

## Evidences

### Study #3142

#### Contributing Projects:

- P812 - Creating climate-smart multi-functional landscapes through integrated soil, land and water management at different scales in East Africa
- P263 - RPL EA: Regional and national engagement, synthesis and strategic research
- P16 - CIMMYT Agro-economic analysis of all climate change mitigation options

#### Part I: Public communications

**Type:** OICR: Outcome Impact Case Report

**Status:** Completed

**Year:** 2021

**Title:** Ethiopia launches agro-advisory service platform directly reaching 82,000 smallholder farmers

#### Short outcome/impact statement:

Ethiopian farmers face serious challenge of production uncertainties associated with climate variability. The Ethiopian Institute of Agricultural Research (EIAR) supported by CIAT, CIMMYT and CCAFS in collaboration with the Ethiopian Meteorological Agency and the Ministry of Agriculture developed a digital agro-climate advisory platform to improve farmers' management of climate-induced risks, facilitate technology adoption and thereby improve their livelihoods. The platform will contribute to the vision of making Ethiopian agriculture climate-smart by closing the gap between climate information and effective action.

## Outcome story for communications use:

In the midst of Ethiopia's exponential population climb and the strikes of the climate emergency with erratic rains, dry spells, sharp floods and failed crops, the country launched a digital agro-climate advisory platform, called EDACaP, to put resilience at the center of agricultural livelihoods. A team effort led by the Ethiopian Institute of Agricultural Research (EIAR) in partnership with the Ministry of Agriculture (MoA) and the National Meteorological Agency (NMA), alongside numerous research centers and programs: the International Center for Tropical Agriculture (CIAT), the International Maize and Wheat Improvement Center (CIMMYT), the CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS) and the International Research Institute for Climate and Society (IRI), with support from the Agricultural Growth Program (AGP), the EDACaP has come to life. The advisory platform is composed of four complementary elements: an agro-climate database hub, climate modelling, crop modelling and a dissemination platform. EDACaP combines 1) geographical data, including geospatial information on site characteristics and agroecological zones; 2) climate data, both historical and projections from scenario analysis; 3) weather data, using seasonal and sub-seasonal data; 4) soil data, including physical, biological and chemical characteristics; 5) crop data and varieties, currently focused primarily on cereals but soon expanding to legumes, stimulants and vegetables; and 6) agronomic information, mainly concentrated on management data. These data are interpreted into yield forecasts, agro-climate advisories and climate scenarios that are targeted to specific geographies and agricultural value chains, and disseminated to farmers through extension training, mobile technologies, early warning systems and multimedia. These translations improve decision making on diverse elements including the selection of crop fields and varieties, timing for planting and harvesting, ideal irrigation approaches, as well as measures to prevent pests and diseases. As a country whose agricultural systems are highly dependent on rainfall, these digital interventions will serve as key decision support tools to manage climate risk and bolster the adaptive capacity of Ethiopia's smallholder farmers. For these digital transformations of food systems to be possible, there is a need to ensure that digital systems do not exacerbate inequalities, as well as overcoming capital constraints, infrastructure gaps in commercialization, and building regulatory frameworks, digital access and literacy, digital innovation and entrepreneurship models. EDACaP's pilot phase has already reached 82,000 smallholder farmers across Ethiopia and is expected to reach 16.7 million farmers once scaled through the Ministry of Agriculture and the country's more than 60,000 agricultural extension agents.

## Links to any communications materials relating to this outcome:

- <https://tinyurl.com/qt39dlp>
- <https://tinyurl.com/y9czyj7r>
- <https://allafrica.com/stories/201911160102.html>

## Part II: CGIAR system level reporting

**Link to Common Results Reporting Indicator of Policies :** No

**Stage of maturity of change reported:** Stage 1

## Links to the Strategic Results Framework:

Sub-IDOs:

- Improved forecasting of impacts of climate change and targeted technology development
- Enhanced individual capacity in partner research organizations through training and exchange

Is this OICR linked to some SRF 2022/2030 target?: Too early to say

Description of activity / study: There is a high likelihood that the platform will contribute to SRF 2022/2030 but it is recently launched and will be wise to wait a bit to see how it will go. It has of course created excitement and will obviously be influential, we will report details after assessing dissemination extent and pattern.

