

OVERVIEW OF THE FoodLAND PROJECT

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FoodLAND Kick-off Meeting in

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FOOD and Local, Agricultural, and
Nutritional Diversity
(FoodLAND)

Donor-European Union- Horizon 2020
Four Years project, 1st Sept.2020- 31st Aug 2024



To develop, implement, and validate innovative, scalable, and sustainable technologies aimed at supporting the **nutrition performance of local food systems** in Africa, while strengthening **agro-biodiversity** and **food diversity** as well as **diversity of healthy diets**

Specific Objective 1

To develop and implement organisational innovations for local food supply chains

Specific Objective 2

To develop, implement, and validate open technological innovations for (crop and fish) farming systems

Specific Objective 3

To develop, implement, and validate open technological innovations for food processing

Specific Objective 4

To disseminate innovations, strengthen balanced healthy diets, and contribute to reducing the malnutrition

FoodLAND

Food and Local, Agricultural, and Nutritional Diversity

- **Diversity**

leveraging the synergies between agro-biodiversity and dietary diversity: nutritive sensitive agriculture

- **Local varieties and species**

improving novel foods / developing new foods for urban and rural consumers

- **Participation and gender**

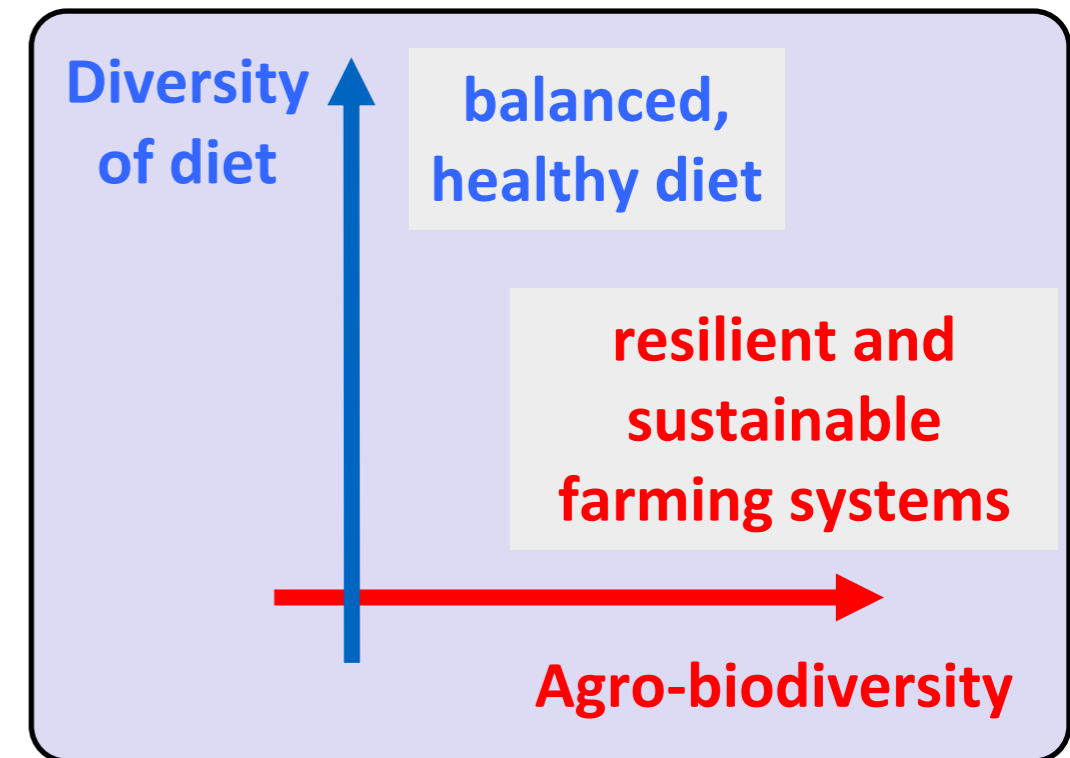
building a responsible engagement of local smallholder farmers, food processors and consumers and adopting a gender perspective

- **Open innovation**

promoting collaboration and knowledge flows between people, organizations and projects

- **Inter- and trans-disciplinarity**

integrating knowledge and methodologies from different disciplines and boosting the FoodLAND Consortium



Tanzania Team

Mobilized disciplines:

- Plant breeding/ Crop improvement
- Agronomy/Conservation agriculture
- Aquaculture
- Engineering and ICT engineering
- Climatology and agrometeorology
- Food sciences, technology and engineering
- Nutrition and food safety
- Economics and marketing
- Social science and Agricultural extension
- Communication

