

Nature-Based Solutions for Climate Change Adaptation and Mitigation

Priority Area	
Green Transition	
Abstract	
<p>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.</p>	
Co-Leads (Academic, University)	
ARUA	The Guild
<p>Professor Mark New, Co-director, ARUA Centre of Excellence for Climate and Development Professor, Department of Environmental and Geographical Science Senior Research Fellow, African Climate and Development Initiative Dr Petra Holden, researcher at the African Climate and Development Initiative - University of Cape Town, South Africa</p>	<p>Professor Silvana Di Sabatino, PhD Coordinator “Future Earth, Climate Change and Societal Challenges”; Atmospheric Physics Research Group Coordinator - University of Bologna, Italy</p>
<p>Professor Guy Midgley, Director, School for Climate Studies - University of Stellenbosch, South Africa</p>	
Core Partners (Academic, University)	
Prof. Silvana Di Sabatino; et al.- University of Bologna , Italy	
Dr Petra Holden, Researcher; et al.- University of Cape Town , South Africa	
Prof. Kanshu Rajuratham, Director, School for Data Science and Computational Thinking; et al. - University of Stellenbosch , South Africa	
Prof. Heila Lotz-Sisitka, Distinguished Professor and SARChI Chair: Global Change and Social Learning Systems et al. – Rhodes University , South Africa	
Prof. Kwasi Appeaning Addo, Professor, co-leader of the ARUA Centre of Excellence Climate and Development; et al. - University of Ghana , Ghana	
Prof. Dr. Reimund P. Rötter, Professor and Head of Division; et al. - University of Göttingen , Germany	
Prof. Sally Archibald, Professor; et al. - University of Witwatersrand , South Africa	
Prof. Daniel Ochieng Olago, Professor, Research Director Institute for Climate Change and Adaptation, co-Leader of the ARUA Centre of Excellence Climate and Development; et al. - University of Nairobi , Kenya	
Dr. John Bosco Insuju, Lecturer - University of Makerere , Uganda	
Prof. Marietjie Venter, PhD, Medical Virology, mASSAf, Head: Zoonotic arbo- and Respiratory virus Research programme; et al. - University of Pretoria , South Africa	
Prof. Fabrice Renaud, Professor, Head of the School of Interdisciplinary Studies; et al. – University of Glasgow , United Kingdom	
Other Partners (including non-academic ones)	
Prof. Stephen Syampungani, O.R. Tambo Chair in Sustainable Development - Copperbelt University , Zambia	
Prof Natasha Ribeiro, Professor - Eduardo Mondlane University , Mozambique	
Prof Casey Ryan, Professor, co-Chair of SEOSAW - University of Edinburgh , United Kingdom	