

Capability Statement



1. OVERVIEW

Vision

Knowledge for better livelihoods

Mission

To strengthen the capacity of African countries and institutions to harness science, technology and innovation

Goal

To position ACTS as a think tank of choice for policy research in the application of STI in strategic thematic areas including climate change, energy, digital innovation, agriculture and food security; inclusive innovation- through quality research, policy analysis, dialogue, capacity building and outreach.

Value Proposition

1. To conduct high quality research, policy analysis, capacity building and outreach on the application of science, technology and innovation policies for sustainable development.
2. To facilitate and convene evidence-based policy dialogue and debates.
3. To inform, influence and enhance development theory, policy and practice.
4. To put critical issues of science, technology and innovation on the development agenda, with special focus on agriculture, food and nutrition security, climate change and energy.
5. To provide independent and objective policy advice to African governments and institutions, regional economic communities, private sector, civil society and put issues critical to Africa's development on global, regional and national agenda.
6. To broker and leverage STI research, knowledge and expertise for development policy and practice in Africa.



About ACTS

The African Centre for Technology Studies (ACTS) is a non-profit and non-partisan Inter-governmental think-tank, whose core mandate is to pursue policy-oriented research to strengthen the capacity of African countries and institutions to harness science, technology and innovation (STI) for sustainable development. Founded in 1988 by the renowned African scientist and scholar, the late Prof. Calestous Juma, the Centre is mandated to undertake capacity building, conduct research, provide advisory services and disseminate information on the policy aspects of the application of STI for sustainable development in Africa.

INTERVENTION LOGIC



2. OUR PROGRAMMES

Agriculture, Food and Nutrition Security (AFNS)



This programme aims to accelerate sustainable, inclusive agri-food systems' transformation for food and nutrition security through cutting-edge STI-focused, policy-relevant research and knowledge brokerage. The programme contributes to the efforts of the African Union (AU) and Sustainable Development Goals (SDGs) to enhance

food and nutrition security and improve livelihoods in Africa through harnessing STI for sustainable and inclusive agri-food systems. Activities under the AFNS programme are motivated by food insecurity, undernourishment and dietary transitions; impact of climate change and other emerging shocks on resilience of agri-food system; regionalisation and agri-food systems' transformation through trade; and the challenge of post-harvest loss and waste and the imperative to accelerate sustainable agro-industry.

Science, Technology & Innovation, Knowledge and Society (STIKS)



The STIKS programme envisions an African continent that effectively creates and utilises research findings on the interplay between STI, knowledge and society to formulate development strategies, policies and practice. To achieve this vision, the programme undertakes key STI research and supports the development of a cadre

of researchers, analysts, policy makers, entrepreneurs, businesses and communities in Africa on the interplay of STI, knowledge and society, specifically related to the African context. It focuses on use of evidence in STI policy making in Africa, innovation and development of postgraduates and academic professionals, mentorship and training for innovators/ entrepreneurs/ policy makers and civil society, promoting sustainable circular innovation, new technologies and implementation of STI roadmaps for SDGs.

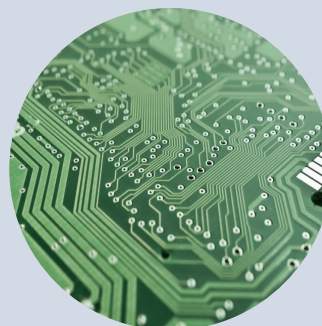
Climate Resilient Economies (CRE)



The programme provides policy choices that support the generation, uptake and harnessing of climate change-related STI for sustainable and diversified livelihoods, socio-economic development and biodiversity conservation in Africa. Through these efforts, the programme expects to create an inclusive, pro-poor and thriving climate change

resilient economies for economic, social and environmental sustainability in Africa. In addition, the programme is keen on supporting development of enabling capacities, policies, organisations and institutions for harnessing applications of climate change-related sciences, technologies and innovations for energy access and security, water quality and security, biodiversity and natural resource management in Africa by mobilising resources and funds for building climate-resilient economies.

