

# RECIRCULATE

Driving eco-innovation in Africa:  
capacity building for a safe circular water economy



A SHARED VISION.....

# A vision shared across institutions

...to support **new partnership-based approaches** to enable West African researchers to **grow transformational impact** through **working with, in and for their communities.**

Impact delivered through eco-innovation: **new products, processes, interventions and services** that deliver **benefits to both society and the environment.**

# A challenge-led programme: water



**DRINKING/SANITATION**



**FOOD PRODUCTION**



**ENERGY/WASTE**



**WATER POLLUTION**



**DROUGHT/CLIMATE CHANGE**

## NIGERIA

57 million people without access to safe water

>130 million people without access adequate sanitation

c. 45,000 children die every year from diarrhoea

Water availability for agriculture, food security,

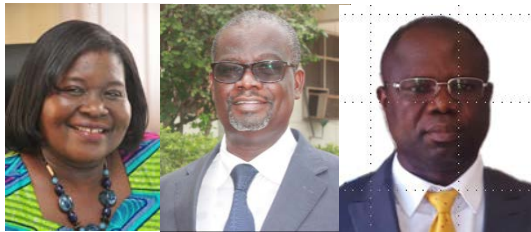
Water pollution linked to urbanisation and industrialization.



Ghana

# A programme developed collectively.....

...to support new partnership-based approaches to enable West African researchers to grow transformational impact through working with, in and for their communities.



