



Agriculture Dev't



- Backbone of the Country -

- ***Job***
 - ***Income***
 - ***Food Security***
 - ***Consumer Price***
- ⇒
- ***Production***
 - ***Post Harvest/ Agro-Industry***
 - ***Food Value Chain***



***Japan International Cooperation Agency (JICA)
Chief Representative of Philippines Office
SAKAMOTO Takema (坂本威午)***

Outline

- *Overview of JICA*
- *Agriculture Sector in PH*
- *Challenges*
- *Efforts & Achievements*
- *Market-Driven Veg. Value Chain Project*
- *Message*

Overview of JICA



• **Focal of Japan's ODA**

- Technical Cooperation
(M/P, F/S, Expert, Training Participant, etc.)
- ODA Loan and
Private Sector Investment Finance
- Grants
- Emergency Disaster Relief
- Research
- Public-Private Partnerships
- Citizen Participation (Volunteers, NGOs, etc.)

• **Broad Network / Operation**

- HQs in Tokyo & 15 domestic offices
- 96 overseas offices
- Over 150 countries/regions JICA worked with

• **PH : 2nd Biggest Recipient (JFY2022)**

Mission

*JICA, in accordance with the Development Cooperation Charter, will work on **human security** and **quality growth**.*

Vision

Leading the world with trust
JICA, with its partners, will take the lead in forging bonds of trust, across the world, aspiring for a free, peaceful, and prosperous world where people can hope for a better future and explore their diverse potentials.

- Action #1: Commitment
- Action #2: “Gemba”
- Action #3: Strategy
- Action #4: Co-creation
- Action #5: Innovation

JICA in PH (Overview of JICA)



❑ **Over 5 Decades** Partnership

❑ **Largest** Development Partner of PH

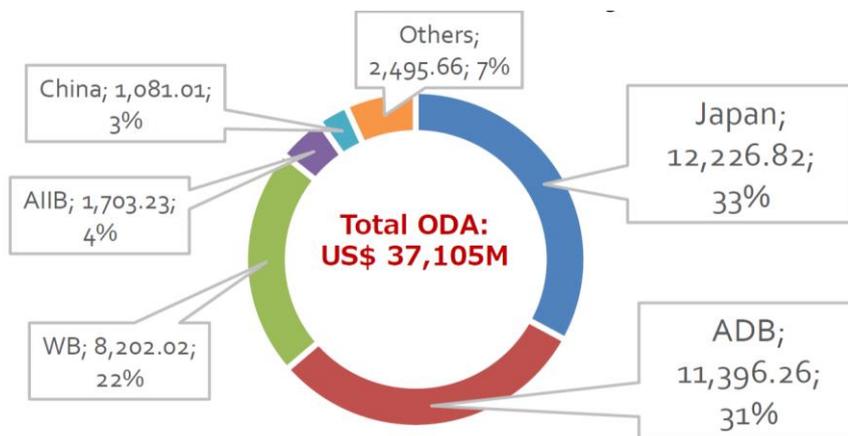
- *Financial Cooperation : over JPY 4 trillion*
- *JICA Experts : over 10 thousand*
- *GoP Trainees : over 42 thousand*
- *On-going Projects : over 100*



“a friend closer than a brother”

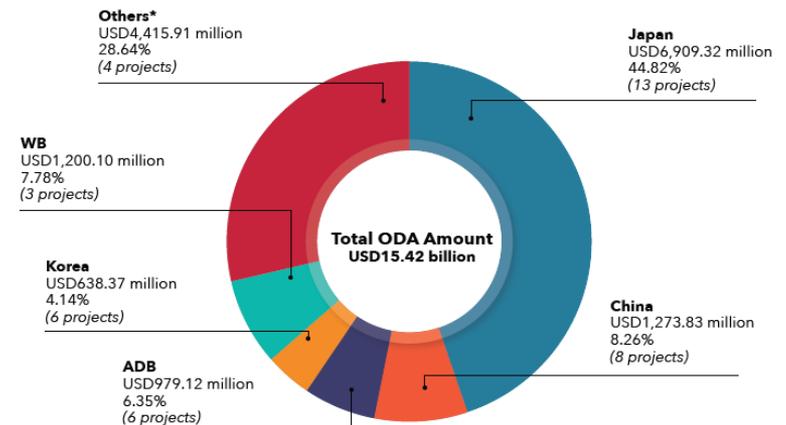
Level of ODA Commitment per DP

Source: NEDA (as of December 2023)



