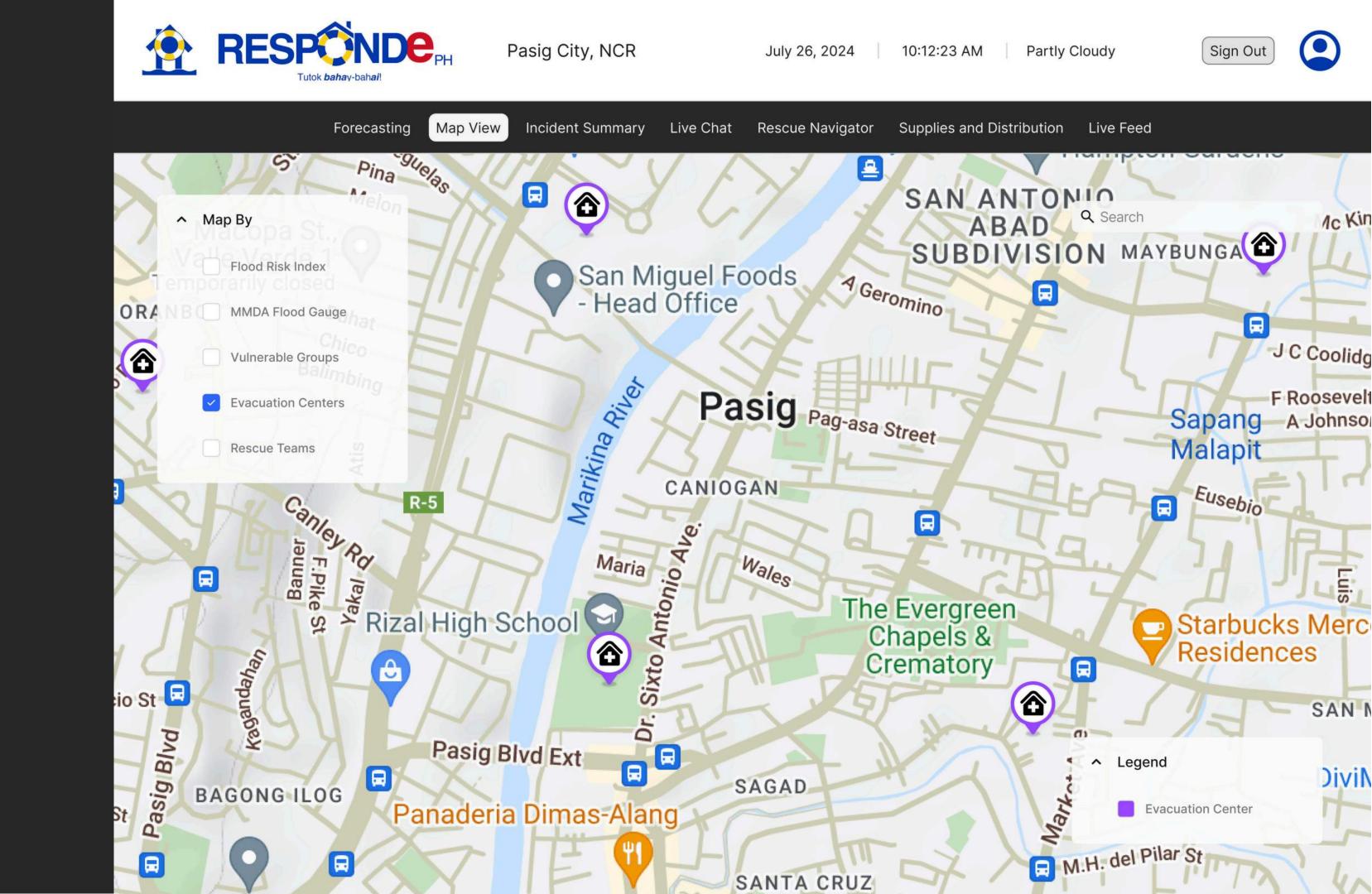


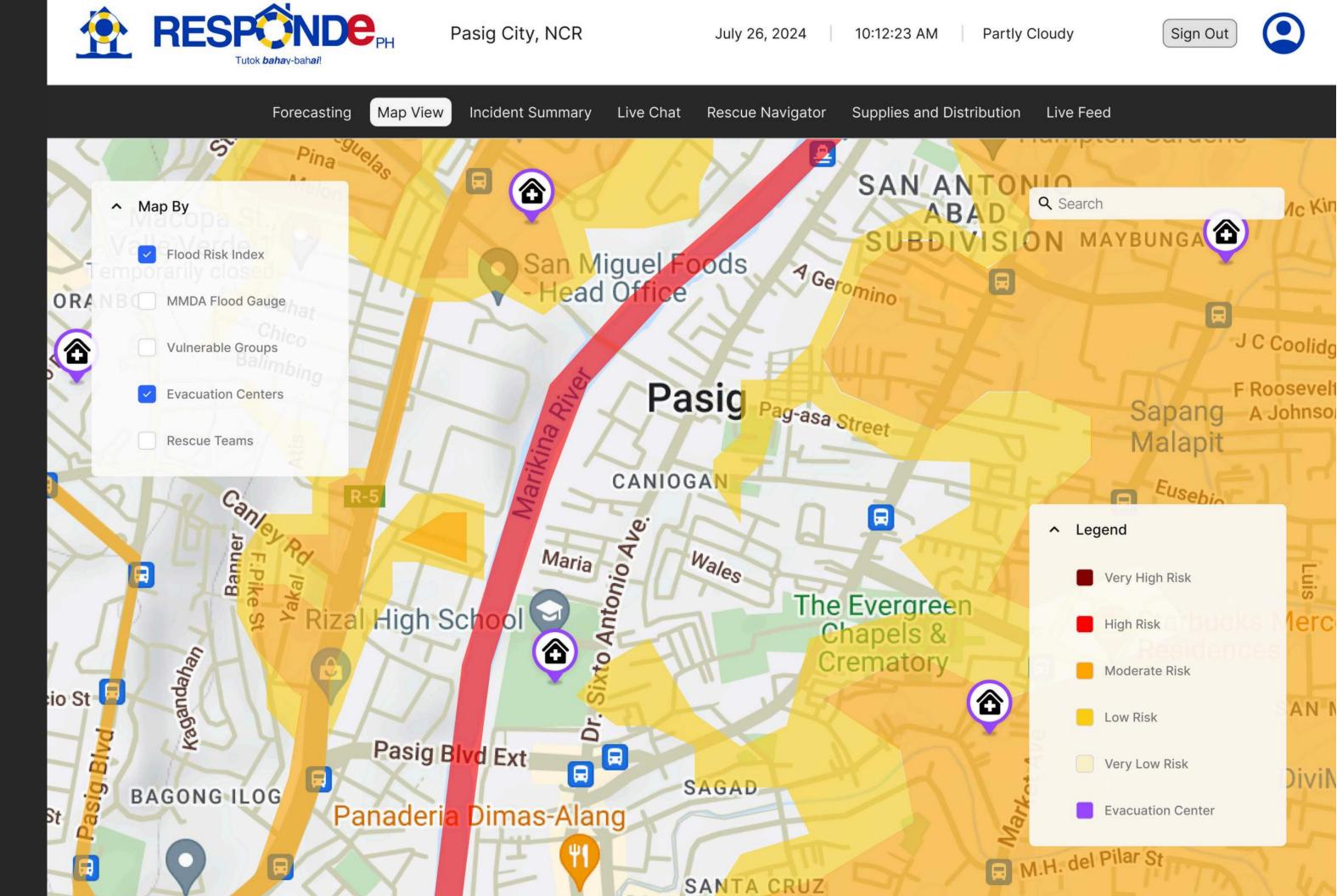


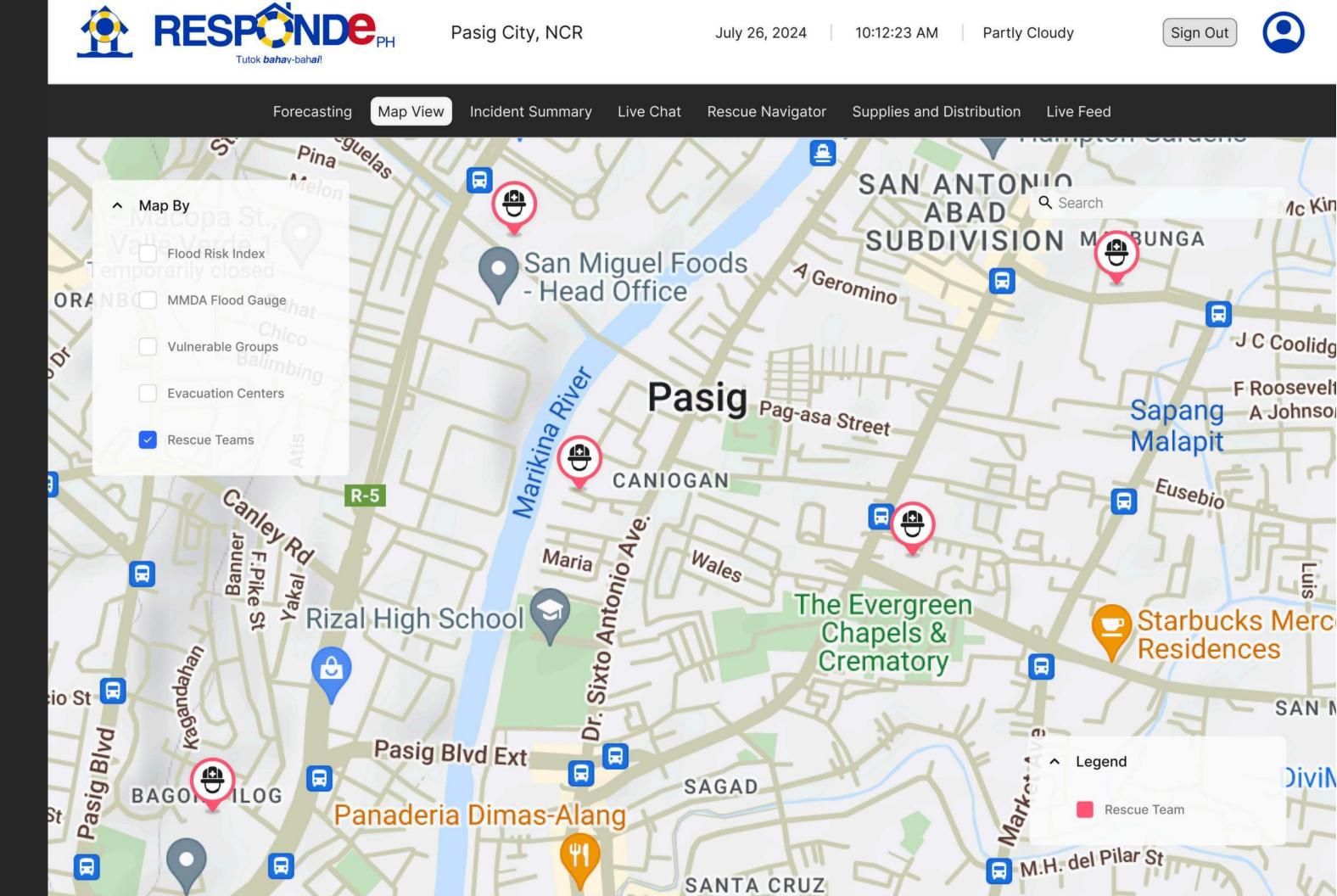














