

Global Action Network

Sustainable Food from the Oceans and Inland Waters for Food Security and Nutrition

Good practices (Kenya) - in support of the missions



24TH OCTOBER 2023

By

- Dr. Katrine Soma, PhD, Senior Scientist at Wageningen University and Research (WUR), Netherlands

Financing; The Dutch Ministry of Agriculture, Nature and Food Security

LAIKIPIA  UNIVERSITY



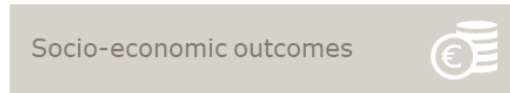
Missions

- **Take a holistic approach “from healthy waters to healthy people”**
- **Link and learn to create efforts towards achieving food security and improved nutrition**
 - **Work towards increasing the knowledge and awareness**
 - **Support each other by sharing knowledge, experiences gained- and challenges faced with:**
 - **consumption of aquatic food as part of a nutritious diet**
 - **sustainable harvesting and production of aquatic food**

Socio-economic drivers

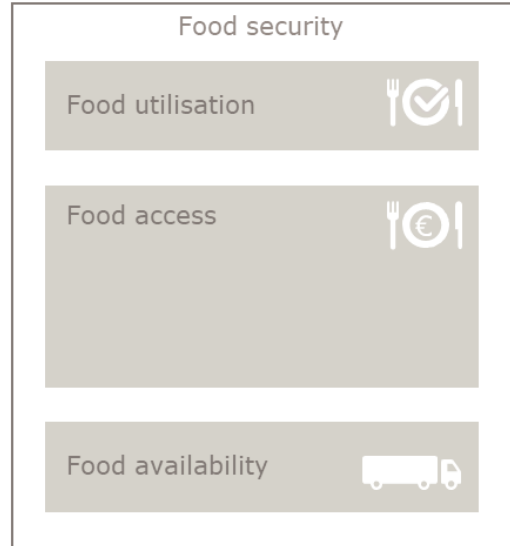
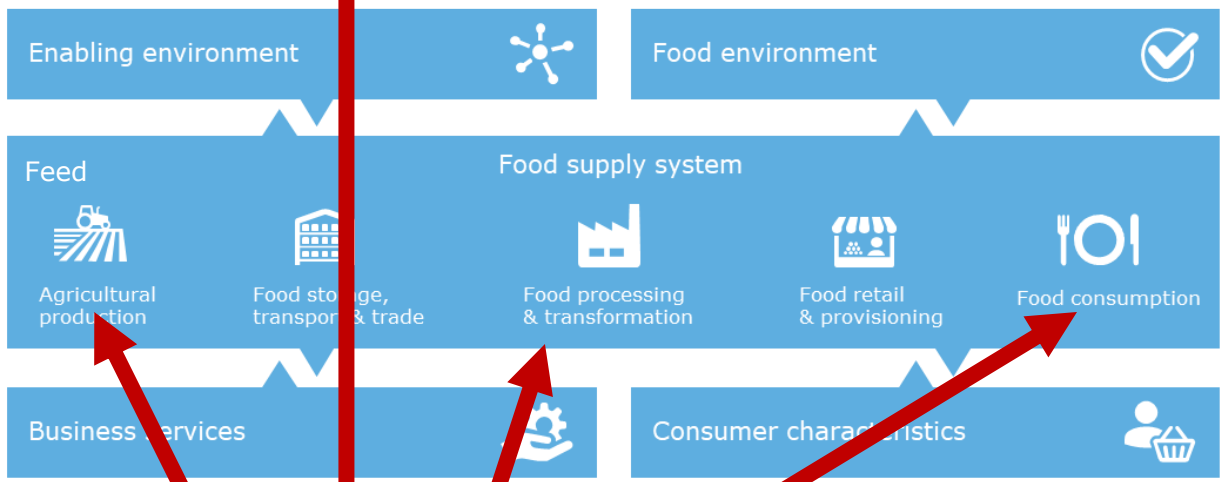


Food system outcomes

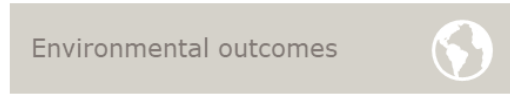


Take a holistic approach “from healthy waters to healthy people”

Food system activities



Environmental drivers



Enhance local fish markets and trade to increase food & nutrition security

A new
Nyeri-Kibera
fish food
value-chain



TRANSDISCIPLINARY:

- Dialogues
- Engagement
- Co-creation



Fingerlings &
feed

1,000 pond fish
farmers

56 vendors
now involved

Marketplace Kibera
with freezers

Fish value-chain – 2 ton of fish weekly

Insect/ microalgae-based feed

Affordable RAS

Consumers
(hundreds of
households in
Kibera)