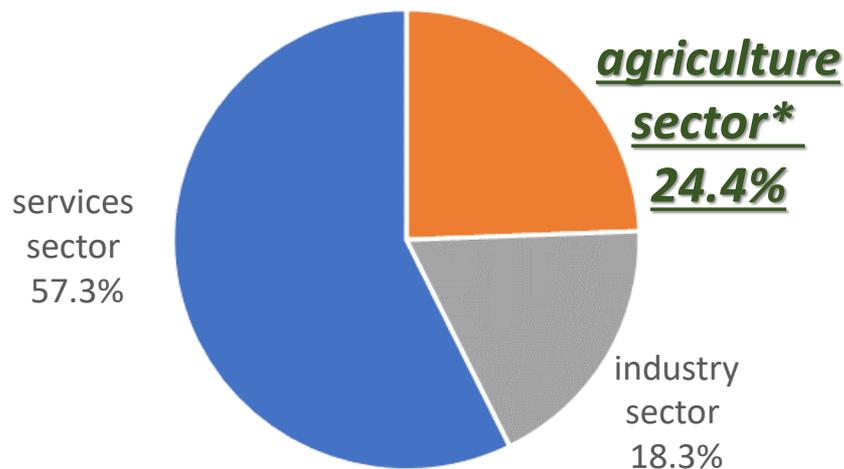
Distribution of IFPs by DP

Source: NEDA (as of December 2022)

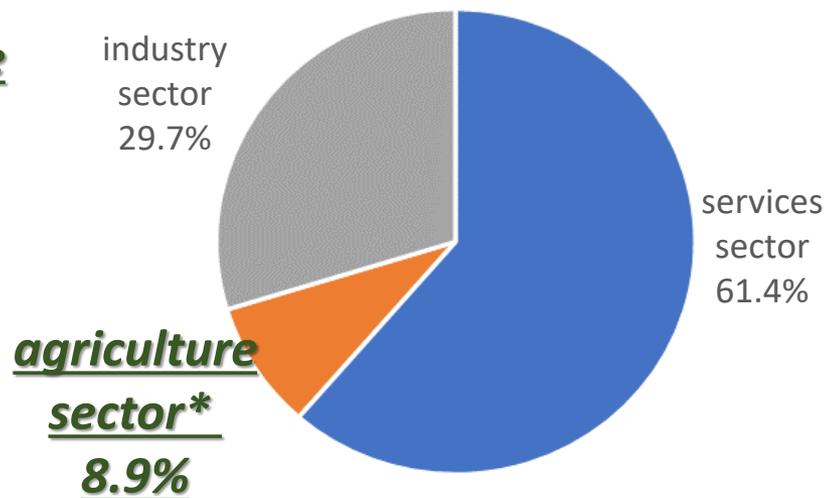


Agriculture Sector in PH

Employment Rate by Major Industry
(as of December 2023)



Share to GDP by Major Industry
(2022)



*Agriculture, forestry, and fisheries
source: Philippine Statistics Authority

- ❑ **One in Four** Employees in PH
- ❑ **GDP Share is Lower** than Employment Rate 5

Agriculture Sector in PH

Poverty Incidence for Basic Sectors in PH (2021)

Sector	Poverty (%)
Philippines	18.1
<i>Farmers</i>	<i>30.0</i>
<i>Fishermen</i>	<i>30.6</i>
Individuals in rural areas	25.7
Individuals in urban areas	11.6

