

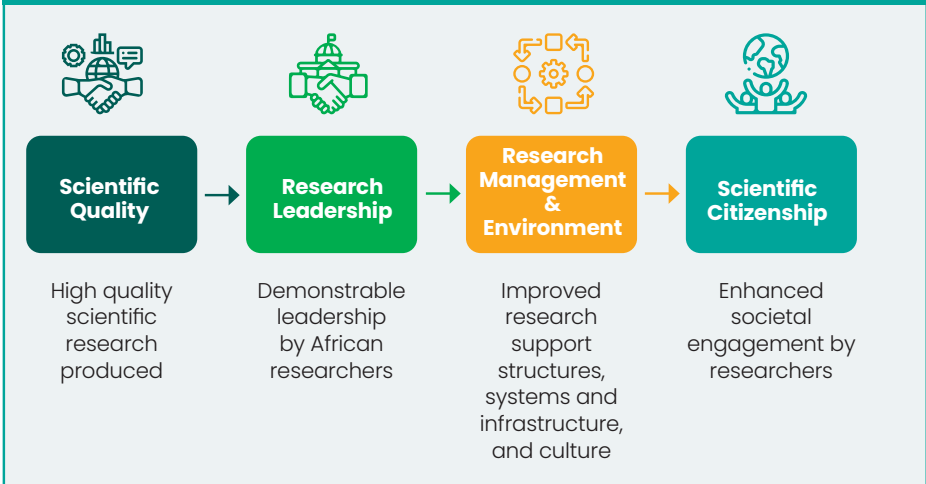
Overview

The Developing Excellence in Leadership, Training, and Science in Africa (DELTA Africa) is a long-term, multimillion dollar programme launched in 2015 to support collaborative consortia led by Africa-based scientists to amplify Africa-led development of world-class research and scientific leaders on the continent, while strengthening African institutions. DELTA Africa generates data and evidence driven by world class science leaders working in conducive and enabling environments to inform policy and Africa's development agenda.

DELTA Africa seeks to produce researchers who drive locally relevant and high-quality health research impacting on science, policy and practice in Africa and contributing to improved health and sustainable development on the continent and globally.

The Science for Africa Foundation (SFA Foundation) is implementing the DELTA Africa programme and manages the second phase, DELTA Africa II, 2023-2027 with support from Wellcome and the UK Foreign Commonwealth and Development Office (FCDO). This second phase kicked off in 2023 with 14 consortia led from 9 African countries, namely Côte d'Ivoire, Ethiopia, Ghana, Kenya, Mali, Senegal, South Africa, Tunisia and Zimbabwe with partnerships across Africa and globally. The focus is to improve Africa's research ecosystem through the production of quality science, a critical mass of world class science leaders; addressing and linking country level challenges via Science Innovation, Translation and Entrepreneurship; and strengthening science ecosystems and infrastructure that is conducive to deliver targeted R&D outcomes for Africa.

Strategic focus areas





DELTAS IN NUMBERS



\$170M

invested in two phases of DELTAS Africa running 2015-2022 for DELTAS Africa I and 2023-2026 for DELTAS Africa II

DELTAS Africa II incorporates social sciences given the need to address our continental developmental challenges holistically, including contextually relevant social science and humanities research outputs.

These approaches are defined in the SFA Foundation Strategy (2023-2027) and white paper on the interconnectedness of climate change, food security and health.

DELTAS Africa I

DELTAS Africa I, was a USD 100 Million investment that was implemented over 2015-2022. This first phase was implemented at the African Academy of Sciences in partnership with the African Union Development Agency (AUDA-NEPAD) and with the support of Wellcome and FCDO. The programme awarded multimillion dollar grants to 11 consortia headed by world class senior researchers from 8 African countries and spanning 54 lead and partner institutions from across West, East and Southern Africa. Some DELTAS Africa I's notable achievements include strengthened research infrastructure, and training and mentorship of 2,011 undergraduate, master's, PhD, postdoctoral and senior researchers. Additionally, during the pandemic all the 11 DELTAS Africa consortia supported an Africa-wide response to the COVID-19 pandemic, influencing research and policy across the continent. Importantly, the scientific findings from the DELTAS Africa consortia across topics had an impact on the continent and globally.

DELTAS Africa I consortia

- Afrique ONE-ASPIRE – One health
 - SSACAB – Biostatistics
 - AMARI – Mental health
 - CARTA+ – Public & population health
 - DELGEME – Genomics & bioinformatics
 - IDeAL – Multi disciplinary and multi disease
- MARCAD – Malaria
 - MUII Plus – Infectious diseases
 - WACCBIP – Malaria
 - SANTHE – HIV/TB
 - THRiVE-2 – Health research capacity and multi disease

DELTAS Africa Impact



Scientific Quality

DELTAS Africa I produced 1,451 peer reviewed publications; 558 new grants worth \$276 Million; and 339 prizes and recognition worth \$2.8 M



Scientific Training

2,011 undergraduate, master's, PhD and postdoctoral fellows trained at a ratio of 53:47 male to female ratio with 25 of those recruited from diaspora



Scientific Citizenship

1,127 research networks and collaborations established, 427 community engagement activities, 231 policy engagement activities all reaching more than 287K people.



Research Management and Environment

refurbished or new labs and 21 policies that influenced research methods and practices



DELTA Africa II

Refinements to the second phase of DELTAS Africa were based on broad-base consultations which resulted in a wider scope of actors and research questions.

DELTA Africa II aims to balance research excellence and equity by encouraging collaborative networks between researchers and institutions that are relatively strong and well performing and those that are not. This enables capacity building, institutional strengthening and improvement of research environments and productivity that spreads excellence across the continent. DELTA Africa II is wholly pan-African as opposed to DELTA Africa I which focused on sub-Saharan Africa. DELTA Africa II is enabled by a USD70 Million in-

vestment from Wellcome and the FCDO, extending the programme for an additional four years from 2023-2027.

