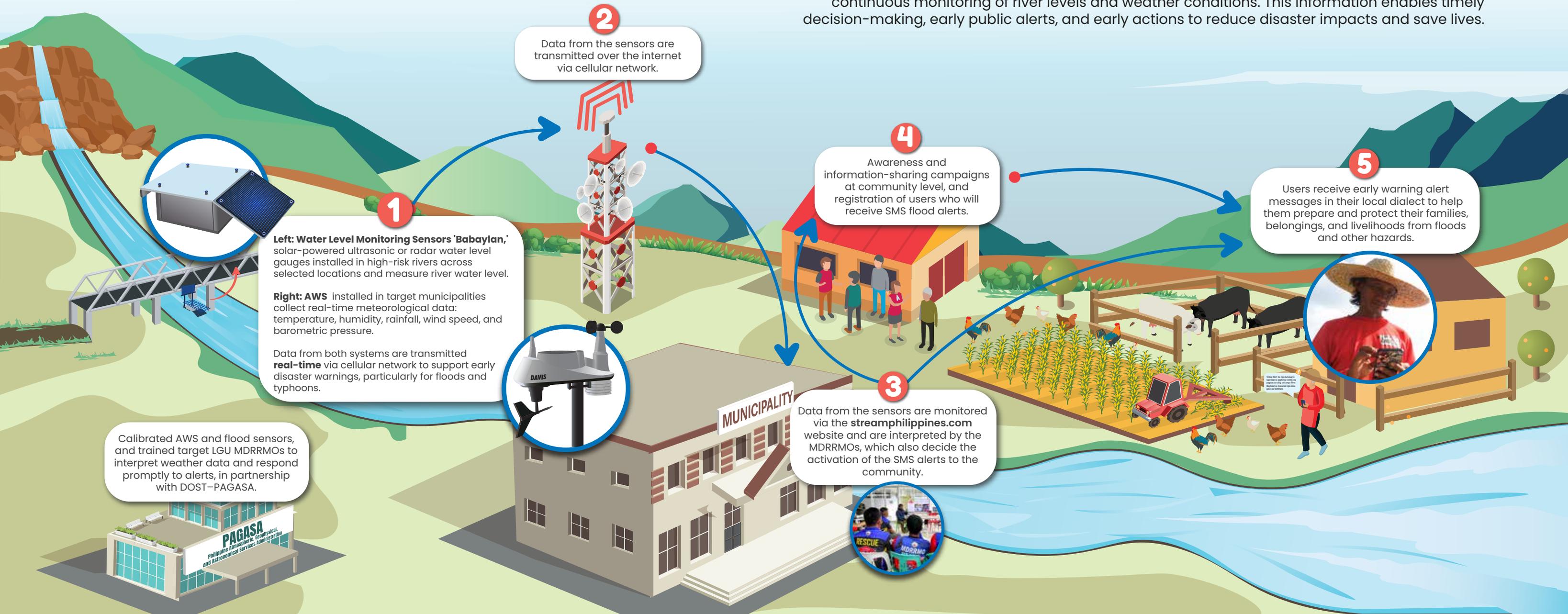


# Turning Data into Early Warnings: The STREAM-EWS Process

**STREAM-EWS** is a community-based early warning system designed to help local populations and government units anticipate and respond to flood and typhoon risks. By combining solar-powered flood sensors, Automated Weather Stations (AWS), and real-time data transmission, the system enables continuous monitoring of river levels and weather conditions. This information enables timely decision-making, early public alerts, and early actions to reduce disaster impacts and save lives.



# STREAM-EWS

## Strengthening Resilience through Early Action and Impact Mitigation - Early Warning System

Our **STREAM-EWS** enhances disaster preparedness in target **flood-prone areas across the Philippines** by delivering real-time, localized early warnings directly to communities.

This system broadcasts alerts via SMS and social media in partnership with local Disaster Risk Reduction and Management Office, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), and Smart Communications.



