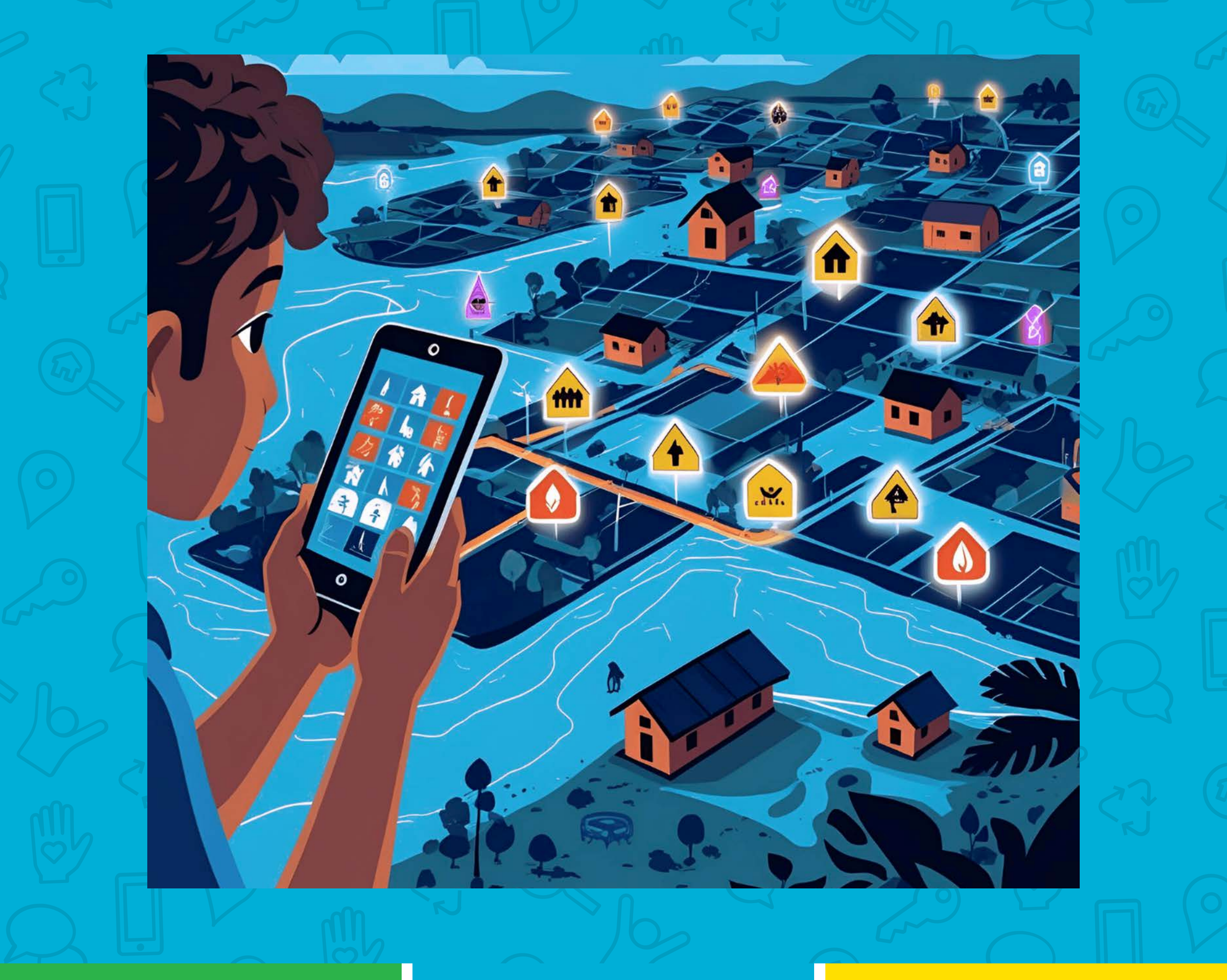


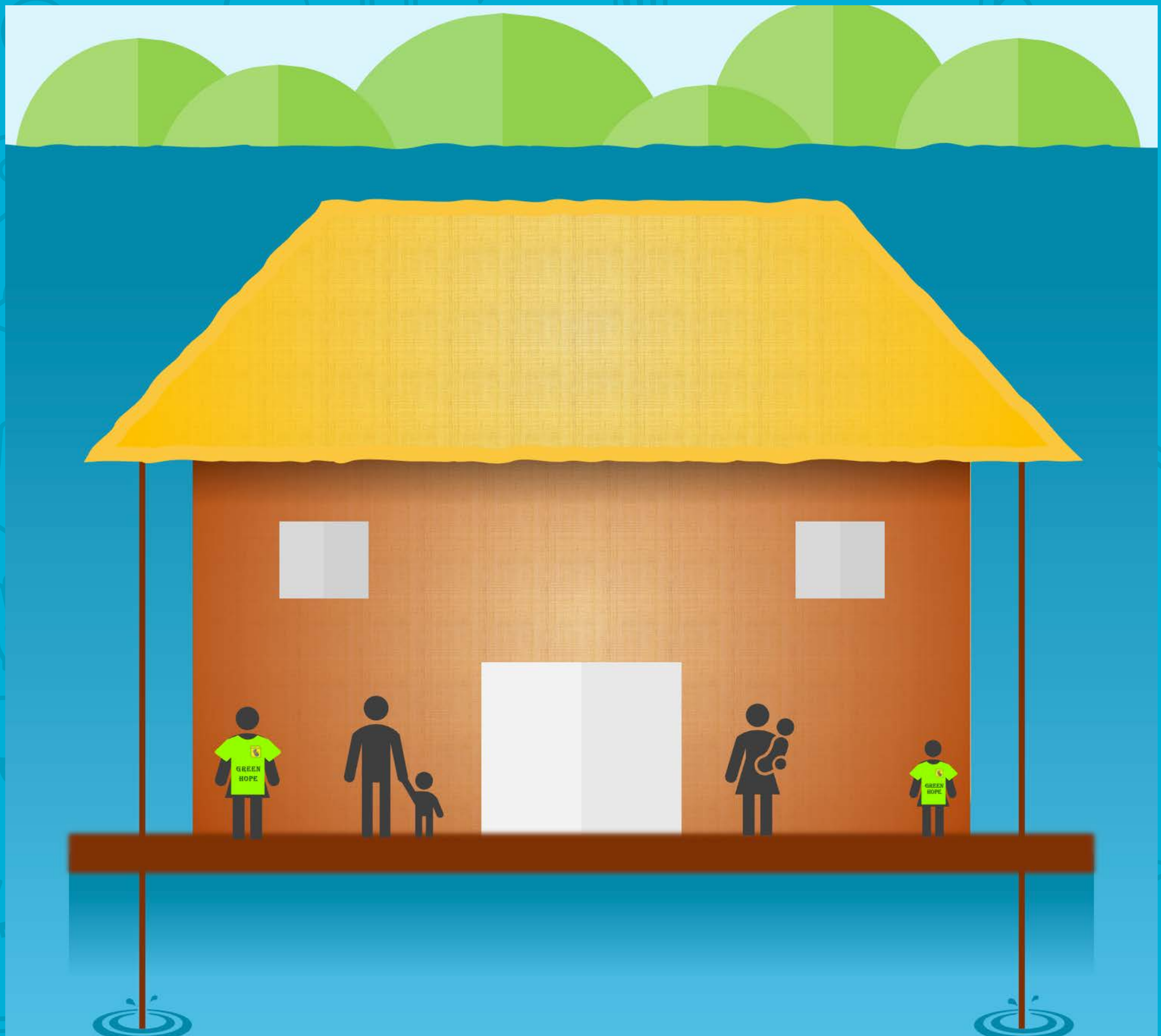


# H-MAP: HABITAT MAPPING FOR ACTION AND PREPAREDNESS

H-MAP is a youth-led community mapping and a crowdsourced data platform to strengthen disaster preparedness, improve sanitation access, and accelerate emergency response in Habitat for Humanity Bangladesh communities.

