





An ACP-EU Technology-Transfer Network on Rainwater Harvesting Irrigation Management for Sustainable Dryland Agriculture, Food Security and Poverty Alleviation in sub-Saharan Africa (AFRHINET)



Consortium

Implementing partners:

- Hamburg University of Applied Sciences (HAW), Germany (Project Coordinator)
- · Addis Ababa University, Ethiopia
- · University of Nairobi, Kenya
- Eduardo Mondlane University, Mozambique
- University of Zimbabwe, Zimbabwe

Associated partners:

- International Crops Research Institute for Semi-Arid Tropics (ICRISAT), India
- Southern and Eastern Africa Rainwater Network, International Centre for Research in Agroforestry (SearNet/ICRAF), Kenya
- · WaterAid, United Kingdom



S Budget

Total budget: €1,176,433.44 EU contribution: €999,968.42



Duration

March 2014 - May 2017



Development challenge

Water scarcity is a major constraint on African agriculture and limited solutions to the problem. Furthermore, African countries have limited capacity to capitalise on water sources like rainwater for irrigation.

Notably, for small-scale off-season irrigation in rural arid and semi-arid areas of sub-Saharan Africa.



Countries of intervention





The AFRHINET project took a multi-disciplinary and participatory approach on the transferring of rainwater harvesting Irrigation technologies with a market-oriented framework.

The involvement of universities, research institutions, relevant associations, NGOs and government as strategy to promote technology adoption at different levels was aiming to promote long-term access to and efficient use of rainwater harvesting irrigation (RWHI).

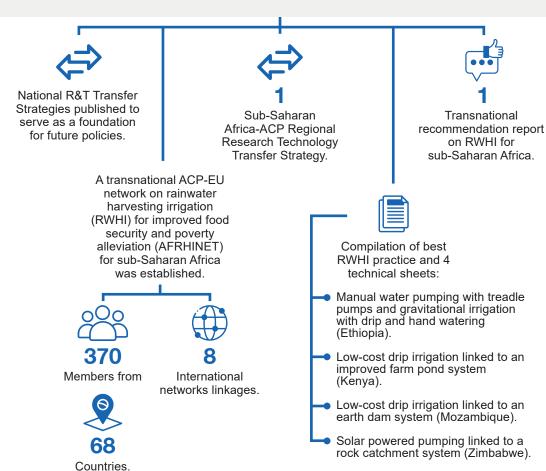
Together to fostering efficient cooperation and networking on improved food and water security, poverty alleviation and socio-economic and climate resilience and environmental sustainability.



Project results



Improved knowledge of scientist, technical practitioners, and politicians on technology-transfer and market-oriented framework strategy focusing on rainwater harvesting and its use in agriculture.





Improved capacities of S&T communities, business, MSMEs, NGOs and public institution on innovative Rainwater Harvest Irrigation Know-how and technologies.



Advanced Train-the-trainer courses for multipliers focused on theoretical and practical knowledge of RWHI technologies and practises with:



delegates from 4 countries.







Capacity-building and train-the-trainer courses on RWHI technologies and practises for local communities, with over:

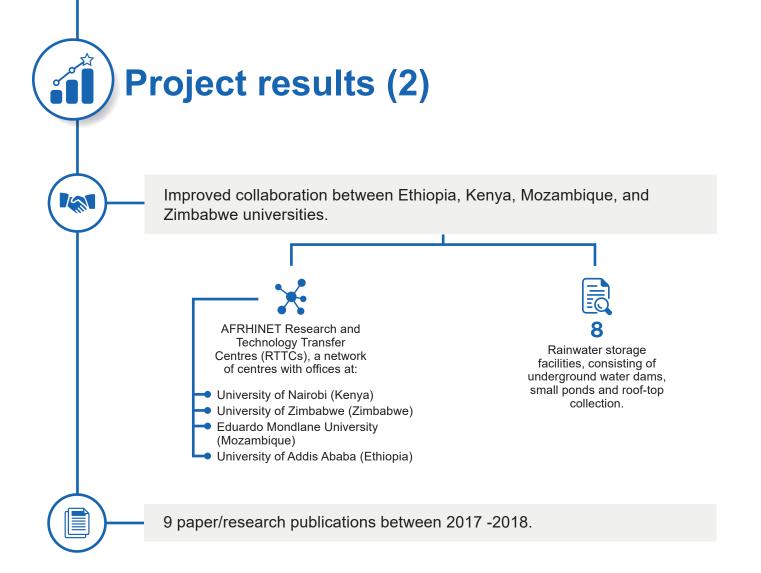


participants.