Pasig City, NCR

Forecasting

Map View

Incident Summary Live Chat

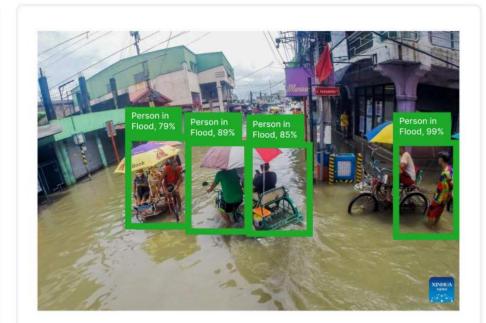
Rescue Navigator Supplies and Distribution Live Feed

INCIDENT SUMMARY





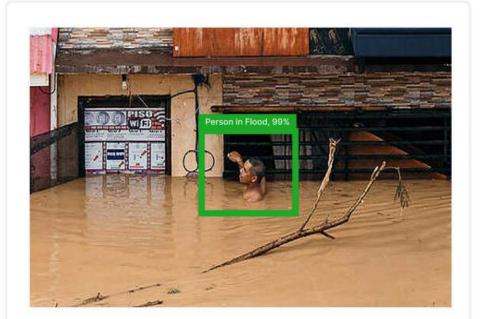
DATE & TIME: July 11, 2024; 2:37 PM PLACE: Floodway, Manggahan