### How it Works

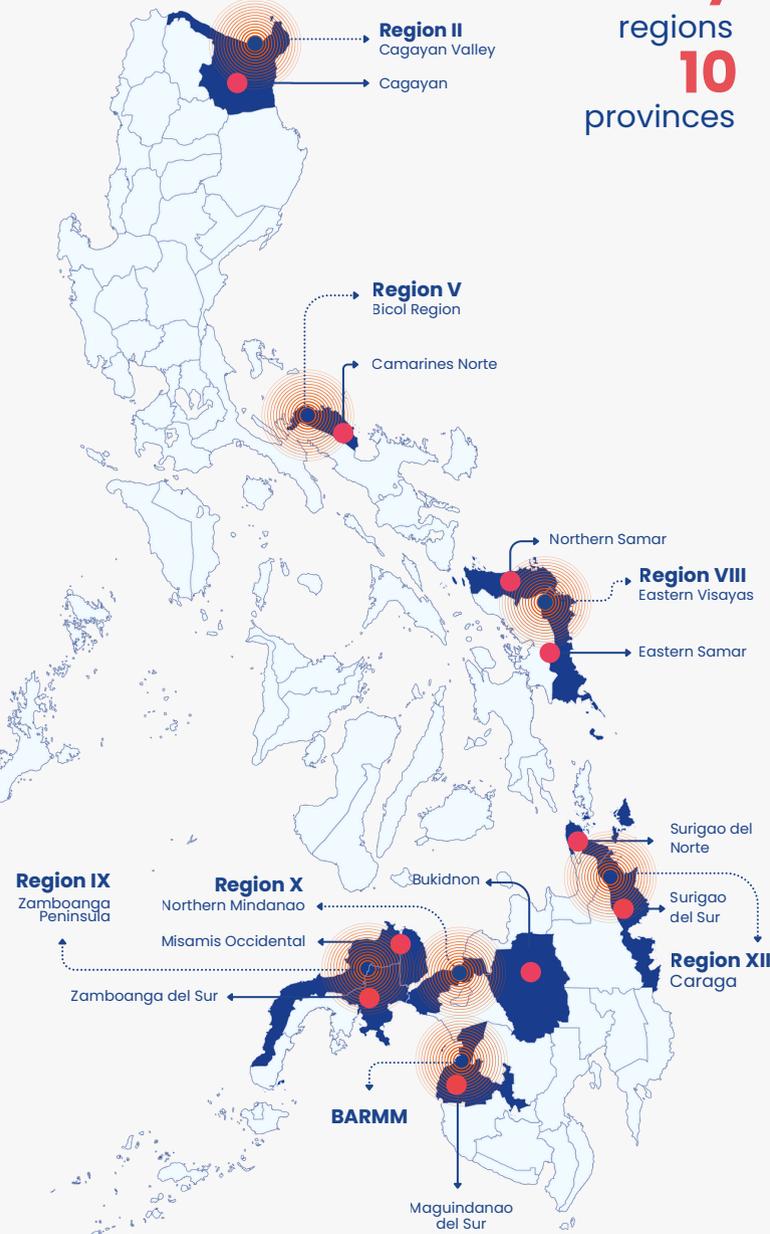
- 36 water level flood sensors and 24 Automated Weather Stations** are installed in target communities
- Registration campaigns** encourage communities to sign up for STREAM-EWS
- 173 communities** receive early warning messages
- Flood monitoring dashboard** provides LGUs with real-time river water-level data
- Automated flood early warning alerts** are sent to registered users

### What we've done

- 36 water level flood sensors and 24 AWS** installed
- 73,400+ persons** registered and received early warning messages
- More than 1,500 stakeholders** from the disaster risk reduction sector engaged
- 7 regions, 10 provinces, 24 municipalities** covered
- 365,000** people in target communities engaged in IEC campaigns
- More than \$500,000** investment unlocked from other sources

## STREAM-EWS Areas

**7** regions  
**10** provinces



### ABOUT US

Since 2013, People in Need has been committed to addressing the Philippines' most pressing challenges. Our work began in response to Typhoon Haiyan (Yolanda), one of the strongest storms in history, strengthening our dedication to the Filipino people. In a country affected by disasters, inequalities, and widespread poverty, we focus on three core pillars: **Emergency Response and Recovery, Inclusive Governance, Climate Resilience, and Civil Society and Inclusive Governance.**

#### Emergency Response and Recovery

Located along the Pacific Ring of Fire, the Philippines is highly exposed to multiple hazards, including typhoons, floods, earthquakes, and volcanic eruptions. Together with local partners, we deliver principled, relevant, timely, and high-quality humanitarian assistance to save lives, alleviate suffering, and uphold the dignity of affected populations.

In recent years, we have responded to typhoon-affected communities in Luzon and earthquake-affected areas in Mindanao, with a focus on Mental Health and Psychosocial Support (MHPSS) and Education in Emergencies (EIE), alongside the provision of essential assistance such as food, shelter, and hygiene kits. We continue to respond to recurring small- and medium-scale disasters and humanitarian crises across the country, linking immediate emergency response with early recovery efforts.

#### Climate Resilience

We work with partners and communities to reduce economic and non-economic losses and damages caused by climate change, particularly from extreme weather events. Our climate resilience initiatives focus on disaster risk management, including Flood Early Warning Systems that provide real-time flood data and reliable alerts, as well as community-based preparedness and contingency planning across the Philippines.

In the Bangsamoro Autonomous Region in Muslim Mindanao (BARMM), we integrate climate resilience into agri- and aqua-culture value chains by strengthening the quality and diversity of coffee and seaweed production, supporting inclusive and sustainable livelihoods that are better able to withstand climate shocks.

Our work builds on earlier recovery and resilience efforts, including renewable energy initiatives in the Visayas that supported household energy needs and livelihoods, and post-Typhoon Yolanda (Haiyan) interventions that helped restore livelihoods and address food insecurity in severely affected communities.

#### Civil Society and Good Governance

We work to promote inclusive, transparent, and accountable governance that responds to the needs and priorities of citizens. Guided by Locally Led Approach principles, we partner with a diverse range of local civil society organizations, from small and emerging to larger groups and nation-wide networks, recognizing their leadership, expertise, contextual knowledge, and accountability to the communities they serve.

We support civil society actors to meaningfully engage in public decision-making, advocate for people's rights, and strengthen collaboration across local stakeholders. By reinforcing local ownership and collective action, we help make governance processes more accountable, responsive and inclusive to community needs.



## STREAM-EWS

### Strengthening Resilience through Early Action and Impact Mitigation Early Warning System

For feedback, suggestions, complaints, and questions, call or text:  
**SMART: 0960-221-7222**  
**GLOBE: 0945-409-3239**

Like and follow us!  
**People in Need Philippines**



Scan Me for more information!

