Inclusive Agribusiness Value Chains for Smallholders & Scaling up Climate Smart Agriculture

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Upscaling Climate Smart Agriculture:

ADB commits to $100 billion climate investment during 2019-2030

Dealing with the effects of climate change and changing to low carbon food system is our new normal.
A healthy diet is too expensive for 1.9 billion people in Asia and the Pacific, causing nutrition insecurity and hampering human capital development.

Source: FAO (2021) the State of Food Insecurity in the World
Diversification of smallholder agriculture as a driver of inclusive growth and CC adaptation

- Aggregation Vertica Integration of commercial agricultural value chains
- Diversification to high value crops
- Traceability, Certification

435 million Smallholder Farmers in Asia
Strategy 2030: Food system approach as an instrument to address biodiversity loss, climate change and food insecurity

Aligned with ADB’s Operational Priorities

Poverty | Gender | Climate Resilience and Environment | Livable Cities | Food Security and Rural Development | Governance | Regional cooperation

Food System

- Food production & input supply
- Processing and packaging
- Retail and marketing
- Consumers

Sustainable and Resilient Transformation

- Sustainable production practice
- Regenerative Farming
- Integration of smallholders with value chains
- Use of renewable biological resource
- Sustainable protein solution
- Resilient logistic and food reserve system
- Strengthening biosecurity to prevent zoonotic disease
- Access to healthy and nutritious diet
- Consumption choice based on environmental and climate footprint

Requires whole supply chain approach
Agriculture policy reforms to ensure sustainable Future

• Water and energy tariff reform to suppress rapid demand growth and encourage resource use efficiency
• Better targeting, delivery and monitoring of subsidies
• Input administrative reforms and capacity building for efficiency and resilience
Agribusiness value chain reform to half the Horticulture Postharvest Loss: Technologies + capacity building of farmers’ cooperatives + Infrastructure + Financial intermediary
Digital climate smart agriculture services for 100,000 smallholder farmers

NEW SATELLITE-BASED IRRIGATION TRACKING

Global Numerical Weather Prediction Model

Predict Current/Future Rainfall and Current/Future crop ET

Landsat Thermal Infrared: Identifies current irrigation status

Dear farmer friend, we would like to inform you that your wheat crop does not need irrigation due to sufficient rainfall during the past week.

Dear farmer friend, we would like to inform you that the irrigation need for your banana crop was 2 inches during the past week.

Red – over-irrigation by > 100%