Africa-Europe Clusters of Research Excellence





A new strategy for Africa-Europe science collaboration

Africa's share of global science production is clearly insufficient.

It currently stands at just under 8 per cent, which represents considerable growth over the past 20 years, but there is still considerable potential, particularly as over 45% of Africa's science production is concentrated in South Africa and Egypt (Sooryamoorthy 2022).

Only four universities (all in South Africa) are in the global top 500 (<u>Times Higher</u>, 2024) – a figure all the more striking in a continent of over 1.3 billion people, whose population is expected to almost double by 2050.

A new equitable inclusion of Africa in global science production is crucial, to:

- Address the SDGs. The Intergovernmental Panel on Climate Change (IPCC) has underlined that "indigenous and local knowledge" is crucial in fighting climate change. But at present, 3.8 per cent of global funding for climate research is spent on Africa, and of this small amount, 78 per cent goes to researchers outside the continent (Ziervogel et al. 2022).
- Enable major scientific breakthroughs. For instance, even though Africa is home to the greatest genomic variety in the world, only 2% of genomes recorded are from Africa (Le Monde, 30/04/2023). Working with African populations and scientists can dramatically improve global health.
- More effective science funding. Currently, development assistance often reflects donor rather than recipient priorities. In health research, for instance, 67% of deaths in low- and middle-income countries are attributable to Non-Communicable Diseases (NCDs) but they attract only 1% of total health funding. Meanwhile tuberculosis, malaria and HIV attract 39% of total funding, with only 7% of attributable deaths.

AU-EU Innovation Agenda

In 2022, the European Union – African Union summit recognised the importance of science in the pursuit of the two Union's key strategic objectives: the AU's aspiration to become a knowledge society articulated in its Agenda 2063, and the EU's aims to address global health, climate change, and technological change through its Global Gateway.

To that end, they endorsed the AU-EU Innovation Agenda, a pioneering document that articulates the goal of science collaboration in four areas agreed between African and European governments:

- 1. Public Health;
- 2. Green Transition;
- 3. Innovation and Technology;
- 4. Capacities for Science.

The Agenda also states that joint research and innovation should be distinguished by its equity, brain circulation and capacity-building, and a long-term approach.





Africa-Europe Clusters of Research Excellence (CORE)

The need for long-term and equitable research collaboration that builds up Africa's science capacity echoes an urgent call from the research sector.

From 2020, the African Research Universities Alliance (ARUA) that brings together 18 of Africa's leading Universities, and The Guild of European Research-Intensive Universities (with 21 Universities) have articulated the demand for new, long-term and equitable research partnerships.

This was echoed in 2021 by joint call demanding a significant boost to Africa's science capacities through long-term collaboration and investment. Most recently, organisations representing around 2,000 universities and research institutions across Europe, Africa and beyond have called upon the EU to put the AU-EU Innovation Agenda into action, through a new integrated funding instrument fostering research excellence through collaboration and investment in research infrastructure.

Against this background, ARUA and The Guild have created twenty Clusters of Research Excellence (CoRE) in Summer 2023.

These address key societal and scientific challenges framed by the AU-EU Innovation Agenda, underwritten by:

Addressing Sustainable Development Goals

The Clusters bring together some of the best researchers from both continents. All are committed to the change science can bring to society.

Inclusion

Whilst the Clusters have been inspired by ARUA and The Guild, our Clusters bring together researchers from 160 institutions across 60 countries. Participation thus far exceeds the ARUA and Guild networks.

Scientific Excellence

All Clusters bring together some of the leading researchers in their fields who push the frontiers of research and overcome knowledge challenges identified in close partnership.

Brain Circulation and Capacity-Building

Each Cluster is committed to developing new, inclusive models of postgraduate education. They provide a unique frame for much-needed long-term research infrastructure investment in Africa.

Equity

All our Clusters remain committed to achieving equity in a deeply unequal world: in the way research is carried out, credit is received, and funding allocated.

Long-Term focus

ARUA and The Guild's university leaderships are deeply involved in the Clusters by supporting the bottom-up articulation of research priorities and by guaranteeing long-term plans with institutional support.





Towards Equity in Global Science

The Africa-Europe CoRE address the needs of society in Africa and Europe, carried by a new spirit of partnership and collaboration.

They invite researchers in universities and research institutions in the Global North to join forces with the Global South, including policy-makers, business, and civil society as appropriate.

The Clusters also present an invitation to policy-makers and funders to develop new funding models that are more effective at addressing the real needs of society, and that bring together perspectives across the divides of an unequal world.

To this end, we need:

- Funders that support our ambitions and goals, for instance the creation of innovative doctoral schools that strengthen the research capacities of Africa while providing graduates with excellent global networks and internationally recognised research output.
- **Funding for innovative, groundbreaking research practices**, including researchers in low-income countries, to ensure the full engagement of all excellent researchers irrespective of where in Africa they are.
- **Investment in research infrastructures**, sustained by the expertise and commitment of the Africa-Europe Clusters of Research Excellence, open to all researchers (within and beyond the Clusters) who need them
- Support for the engagement of society, business and policy-makers in Africa and Europe, to enable our ambitions of addressing our commonly held challenges for the benefit of society.

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- Ziervogel, Gina, Chris Lennard, Guy Midgley, Mark New, Nicholas P. Simpson, Christopher H. Trisos, and Luckson Zvobgo. 2022. 'Climate Change in South Africa: Risks and Opportunities for Climate-Resilient Development in the IPCC Sixth Assessment WGII Report'. South African Journal of Science 118 (9/10). https://doi.org/10.17159/sajs.2022/14492.





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Green Transition

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 <u>Mitigation</u>
- Renewable Energy
- Sustainable Water and Land Resource Management for Human Well-being
- <u>Water Resources Management</u> for a Sustainable and Just Future

Innovation and Technology

- Artificial Intelligence, Data Science, and Theoretical and Computational Thinking
- Sustainable Food Systems
- <u>Creative Economies: Cultures,</u> <u>Innovation and Sustainability</u>
- Engineering for the Future

Capacities for Science

- Politics of Sustainable Development
- <u>Building Capacities for</u> Interdisciplinary Peace Research
- Collaborative Excellence for Equity: Promoting Impactful Research and Education on Inequalities









Public Health

The following set of clusters are grouped into a priority area that is aligned with the AU-EU Innovation Agenda





Translational Research in Infection, Immunity, and Inflammation

Rapid urbanisation and lifestyle changes in Sub-Saharan Africa (SSA) are transforming its disease epidemiology. The region is facing a double burden of disease: a rising prevalence of non-communicable diseases while the burden of infectious diseases (ID) and antimicrobial resistance remains high.

The host immune system plays a pivotal role in these conditions and understanding the interactions between pathogens and host immunity is critical for effective treatments and prevention. However, populations in SSA are underrepresented in immunity and ID research, despite significant genetic, epidemiological and contextual differences.

In response, this CoRE will establish a network of institutions with expertise in infection, immunity and inflammatory response; aiming to promote capacity exchange programs that boost training and research efforts, knowledge, and technology transfer among institutions and equip the region with the necessary skills to acquire evidence that informs policies to help address pressing public health challenges in the coming years.

Co-Leads		
ARUA	The Guild	
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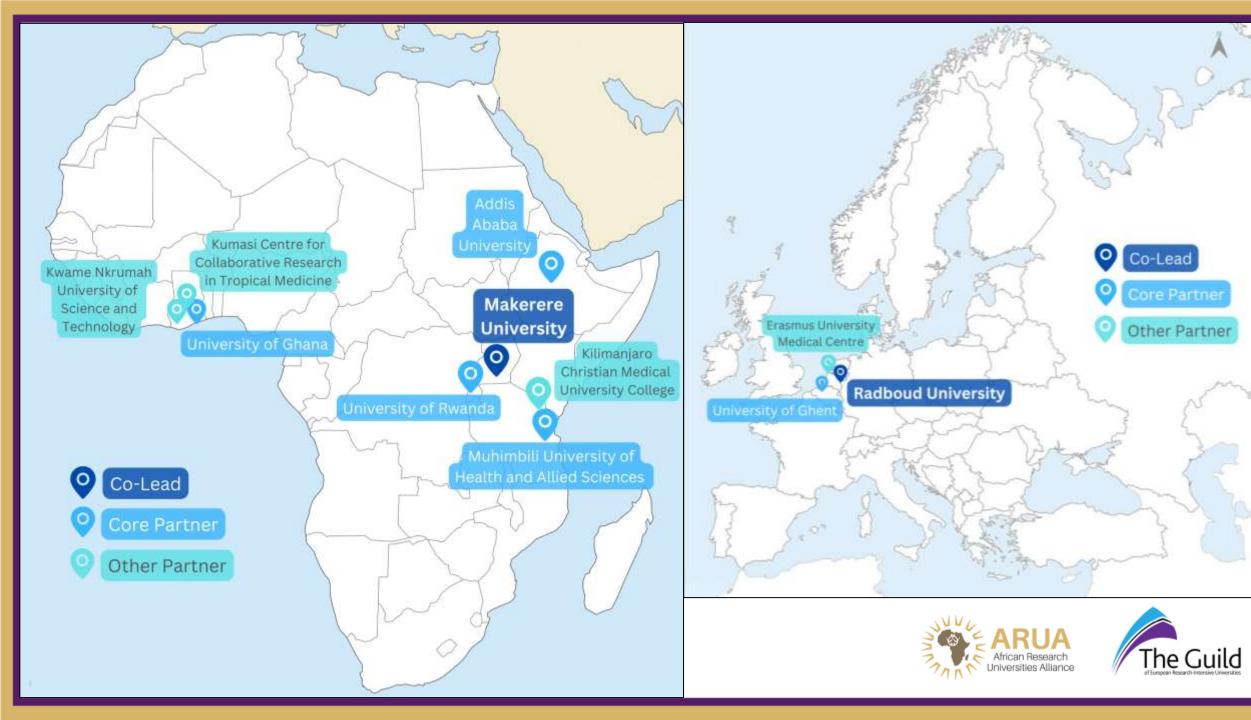
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Health and Migration

Migration – involving diverse movements of people within and between countries and regions, including refugees – is a key determinant of health but evidence-informed policy and programme responses to address migration and health (MH) remain limited.

