UK-Kenya Health Global Innovation Network

Launch Event
As the UK’s national innovation agency, Innovate UK exists to support and connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.
Theme 3: Global opportunities

More and more countries are looking to science and innovation to build their economies and meet global challenges. There is a major opportunity for international co-operation on research and development and innovation that builds on our world-class science and research capabilities and industry strengths.
The Government’s vision is for the UK to be a global hub for innovation by 2035.

Innovate UK shared international objectives:

• More UK businesses making global success a key part of their innovation-driven growth

• UK as the international innovation partner of choice and one of the most attractive places in the world for innovation

• UK research and innovation building alliances to tackle global challenges

• Increased inward investment into the UK R&D
We are truly cross-cutting, to simplify complexity

- Deep sector expertise across 20 key economic sectors
- Comprehensive cross-sector programmes, including Global Innovation
- Working across complete innovation ecosystem
- A network of +45,000 unique organisations, c.80% SMEs, +240,000 innovators
- In the UK and with 40+ countries
Primary Delivery Partners

UK Government

National Innovation Agencies
A New Approach to Africa

“With a shared passion for entrepreneurship, technology and innovation, now is the time for UK companies to strengthen their partnerships with Africa to boost jobs and drive prosperity both at home and overseas...

The challenges facing Africa are not Africa's alone. It is the world's interest to see these jobs created.”

UK Government, August 2018
Building UK-Africa Partnerships

**Local to Global**
- Open Innovation (OI)
- Place-Based Innovation (PBI)

**Access to Funding**
- Collaborative R&D Funding (CR&D)
- Strengthening the Investment Pipeline (SIP)

**Connected Innovation**
- Global Innovation Network (GIN)
- Innovation Governance Knowledge Exchange (IGKE)

**Deep Expertise**
- Manufacturing & Materials
- Transport & Mobility
- AgriFood
- Health
- Energy
- Waste & Water
What are Innovation Networks?

Innovate UK's Innovation Networks unite some of the best minds and greatest thinkers from across the UK and globally to find answers to some of the world’s most significant challenges.

Innovation Networks will facilitate UK, African and EU networks to deliver collaborative research, innovation and funding solutions that address key global innovation challenges.
Global Innovation Networks

- Digital & Creative
  - Circular Fashion
- Circular Economy
- Sustainable Construction
- Food Security
  - Alternative Proteins
- Health
  - Early Detection & Diagnosis of Cancer
- Space Technology*
  - Space Data & Earth Observation
- Energy Transition
  - Smart Energy Systems
- Water Security
  - Water Security & Wastewater Management
UK-Kenya Alternative Protein Innovation Network

Objective

- To facilitate knowledge-sharing and collaboration to enhance food security and nutrition in Kenya by identifying innovative approaches and solutions (palatability and desirability) that can contribute to sustainable and resilient food systems.
- 200+ stakeholders engaged, 45+ registered members

Sustainable Algae
This group will focus on the development of algae-based protein products for human consumption. They will explore various innovative forms and applications of algae protein.

Insects for food
This group will focus on the use of innovative technologies for the development of insect-based protein products for human consumption incorporating insect-based proteins into various food products.

Fermentation
This group will focus on the development of fermentation-based protein products for human consumption.

Exhibit 1 - Alternative Protein Consumption Will Grow in Three Waves

Consumption of alternative proteins by protein source (million metric tons, base-case scenario)

Sources: US Department of Agriculture, Euromonitor; UB; ING; Good Food Institute; expert interviews; Blue Horizon and BCG analysis.
* CAGR from 2022 to 2025, starting from market entry.
UK-Kenya Health Innovation Network

**Objective**

- To improve accessibility and affordability of early cancer screening, detection and diagnosis rates in Kenya.
- 100+ stakeholders engaged, with 20+ registered members.
- Establish a working group formed with UK and KE partners
- Potential collaboration pipelines
- Scoping mission to the UK

**Prostate Cancer**
Prostate cancer is a common and serious disease that mainly occurs in the prostate gland. This cancer is more common in older men, especially those aged over 50.

**Cervical Cancer**
Cervical cancer is a major health concern related to persistent human papillomavirus (HPV) infection. Detecting it early is crucial to lessening its impact.

**Breast Cancer**
Breast cancer is the most common cancer affecting women in Kenya and globally. Raising awareness is pivotal for early detection and improved outcomes.

**Cancer treatment and cost (Sh)**

<table>
<thead>
<tr>
<th>Type of cancer</th>
<th>without surgery</th>
<th>with surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cervical</td>
<td>172,000-759,000</td>
<td>672,000-1,250,000</td>
</tr>
<tr>
<td>Breast</td>
<td>175,200-1,980,000</td>
<td>758,000-2,480,000</td>
</tr>
<tr>
<td>Prostate</td>
<td>138,000-1,212,500</td>
<td></td>
</tr>
<tr>
<td>Esophageal</td>
<td>126,000-1,002,500</td>
<td></td>
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</tbody>
</table>

15% low income countries receive only 5% of global spending on cancer

3 Out of five people who die of cancer in Kenya are women

Out of 5 new cancer cases is breast cancer

43% 57%
Network Roadmap

Pillar 1: Affordable cancer screening, detection and diagnosis innovations

- Knowledge exchange activities
- Technology and innovation transfer
- Providing access to funding
- Building innovation collaborations and facilitating industry connections

Pillar 2: Accessible cancer screening, detection and diagnosis innovations

- Adoption of affordable and accessible cancer diagnosis and detection innovations
- Enhanced UK-Kenya collaborations & partnerships
- Increased accessibility to affordable cancer diagnosis and detection innovations

Activities

- Enhance access to cancer diagnosis and detection
- Strengthening health systems
- Addressing the gap in suitable health technologies

Outcomes
## Action Plan - Activities and Timelines

<table>
<thead>
<tr>
<th>S/N</th>
<th>Activities</th>
<th>Suggested ownership/stakeholder group(s)</th>
<th>Delivery Timeline</th>
</tr>
</thead>
</table>
| 1.  | Knowledge exchange activities  
• Convene stakeholder workshops and events | Innovate UK, sector experts | March 2024– March 2025  
Status – In progress |
| 2.  | Ecosystem Strengthening  
• Facilitate industry connections  
• Enhance UK-Kenya collaborations & partnerships | Innovate UK, Sector experts and network members | April 2024– March 2025  
Status – In progress |
| 3.  | Technology/Innovation Transfer  
• UK-Kenya scoping missions (in-country and abroad) | Innovate UK, | April 2024– March 2025  
Status – In progress |
| 4.  | Collaborative Funding  
• Open call for innovative cancer tech and innovations  
• Collaborative exchanges | Innovate UK | March 2024– March 2025  
Status – To be delivered |
How to join the network

Scan me
Opportunities

Collaboration
- SA company looking for UK collaborators: The Council for Scientific and Industrial Research (CSIR)
- KE company looking for UK collaborators: Vectorgram
- UK company looking for African collaborators: Digistain

Funding
- NHS open call for funding: https://sbrihealthcare.co.uk/competitions/nhs-cancer-programme-innovation-open-call-3

Scoping mission
- June 2024
Thank you

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