DATE & TIME: July 9, 2024; 12:16 PM PLACE: Tramo, Rosario



DATE & TIME: July 14, 2024; 10:52 AM



DATE & TIME: July 14, 2024; 10:52 AM









DATE & TIME: July 14, 2024; 10:52 AM PLACE: Bliss, Sta. Lucia

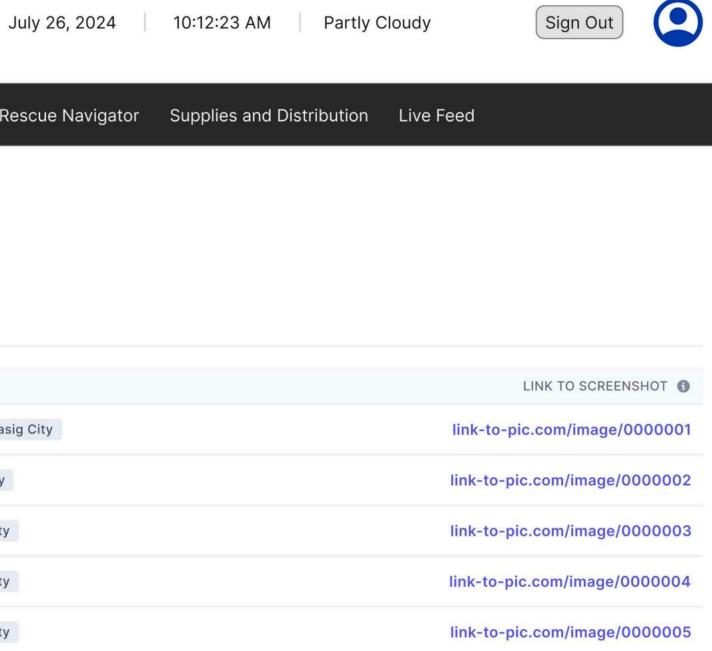


DATE & TIME: July 21, 2024; 5:49 PM



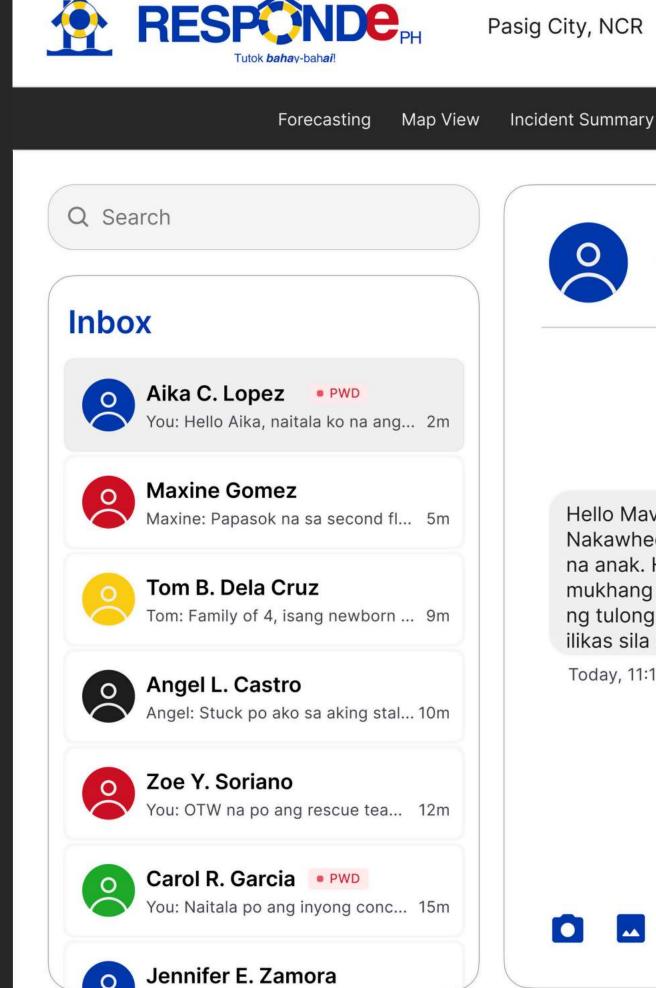
Pasig City, NCR

			Forecasting	Map View	Incident Summa	ary Live C	Chat Rescu
IN	CI	DE	NT SUMMA	RY	Detail Ta	ble	
] [Q Se	arch				
\bigcirc		# \$	DATE 🌲	TIME 🜲	PI	ACE ()	
\bigcirc	\odot	1	July 11, 2024	2:37 PM	F	Floodway, Mang	ıgahan, Pasig Cit
\Box	\odot	2	July 9, 2024	12:16 PM		Γramo, Rosario,	Pasig City
	\odot	3	July 14, 2024	10:52 AM	E	Bliss, Sta. Lucia	, Pasig City
	\odot	4	July 14, 2024	10:52 AM	E	Bliss, Sta. Lucia	, Pasig City
\bigcirc	\odot	5	July 14, 2024	10:52 AM	E	Bliss, Sta. Lucia	, Pasig City
	\odot	6	July 21, 2024	5:49 PM		Jenny's Avenue,	Rosario, Pasig C



link-to-pic.com/image/0000006

City



Pasig City, NCR

Live Chat

Hello Mavy, ako si Aika, taga-Barangay Santolan. Nakawheelchair ako at mayroong dalawang maliit na anak. Hanggang dibdib na ang baha sa amin at mukhang di titigil sa pagtaas. Kailangan po namin ng tulong sa paglilikas agad! Nahihirapan po akong ilikas sila dahil ako po ay nakawheelchair.

Today, 11:12 AM





Rescue Navigator Supplies and Distribution Live Feed

Aika C. Lopez

Barangay Santolan, Pasig

Today 11:11 AM

Hello, si Mavy ito mula sa Pasig Emergency Response Unit. Ano ang iyong emergency?

Hello Aika, naitala ko na ang iyong lokasyon at sitwasyon. Nagpapadala na kami ng team sa iyong lugar agad. Bibigyan kita ng update tungkol sa ipinadalang rescue team. Manatiling makipagugnayan sa amin hangga't di dumadating ang rescue team.