In line with The Guild Position paper on health research (2022) and the AU-EU Innovation Agenda, Health and Migration CoRE addresses the key scientific challenge of MH across the AU-EU migration corridor. This corridor is associated with multiple health concerns determined by a range of structural and social factors that are experienced differently by diverse migrant groups and the communities through which they move, live and work.

The Health and Migration CoRE will develop collaborative research to generate evidence-informed, cross-country policy approaches to support good health. The focus will be on migrants and migration-impacted communities along the AU-EU migration corridor, as well as efforts towards Universal Health Coverage.

ARUA The Guild University of Witwatersrand, South Africa Assoc. Prof. Jo Vearey - Director ARUA CoE on Migration & Mobility and the African Centre for Migration & Society Dr Carren Ginsburg - Senior Researcher Medical Research Council (MRC)/Wits Rural Public Health and Health Transitions Research Unit (Agincourt) The Guild Uppsala University, Sweden Director of the World Health Organisation Collaborating Centre on Migration and Health Data and Evidence

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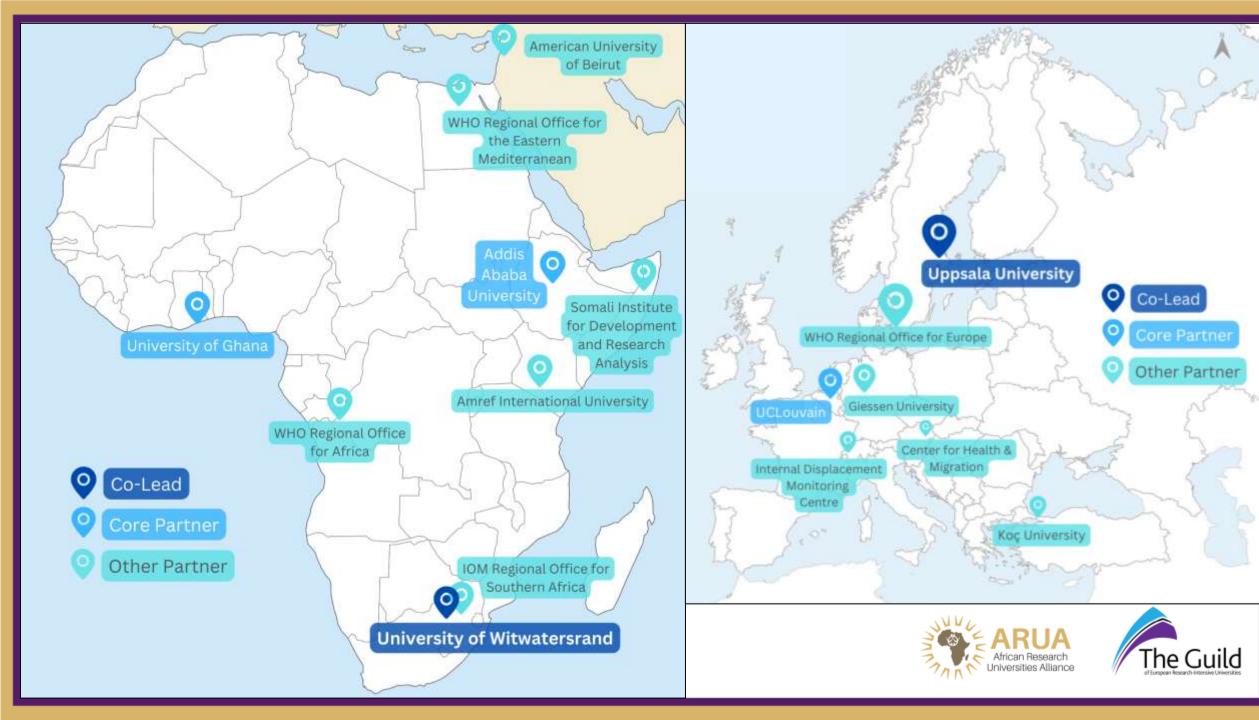
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Health, Gender and Sexualities

The Health, Gender, and Sexualities CoRE aims to generate ground-breaking interdisciplinary research to address health disparities among gender and sexual minority populations; and integrate public health and social sciences to understand the complex interplay of social, cultural, and healthcare-related factors affecting health outcomes and access to care.

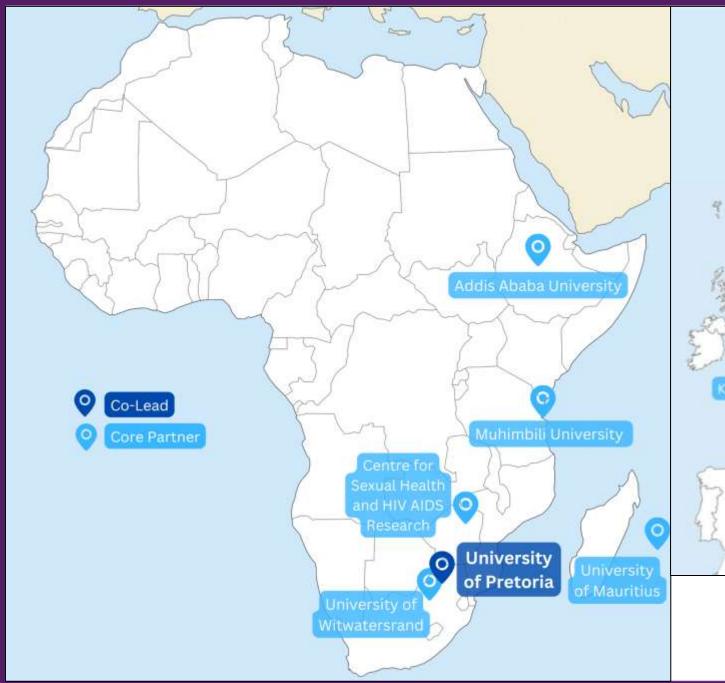
Over a 10-year period, the CoRE envisions conducting innovative research, developing interdisciplinary training, fostering international collaboration, and influencing evidence-based policy. Milestones during that period include initiating collaborative research projects, establishing a master's programme, facilitating capacity-building through a research school for doctoral students, and organising research conferences.

To promote equitable collaboration, the cluster emphasises the following priorities fostering inclusive decision-making processes, engaging in collective capacity-building, ensuring transparent communication, demonstrating cultural sensitivity, and actively working towards the decolonisation of research.

By integrating social science and public health perspectives, methods, and theories, the cluster aims to generate comprehensive insights and innovative solutions; and strengthen research capacities, foster cross-disciplinary dialogue, and address health disparities faced by gender and sexual minority populations.













Multimorbidity

Non-communicable diseases, the leading cause of death worldwide, usually co-exist with other chronic health conditions in the same individual giving rise to multimorbidity. There is lack of data on the burden or clustering of multimorbidity at the population level, or context-specific evidence to guide integrated, optimal prevention and management of multimorbidity in sub-Saharan Africa (SSA).

The Multimorbidity CoRE will leverage digital technology and artificial intelligence to address key gaps in quantification, clustering, trend prediction and evaluation of new interventions to improve diagnostics, safety, and effectiveness of interventions for prevention, treatment, and control of multimorbidity in SSA.

To ensure sustainability, this CoRE will collaborate with governments, industry, and partner agencies to enhance training of the next generation of health care practitioners across the spectrum of patient care for multimorbidity in all partner countries. The CoRE will explore precision medicine approaches as a next-step strategy towards addressing multimorbidity in SSA.

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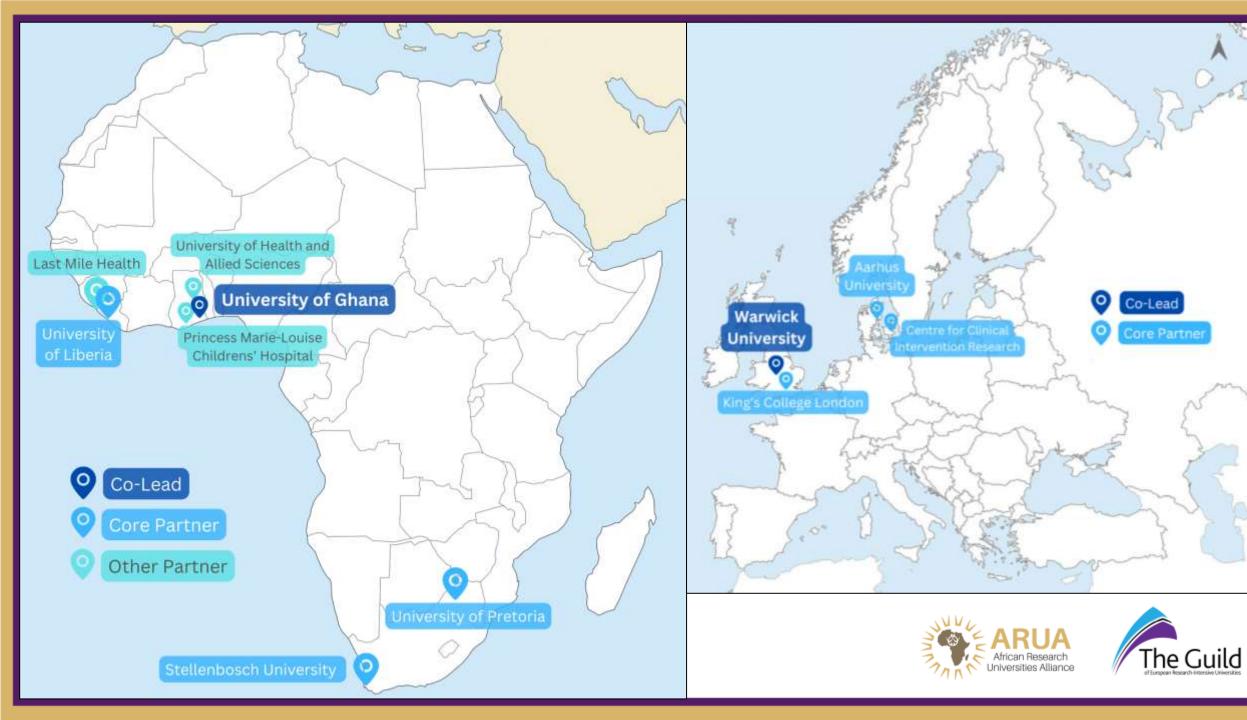
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Preparedness and Response to Pandemics and Shocks

Emerging and re-emerging global health threats such as severe acute respiratory syndrome (SARS), swine flu (H1N1), ZIKA, monkeypox, yellow fever, and COVID-19 have demonstrated that no system in any country is invulnerable to unexpected shocks. Moreover, there are persistent knowledge and capacity gaps regarding effective strategies for prevention, detection, response, and recovery from public health emergencies across health and especially the non-health sectors.

