Co-Design Climate Services for Farmers

Moammar Dayoub1, Erkki Sutinen 2
University of Turku, Department of Future Technologies, Finland

1 Researcher, Ph.D. in agricultural economics

2 PhD, Professor of Computer Science (Interaction Design)

Introduction

The changing climate has an extreme impact on small scale farmers. Climate services play vital tool for farmers in decision making and increasing income.

While climate information services are essential to help address the growing demand for food in a changing climate, the information does not always reach the users who need it most.

Challenges

There are three tasks that should implement successfully to adopt what the climate science community has to offer to farmers

- 'Salience' relates to the perceived relevance of climate information: does the system provide information that these users think they need, in a form and at a time that they can use it? - 'Credibility' addresses the perceived technical quality of information: does the system provide information that is perceived to be valid, accurate, tested, or, more generally, at least as likely to be 'true' as alternative views? - 'Legitimacy' concerns the perception that the system has the interests of the users in mind or, at a minimum, is not simply a vehicle for pushing the agendas and interests of other actors.

Objective

We aim to design the mobile climate application for farmers to solve the issue of mismatch between rather simple information needs of the farmers often rather versus complicated information provided by organizations various and researchers. At the same providing weather and climate information are not adequate, it needs to be combined with agricultural information and focused

Methods and Material

The project is in an early stage and we use the co-design methods to work closely with local farmers in Tanzania in each of the development phases. In design Mobile application

Results

To build real climate services we should consider community perception, indigenous knowledge, livelihood patterns, gender, and reliable communication channels.

Co-design climate service promotes community participation and increases income as well as livelihood.

Future Research

What are the socioeconomic factors that influence climate services?

How to measure weather climate services information fit needs farmers and profitable?

Identify the value-added of climate services for agriculture and decision-making