Sets of capacity-building and train-the-trainer materials on how to use rainwater in different contexts.





The AFRHINET project has generated positive impact by transferring Rainwater Harvest Irrigation (RWHI) technologies such as underground water dams, roof-top irrigation, and overflowing mounds. to communities and small-scale farmers in Ethiopia, Kenya, Mozambique, and Zimbabwe, as well as strengthening of advanced capacity building of S&T communities, businesses, micro-enterprises, and other private, non-government, and public institutions through training on Rainwater harvesting technologies.

Signed Memorandum
of Understanding (MoU)
between the Ministry of
Environmental Water and Natural
Resources (MEWNR) Kenya, Jomo
Kenyatta University of Agriculture
and Technology (WARREC),
University of Nairobi and Kenya
Rainwater Association (KRA) to
foster cooperation on Water
and Environmental issues.

The Billion Dollar Business
Alliance for Rainwater

Harvesting, the signed partners are the World Agroforestry Centre (ICRAF), the World Food Programme (WFP), G. North and Sons Equity Bank, Jomo Kenyatta University of Agriculture and Technology, KCB Bank, Kenya Climate Innovation, Kenya Rainwater Association, Ministry of Agriculture, Livestock and Fisheries, Ministry of Water and Irrigation, National Drought Management Authority, Rafiki Bank, SearNet, University of Nairobi, Vison Fund Kenya and World Vison.

Signed

Memorandum of
Understanding and
Cooperation (MoU) between
Addis Ababa University,
WaterAid and the Federal
Ministry of Water and
Irrigation of Ethiopia on
fostering rainwater
harvesting.

Sustained Impact

The sustained impact of AFRHINET has been reflected on the two memoranda of understanding signed and the multi-donor alliance created in Kenya.

Strong and sustained dissemination of AFRHINET training documentation by other

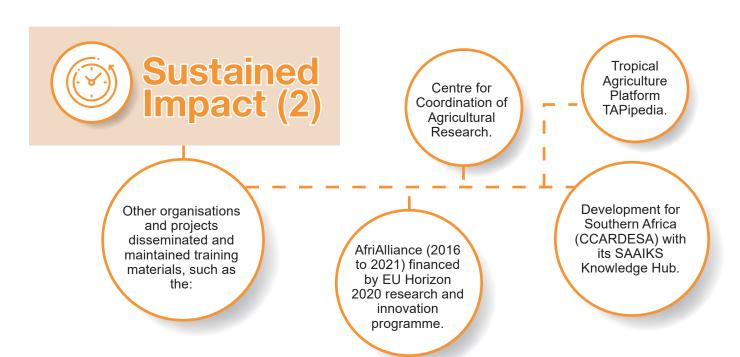
organisations and projects such as the Centre for Coordination of Agricultural Research and Development for Southern Africa (CCARDESA) with its SAAIKS Knowledge Hub, the AfriAlliance (2016 to 2021) financed by EU Horizon 2020 research and innovation programme, and the Tropical Agriculture Platform TAPipedia.

Sustained impact concerning knowledge transfer has been seen in the different projects' publications, with researchers and practitioners extending the influence of the project implementation beyond the project research publications such as "Roads: Instruments for Rainwater Harvesting. Food Security and Climate Resilience in Arid and Semi-arid Areas" (2018), "Knowledge, Attitude and Practice in Water Resources Management among Smallholder Irrigators in the Tsavo Sub-Catchment, Kenya" (2019).

RWHI technical information supported policy makers and politicians in the implementation of:

Mozambique's National Agricultural Policy and Strategic Plan. Ethiopian Agricultural Sector Policy (2010-2020). Kenya's Vision 2030 development agenda to meet the UN's Sustainable Development Goals (SDGs).

Zimbabwe's Agricultural Policy Framework 1995-2020.





Key lessons learned and best practices