The similarities and differences in vulnerabilities and capacities across the African Union (AU) and European Union (EU) offer a great opportunity for learning and enhancing resilience across both continents.

This CoRE for Preparedness and Response to Pandemics and Shocks is uniquely positioned to harness lessons from COVID-19 and other outbreaks and shocks to ensure a multi-sectoral system resilience that addresses critical sustainable development drivers to better respond to pandemics and shocks. It will leverage technologies, innovations, expertise, and resources in the EU and AU.

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Genomics for Health in Africa

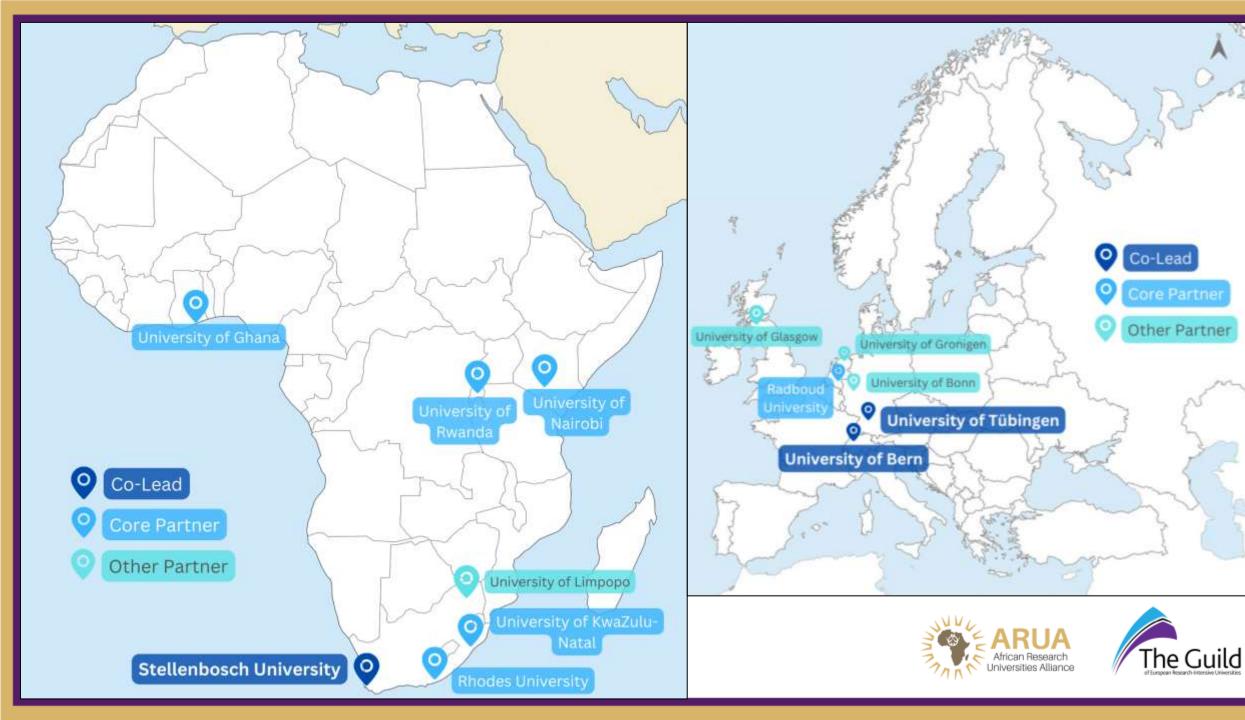
The CoRE for Genomics for Health in Africa aims to leverage the potential of genomics to revolutionise healthcare in Africa. Genomics can provide a better understanding of rare diseases, cancers, and infections, which can lead to more effective treatments.

Combined with biochemical, biophysical, and structural analyses, genomics serves as a powerful tool for precision medicine and personalised treatment approaches. However, despite its enormous value, genomics is under-utilised in Africa due to insufficient infrastructure, resources, and scientific capacity.

This CoRE will build capacity for genomics-based diagnostics of rare diseases, cancers, and infections, coupled to investigating protein structure-function relationships and supporting optimal drug treatment and vaccine development. It will provide a unique and open platform to the African research community, to exploit the full potential of genomics coupled to protein structure function studies, as a fundamental tool to revolutionise public healthcare for both infectious and rare non-communicable diseases.







Food Environment Actions for the Promotion of Health

The triple burden of malnutrition is a critical global health challenge driven by intersecting processes, including urbanisation, food systems transformation and socio-economic inequalities.

This CoRE comprises three core ARUA institutions, two core institutions from The Guild and other public, private and nongovernmental organisation from both Africa and Europe. It seeks to advance the study of food environments through cutting-edge research, develop the next generation of scholars through an equitable capacity-building programme with support for early career researchers and engage in collaborative research, education and policy-related activities to enhance food environments.

The disciplinary and sectoral diversity represented by this CoRE supports local research and engagement, while at the same time developing collaborative engagement to understand food environment drivers and their implications for planetary and human health.

CO-Leads ARUA The Guild University of Cape Town, South Africa Jane Battersby – Senior Lecturer, Dept. of Lecturer in Global Health, Unit of Global Health and

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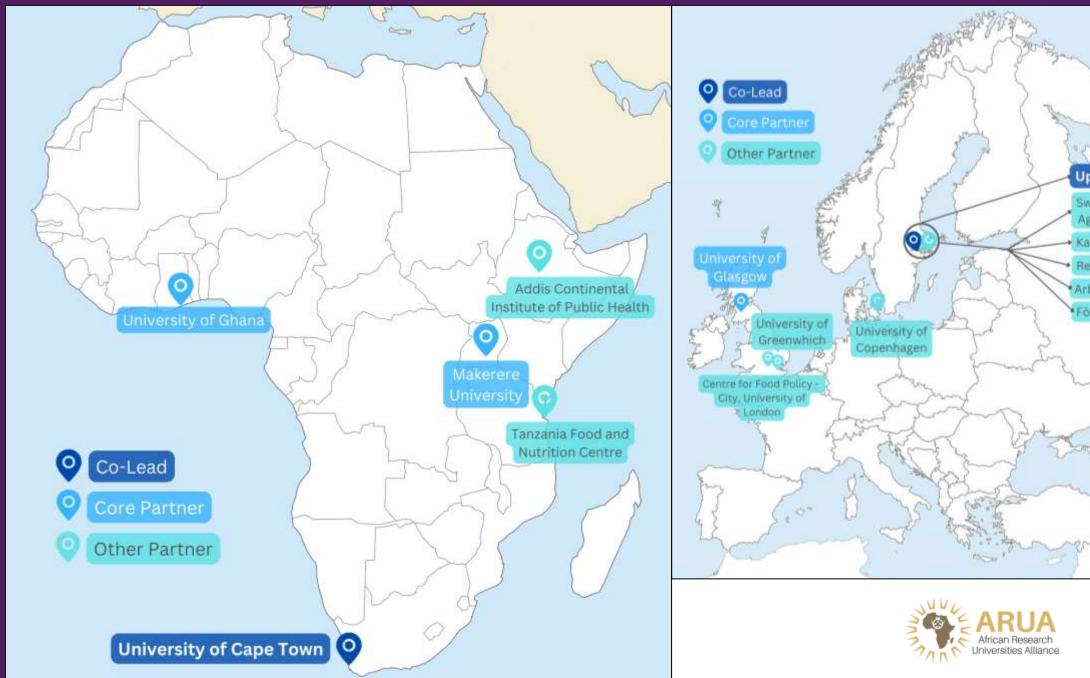
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Eva-Charlotte Ekström - Professor in Global Nutrition, Unit of Global Health and Migration, Dept.

of Women's and Children's Health











Advanced Infectious Diseases Research and Training

This CoRE will tackle the next frontiers in infectious disease (ID) research in an equitable partnership. Their overarching goal is to understand the fundamental biology of pathogens and of infections, and to inform drug and intervention discovery and development.

ID pathogens have divergent biology and complex interactions with their host and the environment. Meaningful progress towards disease control necessitates an integrated and multidimensional understanding that can only be achieved in a partnership of complementary and synergistic expertise that our Cluster embodies.

Further, the under-representation of researchers based in Africa in the field's global leadership, and their limited access to cutting-edge technologies, form major barriers for significant leaps in progress as many IDs are endemic in Africa.

This CoRE will overturn this damaging inequality, through an equitable and open revolving door model for training in existing skills, and through simultaneously establishing novel technologies in partnership between ATG scientists.