Sent 2m ago

Type your message here...



Pasig City, NCR

		Forecasting	Map View	Incident Summary	Live Chat	Rescue Navigator	Supplies and D	Distribution	Live Feed	
PRIC	ORITY	RESCUE	IDEN	TIFIER						^
	▼ All ~	Q Search	1							+ New Entry
All 19	Vulnerable	4 Healthy Adult 4	Pet or Plar	Archived	9					
0	# 🖨 NAM	E \$		PROFILE ()		С	ATEGORY 🜲			LOCATION (
\bigcirc	1 Jieu	n Lee		Female, Senior Citizer	n, With Comorb	bidities	Vulnerable		Rainforest Driv	ve, Maybunga, Pasig City
0	2 Cha	opell Roan		Female, Middle-Aged	, Mother of 2		Healthy Adult		Jenny's Ave	enue, Rosario, Pasig City
0	3 Sola	r		Dog: Shih-Tzu, Brown	and White Fur		Pet or Plant	Camia St.	, De Castro Subdivisio	on, Sta. Lucia, Pasig City
0	4 Sear	n Catacutan		Male, Young Adult			Healthy Adult	Nile Bldg	., Riverfront Residenc	es, Caniogan, Pasig City
0	5 Mary	y Loi Yves Ricalde		Female, PWD: Difficul	ty Hearing, You	ung Adult	• Vulnerable	Monggo S	t., Napico Subdivision	, Manggahan, Pasig City
\bigcirc	6 Kai			Cat: Siamese, White F	ur		Pet or Plant	Nile Bldg	., Riverfront Residenc	es, Caniogan, Pasig City
0	7 Just	in Paolo Canlas		Male, Middle-Aged, F	ather of 3		Healthy Adult	Camia St.	, De Castro Subdivisio	on, Sta. Lucia, Pasig City
0	8 Ma.	Nicolette Vergara		Female, Child			• Vulnerable	Monggo S	t., Napico Subdivision	, Manggahan, Pasig City
0	9 Igna	tius Loyola III		Male, Senior Citizen,	With Comorbid	ities	• Vulnerable		Jenny's Ave	enue, Rosario, Pasig City
\Box \odot	10 Ian A	Arceta		Male, Young Adult			Healthy Adult		Rainforest Driv	re, Maybunga, Pasig City







