## Digital Agricultural Advisory Services (DAAS)

## Powering data sharing across the food and agriculture system in Ethiopia

The Ethiopian government has made significant investments in extension to serve the country's 17 million smallholder farmers. Despite this, government entities and other private and civil society organizations still have limited capacity to share and use data for the cost-effective delivery of targeted advisories via digital channels. Additionally, farmers do not receive relevant and timely advisories, which limits their ability to increase their yields, incomes, and stay resilient in the face of climate change.

DAAS is a five-year project (2019-2024) which will enable sustained increase of incomes from agriculture for 3.5 million Ethiopian farmers (40% women) in Amhara, Oromia, SNNP and Tigray by:



Partners: DAAS is funded by the Bill and Melinda Gates Foundation and the United Kingdom's Foreign, Commonwealth & Development Office and implemented by a consortium led by Digital Green. This consortium includes Precision Agriculture for Development, Ethiopian Agricultural Transformation Agency and Government of Ethiopia's Ministry of Agriculture (MoA), which will be the eventual owners of FarmStack. DAAS will build the capacity of MoA's extension and ICT directorates to support both design and implementation of use cases and to maintain and grow FarmStack. Other private and civil society organizations such as the International Maize and Wheat Improvement Center, International Livestock Research Institute, Land O'Lakes, CABI and CARE will serve as content, channel and technical partners and benefit from the enhanced coordination that FarmStack will bring. Since third party applications can be layered onto FarmStack to address a wide range of use cases, other organizations beyond those mentioned can continue to both use and contribute to FarmStack. The Impact of DAAS will be evaluated via a randomized controlled trial by a third party evaluator, American Institute of Research.

Use Cases (specific situations in which products or services can be used): DAAS is initially developing use cases within the wheat and dairy value chains which involve integration of one or more datasets and multiple communication channels such as video, IVR, and telegram. Over time, the learnings from these use cases will inform the design of FarmStack and power other solutions across different commodities and geographies.

## Illustrative Example: Wheat Rust Use Case



## Where are we now?

- Adapted to COVID-19. FarmStack responded to COVID-19 by scaling back in-person approaches for extension and
  focusing on virtual communication tools, including IVR, interactive radio programming and Telegram for both farmer
  advisory and DA training.
- **Developed a registry of DAs.** The registries will support use case implementation dependent on sending location-based information by phone, serving as a building block for an MoA performance tracking mechanism and achieve its gender balanced hiring goals.
- **Designed 7 use cases in the wheat and dairy value chains.** These use cases will test a variety of different dissemination modalities, including community video, the messaging app Telegram, and IVR.
- **Conducted data mapping of over 60 organizations.** The map will be used to identify data sources and gaps as well as organizational interests and requirements for data ownership, sharing, security and use.
- **Designed peer-to-peer architecture that codifies data sharing agreements.** This is a key component of FarmStack that, along with development of data sharing legal policies, meets trust and security requirements of potential participants.
- **Established governance structures and technical advisory committees.** These committees will be strengthened by the participation from stakeholders and participants.