Employment Rate in Agriculture

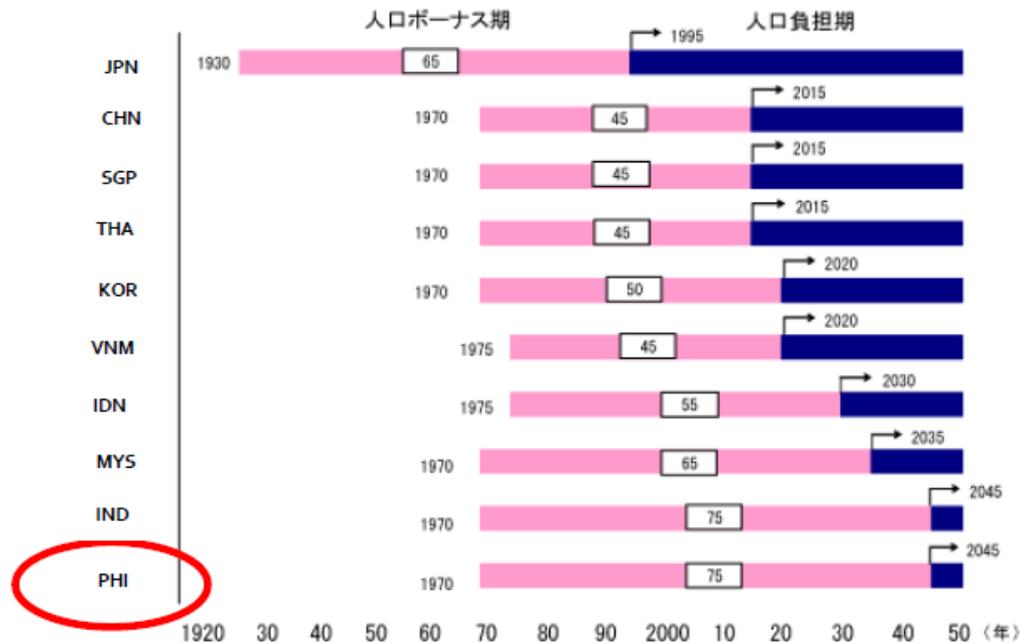
	2010	2015	2020	2023 Dec ^P
Total (in million persons)	36.04	38.74	39.38	50.52
Agriculture (in million persons)	11.96	11.29	9.75	12.32
<i>Share (%)</i>	<i>33.2</i>	<i>29.1</i>	<i>24.8</i>	<i>24.4</i>

^P Preliminary data

source: Philippine Statistics Authority

<Ref.> Demographic Dividend (Pros & Cons)

Comparison of demographic dividend periods in each country



Source: Office of the Cabinet Office for Policy Management Economy
Financial Analysis Officer of "World Economy Trend (2010)"



□ 8-Point Socioeconomic Agenda of PBBM

- (1) Purchasing Power, (2) Vulnerability, (3) Macroeconomy, (4) More Jobs,
(5) Quality Jobs, (6) Green Jobs, (7) Level Playing Field, (8) Safety/Security

Agriculture : Backbone of PH !!

- ❑ GDP Contribution Potential
- ❑ Poverty / Disparity
- ❑ **Job Creation / Income-Generation**
- ❑ **Food Security / Consumer Price**



JICA's Three Pillars in PH :

(1) Quality Growth, (2) Human Security, (3) Mindanao Peace Process



Challenges

✓ **Shortage of Production?**

✓ **Low Rate of Productivity?**

❑ Rice Self-Sufficiency Ratio

- 1970s : 100%
- 2021 : 81%

❑ Rice Import Liberalization

(Rice Tariffication Law (2019))

- Export Ban Risk?
- Logistics Cost Inflation Risk?



❑ Irrigation, Flood Management, Lifestyle, etc.

