





Education and Training for Sustainable Agriculture and Nutrition in East Africa

### **Project objectives**



Education and Training for Sustainable Agriculture and Nutrition in East Africa (EaTSANE) is an interdisciplinary research project, implemented from 2018-2022 and part of the LEAP Agri program.

**Objective**: Make farming more sustainable and improve diets of households in Kenya and Uganda through...

- ...diversified farming practices for healthier soils and diversified production,
- improved access of value chain actors to inputs and services, and
- Enhanced consumers' food culture and diverse nutrition...

with a special focus on women and youth.

#### **Project Consortium:**





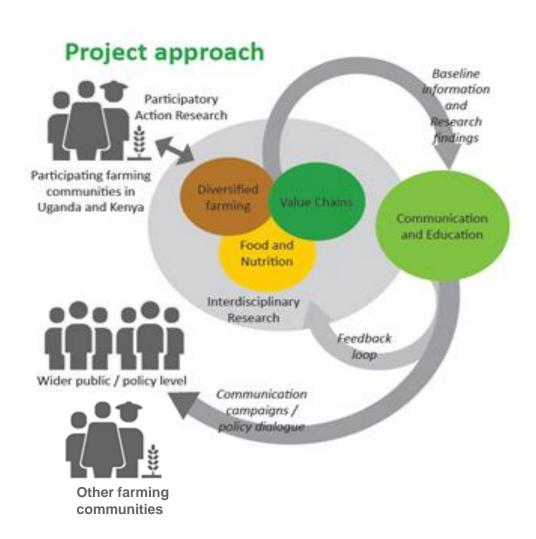




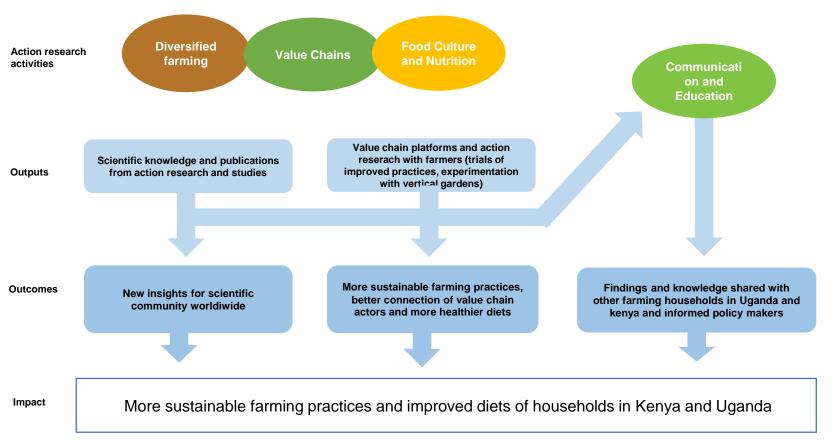








# Theory of Change - Creating impact on three levels





# WP1 – Experiments on vertical gardens

- Testing vertical garden systems to increase vegetable production
- Three systems constructed and tested in collaboration with four schools in Kapchorwa (farmer clubs)
- Vertical garden systems are showed positive results and interest from schools to continue the work on the systems









# WP1 – Demonstration plots and trainings



- Testing cropping systems to sustainable produce and higher food diversity
- Demonstration plots with
  - Improved fallow rotation
  - "Three sisters" system
  - "Three strata food system"
- **Data collection** on yield, nutrient content, weather effects, crop performance
- Farmer trainings on the established systems









### WP2 – Action research on value chains

#### Research:

#### Research studies (MSc and BSc theses)

Nutrition-sensitive value chains: understanding local market dynamics in comparative perspective

Food losses in nightshade and bush bean value chains

Women's participation in marketing in nightshade and climbing bean value chains

Gender relations in the finger millet value chain

Food losses in millet, nightshade and cowpea value chain

Farmer adoption and investments in the production of nutrient-dense crops in Kapchorwa region

Food choice and gender consumption gap within a household



Value chain platforms in Kenya and Uganda with local value chain actors to find "local solutions for local problems"