DELTA Africa II continues to foster intra-Africa collaboration, improve research environments and train researchers to conduct relevant, locally contextualised studies that advance our knowledge on key research and development priority gaps including: discovery, translational, implementation and operational sciences for infectious diseases, such as malaria, HIV and tuberculosis; social sciences and humanities; and implementation research; health systems research; and public health research.

DELTAS Africa II: GLOBAL Networks



\$70M

Amount
in millions
invested in
DELTAS Africa II
over 4 years



Country	Consortium Name
Cote d'Ivoire	Afrique One REACH
Ghana	WACCBIP-DELTAS II
Ethiopia	REACCT-CAN
Kenya	ALMA
Kenya	CARTA2025
Kenya	IDeAL
Mali	DELGEME Plus
Senegal	MARCAD Plus
South Africa	CASCADE
South Africa	CzASE
South Africa	SANTHE
South Africa	SSACAB
Tunisia	ALC
Zimbabwe	AMARI II

Summary information

Lead institutions (all in Africa)	14
Total number partner institutions	75
Partners based in Africa	57
Partners other geographies	18
Total number of host/partner countries	36
African countries	29
Countries other geographies	7
\$70 Million Invested in DELTAS Africa II over 4 years	
6 women directors	



Programmes funded under DELTAS Africa II:

CONSORTIA	Country	SCIENCE FOCUS AREAS
African Leadership for Measuring Brain Health in Children and Adolescents (ALMA)	Kenya	Advancing the science of brain health in African children through exploring mechanisms of brain development, measurement of brain function and behaviour, and interventions to promote child development.
African Leishmaniasis Consortium (ALC)	Tunisia	Translate advances in the sciences, including genomics, to support diagnosis, patient management and vector control, and to engage strategic research and think tanks to accelerate use of evidence to contribute policy for control and elimination of leishmaniasis.
Africa Mental Health Initiative (AMARI II)	Zimbabwe	Address research questions/interventions that reduce the treatment gap for mental health disorders with special focus on cross-cutting themes that include youth, gender, ethics, multi-morbidity, suicidal behaviour, COVID19, complex intervention mental health systems and public engagement, among others.
Cascading Climate and Health Risks in Cities (CASCADE)	South Africa	Study Africa's response to urban climate and health risks through innovative research across natural and social sciences (multidisciplinary approach to advance the continent's response to urban climate and health risks).
Consortium for Advanced Research Training in Africa 2021-2025 (CARTA2025)	Kenya	Expand research hubs that will address the complexity of health issues, including the social, environmental, economic and political determinants of health and health systems with a multidisciplinary perspective.
Critical Zones Africa South and East (CzASE)	South Africa	Understand cascading societal challenges and risks arising from changes in the critical zones and propose remediations with attention to remediating local conditions of habitability.
Developing Excellence in Leadership and Genomics Training for Malaria Elimination and AntiMicrobial Resistance control in Africa (DELGEME Plus)	Mali	Apply genomics, epidemiology and informatics to understand the dynamics of transmission and the mechanisms and response to chemotherapeutic interventions focusing on malaria, TB and HIV/AIDS, and bacterial infections in animal health and production.

Programmes funded under DELTAS Africa II:

Initiative to Develop African Research Leaders (IDeAL)	Kenya	Investigate causes of childhood and adult morbidity and mortality in Africa. The multi-disciplinary, multi-disease consortium focuses on exploitation of the data generated by its consortium partners over time.
Malaria Research Capacity Development Consortium (MARCAD Plus)	Senegal	Focus on three complementary approaches for malaria control: chemoprevention, vector control and surveillance, with special attention to potential synergies for neglected tropical disease control within the context of climate change and the Covid-19 pandemic, as they impact national control programmes.
Research Excellence for African Challenges in Health (Afrique One-REACH)	Côte d'Ivoire	Use existing animal, human and environmental data for modelling to inform public health and to reinforce the online One Health curricula in schools of public health, veterinary science, wildlife, ecology, social anthropology and economics.
Research and Excellence in African Capacity to Control and Treat CANcer (REACT-CAN)	Ethiopia	Strengthen African institutions and networks in cancer research to generate collaborative Africa-led, African-relevant multidisciplinary findings in oncology and cancer sciences for Africa.
Sub-Saharan African Network for TB/HIV Research Excellence (SANTHE 2.0)	South Africa	A multidisciplinary consortium of Africa-led research and capacity strengthening, leading locally relevant discovery and policy-impacting science in Africa and globally with a focus on the challenges linked to HIV and TB, associated morbidities and emerging pathogens including SARS-CoV-2.
Sub-Saharan Africa Consortium for Advanced Biostatistics (SSACAB II)	South Africa	Build biostatistical research excellence in sub-Saharan Africa through policy development to improve population health and contribute relevant policy advice in communicable and noncommunicable disease, such as HIV, TB, malaria and COVID-19, and mental health and Maternal, Neonatal and Child Health.
West African Centre for Cell Biology of Infectious Pathogens (WACCBIP – DELTAS II)	Ghana	Determine the molecular basis to infectious diseases and; identifying genetic markers to inform molecular diagnostic approaches for NCDs.

Developing Excellence in Leadership, Training, and Science in Africa (DELTAS AFRICA)

Developing Africa's Future Generation of Science Leaders



Riverside Drive, Chiromo, Nairobi, Kenya
E-Mail: info@scienceforafrica.foundation
T: +254 705 199 199
www.scienceforafrica.foundation



ScienceforAfricaFoundation