Through this project, trained youth will collect and validate over 300 reports on local hazards, WASH (water, sanitation, hygiene) gaps, and vulnerable households, generating interactive maps. These maps will guide Habitat Bangladesh and municipal actors in prioritizing emergency shelter deployment, targeted WASH upgrades, and long-term housing improvements. The project will directly benefit more than 5,000 low-income residents across selected communities by improving living conditions, disaster resilience, and access to services. Indirectly, municipal planners, NGOs, and neighboring communities will benefit from data-driven insights and replicable models for scaling up. By empowering youth as local resilience champions, H-MAP creates long-term impact, embedding digital tools and community voices into local housing, disaster, and sanitation strategies.





# FLOATING GREEN COMMUNITY INITIATIVE

## Cambodia

Green Hope Foundation's Floating Green Community Initiative addresses housing challenges faced by Kompong Phluk, a flood-prone floating village in Cambodia. This youth-led project builds sustainable floating bio-homes using locally sourced materials such as bamboo and water hyacinth panels, along with solar roofing and rainwater harvesting systems. These eco-friendly homes not only improve living conditions but also reduce the village's environmental footprint. The initiative empowers 60 local youth by equipping them with hands-on skills in sustainable construction, climate adaptation, and disaster resilience. To further strengthen the ecosystem, we are planting 200 mangrove saplings to enhance natural flood protection and support local biodiversity. This project serves as a replicable model that combines environmental stewardship with youth empowerment and community development. Funding this initiative will create long-term social and ecological impact, turning the challenges faced by Kompong Phluk into transformative opportunities for resilience, sustainability, and scalable change across vulnerable communities worldwide.

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## CHHAT SHAKTI

### India

Chhat Shakti – which means “Roof Power” – is a youth-led, women-powered initiative that addresses the harsh realities of rising heat in rural India by applying solar reflective paint on rooftops. This simple yet powerful innovation helps reduce indoor temperatures by 4–6°C, offering families – especially women, children, and the elderly – relief from unbearable heat within their own homes. At its heart, Chhat Shakti is about dignity and opportunity.

Women from the community are trained to lead the implementation, gaining not only a livelihood but also a renewed sense of purpose and agency. Each brushstroke becomes a step towards better health, productivity, and empowerment. In its initial phase, Chhat Shakti will transform over 10 homes, directly benefiting 30–50 lives, and spreading awareness among over 500 people. By cooling rooftops, we are nurturing resilience, restoring comfort, and creating a ripple effect of change – led by the very women most affected by climate challenges.



# CLIMATE RETROFIT

## Nepal

Traditional building approaches focus mainly on strength to withstand natural hazards. However, in today's changing climate, resilience demands more – combining strength with sustainability. The “Climate Retrofit” project aims to reshape existing building principles by focusing on making homes climate-adaptive and sustainable.

“Climate Retrofit” is a youth-led initiative focused on retrofitting public spaces with low-cost, sustainable solutions to address extreme heat, water scarcity, and poor insulation. By integrating thermal insulation, heat-resistant coatings, solar panels, rainwater harvesting, and passive cooling features, it aims to create climate-smart demonstration hubs that inspire community-wide adoption. This initiative will generate demand for climate-smart housing solutions, opening entrepreneurial space in this green domain while fostering economic growth in the long run.



# SMARTHOUSING NEPAL: SAFE, AFFORDABLE, & INFORMED LIVING

## Nepal

SmartHousing Nepal is a climate and safety risk visualization platform for urban properties across Nepal. Our innovation integrates flood, earthquake, and air quality data with building level assessments to create interactive risk profiles for homes, businesses, and public spaces.