**Geographic scope:**

- National
- Sub-national

Country(ies):

- Ethiopia

Comments: <Not Defined>

**Key Contributors:**

Contributing CRPs/Platforms:

- WLE - Water, Land and Ecosystems
- CCAFS - Climate Change, Agriculture and Food Security

Contributing Flagships:

- FP4: Climate services and safety nets
- FP2: Climate-Smart Technologies and Practices
- FP1: Priorities and Policies for CSA

Contributing Regional programs:

- EA: East Africa

Contributing external partners:

- Mekelle University
- EIAR - Ethiopian Institute of Agricultural Research
- Inter Aide
- MoANR - Ministry of Agriculture and Natural Resources (Ethiopia)

**CGIAR innovation(s) or findings that have resulted in this outcome or impact:**

Digital climate advisory service platform developed to both create content and disseminate the same using various options

**Innovations:**

- 440 - Ethiopian Digital Agro-climate Advisory Platform (EDACaP) (<https://tinyurl.com/2g2nn8oe>)

### **Elaboration of Outcome/Impact Statement:**

The digital climate agro-advisory service platform launched by the Ethiopian Institute of Agricultural Research (EIAR) is the first of its kind in terms of resolution (one week's forecast), being integrative (soils-crops-climate), and completeness of value-chain (content generation to dissemination). The platform generates crop and site specific agro-meteorological advisories based on climate forecasts. The platform helps provide valuable information to farmed related to soil, weather, crop, market. It integrates modern information and communications technology (ICTs) with crop-climate modeling to deploy agro-meteorological advisory communication and dissemination mechanisms. It enhances capacity of 72 extension officers and 513 development agents across the country to tailor climate information with actionable decisions. It also enhances the capacity of MoA to make informed decisions related to seasonal planning. Ultimately, the platform directly benefits 82,000 smallholder farmers (~13,600 households) from the four major regions enabling them to better manage risk, take advantage of favorable climate conditions and help them adapt to change. International research organizations such as CIAT, CIMMYT and CCAFS played significant role in developing the platform through both financial and technical support.

### **References cited:**

- [1] Ethiopian Digital AgroClimate Advisory Platform (EDACaP) Technical Working Document | Long version (<https://cgspace.cgiar.org/handle/10568/109664>)
- [2] Ethiopia: Launching Digital Agro-Climate Advisory Platform in Ethiopia (<https://tinyurl.com/y8g9l7op>)
- [3] Launch of the Ethiopian Digital AgroClimate Advisory Platform (EDACaP): Progress Report on EDACaP Development and Hosting: Info Note (<https://tinyurl.com/ydxfq9vg>)
- [4] Ethiopian Digital Agro-climate Advisory Platform (EDACaP) (<https://tinyurl.com/ybofcuzw>)
- [5] LAUNCH OF THE ETHIOPIAN DIGITAL AGROCLIMATE ADVISORY PLATFORM (EDACAP) PROGRESS REPORT ON EDACAP DEVELOPMENT AND HOSTING (<https://tinyurl.com/y8jnrybl>)

## Quantification:

**Type of quantification:** b) Extrapolated estimates  
**Number:** 82000.00  
**Unit:** number  
**Comments:** Number of farmers directly benefiting from the platform

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## Gender, Youth, Capacity Development and Climate Change:

**Gender relevance:** 0 - Not Targeted

**Youth relevance:** 0 - Not Targeted

**CapDev relevance:** 1 - Significant

Main achievements with specific **CapDev** relevance: We have managed to train key EIAR personnel to be able to develop, launch and maintain the platform. An expert from the national system was sent to Colombia (Cali) for one month training and an expert from Cali came to Ethiopia to consolidate the training and finalize the platform. This was the turning point for the platform to be launched in 2019 despite an effort going to to develop it the last 5-6 years.

**Climate Change relevance:** 1 - Significant

Describe main achievements with specific **Climate Change** relevance: The tool provides information about the onset of rains, when to prepare their lands, when to plant crops and undertake other agronomic practices. It also advises when to harvest crops to both avoid climatic impacts and reduce post harvest losses.

**Other cross-cutting dimensions:** No

**Other cross-cutting dimensions description:** <Not Defined>

**Outcome Impact Case Report link:** [Study #3142](#)

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