Health & Medicine

Lancaster University 



Lancaster Environment Centre

Lancaster University 



Engineering

Lancaster University 



Lancaster University   
Ghana

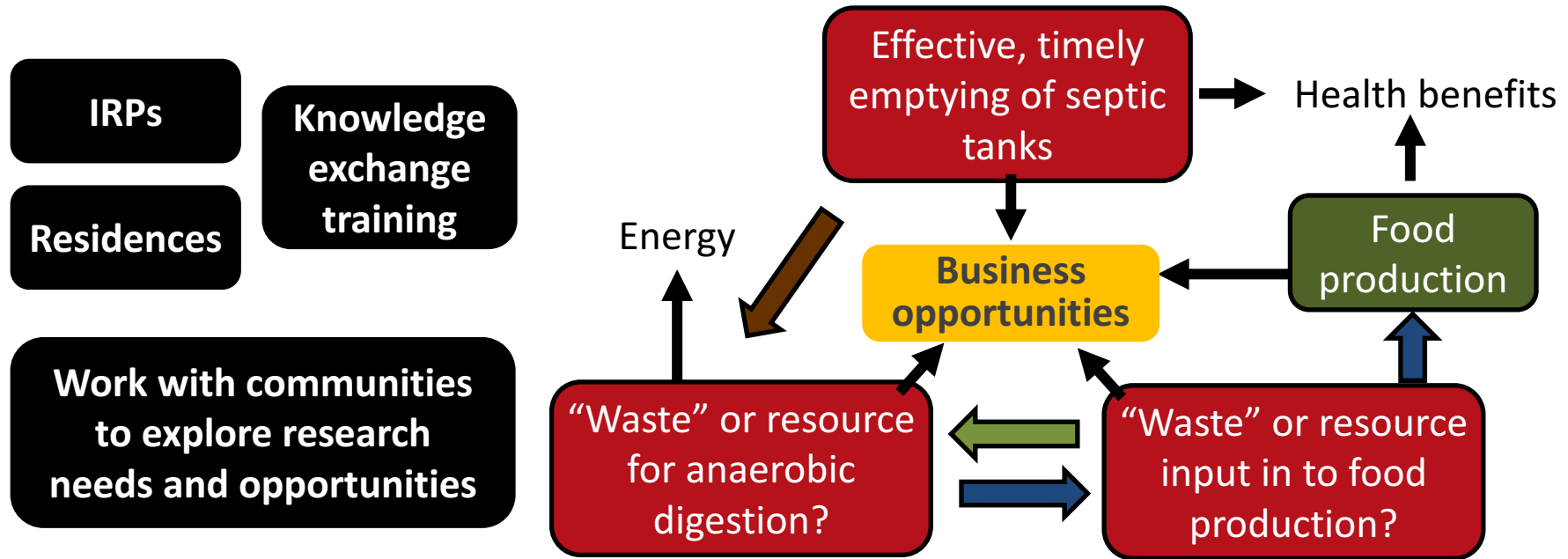


Lancaster University  
Management School

# RESEARCH BUILDING ON SHARED STRENGTH

## Through co-design & co-development.....

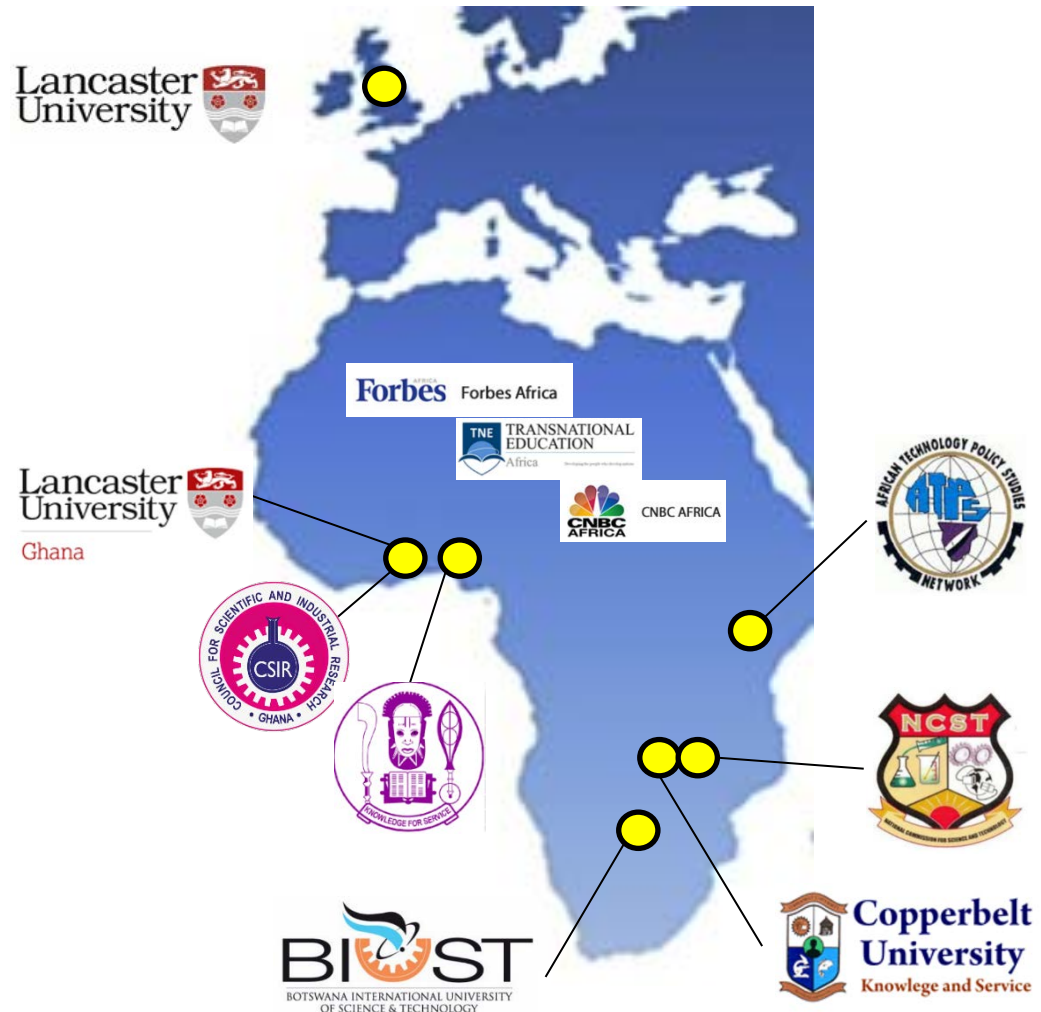
RESEARCH FELLOWS



**Build new links between existing research excellence across partners and disciplines**

# RECIRCULATE: a shared legacy

- New co-developed products, interventions, processes and services.
- Shared research and learning
- Embedded innovation cultures
- Enduring networks of collaboration
- Pan-African dissemination





## Academia-Industry-Government engagement:

- 2013-2014: Several meetings University of Benin and LEC discussing the 'Lancaster model'
- 2015: In partnership with the University of Benin - a forum attended by academia, industry and government



- An international committee set up to develop the forum – made up of University of Benin and LEC staff

## Foundation Programmes

## Undergraduate Programmes

- Accounting and Finance
- Business Studies, Marketing
- Computer Science
- Economics and International Relations
- Law
- Politics and International Relations
- Psychology

## Postgraduate

- Executive MBA, CPD

## New campus – 2019

- ~1,400-1,600 students
- Environmental science
- Engineering

Centre for West  
African Studies

Lancaster  
University



Ghana

*Food Security and Sustainable Agriculture,  
Energy, Waste, Pollution*

*Public Health and Infection  
Economic Growth and Poverty Reduction*

*Transport, Communications and Infrastructure  
Institutional Stability and Extremism*



Gareth Philips: African Development Bank  
Prof Nigel Paul: Lancaster University  
Tim Clarke: former EU Ambassador  
Tumusiime Rhoda Peace: African Union



- COP21: Africa Pavillion side event. Organized in collaboration with AfDB, Nov 2015
- Participation of Lancaster University at COP 21, African Pavilion Side Event

*‘Lancaster University partners with the African Development Bank at the Paris Climate talks to explore how university-business collaboration can help Africa adapt to climate change’*

<http://www.lancaster.ac.uk/lec/news-and-events/news/2015/dec-2015/eco-innovation-in-africa/>

## International Forum: Connecting Research Challenges and Funding with Business Opportunities in Africa: 19th - 20th July 2016

Lancaster University hosted a two-day International Forum to bring together Africans and Europeans from academia, business, government and civil society sectors:

- To bridge academic, business and policy dimension and begin the co-design mechanisms for facilitating sustainable and innovative engagement within Africa
- To highlight the importance of Universities and Business working together in partnership to support sustainable innovation and growth
- Funding opportunities - GCRF



# Africa-Lancaster Springboard for International Collaboration: 22<sup>nd</sup> – 24<sup>th</sup> November, 2016



EPSRC @EPSRC

Following

Lancaster University forges links with African businesses to develop plans for research-led projects [bit.ly/2gykfBB](https://bit.ly/2gykfBB) @LancasterUni



RETWEETS  
7

LIKES  
5



3:30 am - 28 Nov 2016



1



7



5

@LancasterUni; @LancsUniLEC; @CGEInnovation; @LancasterGhana; #LU\_GCRF; #AfricaLU



Ghana

## MoA for CGE (Nigeria) signed in Nov 2016:

First international hub for the Centre for Global Eco-innovation



## Thoughts on why it was funded.....

- Research excellence
  - Previous funding (Manoj Roy, KTS, CGE)
- Clear strategy for capacity building – not just about the research itself
  - Impact
- Management
- LU investment in West Africa
  - Ghana campus
  - Centre for West African Studies
  - International workshops, partially funded by RCUK
- Strong evidence of real partnerships – involvement of partners in proposal
  - UniBen – MoA
  - MoUs with other partners
- Interview
  - Preparation – mock interviews, tough questions
  - Professional
  - African partner