



# Research

**Study IE17B1:** Use of water and health data to augment urban planning efforts in Fada N’gourma

## IE17B1

Study duration:	2 years
Zone of intervention:	Fada N’gourma
Number of beneficiaries :	~30 000
Total budget:	\$60 100 USD
Cost per beneficiary :	\$2.00 USD

## Description and goal:

The study is designed to **support and enable the urban development strategy for the city of Fada N’gourma** through the integrated collection, analysis, and dissemination of water, health and infrastructure data.

- Phase 1:** Drinking water infrastructure data collection, including geolocation, functionality status, and installation type;
- Phase 2:** Drinking water quality and water-borne disease incidence data collection, including physiochemical and biological parameters;
- Phase 3:** Data analysis to determine trends and associations;
- Phase 4:** Dissemination of analyzed results to the relevant water, health, and infrastructure actors.

## Context and justification:

More than **20% of Burkina Faso’s drinking water infrastructure is non-functional**. This indicates an insufficiency in the monitoring and maintenance of drinking water points across the country. This is due in part to the heterogeneity of water actors active in the sector, each with its own monitoring and maintenance protocols.

The lack of standardization of monitoring and maintenance protocols prevents the easy collection of relevant data on infrastructure functionality, water quality, and service reliability. However, this data is essential for management and repair efforts. With this data, water, health and infrastructure actors can direct available human and financial resources to the areas in greatest need. But without these data, planning is not informed, resulting in the waste of already limited resources and a reduced impact.

In this way, the absence of these data limits access to safe drinking water and leads to an increase in water-borne diseases.

## Implementing partners:



## Objectives:

- 1 Create a comprehensive database of a) drinking water infrastructure, b) drinking water quality, and c) water-borne disease incidence data for the city of Fada N’gourma over a 12-month period.
- 2 Prepare an analyzed report of the data collected and disseminate to relevant actors responsible for water, health, and infrastructure in the city of Fada N’gourma.
- 3 Inform and guide decision-making by actors in the fields of water, health, and infrastructure to direct available resources to the areas of greatest need in the city of Fada N’gourma.

## Provisional timeline:

	Month 1 -6	Month 7-12	Month 13 - 18	Month 19 - 24
Phase 1	█			
Phase 2		█	█	
Phase 3				█
Phase 4				█