Co-Leads

ARUA University of Ghana, Ghana Gordon A. Awandare – Director of West African Centre for Cell Biology of Infectious Pathogens Tropical Medicine The Guild University of Tübingen, Germany Steffen Borrmann - Professor, Institute for Tropical Medicine

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Andy Waters - Head of School of Infection and Immunity
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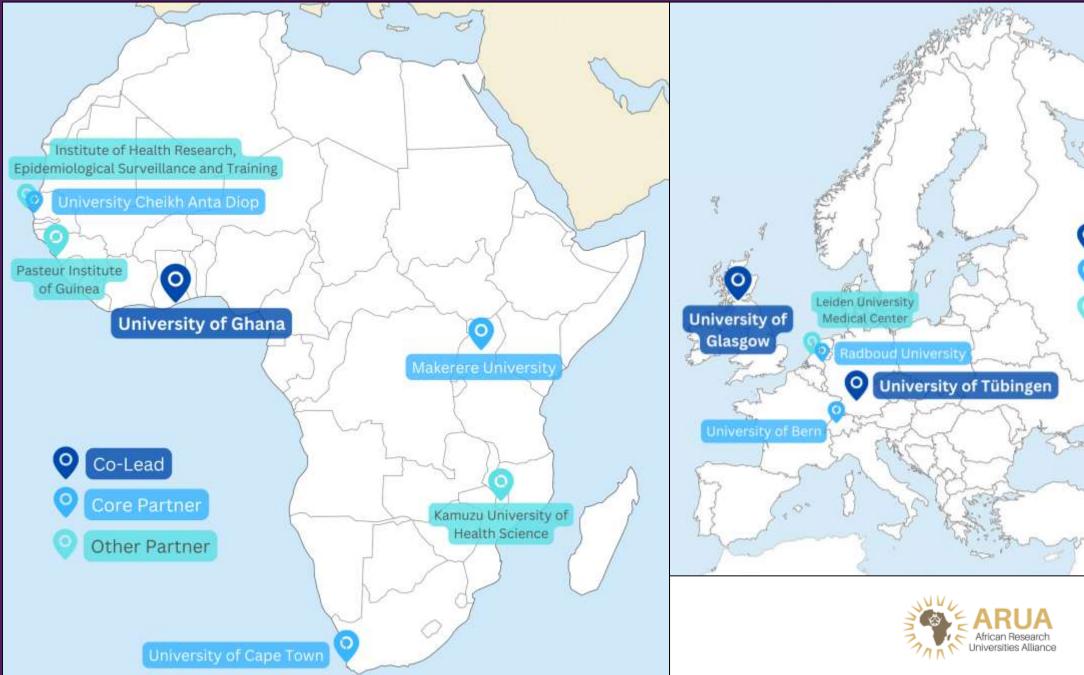
Prof. Dr. Teun Bousema - Professor of Epidemiology of Tropical Infectious Diseases **Dr. Taco Kooij** - Ass. Prof. of Molecular Parasitology

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Non-Communicable Diseases and Multimorbidity

While Europe is in the post-epidemiological transition phase, with chronic diseases still the leading cause of death, but with slowly decreasing incidence and mortality rates, Africa is still in the epidemiological transition phase with chronic diseases becoming the leading cause of death.

The CoRE in Non-Communicable Diseases and Multimorbidity aims to address the growing burden of non-communicable diseases (NCDs) and their co-morbidities in Africa. The Cluster's mission is to develop innovative and context-specific solutions for the study, prevention and management of NCDs and their co-morbidities in low- and middle-income countries. The Cluster will focus on building research capacity, conducting cutting-edge research, and promoting knowledge translation and dissemination, as well as mobility and exchanges. The Cluster's approach is multi-disciplinary, collaborative, and participatory, with a focus on equitable partnerships and community engagement. Further, Africa provides an opportunity for the global scientific community in understanding the complex NCD mechanisms as well as getting solutions to the rising NCD problem in the region.

The Cluster's goal is to improve the health and well-being of populations in Africa by reducing the burden of NCDs and comorbidities across the lifespan and to contribute to the attainment of the Sustainable Development Goals.

Co-Leads

ARUA	The Guild	
University of Nairobi, Kenya Frederick Bukachi - Director of ARUA Centre of Excellence for NCDs	University of Glasgow, UK Pasquale Maffia – Prof. of Cardiovascular Immunology; International Lead School of Infection & Immunity	
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Green Transition

The following set of clusters are grouped into a priority area that is aligned with the AU-EU Innovation Agenda





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University of Cape Town, South Africa Dr. Petra Holden // Dr. Jasper Slingsby Prof. Gina Zier Vogel // Dr. Anna Taylor Prof. Adam West // Prof. Lindsey Gilson Dr. Chris Trisos // Dr. Vernon Visser Dr. Andreas Meyer // Dr. Gylnis Humphrey	Prof. Kanshu Rajuratnam Prof. Tulio de Oliveira // Prof. Nox Makunga Dr. Lokotola Lueme // Prof. Pedro Monteiro Prof. S vd Heyden // Prof. S Clusella-Trullas Dr. Andrew Watson // Dr. Heath Beckett	University of Ghana, Ghana Dr. Kwasi Appeaning Addo Prof. Christoper Gordon Dr. Adelina Maria Mensah

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Dr. Laura S. Leo // Dr. Paolo Ruggieri // Dr. Salvatore Pascale Prof. Igor Diemberger // Prof. Alessandra Scagliarini Prof. Valerio Carelli

Rhodes University, South Africa

Prof. Heila Lotz-Sisitka // Prof. Brad Ripley
Prof. Susanne Vetter // Prof. Nelson Odume
Dr. Chika Nnadozie

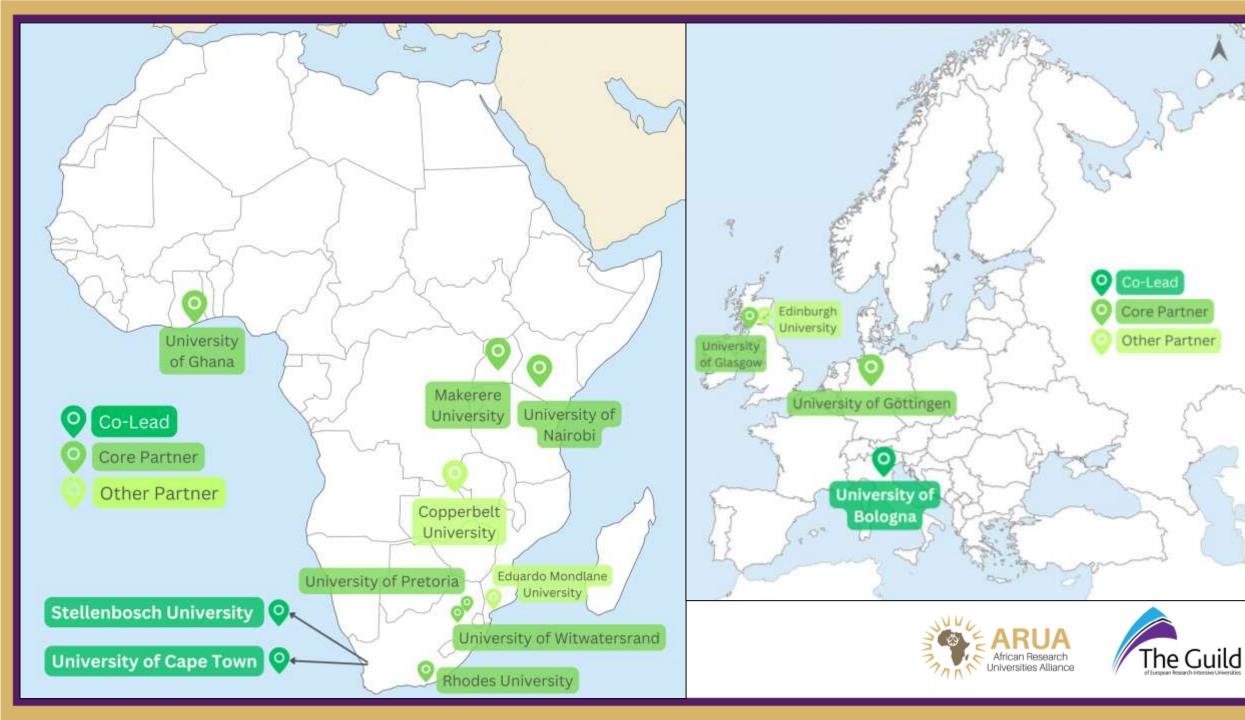
Nature-based Solutions for Climate Change Adaptation and Mitigation

As recognised in the IPCC AR6 report, Africa and Europe are highly vulnerable to climate variability and change, with consequences for heat-related morbidity and mortality, biodiversity loss, reduced food production, and water scarcity. To reduce risks associated with climate change and to safeguard economic development, transdisciplinary research and adaptation measures based on nature-based solutions are urgently needed.

Here, through the Africa-Europe Cluster of Research Excellence (CoRE) on Nature-based Solutions for Climate Change Adaptation and Mitigation, we propose to build a multi- and transdisciplinary research capacity and network between European and African academic and research institutions with the following long-term ambitious objectives: (1) to establish a climate service hub for Africa, (2) to develop a NbS innovation hub, (3) to implement innovative NbS adaptation and mitigation measures, and (4) to establish a training infrastructure promoting the creation of doctoral networks and educational activities to promote cultural and educational exchanges between European and African universities.







Renewable Energy

This CoRE is intended to facilitate a long-term sustainable transition toward a sustainable energy system. This global challenge will only be solved by a collaborative and multidisciplinary approach, which this Cluster actively pursues.

The three pillars around which the Cluster is built, are technology development, equitable societal transition, and sustainable education and training. The Cluster will consist of 6 CoRE members: 3 ARUA Universities (Stellenbosch University as African lead and host of the ARUA CoE in Energy, and the Universities of Ghana and Makerere) and 3 Guild Universities (Ghent University as European lead, and Universities of Oslo and Groningen). Non-CoRE members will participate to increase impact, when feasible.

The CoRE will be able to mobilise quickly and have a significant impact due to substantial support from the member institutions, the significant existing research infrastructure and the widespread networks of the members.

Co-Leads		
ARUA		The Guild
Stellenbosch University, South		University of Ghent, Belgium Michel de Paepe - Promotor, spokesperson for EnerGhentIC
Core Partners		
Makerere University,	<u>L</u>	Iniversity of Ghana, Ghana

<u>University of</u> Groningen, The Netherlands

Uganda

Prof John Mango Magero, et al. -

Deputy Principal, College of

Natural Sciences

Prof. Lorenzo Squintani - Director of the Wubbo Ockels School for Energy and Climate

