

# BioInnovate Africa in Kenya (2016-2021)

Innovation partnerships between academia, industry, and government institutions in Kenya are delivering several products at different stages of development and commercialisation. These products are eco-friendly, and are part of BioInnovate Africa's contribution to economic growth and social development in eastern Africa through sustainable industrialisation.

**Public Sector Organisations:** Jomo Kenyatta University of Agriculture and Technology (JKUAT), Kenya Industrial Research and Development Institute, University of Nairobi (UoN), Pwani University, Maseno University, Kenya Marines and Fisheries Research Institute (KMFRI), International Centre of Insect Physiology and Ecology (icipe), Kenya Agricultural and Livestock Research Organization (KALRO), Kenya Tsetse and Trypanomiasis Eradication Council (KENTTEC), International Potato Center (CIP), Lake Basin Development Authority, International Livestock Research Institute (ILRI), Stockholm Environment Institute (SEI)-Africa Center, Scinnovent Centre, African Technology Policy Studies Network (ATPS).

**Private Sector Companies:** East Africa Nutraceuticals Limited, ReallPM Kenya, Kenya Biologics, Hottiserve (EA) Limited, MIMEA International Kenya Limited, Green Enzyme Technologies Limited, Lasting Solutions, Kibwezi Agro Limited, Treasure Feeds Limited, Agri Seed Company Limited, Biobuu Kenya Limited, Euro-Ingredients Limited, Solongo Rehabilitation Group.



**Controlling human and animal diseases**

- Areawide control of tsetse flies using novel repellents and attractants
- Catnip and other herbal-based mosquito repellents



**Managing post-harvest losses**

- Refractance window drying (RWD) technology for high quality fruits and vegetables
- Post-harvest disinfection of horticultural crops using hot water treatment method



**Organic waste Conversion**

- Bio-alkanol gel fuel alternative for rural households in the Lake Victoria basin
- Using earthworms to decompose coffee waste and the excess as feed for fish and poultry
- Black Soldier Fly Larvae as alternative and affordable protein for Chicken and Fish
- Using novel enzymes for eco-friendly processing of hides and skins into leather
- Small-scale community-based biorefineries to produce syrups and other products from sorghum stems

- Food enriched with insect-based proteins
- High-quality Aroma Honey Toffees
- Vitamin A enriched sweet potato puree for fried and bakery products
- Harnessing data science to map impact of COVID-19 on food systems



- Striga weed resistant maize and finger millet
- Fungal biopesticides for safe pest control
- Integrating digital solutions for distribution of virus-free sweet potato vines



- Eleven (11) BioInnovate Africa Postgraduate students in Kenyan institutions (2017-2021)
- Ten (10) BioInnovate Africa women fellows from Kenya (2018-2021)



- Developing an innovation-led bioeconomy strategy for eastern Africa



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