AMAZONIA PROGRAM

PARTICIPATORY MAPPING
for
ANTICIPATORY ACTION AND SUSTAINABLE DEVELOPMENT SOLUTIONS

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Team

"

When people consider the health of the Amazon, all the attention is on hectares that are cleared, but this is only part of the story. We need a new metric for the **rivers** and **people**. **They are just as important.**

- Danicley de Aguiar

Senior Campaigner at Greenpeace (2023)

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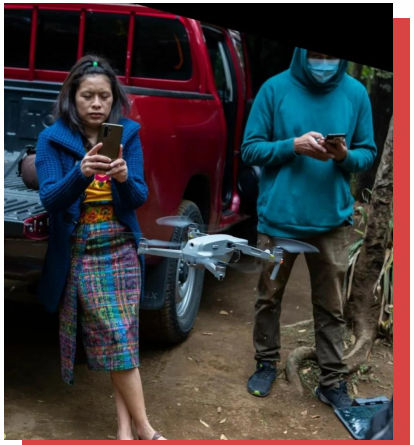

PROJECT OVERVIEW

Mission

Communities use open mapping and data to act on their climate vulnerabilities and share their local knowledge.

Vision

Communities use map data to understand their vulnerabilities, develop solutions, and advocate for climate-smart policies. Decision makers use map data to make land and resource management decisions. Networks amplify local voices and solutions at regional and global levels.

Focus Countries

Brazil, Bolivia, Perú, Ecuador, Colombia, Guyana, Venezuela

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PROJECT DESIGN

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COMMUNITY ENGAGEMENT

Engage communities to adopt open mapping **technology to better understand & protect their territory** against climate change effects and natural disasters

Focus on:
INDIGENOUS POPULATIONS & WOMEN

TECH

Deploy sustainable innovation using **low-tech tools** such as drones & sonars

CREATE DATA

Map **forests, rivers, rural villages, urban areas, essential services, environmental patterns,** etc. at the local level and feed data into expert & activist data models

GLOBAL ENGAGEMENT

Engage **global mappers** through remote mapping and AI to **foster solidarity** with local groups

LOCAL NETWORK

Grow existing **network of local mappers**, data users & partners in the Amazon: communities, universities, advocacy groups, governments, corporates, multilaterals, etc.

POLICY ADVOCACY

Ensure data use for policy decisions, emergency response planning & **local anticipatory action**

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PROJECT RESULTS

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Phase 1 — Years 1-2

Mapping with **15 local Amazonian communities** using state of the art open mapping technologies for low resource environments

- → **15 local** communities in 4 countries
- → **150 villages** mapped including:
- → **10,000 homes**, 1,000 places of interest [deforested areas, essential services, etc]
- → **15 local** community champions trained
- → **$200,000 microgrants** to local communities

Phase 2 — Years 1-2

Using open map data for **advocacy & sustainable development**

- → **1 'Open Mapping for the Amazon'** network established
- → **15 partnerships** with government, universities, corporates, international orgs (e.g. Organization for the Treaty of the Amazon) and multilateral orgs (e.g. IDB)
- → **15 data use cases** leading to change

Phase 3 — Years 3-5

Scaling to reach **100 local Amazonian communities**

- → **100 local communities** in 7 countries
- → **2,000 villages** mapped including:
- → **200,000 homes,** 20,000 places of interest
- → **100 partnerships** across the region
- → **'Open Mapping for the Amazon' network active and engaged** in dialogue with government, private sector, activists and more