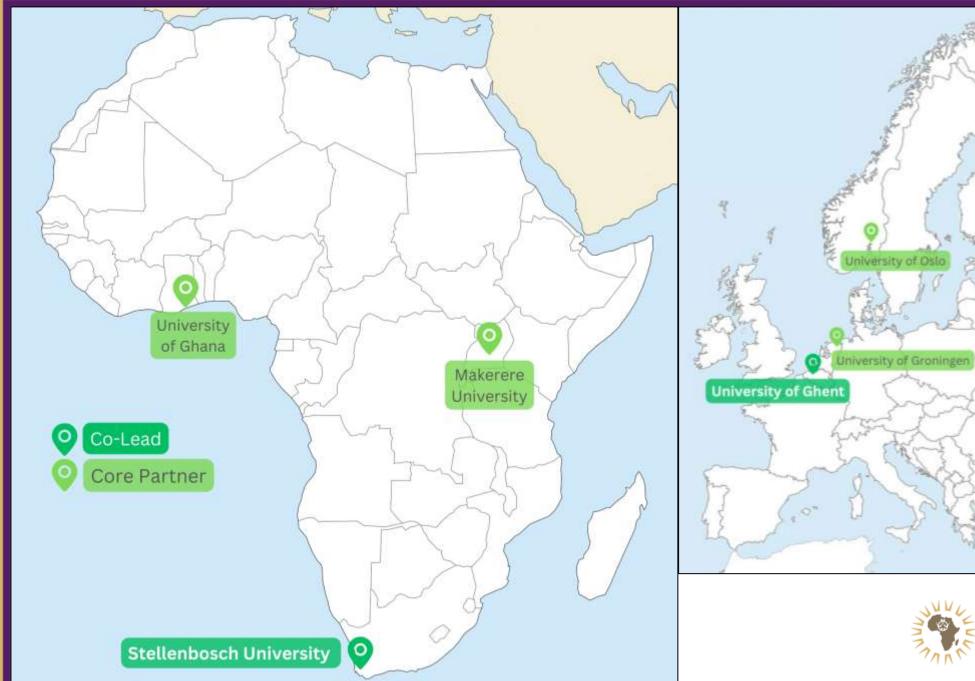
Prof. David Dodoo-Arhin et al. – Director of the Institute of Applied Science and Technology & Head, Banga Africa Energy and Hybrid Materials Research Laboratory

University of Oslo, Norway

Prof. Øystein Prytz, et al. - Centre leader Centre for Materials Science and Nanotechnology, Professor at the Department of Physics













Sustainable Water and Land Resource Management for Human Well-Being

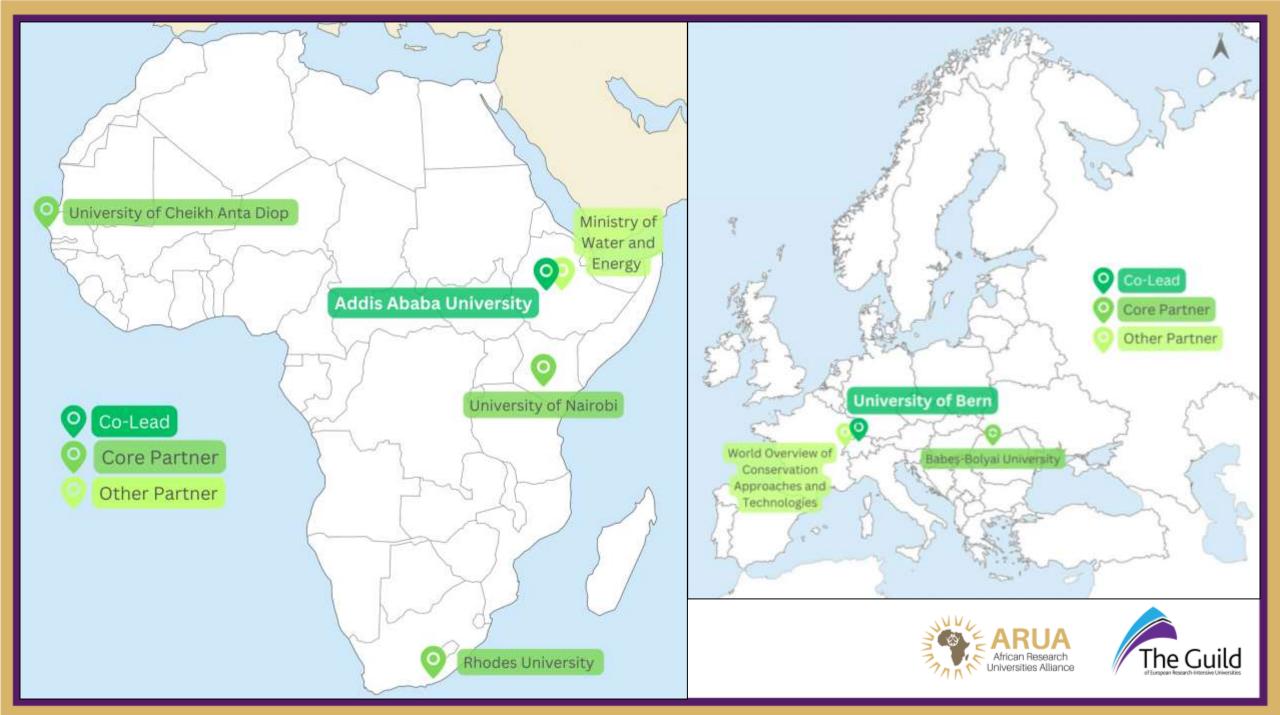
Land degradation, associated conflicts, and climate change are global development challenges that particularly affect African countries. Progress in combating land degradation is lagging expectations and was further slowed by the Covid-19 pandemic. This calls for urgent responses and sustainable actions that go beyond business-as-usual practices.

The overarching goal of this CoRE is to link key research partners in sustainable water and land resource management with partners from policy and practice. Together, these teams would address land degradation to foster sustainable development, conflict resolution, and human well-being. Taking care of land, water – and, in particular, the long-term health of ecosystems and landscapes – is fundamental to ensuring food security, to building resilience to climate change and pandemics, and to supporting sustainable livelihoods. This CoRE contributes mainly to the "Green Transition" priority area, and partly to "Innovation and Technology" and "Capacities for Science".

Co-Leads		
ARUA	The Guild	
Addis Ababa University, Ethiopia	University of Bern, Switzerland	
Gete Zeleke - Director Water and Land Resource Centre (WLRC)	Prof. Dr. Thomas Breu - Director CDE (Centre for Development and Environment)	
Core Partners		
Rhodes University, South Africa	University of Nairobi, Kenya	
Dr. Jane Tanner - Head of Hydrology	Dr. Boniface Wambua, et al. - Chairman of Department of Geography, Population and Environmental Studies	
Babeş-Bolyai University, Romania	Cheikh Anta Diop University, Senegal	
Prof. Dr. Sergiu Mișcoiu - Director of the Centre for African Studies	Dr. Mamadou Bouna Timéra - Assesseur de la Faculté des Lettres et Sciences Humaines	







ARUA

The Guild

Rhodes University, South Africa

University of Ljubljana, Slovenia

Dr. Jane Tanner et al. - Director ARUA Water CoE

Prof. Barbara Hribar Lee - Professor of Physical Chemistry

Core Partners

Addis Ababa University, Ethiopia

University of Ibadan, Nigeria

Tadesse Fetahi, et al. - Research Director and coordinator of a joint MSc Program Aquatic Ecosystem and Environmental Management (AEEM)

Prof. Ayodele Samuel Jegede - Medical Sociology/Anthropology and Bioethics, Dept. of Sociology, Faculty of the Social Sciences

University of Rwanda, Rwanda

Makerere University, Uganda

Dr. Venuste Nsengimana - Deputy Director of the Center of Excellence in Biodiversity and Natural Resource Management (CoEB)

Assoc. Prof. George Nyakairu, et al. -Department of Chemistry, College of Natural Science

Cheikh Anta Diop University, Senegal

University of Dar Es Salaam, Tanzania

Prof. Serigne Faye - Head of the Water Doctoral School EDEQUE

Dr. Augustina Alexander, et al. - Department of Water Resources Engineering

University of Lagos, Nigeria

University of Bern, Switzerland

Prof Ezechiel OLonge, et al. - Department of Civil and Environmental Engineering

Prof. Dr. Thomas Breu - Director CDE (Centre for Development and Environment)

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Uppsala University, Sweden

Dr. Stjepan Picek

Dr. Martin Mickelsson

University of Cape Town, South Africa

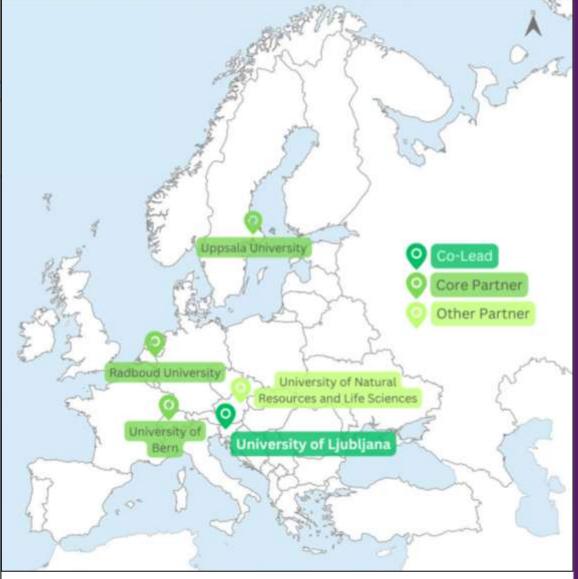
Assoc. Prof. Kirsty Carden, et al.

Water Resources Management for a Sustainable and Just Future

The global landscape for management of our water resources is changing. Increasing demand, industrialisation, climate change and increasing entwining of social and ecological systems means traditional water resource management (WRM) is not meeting the challenges of our changing environments. Furthermore, disconnects between science and practice, means innovative research and technological advances often don't translate to practical WRM.

Decisions about future WRM are therefore highly uncertain, increasing risks and vulnerability for people and environment. Research is needed to consider existing governance and policy gaps, challenges with conventional approaches to WRM, technological innovations, peoples' relations regarding water, and future potential water related risks. Future WRM needs to be transformative in order to become sustainable and have relevance for Africa and Europe. This Africa-Europe Cluster of Research Excellence (CoRE) focuses on exploring different solutions, learning opportunities/exchanges and pathways to innovation, policy and investment in WRM in Africa and Europe, and solutions that build long-term meaningful capacity within WRM.













Innovation & Technology

The following set of clusters are grouped into a priority area that is aligned with the AU-EU Innovation Agenda





Artificial Intelligence, Data Science, and Theoretical and Computational Thinking

Artificial Intelligence (AI) methods have become powerful tools for addressing societal challenges in almost all areas of life. This development is fuelled by improved connectivity, increased computational power, and data access. Applications of AI will play an essential role in achieving many of the Sustainable Development Goals (SDGs) by tackling problems in a multitude of areas, like climate change, food security, education, public health, access to energy and clean water, and, in the areas in the social sciences and humanities, social justice to name a few.

While the SDGs and many connected societal challenges are global, the capacity for utilising AI methods and research in AI and Data Science still needs to be improved in Africa. The goal of the Cluster is to strengthen the capabilities for research and postgraduate training in these areas at key universities in Africa and initiate research projects in areas of global relevance.