Affordable Recirculation Aquaculture System (A-RAS) -the case of fish farming – to enhance aquaculture development



Nyeri County, Kenya

Affordable
construction design
development (2022)

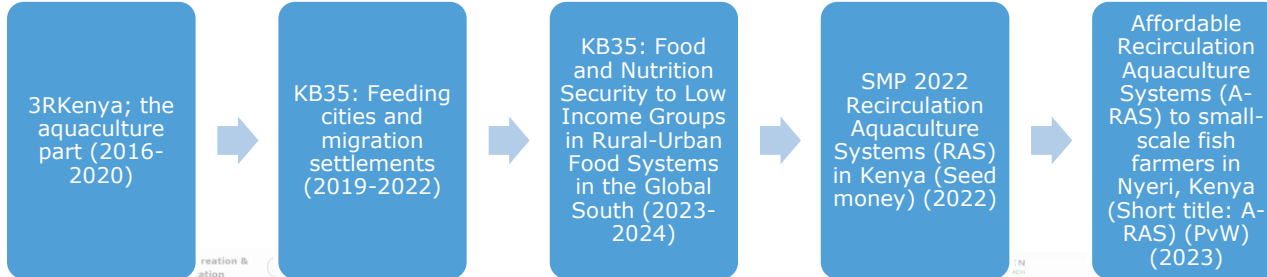
Implementation &
research (2023)

Targeting:
- small scale farmers
- women



- Only 13% of water compared with ponds
- Produce 40 times more fish
- Solar based
- Closed system - no spread of sicknesses, pest and pollution
- Affordable – costs only 10% of commercial RAS

Projects



WAGENINGEN UNIVERSITY & RESEARCH

Home > Food & nutrition security for low-income groups in rural-urban food systems

Project leader: dr. K (Katrine) Soma

Contact form

Project information

Food & nutrition security for low-income groups in rural-urban food systems

Project code: KB-35-102-001

Status: In progress

Start project: Jan 1, 2023

End project: Dec 31, 2023

Client(s): Ministry of Agriculture, Nature and Food Quality (LNV)

Partners: Wageningen University & Research

<https://www.wur.nl/en/onderzoek-resultaten/onderzoeksprojecten/lnv/soorten-onderzoek/kennisonline/food-nutrition-security-for-low-income-groups-in-rural-urban-food-systems.htm>

Home > Research & Results > Research funded by the Ministry of LNV > Feeding cities & migration

Project leader: dr. K (Katrine) Soma

Contact form

Project information

Project code: KB-35-002-001

Status: Completed

Start project: Jan 1, 2019

End project: Dec 31, 2022

Client(s): Ministerie LNV

Partners: Wageningen University & Research, Wageningen Economic Research

Project

Feeding cities & migration

Exploring enabling factors for commercializing the aquaculture sector in Kenya

Benson Obwangi, Katrine Soma, Oscar Ingasia Ayuya, Eugene Rutangwa, Dominique van Wonderen, Gea Beckman, Catherine Kibilo

3RKenya: <https://edepot.wur.nl/519215>

Home > Research & Results > Research funded by the Ministry of LNV > Feeding cities & migration

Project leader: dr. K (Katrine) Soma

Contact form

Project information

Project code: KB-35-002-001

Status: Completed

Start project: Jan 1, 2019

End project: Dec 31, 2022

Client(s): Ministerie LNV

Partners: Wageningen University & Research, Wageningen Economic Research

Project

Feeding cities & migration

<https://www.wur.nl/en/research-results/research-funded-by-the-ministry-of-lnv/expertisegebieden/kennisonline/feeding-cities-migration-1.htm>

Many developing countries are fast becoming urbanised. City dwellers have access to healthy food. A range of expertise is being brought together to work with stakeholders on the practical solutions to help improve food security.

The overall goal of the 'Feeding cities and migration call for a new' (2019)...

Download the concept note

Films

1) A NEW FISH VALUE CHAIN NYERI-KIBERA:

<https://www.youtube.com/watch?v=2MYOUZdjKV&t=1s>

2) HIGH LEVEL UN Food system summit

<https://www.youtube.com/watch?v=b4oGoYuCnJ0>



Nyeri-Kibera – series of aquaculture Kenya:

https://www.youtube.com/watch?v=2MYOUZdjKV&list=PLz_ZBmIqwkG6dgXtrekICZdRMftJ5fFj

Kibera documentary:

https://www.youtube.com/watch?v=K_goJu2encg&t=6s

