Central African Republic

With an estimated population of 6 million people, the Central African Republic is a sparsely populated, landlocked, and remote country. Population density is only 9 people per sq km.

There is a recent history of civil conflict (2012-2015) and the populations still faces chronic insecurity. The average income is $460/yr and it ranks 188/189 in the Human Development Index. JMP estimates 31% of the population has basic water services (MICS data collected in 2018). Within this context, the maintenance services currently cover an area that is roughly the size of Uganda, with an estimated 880,000 people benefiting from our services each year.

Service Delivery Model

Water for Good provides professional maintenance services and electronic monitoring in order to improve the reliability of basic water services.

- **Prescriptive Maintenance and Repairs**
  - Technicians travel to remote locations on 37 day circuits. The aim is to install new hand pumps and in some cases, improve hand pumps.
  - **Monitoring Functionality**
  - Circuit riders complete on-site electronic reports and then upload data to a web-based application to enhance functionality.
  - **Replication**
  - Water for Good has adapted the circuit rider model to operate and maintain 28 borehole/well systems in and around the Central African Republic.
  - **Capacity Building**
  - Local is responsible for supporting authorities to access water and data for improved planning and monitoring, local, input-based riders to technicians appointment next week.

Financial Models

- **Water for Good’s financial results**
  - Communities pay per maintenance visit for hand pumps and a volumetric rate for piped schemes
  - On average, 30% of communities with handpumps made payments while, in contrast, communities with piped schemes averaged an 80% collection efficiency

- **EOS International’s financial model**
  - EOS invests upfront in building the capacity of community water boards
  - EOS sells chlorinators and chlorine tablets at a subsidized rate and uses this revenue coupled with external funding to cover the circuit rider model
  - In the last 10 years only 11% of lapses in chlorination were due to communities being unable to afford chlorine tablets

Both circuit rider programs cost approximately $1.00/person/year

Future innovation

- **EWS System Functionality**
  - **WFG System Functionality**
  - **EOS Chlorination Rates**
  - **EOS International’s financial model**

Central America

Central America is home to 181 million people, and over 45 million are without access to safely managed drinking water. Among the 14,000 drinking water systems covered by EOS’ service delivery area in El Salvador, Nicaragua, and Honduras, 85% are contaminated. Given the region’s instability resulting from ongoing refugee crises, autocratic regimes, and the impact of climate change, securing access to safely managed drinking water can pose significant challenges. EOS currently operates in 2,000+ communities serving over 1 million people and partners with local community water boards to provide professionalized maintenance services including in-line chlorination, technical assistance, and water quality monitoring to increase the number of communities with safe drinking water.

**Service Delivery Model**

EOS provides ongoing external support to community water boards to establish best management practices, and ensure sustained access to safely managed drinking water.

- **Water Quality Analysis**
  - Domestic water sources are contaminated when initially tested
  - **Capacity Building**
  - Community water boards receive regular training, both before chlorinator installation and training and ongoing on-key topics such as GFA
  - **Water Treatment**
  - Water boards are responsible for purchasing inline chlorinators to treat drinking water
  - **Chlorine Distribution**
  - EOS sells chlorine tablets directly to communities or through EOS chlorine distribution centers for sustained use of chlorinations
  - **Technical Assistance**
  - Circuit riders provide sustained technical assistance whenever challenges arise for community water boards in regards to operation and maintenance of the systems
  - **Water Quality Monitoring**
  - Circuit riders provide monthly monitoring to evaluate chlorination levels and sustained use of chlorinations, and report results back to community leaders and municipal government.

**Water for Good’s financial results**

- Innovative mechanisms for financing:
  - Results based funding fits the typical funding paradigm and provides service providers with funding for results reported each quarter
  - Water for Good and EOS International use UpTime results based funding to supplement local revenue for their circuit rider models
  - For more information on UpTime Global’s funding model please attend the Wednesday afternoon session.

- Accelerating progress on rural drinking water with results-based funding (1:30 pm)

- **Future innovation**
  - **EWS System Functionality**
  - **WFG System Functionality**
  - **EOS Chlorination Rates**
  - **EOS International’s financial model**