

8th Meeting of G20 Agricultural Chief Scientists

(26th April 2019, Tokyo, Japan)



Concept paper:

International Collaborative Partnership to Scale Up and Out Climate-smart Technologies through Social Experiment-like Approaches

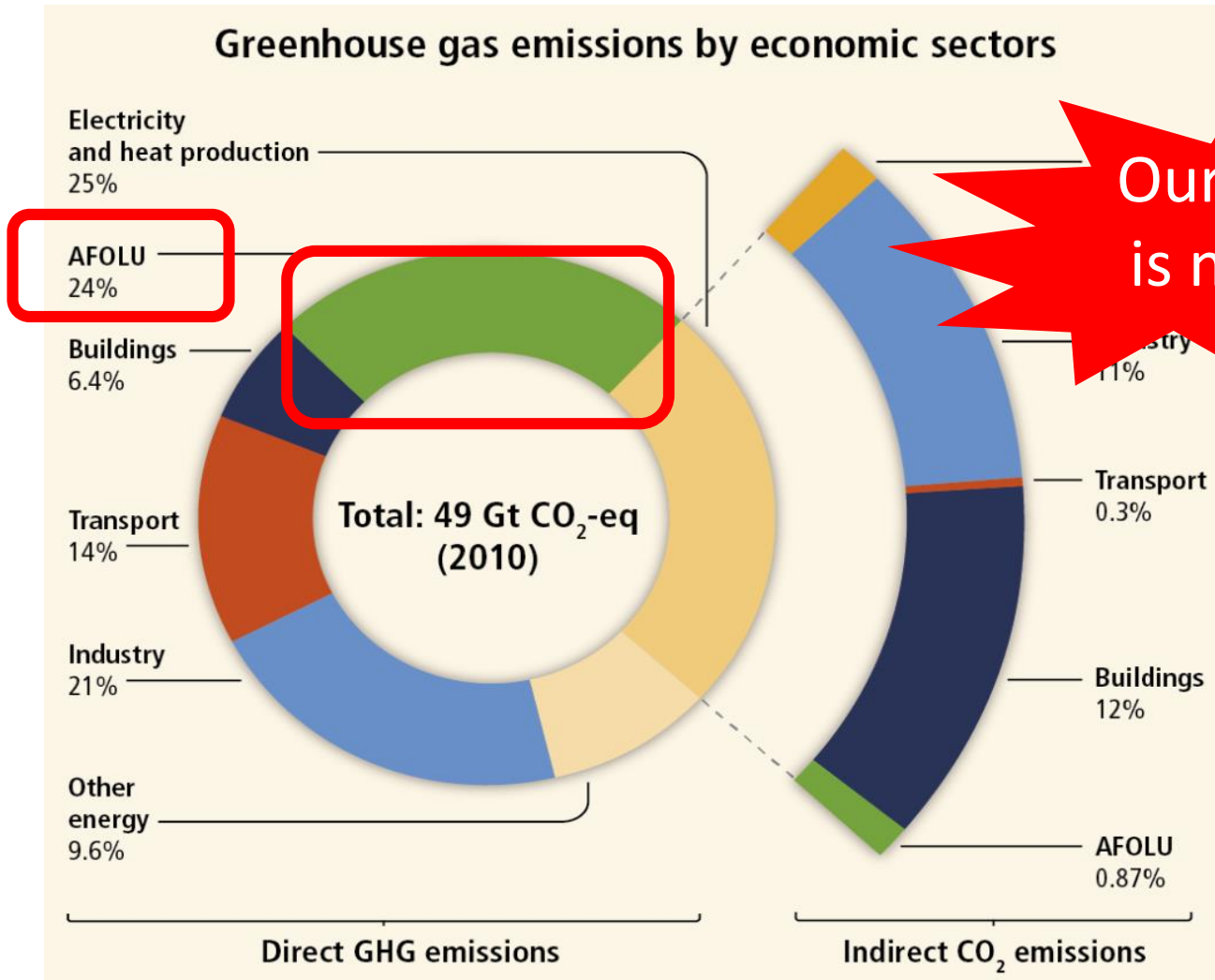
Agriculture, Forestry and Fisheries Research Council Secretariat (AFFRCS),
Ministry of Agriculture, Forestry and Fisheries of Japan

MAFF

Ministry of Agriculture, Forestry and Fisheries

Introduction

Agriculture is a sector vulnerable to climate change, and also an emission source



Our action is needed

IPCC,AR5 Synthesis Report,2014

Useful technologies for both “adaptation” and “mitigation” technologies have been developed and are in place

- Impact assessment on agriculture
 - New varieties and management practices
 - Weather index insurance
 - Soil carbon sequestration
 - Livestock and crop management to reduce N₂O and/or CH₄
- etc...

