



USING SATELLITE IMAGERY TO EXPAND CROP INSURANCE IN KENYA

Through a partnership between SERVIR–Eastern & Southern Africa and the Kenya Ministry of Agriculture, a new satellite–based crop mapping system and sampling methodology has been developed to streamline data collection methods in support of the Kenya Crop Insurance Program.

With this innovative approach, instead of taking a week to complete, crop insurance assessments can now be processed in one day. **By empowering smallholder farmers to manage their risks, they are more resilient to climate shocks and stresses.**



425,000
insured farmers

Remote Earth observation data incorporated into the insurance program has increased efficiencies, allowing the Kenya Crop Insurance Program to expand from 900 insured farmers in 10 counties in 2015 to more than 425,000 insured farmers in 27 counties today.

70%
less expensive

Under this new, innovative sampling framework, crop insurance **assessments are 70% less expensive** than previous methods, and have reduced sampling bias.

12,000
farmers compensated

In June 2019, about **12,000 insured farmers were paid around \$100 each to compensate for crop losses resulting from adverse weather conditions.** This transfer of risk has helped farmers avoid financial crisis.



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.