By exposing hidden hazards from monsoon flooding to unsafe structures, this project empowers:

1. Tenants to avoid high risk rentals,
2. Homeowners to prioritize safety upgrades, and
3. Urban planners to target resilient infrastructure

This project's 12-month targets include:

1. Map Kathmandu/Lalitpur and Bhaktapur district local governments, covering about 10,000+ housing units.
2. Help build Nepal's comprehensive public geospatial risk profile for climate adaptation in urban areas.
3. Build probable partnership with a few local governments for building safety data integrations

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# THE LIGHT WE SHARE

## Philippines

The Light We Share is a youth-led, community-driven initiative advancing energy justice and climate resilience in off-grid rural communities in Zambales, Philippines. At its heart is the Solar Scholars program, which equips local youth and women with hands-on technical skills to assemble, maintain, and manage solar lighting systems, transforming them into agents of change within their own neighborhoods. By replacing hazardous kerosene lamps with safe, renewable lighting, the project enhances household safety, health, and dignity, while strengthening local leadership and fostering economic opportunities. Its impact reaches beyond immediate material benefits, sparking conversations on collective power, climate equity, and the right to sustainable infrastructure. Through advocacy, skills training, and peer-to-peer learning, The Light We Share envisions a future where communities traditionally left in the dark lead their own transition toward resilient, just, and care-centered solutions that ripple across generations.

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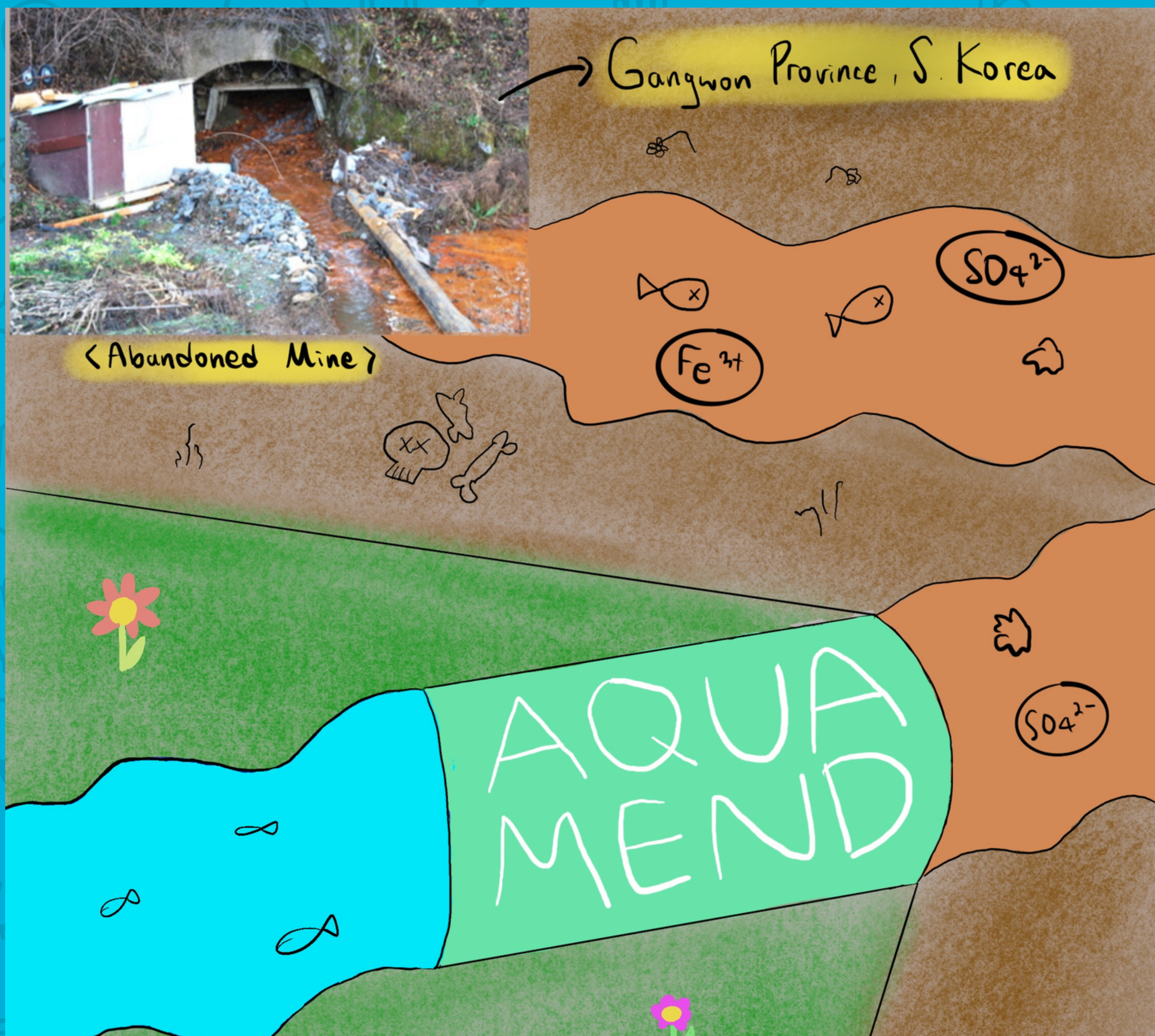
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## RE-LEAF THE HEAT

