

Open Innovation



Local Empowerment Through Collaboration

Innovation Exchange is a programme specially designed to introduce your company's challenges to the innovators who are already working on the solutions.

Sector Technical Challenges

Large organisations, OEMS and Local Authorities have:

- Confidential challenges to solve with no time to explore markets
- Low exposure to companies outside the traditional industry supply chain

Innovative solutions <u>from all</u> sectors

Solution providers find it difficult to:

- Open the right doors at a large org, OEM or local authority
- Prove the value proposition of products
- Understand customer's time constraints

Innovation Exchange

Challenge Owners

















Solution Providers

Challenge Holders

















































































































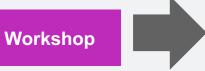


The iX process



(1) Challenge translation

Identify and translate innovation challenges with **KTN**



Jan



(2) Competition

Prepare and release competition to extended KTN and innovation networks



Public competition

Feb/Mar



(3) Solution selection

Filter and select responses by Solution Providers to the call



pitching

Apr

(4) Relationship building

Engage with chosen companies and identify routes for technology development



(5) Pilot project

Run collaborative pilot project with KTN seed funding



Technology development

May



Jun-Dec



Benefits for Challenge Holders

Supply Chain Strengthening

It helps build a route for greater and more diverse innovation content in supply chains

Quick and simple exposure to new technologies and markets

KTN delivers technology solutions from areas to which challenge holders do not normally have exposure (both in- and cross-sector)

Time efficient

It requires little time commitment, with the bulk of the resource and time provided by GAA

Expertise at no charge

We are fully funded by the UK Government and there is no charge to you for our professional services



Benefits for Solution Providers

Immediate access to large business

Successful applicants will be given the opportunity to pitch their solution to the Challenge Holder

Ongoing collaboration on project

The selected Solution Provider/s will collaborate with the Challenge Holder and gain access to local facilities, eg: farmland to carry out trials for piloting the solution

Seed Funding provision

Up to GBP 25,000 seed funding to work on the solution for this specific challenge in collaboration with the Challenge Holder

Pitching and development support

Support from KTN and mentoring from our development partners throughout the challenge process



Global Alliance Africa Open Innovation Challenges - Kenya

WEEE Centre

• CRT recycling x 2

Flamingo Horticulture

Control pests in chilli crops x 2

Kenya Airways

Airport accessibility x 2

FPEAK

Shelf-life extension x 2

Unilever Kenya

Innovative millet processing

Global Alliance Africa support FPEAK Kenya on an exciting NEW Open Innovation Challenge!

Opens: 8th August 2023

Closes: 22nd September 2023















DETECTION OF FALSE CODLING MOTH IN CROPS



Grows fresh produce and

detect smallest

abnormalities



Develops sustainable agricultural technologies to assist growers



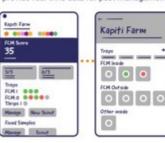


flowers in East Africa SOLUTION INNOVATIVE MOBILE FIRST DETECTION SYSTEMS FIELD TESTING SYSTEM Capture devices are mounted on mobile cart to check crop rows OF DATA Extensive reference COLLECTION images captured in different conditions DEEP LEARNING Algorithms are trained on chilli pepper dataset MULTI-SPECTRAL CAMERAS Near-infrared (NIR) light penetrates plant tissues COMPUTER VISION Machines can



FARM INFORMATION AND PEST PRESENCE ASSESSMENT

Location information and scouting tools provide real-time data for pest management



OUTCOME

ACTIVE AND EFFECTIVE **CROP PROTECTION**

RISK REDUCTION FOR FARMERS Safeguarding

jobs and supporting food security



EARLY DISEASE DETECTION AND YIELD PREDICTION

Analysis of plant height, leaves and fruits



SOLUTIONS FOR OTHER PESTS AND CROPS

Solution will be customised for tomatoes and citrus next







FCM solution is part of modular super app