*(JICA supported **over 200,000ha** irrigation area)*

❑ Rice Productivity (2022)

Country	Rice Yield (ton/ha)
Vietnam	6.02
Indonesia	5.24
Lao	4.39
Philippines*	4.11
Malaysia	3.70
Myanmar	3.58
Cambodia	3.52
Thailand	2.99
Brunei Darussalam	2.80
Timor-Leste	2.46
Average	3.88

* **4.17** ton/ha, as of 2023

source: Food and Agriculture Organization

Challenges

- ✓ ***Efficient Logistics?***
- ✓ ***Post-harvest?***

- ❑ Minimization of ***Losses in Supply Chain***

c.f. *Paddy loss after harvest* **PH : 15%** (VN : 8%)

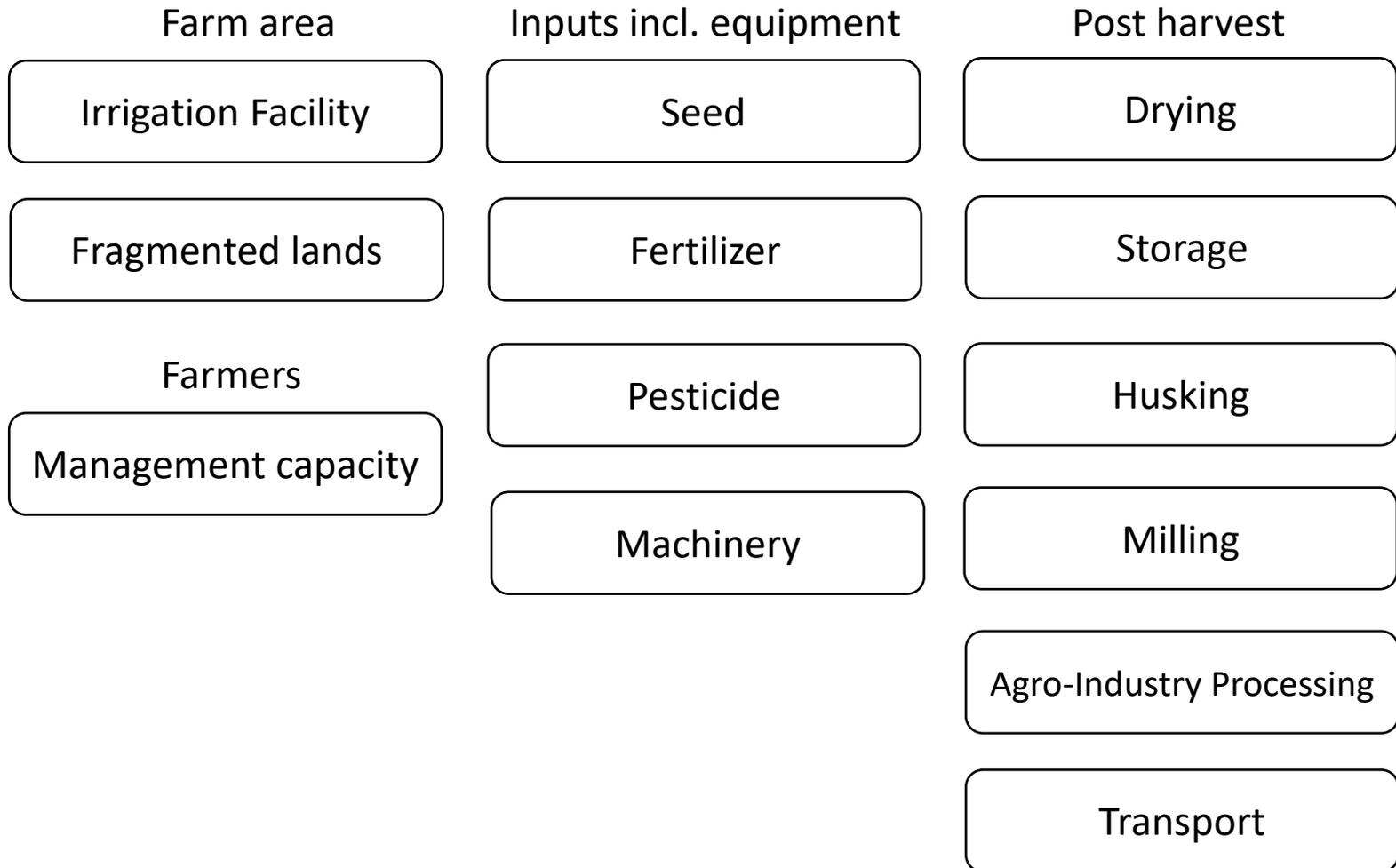
- ❑ Improvement in each ***Post Harvest*** process, such as **Drying, Storage, Husking, Milling, Processing, Distribution**, etc.