Co-Leads		
ARUA	The Guild	
Stellensbosch University, South Africa	Uppsala University, Sweden	
Francesco Petruccione - Professor of Quantum Computing and Director at National Institute for Theoretical and Computational Science	Thomas Schön – Beijer, Professor in Artificial Intelligence	
Core Partners		
Addis Ababa University, Ethiopia	Makerere University, Uganda	
Solomon Gizaw - Head of Computational Data Science	Prof. John Magero Mango, et al.	

University of Ljubljana, Slovenia

University of Lagos, Nigeria

Victor Odumuyiwa, et al. – Director of NITDA IT Hub

Aleksander Sadikov - Head of the Al Laboratory

University of Rwanda, Rwanda

Denis Ndanguza - Professor and Dean of the School of Science

University of Tübingen, Germany

University of Nairobi, Kenya

Prof. Patrick Weke

Prof. Philipp Berens

University of Warwick, UK

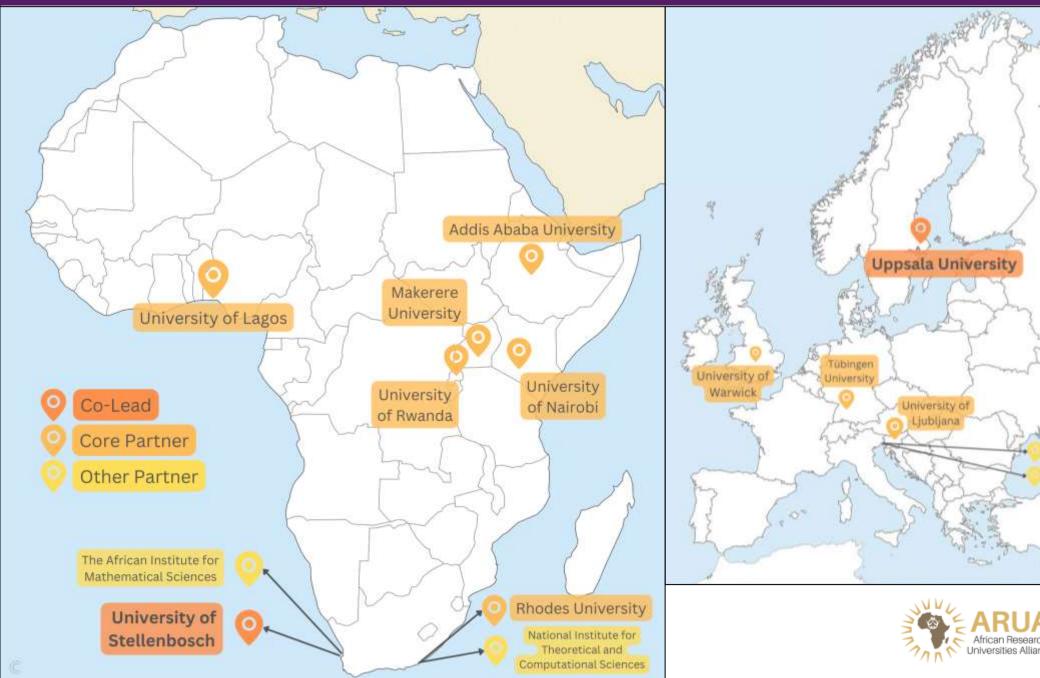
Professor Olalekan Uthman – Director of Warwick Centre for Global Health

Rhodes University, South Africa

Ozlem Tastan Bishop - Professor and Director of Research Unit in Bioinformatics (RUBi)













Co-Leads	
ARUA	The Guild
University of Pretoria, South Africa Prof. Frans Swanepoel - Interim Director ARUA Centre of Excellence in Sustainable Food Systems	University of Bologna, Italy Prof. Luca Fontanesi - Professor of Agricultural and Food Sciences
Core Pa	
University of Warwick, UK Prof. Murray Grant - Elizabeth Creak Charitable Trust, Chair in Food Security	University of Göttingen, Germany Prof. Dr. Meike Wollni - Professor of Environmental and Resource Economics
<u>University of Ghent, Belgium</u> Prof. Marc Heijde - Prof Plant Biotechnology and molecular biology/IPBO program manager	<u>University of Nairobi, Kenya</u> Prof. Cecilia Moraa Onyango – Assoc. Prof. of Horticulture
<u>University of Ghana, Ghana</u> Prof. Irene Egyir — Dean of School of Agriculture	Makerere University, Uganda Prof. John Mango - Department of Mathematics
University of Kwazulu-Natal, South Africa	University of Ljubljana, Slovenia
Prof Joyce Chitja – Assoc. Prof. of Food Security & Director of the African Centre for Food Security	Prof. Nataša Poklar Ulrih – Prof. of Biochemistry, Dept. of Food Science and Technology
University of the Western Cape, South Africa Prof. Julian May - Director DSI-NRF CoE in Food Security	University of Leeds, UK Prof. Steven Banwart – Director of the Global Food and Environment Institute
<u>University of Montpellier, France</u> François Pierrot - Vice President, International Affairs	<u>University of Mpumalanga, South Africa</u> Prof. Victor Mlambo - Professor of Animal Sciences
<u>University of Johannesburg, South Africa</u> Prof Olaniyi Fawole – Director of Postharvest and	University of Hohenheim, Germany Prof. Dr. Mizeck Chagunda – Chair of Animal Breeding & Husbandry in the Tropics and Subtropics, Principal Lead for

Agroprocessing Research Centre

Husbandry in the Tropics and Subtropics. Principal Lead for

University-wide network on Research in and with Africa

Calaada

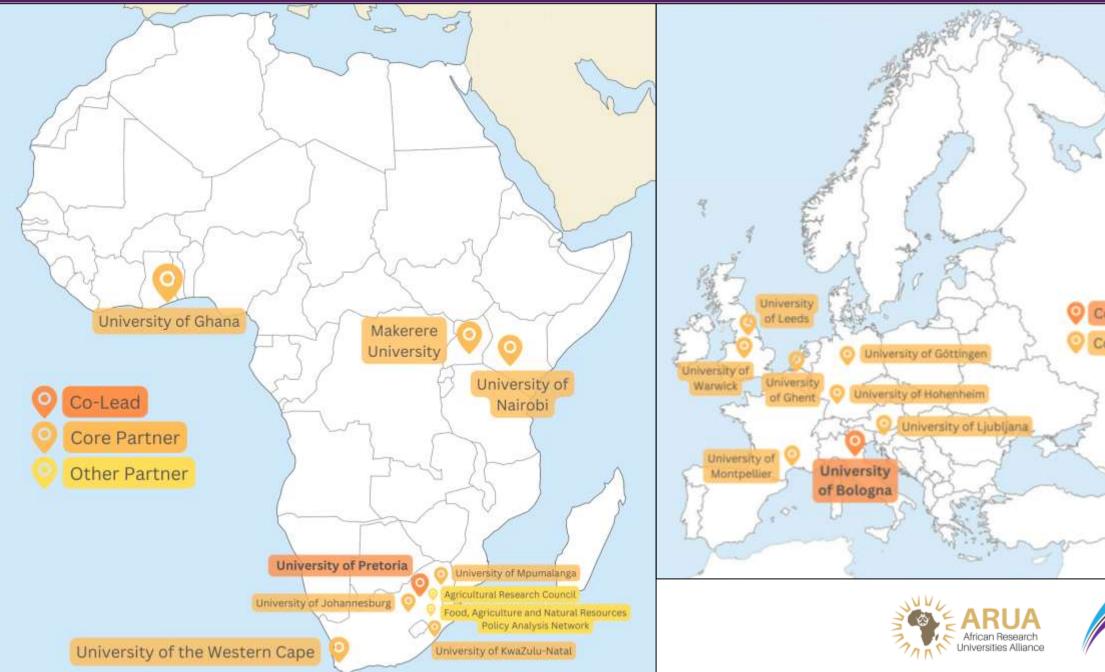
Sustainable Food Systems

As a truly global platform, the Africa-Europe Cluster of Research Excellence (CoRE) will address food systems challenges by (1) conducting collaborative research on food systems transformation, (2) assuring continuity through a 10-year collaboration, (3) pooling resources for scale and impact, and (4) significantly bolstering capacity in African institutions. Collaboration will span disciplines, geography, and sectors, enabling solutions that transcend unilateral approaches.

The 10-year activity plan is aligned with three pillars: education, research, and technology transfer. The plan draws on the broad fundraising and rich network capabilities inherent in the Cluster membership. Building on the sound foundation of already established partnerships and programmes, extensive collaborative research and capacity building are envisaged, with a particular focus on early career researchers embedded in joint projects. By ensuring that the next generation scientists operate within a global community that co-creates solutions with multisectoral stakeholders, the Cluster will make substantive contributions to addressing challenges in African and European food systems.