Digital Innovation and Knowledge Economy (DIKE)



The programme aims to enhance the development, deployment and adoption of responsible digital technologies for sustainable and inclusive development in Africa through capacity building, policy research and technology brokerage. To unlock the potential of state-of-the-art digital technologies - such as 4th industrial

revolution technologies for driving the economies of African countries - the programme focuses on conducting policy research in digital solutions; strengthening post-graduate training and research in responsible digital technologies; promoting uptake and deployment of digital technologies; and building the required human resource capacity in this field.

Gender, Youth and Inclusive Development (GYID)

The programme aims to empower women, youth and vulnerable groups to harness science, technology and innovation for economic, social and environmental sustainability in Africa. It strives to achieve this goal by providing policy choices that exploit the potential of women, youth and other marginalised groups to harness STI for sustainable and diversified livelihoods and socio-economic development in Africa. The programme recognises the potential of STI's role in enhancing the contribution of women to sustainable development in Africa. It focuses key activities that promote the uptake of STI solutions (by youth, women and marginalised persons)



3. MEET OUR TEAM



Prof. Tom Ogada

Executive Director

Expertise

Strategic management, technology transfer/commercialization, intellectual property, energy, policy development, agro-processing, value addition and capacity building.



Dr. Ann Kingiri

Director, Research and Innovation

Expertise

Innovation, policy research, biotechnology, policy analysis, strategic management, capacity building, agricultural extension.



Pheles Ngovo

Director, Finance and Administration

Expertise

Budgeting, monitoring and reporting, procurement, grant/contracts and sub-grant management of donor funds, financial management/security.



Dr. Catherine Kilelu

Programme Lead: Agriculture, Food and Nutrition Security (AFNS)

Expertise

Research for Development, agri-food systems innovation, circular bio-economy and inclusive smallholder commercialization.



Dr. Winstone Ojenge

Programme Lead: Digital Economy

Expertise

Computer Science, artificial intelligence, machine learning, Internet of Things, innovation studies, information systems, inclusive development and policy.



Dr. Joel Onyango

Programme Lead: Climate Resilient Economies (CRE)

Expertise

Science technology and innovation, climate change adaptation and mitigation, water quality, food security, and sustainable development.



Dr. Agnes Lutomiah

Programme Lead: STI, Knowledge and Society (STIKS)

Expertise

Higher education, bibliometrics, scientometrics and research performance, innovation studies, inclusive development and policy.



Dr. Caroline Mbaya

Programme Lead: Gender, Youth and Inclusive Development (GYID)

Expertise

Gender and inclusive development, entrepreneurship, project management, monitoring and evaluation.



Dr. Dorcas Kalele

Research Fellow

Expertise

Climate-smart agriculture models, sustainable food security and resilience in local, regional and international contexts.



Patrick Obunga

Research Fellow

Expertise

Project planning and management, monitoring/evaluation, research & innovation, water resource management, climate change & inclusive development.



Alfred Oduor

Communication and Outreach

Expertise

Communication strategies, video production, brand management, photography, monitoring/evaluation, content creation, graphic design and media liaison.



Caroline Bwire

Human Resources Officer

Expertise

Labour laws and policies, HR systems, performance appraisals, record management, recruitment processes and staff welfare.



Isaiah Omolo

Research Fellow

Expertise

Project planning and management, renewable energy, mechanical engineering, refrigeration and air-conditioning.



Samuel Wanjau

Research Fellow

Expertise

Health informatics, artificial intelligence, context-based Mobile Apps, algorithms and computational Analysis and System Modeling.

MEET OUR TEAM



Mercy Ayub

Research Fellow

Expertise

Computer science, artificial Intelligence, smart technologies, Internet of Things (IoT) and machine learning.



Moses Owidhi

IT Officer

Expertise

Managing servers, storage, network and key systems and services.