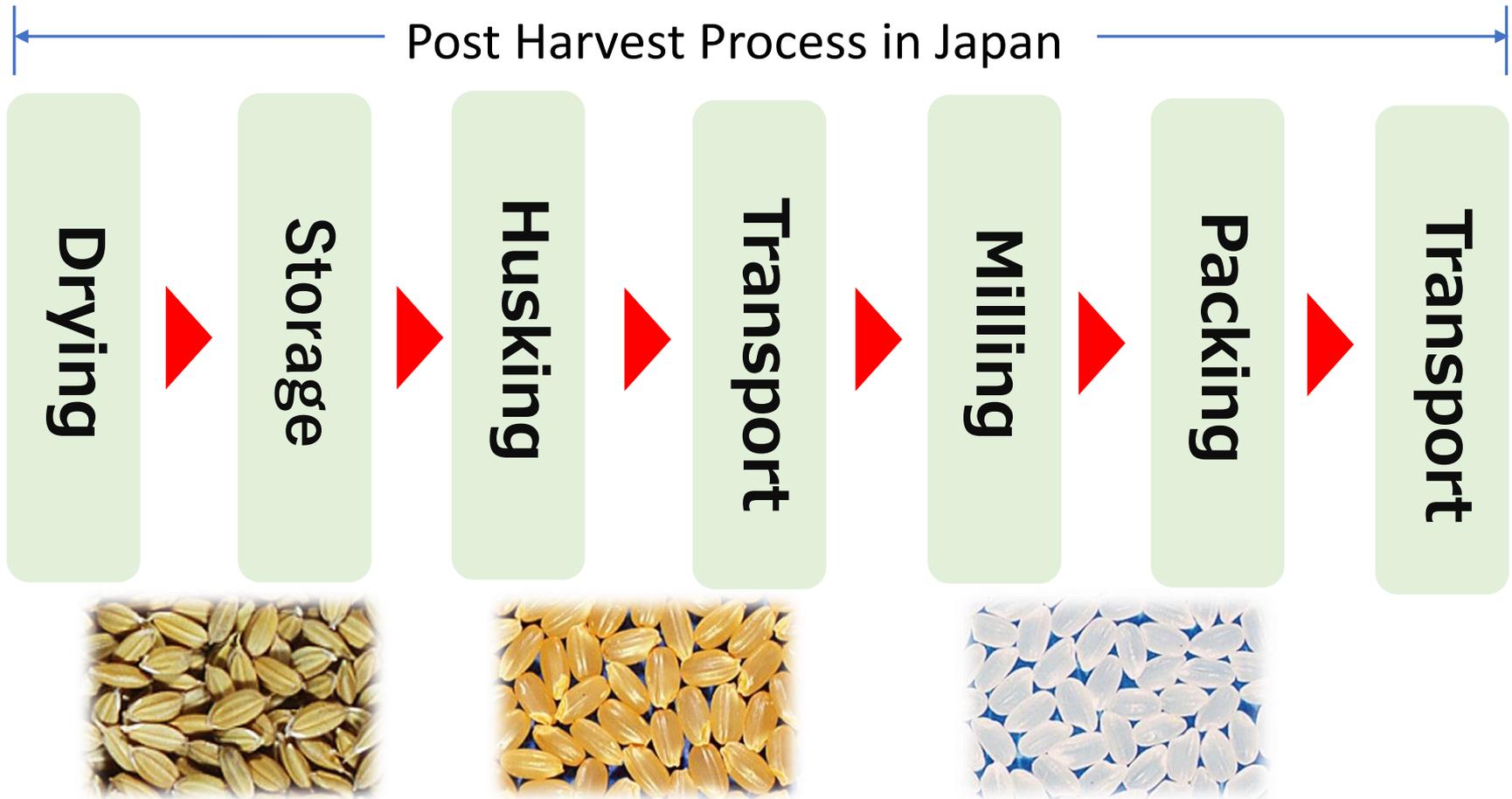
- ❑ **More Profitable and Attractive Agriculture**
to address decreasing employment rate
- ❑ **Consumer Price Down**