Co-Leads

ARUA

Rhodes University, South Africa

Prof. Jen Snowball – Department of Economics,
Professor of Economics

University of Lagos, Nigeria

Prof. Duro Oni – Department of Creative Arts, Professor of Theatre Arts

The Guild

King's College London, United Kingdom

Prof. Roberta Comunian – Department of Culture, Media and Creative Industries, Prof. of Creative Economies

Dr. Eka Ikpe – Director of the Africa Leadership Centre, and Reader in Development Economics in Africa

Core Partners

University of Cape Coast, Ghana

Dr. Madinatu Bello - Department of Theatre and Film

Stellenbosch University, South Africa

Prof. Michael Graha - Faculty of Economics and Management Sciences

University of Witwatersrand, South Africa

Ms. Avril Joffe - Postgraduate Coordinator and Chair of School of Arts

Dr. Munyaradzi Chatikobo - Head of the Cultural Policy and Management

University of Ghana, Ghana

Dr. Mohammed-Aminu Sanda - Senior Lecturer at the Department of Organization and HR Management **Dr. Akosua Keseboa Darkwah** - Assoc. Professor at the Department of Sociology

University of Nairobi, Kenya

Samuel M. Maina - Head of the Department of Art & Design Mrs. Joanne Mosom - Lecturer

Aarhus University, Denmark

Assoc. Prof. Teke Ngomba - Dept. of Media and Journalism Studies, School of Communication & Culture **Assoc. Prof. Nanna Schneidermann** - Dept. of Anthropology, School of Culture and Society

Creative Economies: Cultures, Innovation and Sustainability

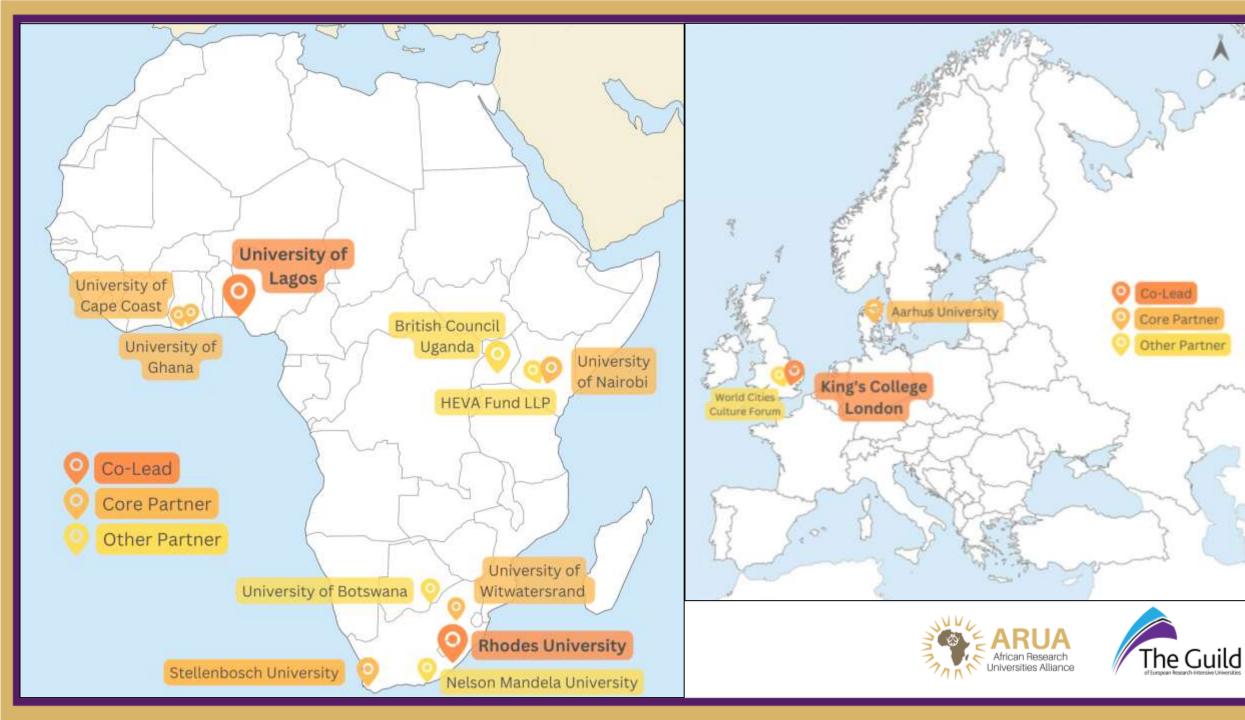
This CoRE aspires to become an international point of reference for research on creative economies.

Research on creative economies has so far been narrowly focused on the Global North and has not placed enough value on cultures, heritage, innovations and ideas from the Global South. The CoRE rebalances this perspective by supporting research collaborations across European and African universities, addressing shared research challenges that aim to support the development of more equitable, innovative and sustainable creative economies.

The project acknowledges that recognising the value of all cultures and creative expression is the foundation of both economic and social development, as well as international cooperation. Creative economies are not only essential to the innovation, technology and economic development of many cities and regions but are also cornerstones of sustainable development, community engagement and dialogue across cultures and generations.







Engineering for the Future

Engineering plays a key role in solving complex global challenges including mitigating climate change, energy and food security, and public health. These challenges do not fall in a specific discipline nor are they limited to a single country, region, or continent. They must be addressed by applying interdisciplinary approaches across diverse geographical locations for impactful and effective solutions.

The vision of our CoRE is to provide an engineering training and research ecosystem that brings this insight through collaboration between African and European universities. The goal is to develop a cohort of PhD graduates who are trained in engineering research and development, as well as governance, leadership, inclusivity, and sustainability to drive excellence and underpin Agenda 2063 to make Africa a global powerhouse through working with government and industry.

Co-Leads

ARUA

JA ____

University of Pretoria, South Africa

Prof. Wynand Steyn – Dean of Faculty of Engineering, Built Environment and IT

The Guild

King's College London, UK

Prof. Barbara Shollock - Head of the Department of Engineering

Core Partners

Makerere University, Uganda

Assoc. Prof. Dorothy Okello – Dean of School of Engineering
Prof. Rhoda Wanyenze
Prof. John Mango Magero

University of Ghana, Ghana

Prof. Elsie Effah Kaufmann – Dean of School of Engineering Sciences

University of Ljubljana, Slovenia

Prof. Miha Moškon - Assoc. Prof. of Computer Science at the Faculty of Computer and Information Science

University of Ibadan, Nigeria

Prof. Victor Olawasina Oludokuni

University of Lagos, Nigeria

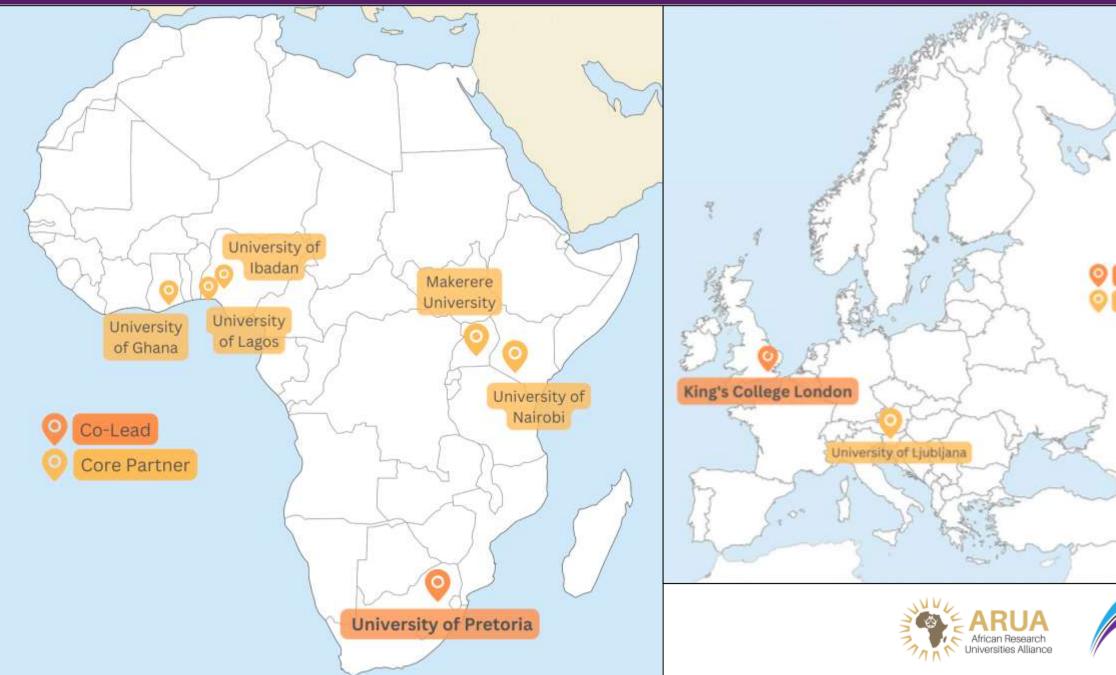
Prof. Muhammed (MOH) Amuda

University of Nairobi, Kenya

Dr. John Obiero - Senior Lecturer and Chairman of the Dept. for Environmental and Biosystems Engineering **Prof. Duncan Mbuge** - Assoc. Prof. at the Dept. for Environmental and Biosystems Engineering













Capacities for Science

The following set of clusters are grouped into a priority area that is aligned with the AU-EU Innovation Agenda





The Politics of Sustainable Development

This CoRE, which brings together inter- and transdisciplinary expertise from the social sciences, humanities, natural sciences, and law, will undertake innovative research and develop PhD training programs that build capacity for achieving sustainable development.

A major outcome will be to increase the knowledge base on governance for sustainable development and strengthen the science-policy interface required for societal transformation. We will ensure the long-term sustainability of the CoRE and its scientific impact by developing a community of knowledge partners, including senior researchers, policymakers, doctoral students, and early career scholars equipped with actionable knowledge and skills, which will allow them to plan and support evidence-based public policies aimed at achieving sustainable development in response to the climate challenges.

We aim to train a minimum of 40 PhDs at participating universities in Africa over 10 years, and to develop skills and apply evidence-based research findings to design and implement national and regional policies on climate and sustainable development in Africa and Europe.

The CoRE's contribution to Africa-Europe collaboration by undertaking cuttingedge research and building a knowledge base that is operationalised into costeffective, inclusive, and equitable policies that promote sustainable development.

ARUA The Guild University of Pretoria, South Africa Dr. Heide Hackmann – Director of Future Africa Dr. Heide Hackmann – Director of Future Africa The Guild University of Oslo, Norway Prof. Dan Banik – Centre for Development and the Environment Prof. Tore Rem – Director of UiO: Democracy

COIE Fai tileis		
University of Nairobi, Kenya	<u>UCLouvain, Belgium</u>	
Prof. Karuti Kanyinga – Institute for Development Studies	Prof. Sandy Tubeuf – Professor in Health Economics	
Utrecht University, The Netherlands	University of Malawi, Malawi	
Professor Frank Biermann – Copernicus Institute of Sustainable Development	Professor Boniface Dulani – Director of Research at Afrobarometer	

Core Partners

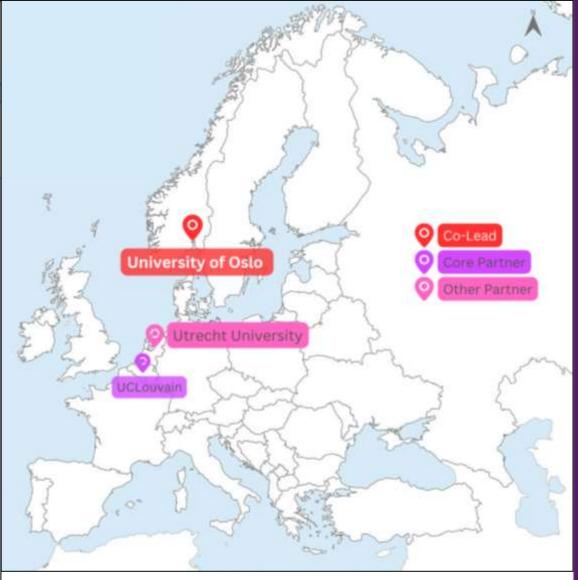
University of Addis Ababa, Ethiopia

Professor Aklilu Amsalu – Centre for Sustainable Development













Building Capacities for Interdisciplinary Peace Research: Exploring Conflict, Environment, Technology, Inequality, and Identity in Africa

This CoRE will undertake an interdisciplinary approach to address peace and security challenges at the intersection of the environment, technology, and political (in)stability, focusing on four crosscutting intervention areas: (1) knowledge generation and dissemination, (2) capacity building and cohort building across the academy, (3) dissemination, and (4) practice in Africa and Europe.