Maureen Kabasa

Research Fellow

Expertise

Environmental impact assessment, applied ecology, agro-ecosystems, and integrated pest management.



Nora Ndege

Research Fellow

Expertise

Innovation and knowledge systems, knowledge transfer, STI & policy evaluation.



Erica Atieno

Research Assistant

Expertise

Climate change, climate finance and environmental science.



Josephat Okemwa

Research Assistant

Expertise

Development economics, energy transition, statistics and data analytics.



Maureen Chepkemoi

Research Fellow

Expertise

Project management, research, Business administration and finance.



Ann Numi

PhD Scholar

Expertise

Innovation, sustainable development and biotechnology.



Jane Wanjeri

Finance Officer

Expertise

Finance Administration, bank reconciliation, budgeting and grant management.



Mary Kiroe

Procurement Officer

Expertise

Procurement management, procurement, bid analysis, vendor selection.



Fiona Makayoto

Communications Assistant

Expertise

Graphic design, social media management, marketing, video production and editing.



Asma Kopa

Project Manager (Blue Empowerment)

Expertise

Project management, project monitoring, data collection & analysis.



Esther Mugeru

Project Assistant

Expertise

Project documentation, record keeping, data analysis, project coordination.



Marvin Atieno

Procurement Assistant

Expertise

Procurement, bid analysis, vendor selection.

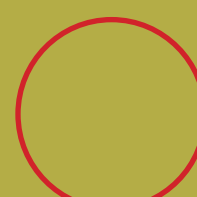
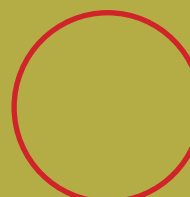
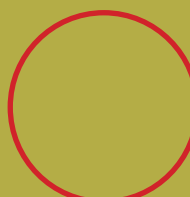


Elizabeth Muthusi

Finance Assistant

Expertise

Project management, project monitoring, data collection & analysis.



4. OUR TRACK RECORD

Agriculture, Food and Nutrition Security (AFNS)

#	Project	Funding	Period
1	Community Cooling Hub Project. Read More	UK PACT	
2	Circular Bioeconomy for the Kenyan Dairy Sector (VALORISE) Project. Read More	Ministry of Foreign Affairs of Denmark	2022- 2024
3	Scaling-Up Solar Drying to Reduce Post-Harvest Losses in Kenya– Opportunities for Inclusive Climate-Action Enterprises. Read More	The Institute of Food Technologists (IFT) (US \$ 100,000)	2022-2023
4	Aquaculture of Seaweeds and Fish: Opportunities for Blue Economic Empowerment and COVID-19 Resilience of Fisher Women in Kenya. Read More	IDRC USD (400,000 ACTS)	2022-2025
5	Scaling Up Agricultural Digital Innovations within Fairtrade Producer Organizations (FTA).		
6	Building High-Level Support and National Capacities to enhance Climate and Ozone Protection through Cooling Efficiency – ACES/SPOKE.		
7	Climate Change Resilient Horticulture Sector in Kenya/ Option for Building climate resilience in Kenyan horticultural sector	Dutch Embassy (USD 39,600)	
8	Ecosystem Based Adaptation for Food Security in Africa	UNEP (USD 390, 000)	2018-2022
9	Small farms, small food business and sustainable food security	European Union	2016-2020
10	The 3R projects - From AID to Trade in Agrifood sectors in Kenya	Embassy of the Netherlands	2016-2020
11	Assessing and supporting input and advisory service systems for resilient market oriented smallholder dairy system (2016-2018)	Dutch Government	2016-2018

Science, Technology & Innovation, Knowledge and Society (STIKS)