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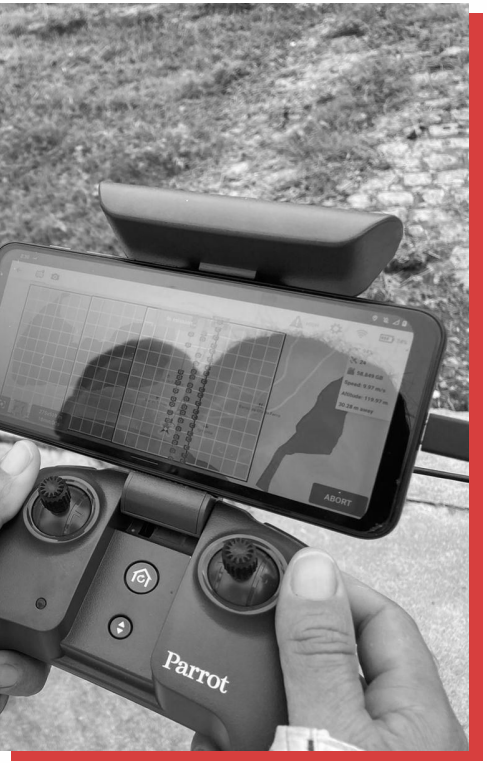
PROJECT BUDGET



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Phase 1	Mapping with **15 local Amazonian communities**	$800,000 (including $200,000 in community grants)
Phase 2	Using open map data for **advocacy & sustainable development**	$200,000
Phase 3	Scaling to reach **100 local Amazonian communities** & 6 national governments	$3M

Total Budget: $4M over 5 years

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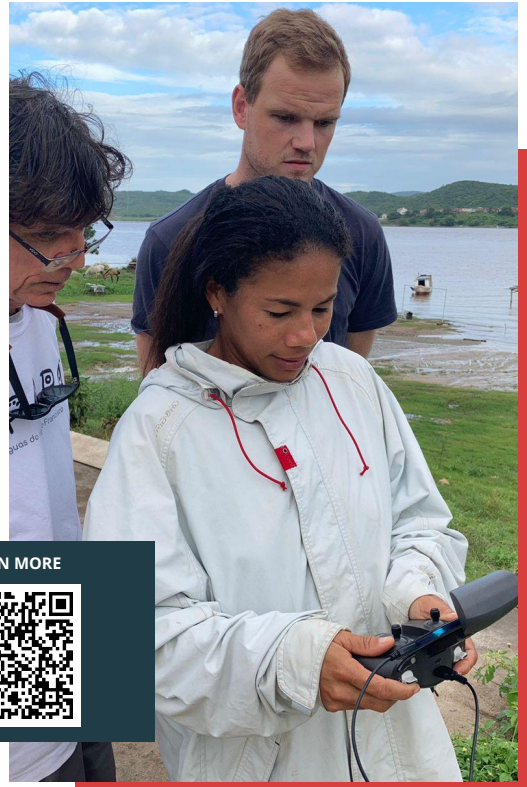
CASE STUDY 1

CANOA DE TOLDA

Using collaborative approaches to create informed and empowered communities whose voices are represented on the map and centered in policy decisions.

Recognized by Paris Peace Forum 2023, Canoa De Tolda was the first project in Brazil to support **participatory mapping for civil action** to a high risk population, empowering local communities to defend their rights by using data for community-led disaster risk reduction plans.

The project tackled environmental and man-made challenges close to Amazonian settlements at risk for flooding and helped develop our **community-led approach for risk management using participatory mapping and open technology and data**.



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CASE STUDY 2

TRAINING LOCAL ACTORS IN TEFÉ

Supporting communities to adapt and thrive under changing climatic conditions.

Located in the Amazonas, Brazil, the Tefé Islands are susceptible to floods and erosion due to deforestation, high sea surface temperatures, and extreme weather events, resulting in isolation, mobility issues, and **threats to life and livelihoods** for indigenous communities. Mapping facilitates inclusion of at-risk communities in anticipatory action plans and helps them understand their rights so that they are able **to advocate for solutions**.

With the Federal University of São João del-Rei and the University of the State of Amazonas, HOT launched a mapping project to bring visibility to riverside communities. We are using **collaborative digital terrain modeling** to monitor the erosion process (terras caídas) that has recently intensified due to climate change and human activity. The Tefé community is **building an evidence base** to better understand these environmental changes and advocate for data-based decisions.

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CONTACT

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