The approach will be systematic, participatory, decolonised, and solution-oriented. The pathways to change include the development of research databases, supervision capacities and joint PhDs, research workshops, policy dialogues and peacebuilding interventions.

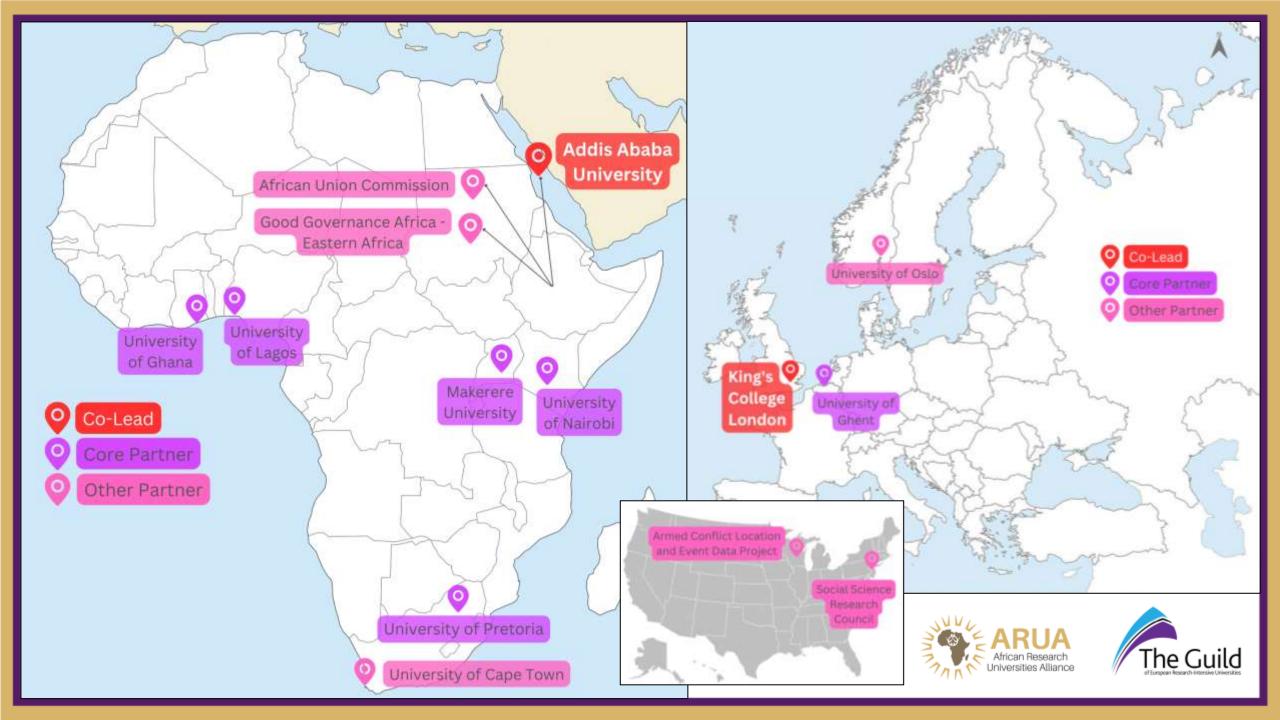
Existing knowledge systems show that identity and inequality influence peace and conflict in Africa, because they interact to underline access to income, environment, political participation, and technology. Despite the growing global significance of environmental sustainability and technological proliferation, their nexus with identity and inequality have not been adequately studied in African peace and (in)security discourses. This Cluster fills this gap by centring them as important contributors alongside peace and security.

ARUA Addis Ababa University's Institute for Peace and Security Studies, Ethiopia Mercy Fekadu Mulugeta – Director of the ARUA Centre of Excellence on Post - Conflict Societies The Guild King's College London, United Kingdom Dr Eka Ikpe – Director of the African Leadership Centre

Core Partners		
University of Ghent, Belgium	University of Ghana, Ghana	
Prof. Dr. Koen Vlassenroot – Conflict Research Group	Mary Boatemaa Setrana – Director, Centre for Migration Studies	
Makerere University, Uganda	University of Pretoria, South Africa	
Prof Sarah Ssali – Dean of the School of Gender	Professor Tawana Kupe – Department of Political Science	
University of Lagos, Nigeria	University of Nairobi, Kenya	
Taibat Lowanson – Co-Director Centre for Housing and Sustainable Development	Prof M. Jesang Hutchinson – Deputy Vice-chancellor (Research Innovation and Enterprise)	







Promoting Impactful Research and Education on Inequalities, Poverty, and Deprivation Across Africa

Coordinated interdisciplinary research that pools the strengths of researchers from the global south and the global north is crucial to effectively contribute to the attainment of the Sustainable Development Goals.

This CoRE will provide a knowledge base for SDG compliance and enhanced development for Africa. It will grow indigenous, African research capacity with a work programme that covers the multidimensional inequalities that are confronted in several of the SDGs, and that intersect to perpetuate inequality and poverty.

The CoRE will design and implement impactful, innovative joint research programmes and cognate capacity building activities by developing joint Masters and PhD projects, a joint doctoral programme, and training programmes for policy makers, civil society and business enterprises. It will enhance the (inter)disciplinary knowledge infrastructure of its partners by training and mentoring research staff. It will deliver an inclusive, multidimensional analysis of deprivation and poverty which addresses various inequalities.

Co-Leads

ARUA

University of Cape Town, South Africa

Professor Murray Leibbrandt – University Research Chair, Poverty and Inequality Research; Director, African Centre of Excellence for Inequality Research (ACEIR)

The Guild

University of Groningen, The Netherlands

Professor Robert Lensink – Vice Dean Research Faculty of Economics and Business (FEB); Director FEB Research Institute; Professor of Finance and Financial Markets

Core Partners

University of Ghana, Ghana

Professor Robert Darko Osei – Institute of Statistical Social and Economic Research; Dean of School of Graduate Studies; Coordinator of Ghana Node of ACEIR

University of Nairobi, Kenya

Professor Damiano Kulundu Manda – Department of Economics and Development Studies; Coordinator of Kenya Node of ACEIR

Aarhus University, Denmark

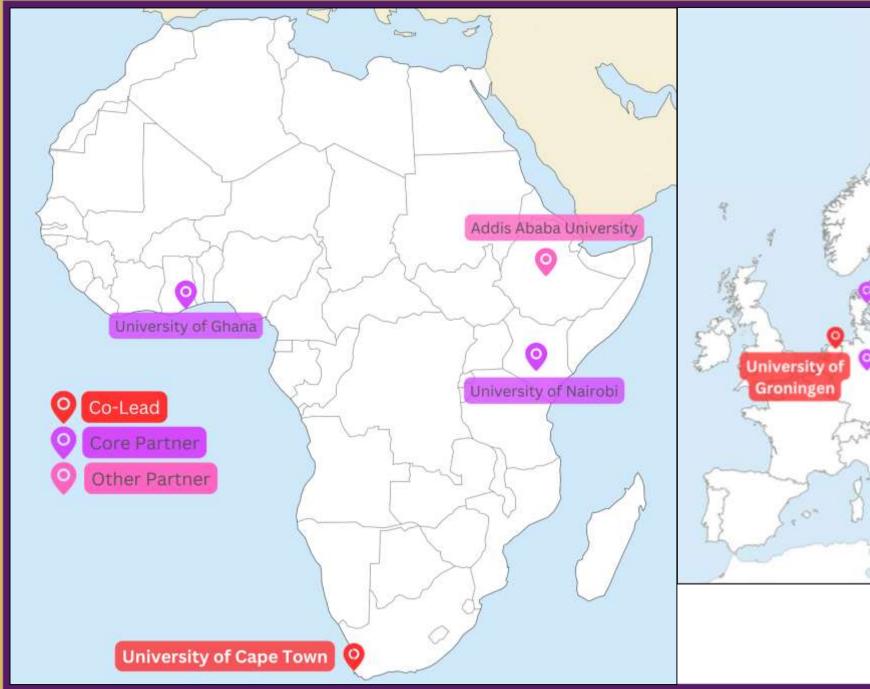
Professor Daniele Nosenzo; et al. –
Department of Economics & Business
Economics and member of the Centre for
Integrative Business Psychology.

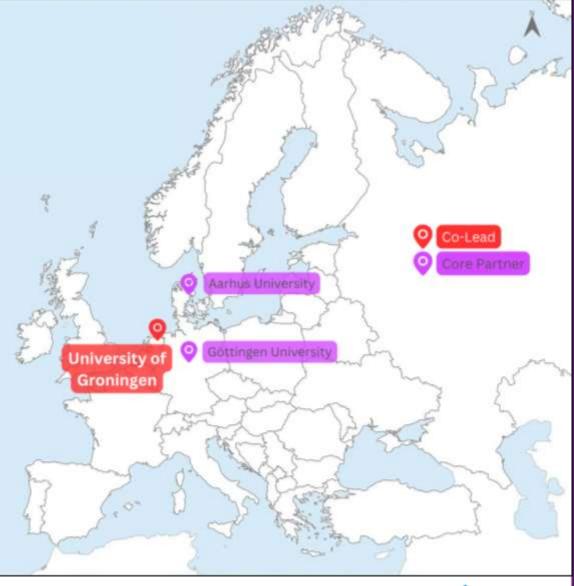
University of Göttingen, Germany

Professor Sebastian Vollmer –
Professor of Development Economics













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