

## The Project for Development of Next-Generation Sustainable Land Management (SLM) Framework to Combat Desertification

### Overview

Degradation of natural resources such as soil, water, and vegetation is a major environmental concern of Ethiopia. Especially in the Ethiopian Highlands that account for over 90% of the country's agricultural production, soil erosion by water is the most serious land degradation problem.

If such soil losses continue to be unabated, Ethiopian Highlands could lose nearly all of its top soil in about 100 years. In order to tackle this development challenge, the project supports joint research activities by Bahir Dar University, Tottori University, Shimane University and Tokyo University in developing a next-generation sustainable land management (SLM) framework that integrates technologies to reduce soil erosion, measures to increase land productivity and empowerment of youth and women.

This project is implemented as SATREPS project which is jointly supported by JICA and Japan Science and Technology Agency (JST).

### Purpose

The project aims to propose a next-generation SLM framework that integrates effective technologies for reducing soil erosion and improving land productivity, and socioeconomic empowerment of women and youth.

### Activities/Outputs

The project aims to develop SLM technologies that are suitable to each situation in three project sites by quantitatively testing and evaluating the effect of measures to prevent soil erosion. Moreover, the project will propose a SLM framework that empowers farmers, especially women and landless youth, to take the lead in adopting and disseminating SLM.

In addition, Ethiopian students will be supported to conduct PhD research in Japan, which allows this SATREPS project to develop capacity of research institutions in Ethiopia.



#### Project Site

Upper Blue Nile basin, namely Guder, Abagerima, and Debatie

#### Implementing Organization

Bahir Dar University, Amhara Agricultural Research Institute, Water and Land Resource Centre, Ministry of Agriculture

#### Duration

Apr. 2017–Apr. 2022

