MAPPING OF SETTLEMENTS AND THEIR WASH CONDITIONS IN THE DEPARTMENTS OF ATLÁNTICO AND LA GUAJIRA

Colombia

3iSOLUTION
information . innovation . impact

Context

The lack of household access to safe drinking water as well as sanitation and hygiene services has an impact on child health and mortality rates, which in return results in the occurrence of malnutrition, stunted growth and transmission of infectious diseases.

According to the State of the World's Sanitation report, produced by UNICEF and the World Health Organization (WHO) in 2020, poor sanitation generates adverse effects on public health, while having economic and social repercussions, stemming from exclusion, inequality and permanent anguish in the face of threats of forced evictions.

In parallel, the establishment of unplanned settlements causes serious consequences from an environmental point of view due to the inappropriate use of natural resources and the different forms of pollution that it generates.

In Colombia, since 2016, the national government facilitates the provision of water distribution and sewerage services with more flexible efficiency standards and forms of "provisional supply" while allowing the development of projects including "alternative solutions" such as decentralized technologies managed by communities.

3iS Colombia

3iS has been providing information management (IM) services to different stakeholders in Colombia since 2009. Currently, 3iS is supporting coordination bodies, such as the Humanitarian Country Team (HCT), and the Inter-Institutional Group on Mixed Migratory Flows (GIFMM).

In coordination with the GIFMM, 3iS provides support services to the Education, Food Security and Nutrition, Health, Socioeconomic Integration and WASH Sectors, as well as to the INGO Forum.

Donor: UNICEF

Current Project:

Mapping of settlements and their WASH conditions in the departments of Atlántico and La Guajira

Budget: 269.5 million pesos (approx.)
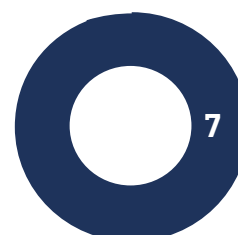
Project duration:

June 1 - December 31, 2022

Main partner:

UNICEF

Personnel

Total personnel: 7

■ National
■ International

7

Project Partners

Dymaxion Labs leverages Artificial Intelligence (AI) and computer vision to analyze geospatial data from multiple sources. These include satellite-SAR-airborne-drone imagery, weather data, public market data, proprietary data models, and real-time IoT sensors.

Premise offers an alternative to traditional data collection methods, such as time-consuming polls/surveys or the costly capture of direct field observations.

KUERY Advice and optimal solutions in technology and software development, focusing on products of excellent quality, with good practices while being developed in the shortest possible time-frame.

Objective

Evidence of human settlements allocation and their WASH needs.

Advocacy for territorial entities and providers to serve the population.

Advocacy at the national level with demonstrative projects.

Why Focus on Human Settlements in Colombia?

Increased growth of human settlements (more locations, expansion) without reliable data.

Human settlements attract people in need, some of them migrants from Venezuela, refugees or victims of forced displacement.

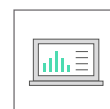Few public policies and poor public intervention to support precarious human settlements.

Need of local – public action. Some human settlements could be improved to reach basic utilities, others must be reallocated.

Sectors Supported

WASH

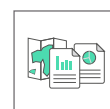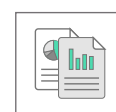# Information Products

Settlement Mapping Visualization Tool

Consolidation of Geographic Databases

Infographics

Analysis Documents