Pasig City, NCR

Map View Incident Summary Forecasting

Live Chat

PRIORITY RESCUE IDENTIFIER

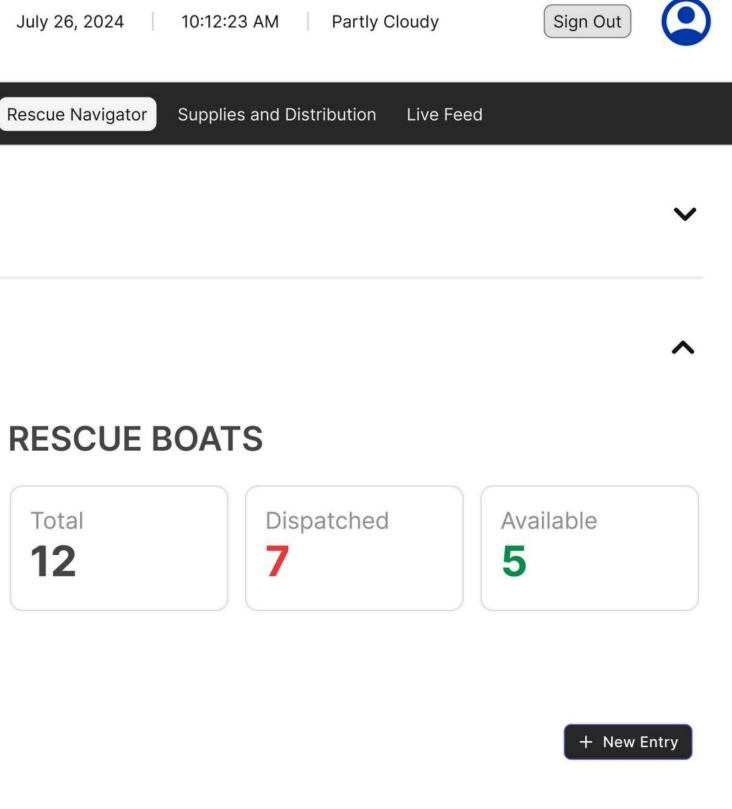
RESCUE RESOURCES

RESCUE TEAMS



RESCUE TEAM UPDATES

	T A	II - Q Search		
All 143	Dis	patched 57 Available 86		
0	# \$	TEAM MEMBERS	CATEGORY \$	CONTACT NUMBER/S
0	1	Juan dela Cruz, Tom Reyes	Dispatched	09981213452
0	2	Maria Tolentino, Rod Sanchez,	• Available	09157265399
0	3	Wil Ildefonso, Peter Santos, Er	ik • Dispatched	09230973434
	4	Patricia Jimenez, Jansen Cruz	• Dispatched	09982327656



LAST LOCATION	LAST UPDATE
Rainforest Drive, Maybunga, Pasig City	🖃 15 Jul 2024, 12:47 PM
Rainforest Drive, Maybunga, Pasig City	🖃 14 Jul 2024, 2:36 AM
Jenny's Avenue, Rosario, Pasig City	E 15 Jul 2024, 6:12 PM
Rainforest Drive, Maybunga, Pasig City	🖃 13 Jul 2024, 1:25 AM