### Philippines

Re-Leaf the Heat is an urban greening initiative combatting extreme heat in Metro Manila's informal settlements by installing vertical green walls on 30 homes. This innovative natural cooling system reduces indoor temperatures, promotes sustainable living, and improves public health. Through hands-on community training, residents will gain skills in installation and maintenance while learning the environmental benefits of green infrastructure. The project directly benefits 30 households and engages over 150 individuals through education and outreach, with indirect impact reaching up to 500 community members. By turning homes into living walls, the project fosters climate resilience, community empowerment, and collective climate action.



## AQUAMEND

### South Korea

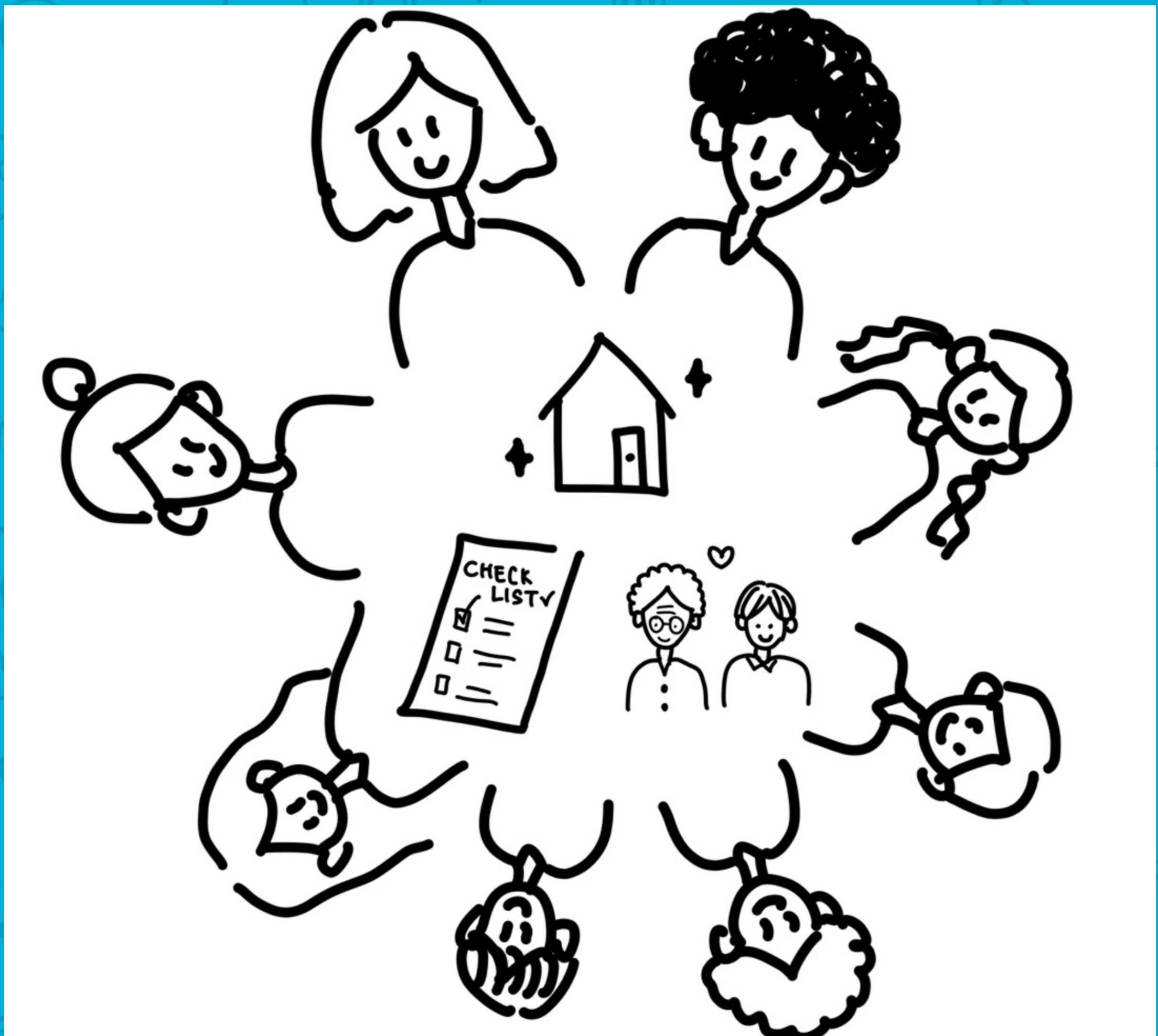
Aquamend is an eco-friendly, community-led water purification project tackling acid mine drainage – or AMD – in Dogye, Korea.

