

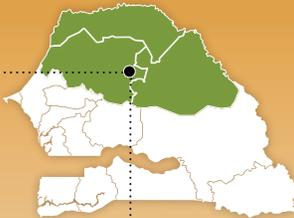


# FINDING THE EPHEMERAL: SATELLITE DATA GUIDE PASTORALISTS TO WATER

This service monitors the location of watering holes and produces high-resolution maps with sufficient accuracy to assist in locally-led natural resource management.

## FINDING SOURCES OF WATER

Timely and accurate information on the availability and whereabouts of surface water in the long, dry season of the savannahs of Senegal's Ferlo region is a perfect problem to solve using free and open satellite data. Using imagery from NASA's Landsat and the European Space Agency's Sentinel satellites, SERVIR West Africa has designed a service that strengthens the resilience of pastoralist systems by providing critical information on surface water availability. **This service helps pastoralists have year-round access to water and forage for their livestock.**



## MONITORING LOCATIONS

Information can be shared with pastoralists via **community radio broadcasts**, rural markets, and **non-governmental organizations**. Information can also be accessed via a **web-based platform** and through SMS messages in local languages.

“ Having reliable [surface water] information to better manage them [livestock] would be of great help to us.”

*Demba Ba, President of Entente des Groupements Associés pour le développement à la Base (a consortium of village community development associations in the region)*

SERVIR connects space to village by helping developing countries use satellite data to address critical challenges in food security, water resources, weather and climate, land use, and natural disasters. A partnership of NASA, USAID, and leading technical organizations, SERVIR develops innovative solutions to improve livelihoods and foster self-reliance in Asia, Africa, and the Americas.