#	Project	Funding	Period
1	Supporting Science Granting Councils to fund and manage research and innovation projects. Read More .	IDRC/Sida/FCDO (US \$ 6.34 Million)	2023-2025
2	The African Network for Economics of Learning, Innovation, and Competence Building Systems. Read More	SIDA (US\$ 3.3 million)	2017-2023
3	SGCI-2: Use of Evidence in Policy and Decision Making. Read More	SIDA/IDRC/NORAD/FCDO	
4	Capacity building of Science Granting Councils in Africa	IDRC (USD 3.6 million)	
5	Trilateral Chair on Transformative Innovation. Read More		
6	Transforming Climate Innovation Ecosystems through Inclusive Transdisciplinarity (TransCIIT) project. Read More	British Council	
7	STI for SDGs. Read More .	IDRC	
8	Green & Circular Innovation in Kenyan Companies (GeckoCir). Read More	DANIDA	2018-2020
9	Transformative Innovation, the 4th Industrial Revolution and Sustainable Development. Read More	South African National Research Foundation and the British Council	
10	Innovation in Renewable Energy in Kenya. Read More .	DANIDA (US\$ 554,356)	2025-2021
11	Understanding the Knowledge Systems in East Africa. Read More	CDO (GBP 209,000)	2018-2020
12	Enabling Institutions, Policies & Financial Mechanisms for STI in Eastern Africa	UNESCO USD 20,000	2018-2022

OUR TRACK RECORD

Climate Resilient Economies (CRE)

#	Project	Funding	Period
1	Aquaculture of seaweeds and fish: Opportunities for blue economic empowerment and Covid-19 resilience of fisher women in Kenya (Blue Empowerment Project). Read More	IDRC	2022-2024
2	Modern Energy Cooking Services (MECS). Read more	FCDO (USD 63,460)	2028-2022
3	Mobilising development finance for strategic and scaled up investment in Climate Adaptation. Read More	IDRC(USD 40,000)	2020-2021
4	Capacity building of technical institutions involved in the provision of climate change education, training and scientific research services in the COMESA. Read More	COMESA	2020-2021
5	Water Transformation Pathways Planning (TransPath). Read more	DUPC – Egerton University Funds (Euro 36,000)	2022-2025
6	Low Carbon Development Pathways in the Dairy Sector	Global Challenge Fund (USD 39,200)	2018-2022
7	Multi-hazard Project. Read More	UK Research and Innovation (UKRI) Global Challenges Research Fund (GCRF	
8	Transforming Energy Access in Africa	FCDO (USD 65,000)	2018-2019
9	Inclusive low emission dairy development in East Africa Read More	IFAD USD 500,000	2018-2020
10	Strengthening Non-State Climate Action in the Global South. Read More	FCDO US\$ 65,000.	2018-2021
11	Strengthening community-based research for river health and climate change mitigation in Eastern Africa (STREM). Read More		2017-2020
12	Decoloniality Book project. Read More		
13	Agrivoltaics Project. Read More		
14	Using Innovation System Builders to Access International Climate Finance for the Implementation of NDCs, Phase 1. Read More	UK Economic and Social Research Council. (USD 29,000)	2015-2018

Digital Innovation and Knowledge Economy (DIKE)

#	Project	Funding	Period
1	Green Digital Innovation Hub (gDIH) in Kenya. Read More	GIZ	2023 - 2024
2	Artificial Intelligence for Development Africa (AI4D Africa) Scholarship Project. Read More	IDRC	2021 - 2024
3	Mapping Innovation Eco-System in Kenya Project. Read More	UNDP	2022
4	SGCI Database Development Project – Additional Component	IDRC	2022
5	Explainable and Auditable AI in the Nexus of Climate Change and Food Security	Tech Ethics Lab	2022

5. ACTS BY THE NUMBERS

Implementing

40

Research Projects

Operating in

25

African Countries.

Collaborating with

100

Partners

Supported by

50

Staff/Consultants.

Published Over.

500

Publications.

Working with

100

Communities



African Centre for Technology Studies
ICIPE Duduville Campus, Kasarani
P.O. Box 45917 - 00100
Nairobi, Kenya.

Tel: +254710607210 || +254737916566
Email: info@acts-net.org

 **@ACTSNET**

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