# WP3 - Trials of Improved Practices

- Training and evaluation of the implementation of improved nutrition practices in households in Kenya and Uganda
- Construction and use of solar dryers
- Participatory cooking sessions and preference trials (sensory tests)
- Study of perceived attitudes and experiences towards improved practices





# WP4 - Happy Family Board Game

- Co-creation of a training curriculum and materials with households in study areas
- Board game to show interconnectedness of household decision-making in agriculture, nutrition and value chains
- Training videos and webinar for facilitators in process (in progress)



# **WP4 - EaTSANE Practice Notes**



 Contain research findings and practical implications on agriculture and nutrition

 Target group are decision makers, extension workers, advisors, and other institutions that provide knowledge to rural farming

households

#### Practice guide and 7 practice notes on specific topics

- 1. Vertical gardens
- 2. The Three Strata Food System
- 3. The Three Sister Cropping System
- 4. Preparing vegetables without soda ash
- 5. Conserving and Preparing sun-dried vegetables
- 6. Reducing post-harvest losses
- 7. Women's participation in marketing of bush beans





#### **Contact:**

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#### **Project partners:**













#### This project is funded by:













With support from











# **Long-term Europe Africa R&I Partnership** for

# **Food and Nutrition Security and Sustainable Agriculture**

### **LEAP4FNSSA**

Carolin Callenius 13 October 2021









### **LEAP4FNSSA**

- Financed under H2020
- CSA (Coordination and Support Action)
- Coordinated by CIRAD/ FARA
- ➤ Nov 2018 Nov 2022
- ▶ Budget : 5 M €









### **LEAP4FNSSA- Partners**

#### 35 partners (20 European partners and 15 African partners)

- France---CIRAD, ANR
- Germany---BLE, DLR, UHOH, Go Africa
- Austria---BOKU
- Denmark---UCPH
- Spain---INIA
- Finland--LUKE, JYU
- Greece---KINNO
- Hungary---SIU
- Italy---CIHEAM/AMB
- Netherlands---WR
- Portugal---FCT
- Czech R---CULS
- UK---Greenwich U(NRI), ACU
- Sweden ---SLU

- S. Africa---NRF, ARC, DST
- Burkina Faso---FONRID
- Egypt---MHESR, KEF
- Ethiopia---UNION AFRICAINE
- Ghana---FARA, CSIR-GH
- Kenya---MEST, NASAC
- Nigeria---IITA
- Uganda---ASARECA, RUFORUM
- Senegal---MESRI



## **Objective of LEAP4FNSSA**

The project objective and expected impact is to:

→ establish a sustainable structure, or platform, for the efficient and coherent implementation of the EU-AU Research and Innovation Partnership as described in the FNSSA Roadmap



### The Africa-EU Partnership

- > Launched in 2007
- ➤ Driven through formal dialogue and meetings between African and European counterparts, and culminates with the AU-EU Summits









# **HLPD (EU-Africa High-Level Policy Dialogue on** science, technology and innovation)

- Serves as a platform for regular exchanges on research and innovation policy
- Identified common priorities
  - "Role of STI in ensuring food and nutrition security and sustainable agriculture (including water)" (endorsed April 2014)
  - > Expert Working Group (EWG) formed (5 African & 5 European) to develop input to Roadmap towards the Research and Innovation Partnership on food and nutrition security and sustainable agriculture (adopted 2016)





## Roadmap on FNSSA

### **Priority areas**

- 1. Sustainable Intensification
- 2. Agriculture and food systems for nutrition
- Expansion and improvement of agricultural markets and trade

### Set of cross cutting issues

- -> Africa- Calls under Horizon 2020/ Horizon Europe
- -> LEAP Agi
- -> AU Research grants











How to link the policy process (HLPD + Roadmap) with the R&I activities on the ground, with the diverse stakeholders and with the multiplicity of projects and initiatives?

=> establish an institutional Platform







### **Our vision for this EU-AU FNSSA Platform**

"A committed and operational bi-continental partnership of actors in FNSSA that aims to:

- reduce fragmentation,
- support the interaction,
- and improve the coordination of programmes,
  and which implements joint Europe Africa activities in support of the FNSSA Roadmap."

This Platform will be formed as an International Research Consortium (IRC).







## Are you interested to know more?