Pasig City, NCR

Map View Incident Summary Forecasting

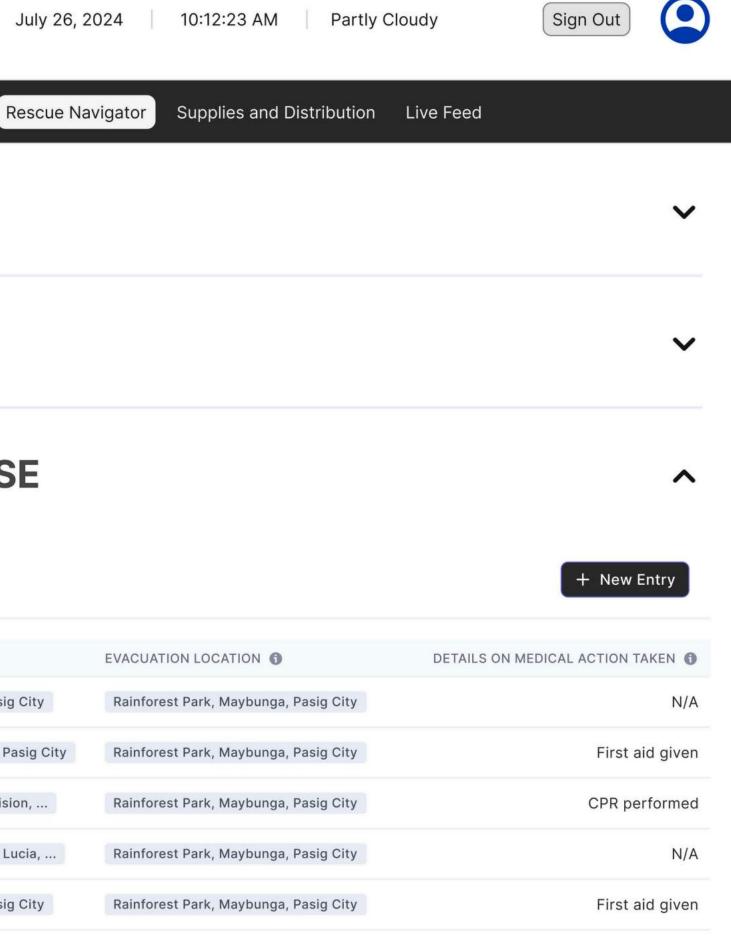
Live Chat

PRIORITY RESCUE IDENTIFIER

RESCUE RESOURCES

REAL-TIME RESCUED PEOPLE DATABASE

	QS	Search		
0	# \$	NAME 🌲	RESCUE TIME 🜲	RESCUE LOCATION
00) 1	Sabrina Plumber	14 Jul 2024, 12:51 AM	Jenny's Avenue, Rosario, Pasig Cit
0	2	Conan Peach	22 Jul 2024, 10:10 PM	Rainforest Drive, Maybunga, Pasig
0) 3	Saekyeong Shin	5 Jul 2024, 1:35 AM	Camia St., De Castro Subdivision, .
0) 4	Jolina Madrigal	7 Jul 2024, 7:47 PM	Marietta Romeo Village, Sta. Lucia
0) 5	Bryan Magpantay	16 Jul 2024, 12:06 AM	Jenny's Avenue, Rosario, Pasig Cit
0	6	Priscilla Tan-Ching	21 Jul 2024, 9:11 AM	Rainforest Drive, Maybunga, Pasig
0) 7	Jongsuk Lee	10 Jul 2024, 3:56 PM	Marietta Romeo Village, Sta. Lucia



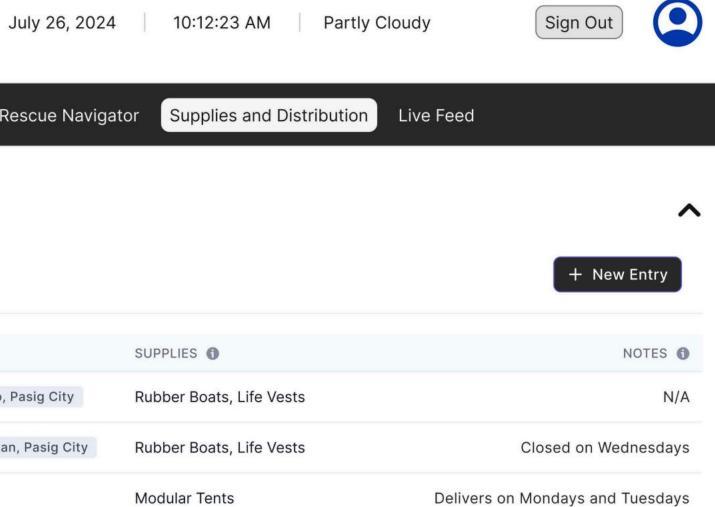
g City Rainforest Park, Maybunga, Pasig City N/A а, ... N/A Rainforest Park, Maybunga, Pasig City



Pasig City, NCR

			Forecas	ing Map Vi	ew Incident	Summary	Live Chat	Rescu
RE	S	OU		PLIER	S			
		Q Se	earch					
		# \$	NAME \$	CONTAC	T NUMBER/S 🚯	LOCATI	on 🚯	
\Box	\odot	1	Boat Shop	(02) 7-2	265-9234	Jenny	's Avenue, Rosar	rio, Pasig
\Box	\odot	2	Bahay Bangka	(02) 7-3	347-1526	Nagpa	ayong, Pinagbuh	atan, Pas
\bigcirc	\odot	3	Evac-Etivac	092712	78193	Cavite	e City, Cavite	