By distributing do-it-yourself purification kits made of limestone, activated carbon, and ion exchange resin, the project empowers residents to install purifiers in local streams. These devices neutralize acidity and remove up to 95% of toxic substances such as heavy metals and sulfates. Beyond technology, Aquamend mobilizes youth and local residents through workshops, raising awareness and promoting environmental responsibility. The project aims to mobilize 50 volunteers, directly impact 3,000 residents, and indirectly benefit over 10,000 people in the broader region. With scalable design, local material sourcing, and university partnerships, Aquamend creates a sustainable model for restoring safe water access and improving public health in AMD-affected communities.

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 aquamend\_project

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## SONJU PROJECT

### South Korea

The Sonju Project Initiative is a youth-led housing and health solution that tackles single elderly households utilizing a community-driven system through community building, education, and housing environment improvement through inspection of living space. This project involves matching volunteers – or sonjus – with single elderly households to conduct monthly checkups, ensuring that no one suffers from preventable hazards like mold or poor ventilation. Through the Sonju Project, elderly individuals will be directly impacted and community members will indirectly benefit through increased awareness and improved local infrastructure. Mobilizing youth volunteers, the initiative will foster sustainable change by empowering elders with knowledge and tools for ongoing self-assessment. Through physical improvements, communal support and change, the Sonju Project aims to reduce health disparities, improve quality of life, and create a youth-led community care model.



# FLOATING FUTURES

## Vietnam

The Floating Futures project champions a community-led approach to building sustainable, climate-resilient floating homes for vulnerable communities in Hanoi's Xóm Phao. Our core activity is the co-design and construction of a floating house for Mrs. Tan, a disadvantaged resident, using affordable, durable, and locally-sourced materials. This hands-on process will train villagers to repair and rebuild their homes, fostering long-term resilience against weather changes.

Crucially, the project also connects the community with young professionals through workshops and on-site training. Here, young professionals will learn from residents' experiences while sharing their expertise on climate-adaptive housing solutions. This two-way interaction not only enhances the capacity of 30 young architects but also cultivates a community of designers deeply committed to sustainable housing. The project will directly benefit Mrs. Tan and 10 other villagers, while indirectly impacting 50 Xóm Phao residents and an estimated 1,000 young professionals, ultimately building a more resilient and skilled community.