Access to locally relevant, trustworthy information helps smallholder farmers leverage climate-resilient agricultural practices. Yet most farmers lack consistent access to quality extension services that provide this information in an actionable way.

Through integrated use of participatory community video, interactive voice response (IVR), SMS, and mobile applications, Digital Green has cost-effectively increased smallholders’ access to and uptake of accurate, timely, and localized advisory messages.

Our work is helping smallholder farmers to become more resilient to environmental shocks by sustainably increasing land productivity and rural livelihoods while preserving natural resources.

**RURAL LIVELIHOODS & CLIMATE ADAPTATION**

80% Of the food supply in Asia and Sub-Saharan Africa is produced by smallholder farmers.

95% of farmed land in Sub-Saharan Africa and 60% in South Asia is rain fed.

Water productivity is low, land is degraded, crop losses are high, and farmers are highly vulnerable to weather changes.

At the same time, we are facing new threats from pests such as locusts and Fall Army Worm; and any ability to combat such threats are hampered by the challenges of COVID-19.

25% decline in crop yields by 2025, linked to climate change in Africa as estimated by FAO.

**DIGITAL GREEN’S APPROACH**

Digital Green is a global development organization that empowers smallholder farmers to lift themselves out of poverty by harnessing the collective power of technology and grassroots-level partnerships.

We build the capacity of public, private and civil society extension providers to craft advisory messages that respond to farmers’ information needs and adapt to communities’ access to resources, current conditions, and other barriers to uptake.
**FEATURED PROJECTS**

**Ethiopia: Improving farm-level conservation measures and livelihoods**

With support from the Packard Foundation, we are working with the Ministry of Agriculture to incorporate improved water and soil management, agroforestry and other conservation measures into its routine farm advisory messaging. Keys to success have been:

- Participatory planning and content development that accounts for farmers’ needs and priorities; and
- Introduction of practices that can be applied using readily available and affordable resources with visible returns on investment.

**India: Promoting climate resilience and food and nutrition security**

Digital Green is working with the Andhra Pradesh Department of Agriculture and Cooperation to reach all farmers in the state with effective advisory messages. The partnership is centered around promoting community natural farming practices, which address soil degradation, biodiversity loss, water scarcity and diversification of cropping systems to restore ecosystem health and increase land productivity.

Another project with Farmer Producer Organizations in Andhra Pradesh incorporates access to village-level actionable weather forecasts paired with advisory information to help farmers adjust to changing conditions.

**Integrating data for targeted services via a digital platform**

Digital Green is building a platform called FarmStack, which integrates multiple data sources and media channels to provide context-specific information to farmers on environmentally sustainable agronomic practices and enables greater responsiveness to climate change across value chains. We are prototyping several use cases that integrate location-specific weather, soil and crop data to provide pest and disease risk forecasts and advisories. This work can provide early warnings about devastating pests, such as fall armyworm, and diseases, such as potato blight or wheat rust, or avoiding flower drop among cashew crops to equip farmers and extension system actors to activate timely responses.

**Partner with us:** contact@digitalgreen.org

**www.digitalgreen.org**