

Projects under the AgriFoSe2030 Challenges

Challenge 1 – Improving access to safe and nutritious food

About: This challenge focuses on how poor households can have better access to safe and nutritious food. This includes food loss in the various stages of production, aspects of food safety and how to connect smallholder farmers to markets.

- **Sustainable goat management in Laos:**

Full name: Smallholder goat production in Laos – improving quality of extension services and access to markets

Location: Laos

Start date: December 2020. End date: 31 Dec 2023

About: The project aims to improve the quality of extension services and access to markets for smallholder goat farmers in Laos and thereby improve goat production and increase access to goat meat for the consumers.

- **Edible insects' production and trade in Zimbabwe:**

Full name: Improving market access and scaling up trading of safe and nutritious edible insects by women and youths in Zimbabwe

Location: Zimbabwe

Start date: May 2021 End date: April 2024

About: The overall aim of the project is to enable women and young people in Zimbabwe to sustainably operate insect businesses to produce safe and nutritious insect-based food. The project seeks to empower women and youth to actively participate in the development of the insect value chain, provide consumers with a nutritious and safe food source, as well as improve their income.

- **Black Soldier Fly for rural development in Vietnam**

Full name: Application on Black Soldier Fly (*Hermetia illucens*) rearing technology as a tool to improve environment safety, sustainability and rural development in South of Vietnam: Emphasis on aquaculture production

Location: Vietnam

Start date: 1 April 2022. End date: July 2023

About: to supply BSF larvae as a sustainable source of protein to livestock/and aquaculture farmers in order to improve food security, raise rural farmers' income and improve farming practices in Vietnam

- **Gender and livestock value chains in dairy sector in Uganda:**

Full name: Gender-based approaches for improving food safety, value addition and marketing in livestock systems in western Uganda

Location: Uganda

Start date: September 2021. End date: April 2024

About: The aim of the project is to empower women to produce and market safe milk products, do value addition and be able to access lucrative markets to increase household incomes and improve food security in smallholder households in western Uganda.

- **Transformation of pastoral livelihoods in Kenya: (Challenge 1 & 4)**

Full name: Transformation of pastoral livelihoods through enhanced capacity for adaptation of nutrition and commercialization policies to local contexts:

West Pokot-Kenya

Location: Kenya

Start date: June 2021. End date: December 2023

About: The aim of the project is to support livelihood transformation through;

- a) local decision-maker awareness creation and policy change on the concept of food security and the local strategies for its achievement and;
- b) capacity building of pastoralists and their institutions in order to improve value addition, market access, profitability of livelihood strategies and ensure food and nutrition diversity and security so that poor smallholders can have stable access to and consume safe and nutritious food.

Challenge 2 – Agricultural productivity and ecosystem functions

About: An increased agricultural productivity is desired in the agricultural sector to meet a growing food demand and for improving income for smallholders. This must happen while securing the well-needed functions and services from ecosystems. Navigating between these two requirements is the essence of this challenge that targets practitioners and policy stakeholders by supporting dialogues with scientists.

- **Sustainable parkland management in Burkina Faso:**

Full name: Agro-ecological practices for restoring parklands – co-producing science-based skills and knowledge for increased agricultural productivity

Location: Burkina Faso

Start date: April 2021 End date: March 2024

About: The pilot project aim is to disseminate agro-ecological practices that enforce ecosystem functions for sustainable and increased crop production. The project focuses on widely spreading agro-ecological practices that increase tree health, tree density, soil conservation and restoration and good practices for tree and crops for increased food production. The activities will use lessons learnt from the previous phases that continue support the project areas; agro-ecological practices, innovative platforms for co-production of knowledge and action, and synthesis of tools for trade-offs.

- **TRAMAP in Kenya:**

Full name: Science-based and co-produced transformative rangeland management practices – how to deal with encroachment of unwanted woody species (TRAMAP Kenya)

Location: Samburu, Kenya

Start date: October 2021. End date: December 2023

About: The overall objective is to support pastoralists and agro-pastoralists to increase agricultural productivity and enhanced landscape ecosystem functions through collective and gender observed adoption of sustainable rangeland management practices and networking.

- **Sorghum-cowpea intercropping systems in South Africa**

Full title: Promotion of sorghum-cowpea intercropping systems in smallholder farming systems in South Africa for climate change adaptation

Location: South Africa

Start date: 1 June 2022. End date: 31 December 2023

About: To unpack barriers of effective communication of scientific findings to improve crop production through the use of sorghum-based rotation and intercropping agriculture among farmers for increasing food security and income generation.

- **Productivity and sustainability in the coffee-banana systems:**

Full name: Participatory analysis of the conventional-agroecological intensification continuum for increased productivity and sustainability in the coffee-banana systems of the Mt Elgon region of Uganda

Location: Mt Elgon, Uganda

Start date: 1 July 2022 End date: 31 December 2023

About: To understand farmers attitudes, fears, and ambitions for increasing crop productivity and sustainability of the coffee-banana system of the Mt Elgon Region (MER). To identify and empower model farmers as a platform to promote and showcase sustainable intensification strategies in the coffee-banana system of the MER. To establish information and institutional needs of farmers to enhance productivity and sustainability in the coffee-banana system of the MER. To create platforms for dialogue and engagements of stakeholders and policy for increased productivity and sustainability of coffee, banana, and other crops in the MER

- **Rice straw management in Vietnam**

Full title: Sustainable rice-straw management for improving farmer livelihoods and low environmental footprint in rice-based production systems.

