



# 9<sup>th</sup> WORLD CONGRESS ON CONSERVATION AGRICULTURE

## Directions for Investments in Sustainable Agricultural Mechanization

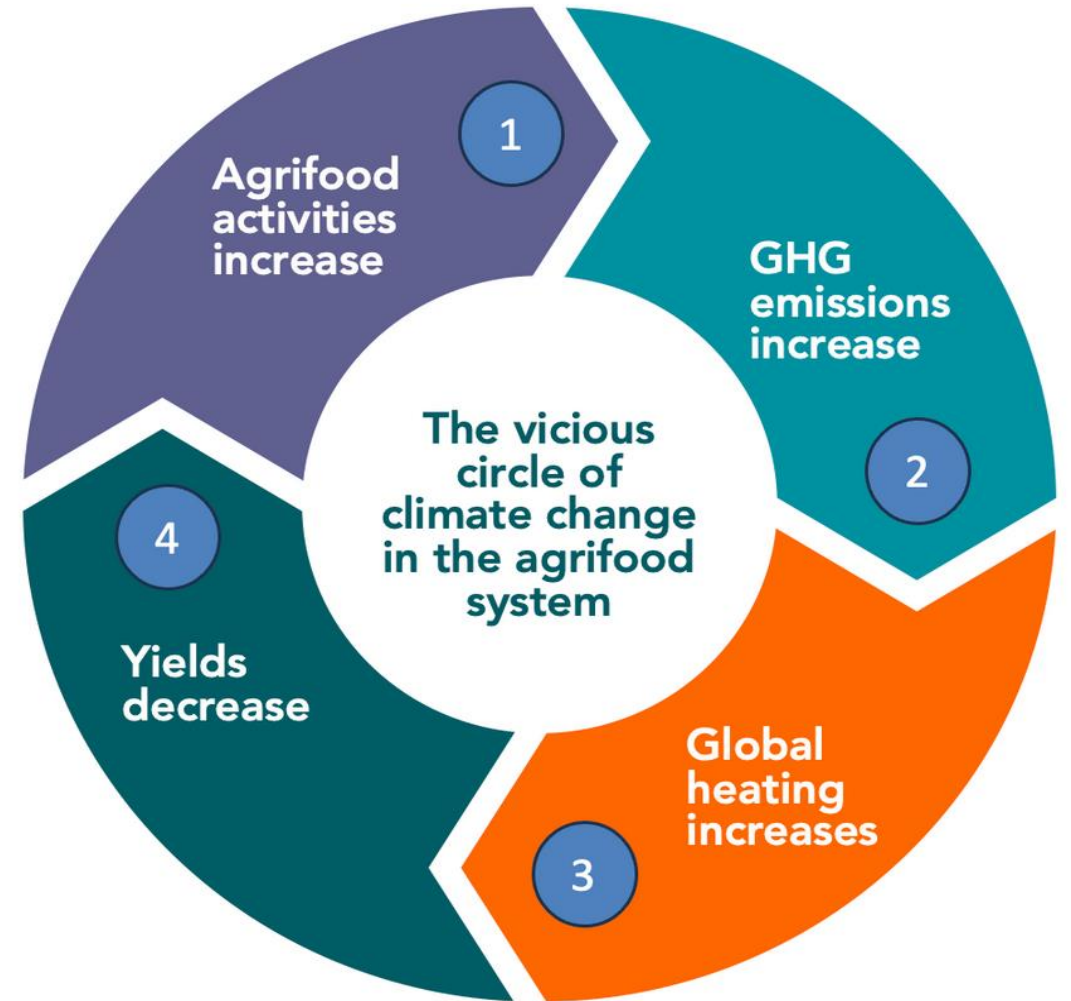
Katie Kennedy Freeman

Lead Agriculture Economist, World Bank

22 July 2024

# Accelerating Climate Action

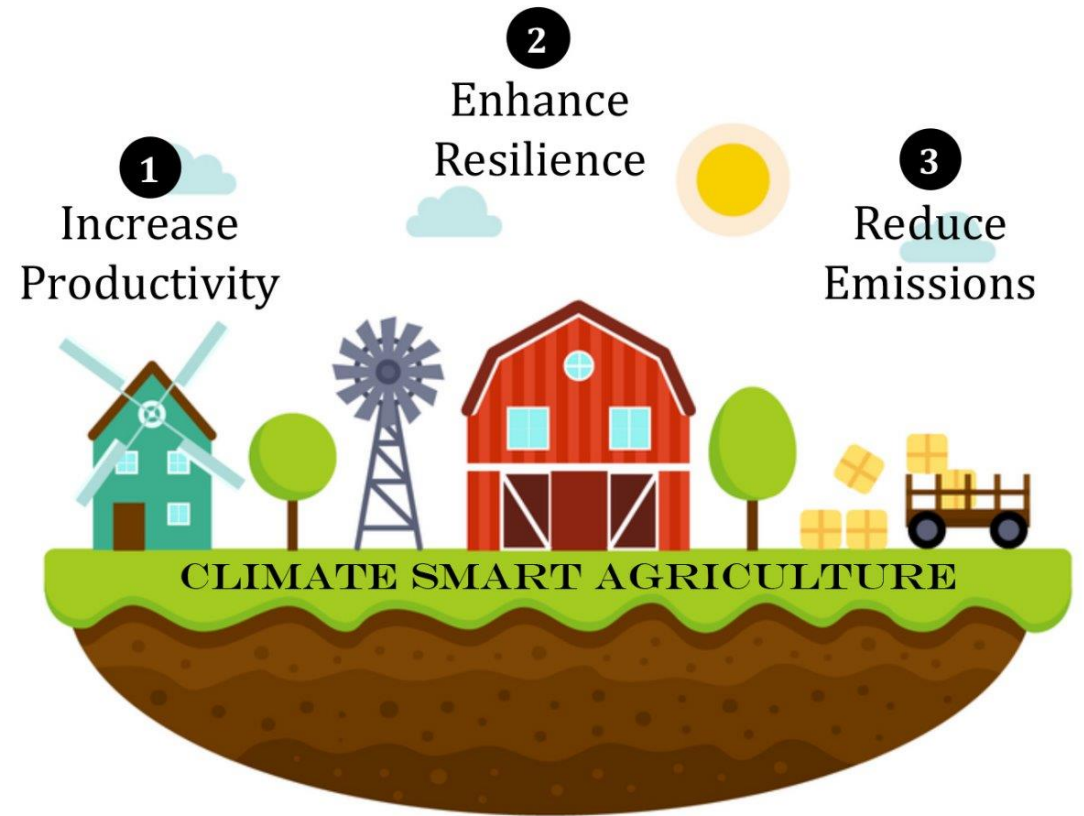
- Globally, agrifood emissions contribute about 16 GtCO<sub>2</sub>
- There is an urgent need to sustainably transform our global food systems
- Opportunity to accelerate climate action through CSA



Source: World Bank (2024)

# Sustainable Agrifood Systems Through Scaling Up CSA

- The World Bank has increased its support for climate-smart practices e.g., CA
- Agriculture and Food Global Practice's project financing towards climate change has steadily increased
- \$326 million (FY13) to \$3 billion (FY23)



# Tracking Progress: Supporting CA



Millions of people with enhanced resilience to climate risks



Millions of hectares under enhanced conservation and management



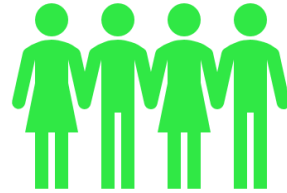
Number of farmers who adopt improved agricultural technology (e.g., CA)

# Sustainable Agricultural Mechanization

There is a need to increase investments in SAM for:



Sustainably improving  
yields



Reducing labor  
requirements



Reducing harvest and  
post-harvest losses

# Expanding Access to SAM in Ghana and beyond

- Pilot financed by the Korea Green Growth Trust Fund (US \$500 000)