Established thematic groups

FoodLAND - Consortium

6 African countries

Country	Local coordinator	NGO / Organization	SME
Morocco (MA)	ENAM	CEFA	GIE
Tunisia (TN)	ISACM, INAT	CEFA	GDA
Ethiopia (ET)	UoM	REST, CEFA (ATA)	tbd
Kenya (KE)	UoN	FCI / DALF	KEPC, TAM
Tanzania (TZ)	SUA	HLV	KTM
Uganda (UG)	MAK	VEDCO / NARO	NUT

7 European countries

JHI (United Kingdom), CBS (Denmark), AGRO (Switzerland), EURICE (Germany), ELH (Spain), ABT (Malta), NVM and UNIBO (Italy)

28 partners: 18 from Africa and 10 from the EU



Partners in Tanzania

- HELVETAS Swiss Intercooperation (HLV)
- Katundu Traders and Milling Limited (KTM)

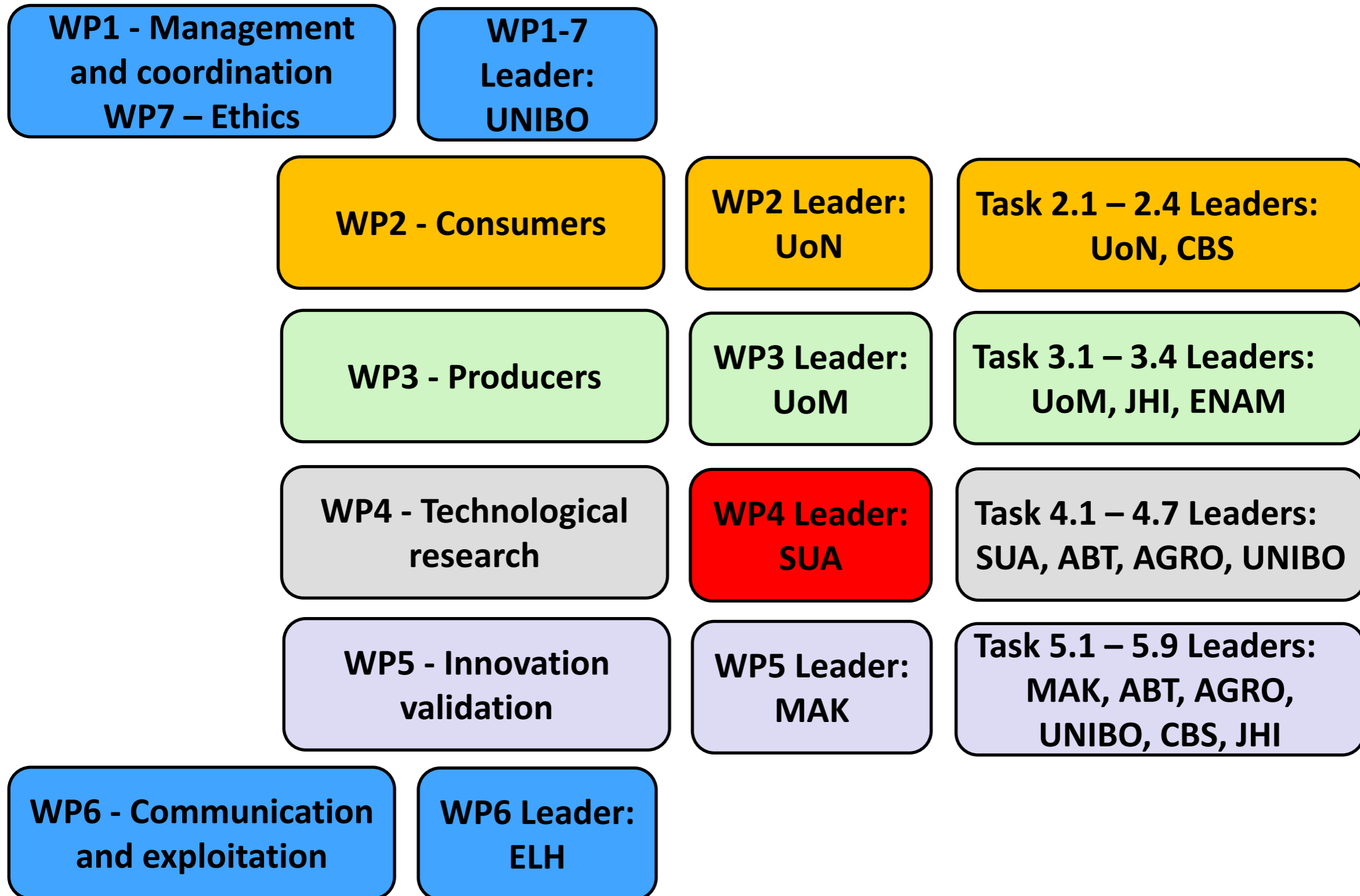
Stakeholders:

