

Feed future – Alternative sustainable protein-rich sources of feed for smallholder farmers in Kenya

Online workshop: Teams link will be sent upon registration. Please register on this link: [LINK](#)

Time: 07.11.2024 at 11.00-12.40 EAT/ 9.00-12.40 CET

Funder: Dutch Ministry of Agriculture, Fisheries, Food Security and Nature (LVVN)

Aim: The aim of the online workshop is to explore the opportunities and challenges among smallholder farmers in Kenya to use black soldier fly larvae (BSFL) and microalgae as feed



Topic: How to ensure accessibility and affordability of sustainable feed to the small-scale farmers?

Project: KB35: Food & nutrition security in the global south (2023-2024) [LINK](#)

Organizers: Wageningen University and Research (WUR), Laikipia University, Nasio trust, Nyeri Fish Farmer Cooperative/ FOSPA. Also, Kenyan Marine and Fisheries Institute (KMFRI) contributed to this research.

Background: Currently thousands of small-scale farmers depend on commercial highly processed feed for their fish and livestock. Common protein sources in commercial feed, soybean and fish meal, have shown to not be sustainable with high climate impacts. Recent research conducted with small holder fish farms in Kenya has demonstrated that replacing commercial feed and substituting fish meal in diets with locally available protein sources like Spirulina (*Spirulina platensis*), dried Black Soldier Fly Larvae (BSFL) (*Hermetia illucens*) and dried freshwater shrimp (*Caridina nilotica*) result in equally high growth of Nile Tilapia (*Oreochromis niloticus*) fingerlings as commercial fish meal-based feed. This provides opportunities to replace highly priced commercial feed with high quality local protein sources, and thus enhance sustainability and reduce the climate footprint drastically.

PROGRAMME:

11.00-12.45 (EAT) Online meeting		
11.00-11.05	Overview	WUR, Siemen van Berkum
11.05-11.10	Introducing the small-scale farmers	Laikipia University (short film)
11.10-11.20	Motivation	LVVN (To be confirmed)
11.20-11.30	Access, affordability and sustainability	WUR, Katrine Soma
11.30-11.45	Spirulina feed trials	Laikipia University, Benson Obwanga
11.45-12.00	Spirulina farm trials	Nasio trust, Nancy Hunt
12.00-12.10	Affordable-Recirculation Aquaculture systems (A-RAS)	Nyeri Farmer Cooperative society/ FOSPA, Charles Mbauni Kanyuguto
12.10-12.20	Black Soldier Fly Larvae (BSFL) – perceptions of farmers	WUR, Asaah Ndambi
12.20-12.30	Questions from the online participants	Laikipia university, Felicia Yieke
12.30-12.40	Wrapping up	WUR, Eugene Rurangwa