# Fraym for Health Systems

Fraym is a U.S. Certified Small Business that uses machine-learning to generate precise information on communities with data gaps. Governments and organizations around the world use our location-based data to improve planning, enhance evaluations, and to uncover insights that traditional data analysis can't reveal.

Using advanced algorithms, we produce data about population characteristics and behaviors that cover a wide range of indicators including socioeconomics, attitudes, media consumption, health, education, and access to services. Our advanced geospatial data and analysis is available for 100+ countries at one square kilometer resolution—even in remote areas.

## What We Deliver

### Hyperlocal Population Data

Location-based data on communities including communication consumption, access to services, and other health related indicators at the 1km² level, and health facility locations to inform project design and adaptation.

**Health System Resilience Assessments** - Analyzing a country or region's risk to different health emergencies, ability to manage a health crisis, and vulnerability to external shocks.

**Regional and Group Typologies** - Segmenting regions and population groups across the country based on health risks, access, or status to inform the top-down flow of resources and initiatives.

**Spatiotemporal Analysis** - Measuring changes in population dynamics over time as compared to investments to inform global aid allocation, national strategic plans, and project expansions.

**National Monitoring Dashboard Improvement** - By fully integrating customized geospatial insight and analysis into existing national and subnational government systems and dashboards.

**Program and Evaluation Design Support** - By providing baseline data, informing data collection and evaluation methodology, and performing geospatial impact assessments.

- Demand Analysis
- Target Profiles
- Time Trend Analysis
- Program Design and Reporting

## Development Partners

USAID FROM THE AMERICAN PEOPLE — Gavi The Vaccine Alliance — THE WORLD BANK — BANQUE AFRICAINE DE DEVELOPPEMENT / AFRICAN DEVELOPMENT BANK — BILL & MELINDA GATES foundation
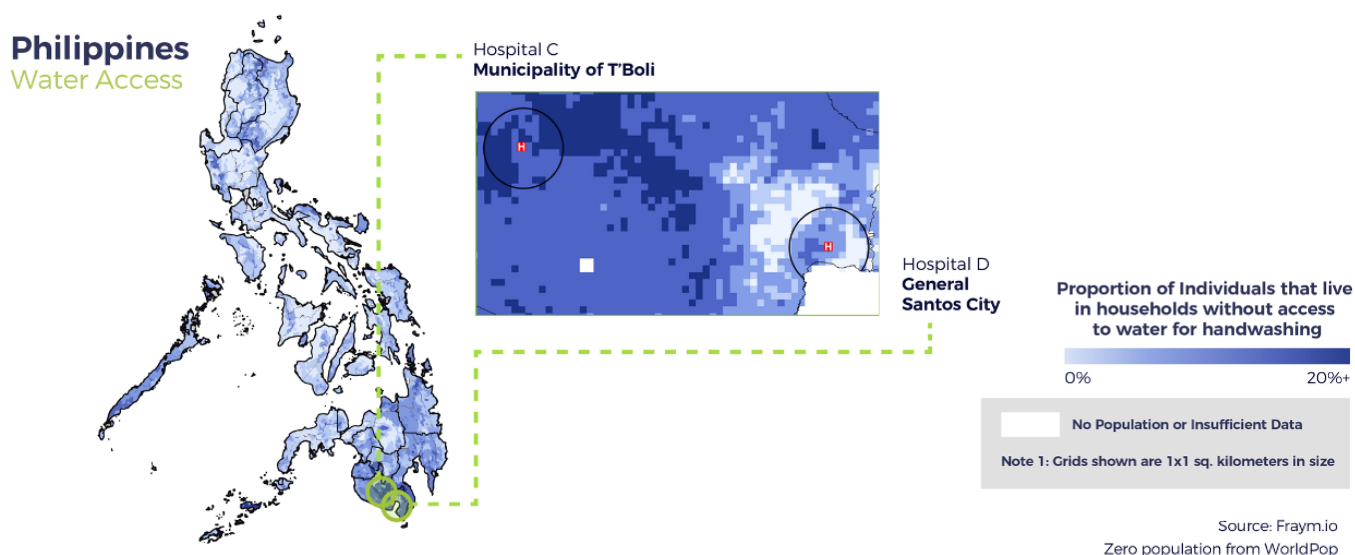
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## Use Case: Health System Infrastructure

In the Philippines, Fraym leveraged its community-level data to **better understand population dynamics surrounding health facilities** and the **operational constraints hospitals face**. By pairing health facility locations with hyperlocal population and infrastructure data, Fraym can provide **insight on a country's health system capacity** and analyze where health facilities are prepared to support national health initiatives. For example, Fraym can map population in need of DPT vaccines, pair that with the location of health facilities, and identify which health facilities are electrified for vaccine storage and distribution. When combined with facility-level case data, this can inform **resource allocation**, Community Health Worker **(CHW) training**, Global Health Security Agenda **(GHSA) initiatives**, and **national SBC** interventions.



**Philippines** Water Access

Hospital C
**Municipality of T'Boli**

Hospital D
**General Santos City**

**Proportion of Individuals that live in households without access to water for handwashing**

0%          20%+

No Population or Insufficient Data

Note 1: Grids shown are 1x1 sq. kilometers in size

Source: Fraym.io
Zero population from WorldPop

## Relevant Experience

| **Agency Capacity Building** | **Anticipating Downstream Effects** | **System Monitoring** | **Evaluating Impact** |
|---|---|---|---|
| In Mozambique, Fraym assisted the National Inter-Agency Spatial Planning Platform (PDE) team to address a range of "strategic policy questions." This engagement included **assessing the current capabilities** of PDE, building a database of usable data sources, building a **capacity building roadmap,** and an illustrative mapping exercise of the Palma district. | Across multiple countries, Fraym is working with a USG customer to **build models that illustrate risk for downstream effects** of the COVID-19 pandemic—e.g., **food insecurity, economic shocks, instability, violence,** etc. The goal of this analysis is to help decision-makers proactively target resources in the areas most in need of **humanitarian and stabilization support**. | Fraym data is being **integrated into multiple government dashboards** monitoring and responding to the COVID-19 pandemic – such as the Nigerian CDC's crisis communication team and Kenyan President's Office. Data includes community risks based on exposure, comorbidities, health facility access, socioeconomic vulnerability, and communication access. | Fraym is a resource partner on the USAID/PEPFAR Data for Implementation (Data.FI) consortium, **providing hyperlocal data on high risk and key populations in PEPFAR countries** to complement routine data collection. Fraym has contributed to calculating the denominator for at risk adolescent girls and young women (AGYW) in four countries. |