- Farmers
- Farmer groups network (MVIWATA)
- Ministry of Agriculture
- Ministry of livestock Development and Fisheries
- Ministry of Health and ...
- Tanzania Meteorological Authority
- Regulatory Authorities (e.g. TBS)
- Processors
- Retailers (e.g. Mpulila Supermarket)
- Traders
- NGOs
- Other

FoodLAND – Work Packages

Work package No.	Work package title
WP1	Management and coordination
WP2	Consumers' food preferences and behaviours
WP3	Producers' behaviours, agro biodiversity, and food diversity
WP4	Technological research along the supply chain
WP5	Innovation pilots and validation
WP6	Networking, communication, dissemination, and exploitation

FoodLAND – Work Packages and Tasks



Y1												Y2												Y3												Y4											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

M1 – M36 Consolidating knowledge (WP2, WP3)

M10 – M40 Developing technological research (WP4)

M20 – M48 Validating pilot innovations (WP5)

Overall project: 14 Food Hubs (12 rural areas/districts + 2 peri-urban areas) paired with 14 separate cities

In Tanzania:

2 food hubs

- Mvomero/ Morogoro Rural
- Kilombero

2 cities

- Morogoro
- Dar es salaam

Main identified technologies and food supply chains:

- **Farming**
plant breeding, gardening, precision irrigation / protection / harvesting, bio-mulching, integrated aquaculture
- **Primary processing**
smart storage, drying, milling, (fish) smoking and fermenting
- **Secondary processing**
centrifugation and filtration, juicing and fortification, extrusion and baking, characterization, bio-based packaging, labelling,
- **Food supply chains**
vegetables, fruits, cereals, oils, fish

Food Hub	Farming	Primary processing	Secondary processing	Food product	City
Mvomero, Morogoro rural	Selection of new lines Intercropping Precision harvesting	Smart storage; Milling	Extrusion; Baking	Legumes varieties. Composite flours and snacks (legumes, cereals)	Morogoro (TZ)
Kilombero	Rural aquaculture Intercropping	Smart storage Solar drying	Packaging	Dried vegetables and fish	Dar es Salaam (TZ)

Academic results

- **Economic laboratories implemented;**
- **Knowledge of consumers' food behaviours and diets consolidated**
- **Knowledge of smallholder farmers' decision-making process and conditions consolidated**
- **Open innovation platform and Databank for research networking developed**
- **Scientific articles submitted to international journals**
- **Contributions presented to scientific international conferences**

Economic results (1)

- ❖ **Network of 14 Food Hubs bridged with urban markets created (In Tanzania 2 food hubs and two cities)**
- ❖ **1 prototype of open digital tools released:**
 - **apps for mobiles and smart DSSs**
- ❖ **5 prototypes of innovative farming management systems released:**
 - **precision irrigation/protection/harvesting, gardening, bio-mulching**
- ❖ **1 prototype of air drying tool released**
- ❖ **1 prototype of smart storage system released**
- ❖ **4 prototypes of bio-based packaging released**
- ❖ **2 labelling protocols certifying quality and territorial origin in conformity with the EU regulations developed**
- ❖ **2 prototypes of novel improved legume lines released**

Economic results (2)

- ❖ 5 prototypes of novel raw materials and ingredients released:
 - bambara, **beans**, cowpeas, and sorghum;
 - orange fleshed sweet potatoes, grain amaranth, and pumpkin;
 - moringa and teff;
 - therapeutic powder for moderate and severe wasting in children);
 - **dried fish products (salted, smoked, fermented)**

- ❖ 9 prototypes of novel processed food products released
 - oils from novel local varieties/species: virgin and/or extra virgin olive oil; fish oils; moringa oil
 - **snacks from novel local varieties/species**: orange fleshed sweet potatoes and grain amaranth; bambara, **beans**, cereals, and cowpeas; fish cakes and crackers; therapeutic food
 - fruit-based baby foods;
 - other fish products: fillets, balls, noodles, nuggets, sausages, and burgers

Societal results

- **Introductory and technological-oriented training courses organized**
- **Tailored demos, guidelines and practice abstracts on the development and management of the validated technological innovations released**
- **Agro-biodiversity increased and water use reduced**
- **Food losses and waste reduced**
- **Safety (incl. free of mycotoxins) of novel raw materials, ingredients and food products ensured**
- **Consumer awareness raising campaigns on nutritional recommendations organized**
- **Contribution towards reduction of malnutrition within the first 1000 days of life offered**



Thank you

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