- Attached to the West Africa Food System Resilience Program
- To expand smallholder farmers' access to SAM technologies, services & info in West Africa
- Partners: ACT, AICCRA, FAO, CSIR, ECOWAS, CORAF, CNTA, TroTro & others

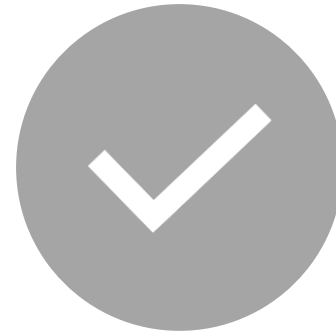


# Ghana Pilot Activities



## **Supporting a digital platform promoting SAM in Africa**

- Needs Assessment
- Platform Strategy



## **Pilot SAM bundles**

- Bundles of SAM with CSA in Ghana
- Evidence on sustainability & profitability of SAM



## **Develop a SAM Strategic Policy Document**

- SAM awareness and advocacy



## **Scale up SAM adoption in FSRP countries**

- Identifying SAM technologies for dissemination in the FSRP

# Moving Forward: Enabling Environment for Scaling Up SAM



## Inclusion

Equitable, just and socially inclusive transition to SAM



## Incentives

Repurpose agricultural support toward SAM



## Information

Capitalize on low-cost digital technologies to scale up SAM



## Investments

Private sector involvement



## Institutions

Shifting climate institutions' focus toward SAM



## Innovation

Mechanization along the entire value chain

# THANK YOU



**KOREA  
GREEN GROWTH  
TRUST FUND**



**ACT African Conservation Tillage Network**

Conservation Agriculture for Improved Livelihoods and a Better Environment



**WORLD BANK GROUP**  
Agriculture & Food



CGIAR

**AICCRA**

Accelerating Impacts of CGIAR  
Climate Research for Africa

