



ClimaSoilHealth

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Institutional capacity building on sustainable soil health to improve adaptation and mitigation to climate change in the agriculture sector in Tanzania.

Main goal

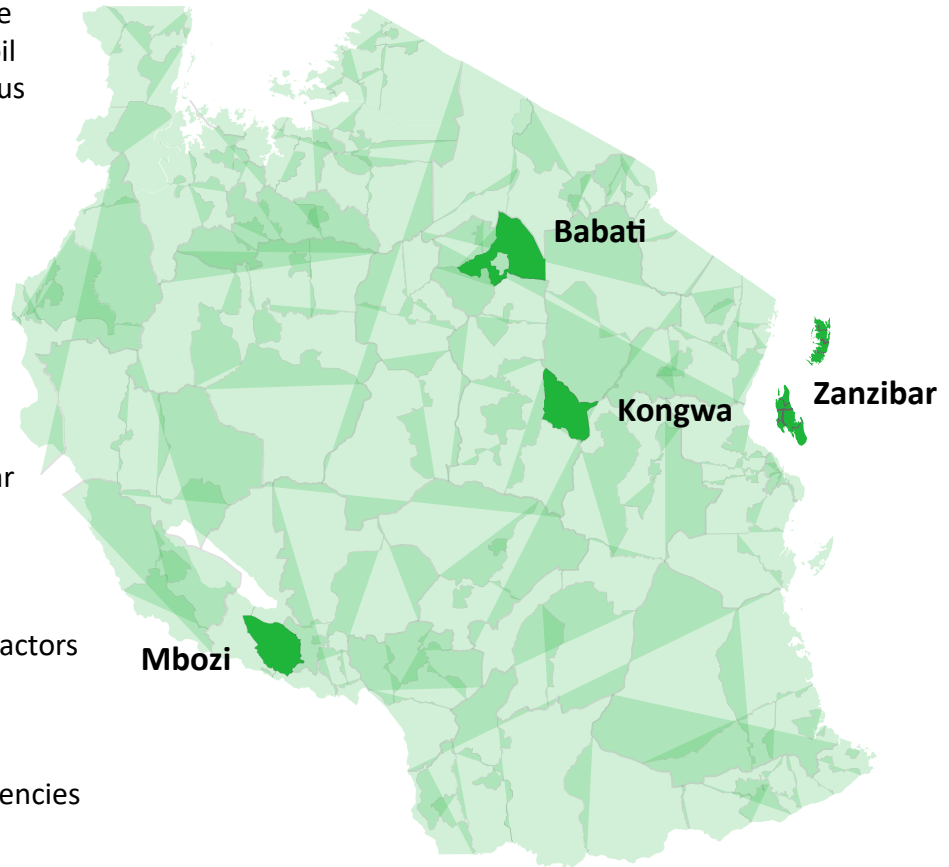
ClimaSoilHealth's goal is to improve the institutional capacity on sustainable soil health restoration in Tanzania with focus on soil fertility and nutrient management that will directly contribute to increased agricultural productivity and nutrition.

Project areas

- Mbozi, Songwe region
- Babati, Manyara region
- Kongwa, Dodoma region
- Unguja and Pemba islands, Zanzibar

Project stakeholders

- Ministry of Agriculture
- Soil health living lab actors and VC actors
- National /regional training centres
- National projects/initiatives
- Farmers/lead farmers
- Scientific community and public agencies
- Private sectors, NGOs





Key challenges to be addressed

- Soil acidity
- Soil salinity/alkalinity
- Soil erosion
- Low soil fertility/poor soil management
- Inadequate knowledge on soil health

Drought in the Kongwa district, Dodoma region. Photo: Wikimedia Commons

Expected impact

- Increased institutional and human capacity on sustainable soil health management in case study districts of Tanzania
- Contribute to UN sustainable development goals (SDGs), with special emphasis on SDG 2 (food and nutrition security), SDG 13 (climate action), and SDG 15 (life on land)

Expected outcomes

- Improved soil productivity, adaptation, and mitigation to climate change
- Increased stakeholders' knowledge and adoption on soil health management
- Strengthened institutional collaborations on climate smart soil health improving measures between TARI (Tanzania), NIBIO (Norway) and other Tanzanian institutions

Expected project outputs

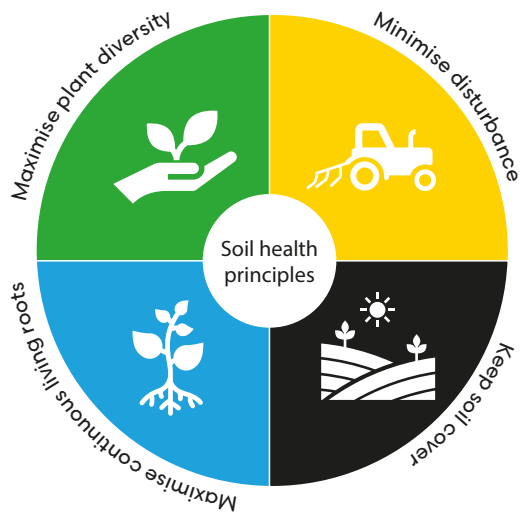
- Climate smart soil management technologies toolbox (including soil health indicator framework and digital soil mapping)
- Capacity building program and training modules on soil health
- Farmers, researchers, extension personnel and public sector agencies competence on soil health management improved
- Policy frameworks for upscaling sustainable soil health programs



Coffee farm in Songwe region. Photo: Wikimedia Commons

Soil health management options

- Soil mulching
- Cover crops
- Crop rotation, Intercropping
- Composting/green manuring
- No till /reduced tillage
- Agroforestry systems
- Biochar/Liming
- Integrated soil fertility management
- Site specific nutrient management





Kick off meeting for project participants, June 2024 in Arusha, Tanzania. Photo: IARI



Norad

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Project field visit in Babati, Manyara region. Photo: TARI



Lake Babati. Photo: [Wikimedia Commons](#)