

Preface

In May 2021, Japan formulated the Strategy for Sustainable Food Systems, “MIDORI”, which aims to enhance agricultural productivity potential and sustainability through innovation as a new approach for sustainable food systems. Among the technologies developed to transform the food systems in Japan, there are technologies applicable to the Asia-Monsoon region, where we share similar features such as high temperature and humidity, paddy-rice based agriculture, and a high proportion of small and medium-sized farmers.

To accelerate testing and disseminating technologies applicable to the region, the Ministry of Agriculture, Forestry and Fisheries (MAFF) assigned the Japan International Research Center for Agricultural Sciences (JIRCAS) to conduct the project “Accelerating application of agricultural technologies which enhance production potentials and ensure sustainable food systems in the Asia-Monsoon region” from 2022. It is currently being implemented at JIRCAS under the project name of “Green Asia”.

As part of the activities of Green Asia and in cooperation with other research institutes concerned, we have developed the “Technology Catalog Contributing to Production Potential and Sustainability in the Asia-Monsoon Region”, a compilation of applicable technologies which were developed in Japan or through international collaboration over the past 10 years and are expected to contribute to the establishment of sustainable food systems in the region.

We hope that this catalog will serve as a reference to various stakeholders in the Asia-Monsoon region, including government officials, researchers, extension officers, producers, and the private sectors. We also hope that the technologies in this catalog will be demonstrated and implemented on the ground through optimization and coordination in various regions, thereby helping in transformation of the food systems among countries in the Asia-Monsoon region.