Location: Vietnam

Start date: 1 July 2022 End date: 31 December 2023

About: To support smallholder rice farmers and extension workers to decide on the best alternative for rice straw management by utilizing technological options as well as value chain business models.

Challenge 3 – Science-based innovation and extension

About: A well-developed science- and knowledge-based extension service is crucial for improving smallholder productivity and profitability in a sustainable way.

- **Agricultural biologicals in sub-Saharan Africa:**

Full name: Agricultural biologicals: Identifying hurdles of use of biologicals by a Knowledge, Attitude and Practice (KAP) analysis of stakeholders in sub-Saharan Africa

Location: Ethiopia, Kenya, South Africa

Start date: 1 January 2021 End date: 31 December 2022

About: The overall goal includes to assess the knowledge, attitude and practices for biologicals among researchers, agricultural-based investors, suppliers, development agencies, farmers' organisations and extension service officials and to identify potential barriers in the introduction, implementation and sustainable use of biologicals, with special consideration to female farmers.

- **Digital extension in Southeast Asia:**

Full name: Digitalization of Extension Services in the Southeast Asian (SEA) Region

Location: Vietnam, Cambodia, Philippines

Start date: 1 September 2021. End date: 30 June 2023

About: The overall goal is to explore the availability and quality of digital advisory information to provide foundation for identifying the ways forward to ensure the accessibility and timely benefits of digital extension services to smallholder farmers.

- **Extension functions in Kenya, Sri Lanka and Laos:**

Full name: Functions in extension service pathways – Kenya, Sri Lanka and Laos

Location: Kenya, Sri Lanka and Laos

Start date: 1 January 2022. End date: 31 December 2023

About: The overall goal is to improve knowledge concerning the extension services in general and more precisely the specific structures for dissemination of agricultural knowledge between research and practice in defined production systems in Kenya, Sri Lanka, Laos and Sweden.



- **Women and extension**

Full title: Women and extension: Arrangements needed for women to access, attend to and implement agricultural advice

Location: Tanzania

Start date: March 2022 End date: August 2023

About: The main objective of this project is to understand/find the features that distinguishes successful extension reaching women.

Challenge 4 – Smallholder agriculture in transforming systems

About: Rapid urbanisation and expanding urban food markets provide opportunities for smallholder farmers to engage more with markets. To support an inclusive participation of smallholders, agricultural policies and interventions need to recognise and lower existing barriers to participation. The overall objective of Challenge 4 is to translate science to inform policy in this development.

- **Transformation of pastoral livelihoods in Kenya: (Challenge 1 & 4)**

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West Pokot-Kenya

Location: Kenya

Start date: June 2021. End date: December 2023

About: The aim of the project is to support livelihood transformation through:

a) local decision-maker awareness creation and policy change on the concept of food security and the local strategies for its achievement and; b) capacity building of pastoralists and their institutions in order to improve value addition, market access, profitability of livelihood strategies and ensure food and nutrition diversity and security so that poor smallholders can have stable access to and consume safe and nutritious food.

- **Smallholders and the e-commerce of fruits in Vietnam:**

Full name: Mapping knowledge-, practical-, and policy-level challenges to increase the role of smallholder farmers in e-commerce of fruit products in Vietnam

Location: Vietnam

Start date: July 2021. End date: July 2023

About: The aim of this project is to; a) generate information on urban consumer's expectations on fruit e-commerce products and; b) identify constraints and enabling conditions for smallholder farmers to meet the expectations, and; c) assess the socio-economic impacts of e-commerce of fruit products, including through associated non-farm opportunities, on peri-urban or rural livelihood, and if the impact and opportunities are socially inclusive, and; d) promote gender equality and empowerment including for youth, and potentially contribute to rural economic restructuring.

- **Potential of smallholders for urban food system resilience:**

Full name: Resilient Urban Food Systems in Uganda (RUFUS Uganda)

Location: Uganda

Start date: June 2021. End date: May 2023

About: This project aims to contribute to an enhanced understanding by city managers and policymakers of, and an increased role for, the contribution of smallholder farming to local foodshed risk reduction, resilience building and food systems transformation in Mbale City, Kasese Municipality and Mbarara City.

- **Food systems governance in Kenya:**

Full name: Governance of food systems for improved food and nutritional security in Nairobi, Kisumu and Nakuru Counties in Kenya

Location: Kenya

Start date: March 2021. End date: August 2023

About: The overall aim of this project is to contribute to the improvement of the governance of food systems (production, value addition, and marketing and waste management in selected food value chains) for enhancement of food and nutrition security in Kisumu, Nakuru and Nairobi, Kenya.