RELIEF GOODS DISTRIBUTION TRACKER



V



Pasig City, NCR

	Forecasting	Map View Incident Sum	mary Live Chat Rescue Navi	igator Supplies and Distribution Live Fe	ed
RESOU	RCE SUPPL	IERS			~
RELIEF	GOODS DIS	TRIBUTION	TRACKER		^
	earch				+ New Entry
	earch SCHEDULE 🜲	CONTACT NUMBER/S	LOCATION (AVAILABLE GOODS	+ New Entry STATUS (
a s			LOCATION 1 Jenny's Avenue, Rosario, Pasig City		
■ Q s	SCHEDULE 🌲	CONTACT NUMBER/S		y Packed Rice, Canned Goods, Noodles	STATUS 🕤

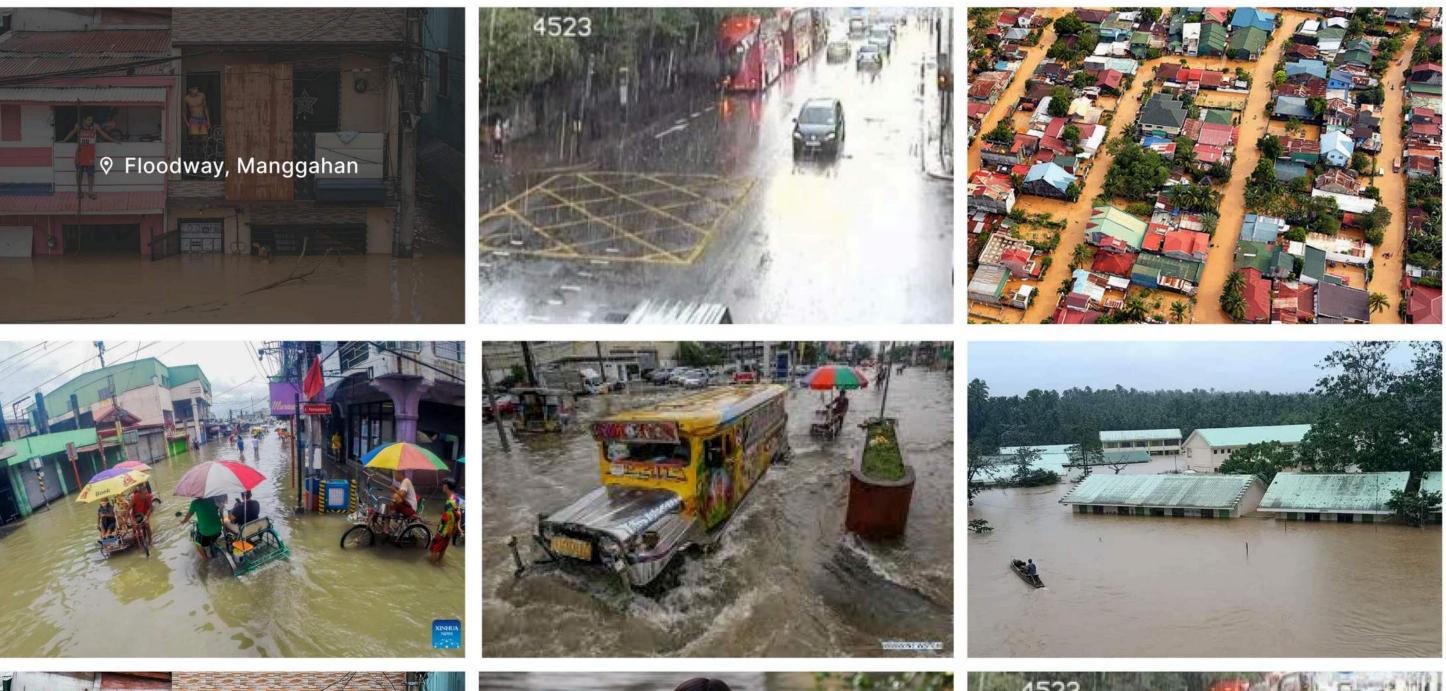




Pasig City, NCR

Forecasting Map View Incident Summary Live Chat

CAMERA FEED













Rescue Navigator

Supplies and Distribution

Live Feed