Improvement of
Production

Adaptation to
Climate Change

Contribution to
Mitigation

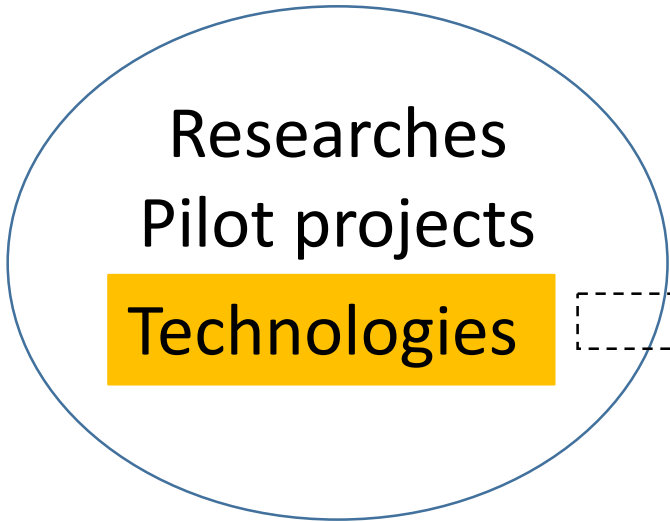
Aim to achieve a triple-win

Climate-smart technologies and their on-site adoption

Technologies must be put in practice on a large scale

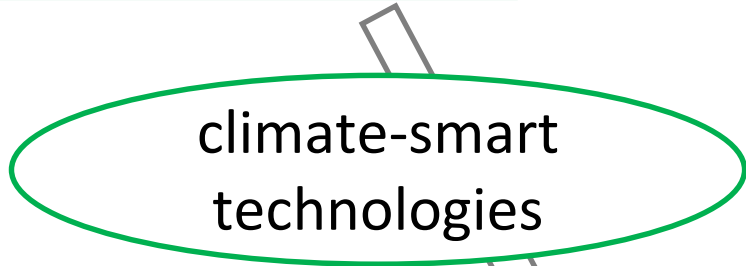
but...

Introducing new technologies to farmers is often difficult



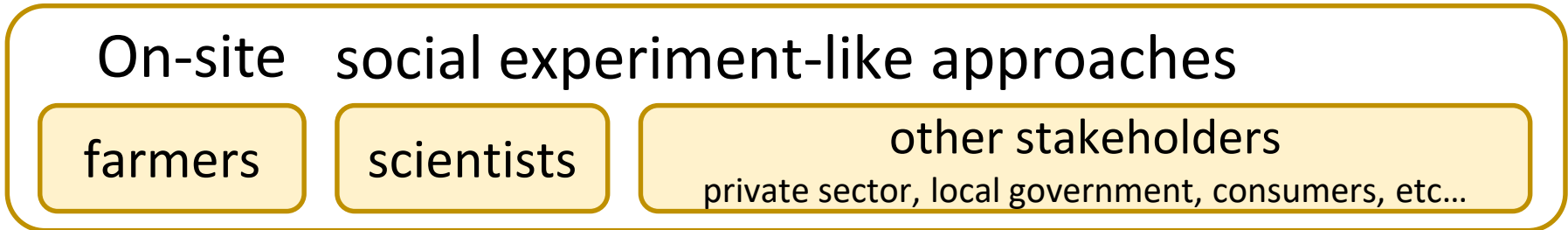
obstacles and challenges in changing farming practices

Approaches for scaling up and out climate-smart technologies



- alternate wetting & drying
- soil C sequestration
- etc...

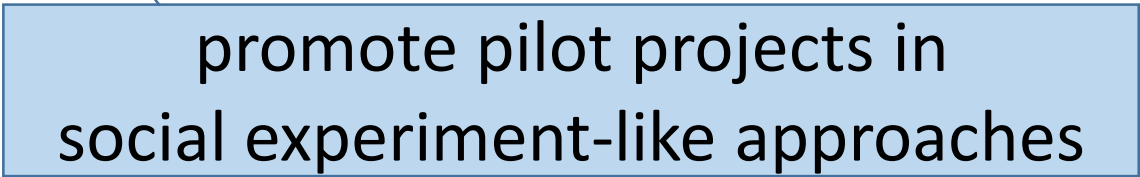
- environmental labeling
- environmental payment
- carbon credit etc...



international collaboration

optimization in the target area

adoption, scaling up and out of practices and technologies

1. International workshop to share G20 country experiences and the latest information
2. Identify suitable technologies for scaling up and out, and strengthen international research collaboration


promote pilot projects in
social experiment-like approaches
3. Strengthen collaboration with relevant international organizations