Challenges

✓ ***Appropriate and Sufficient in Each Stage ?*** *(Example of Rice Sector)*

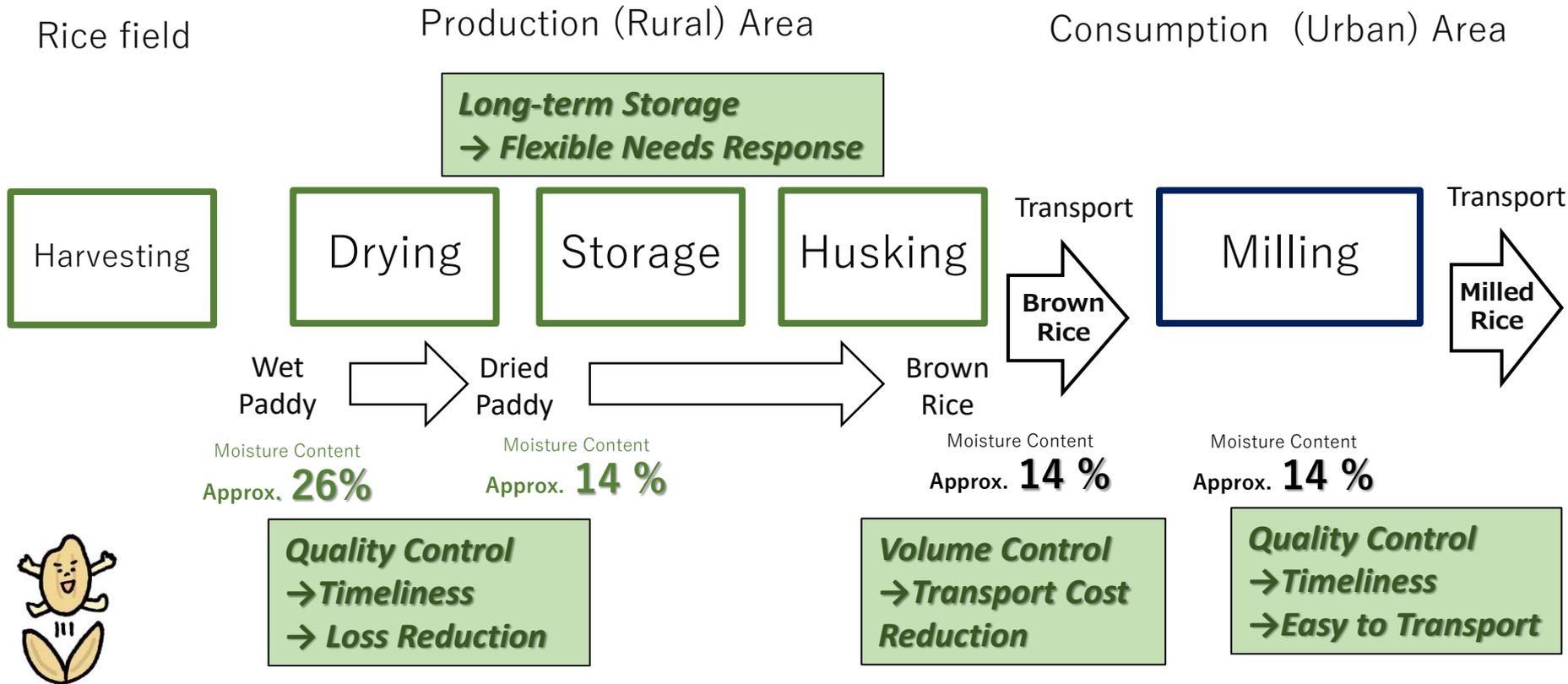


Post Harvest Process Engineering (Challenges)



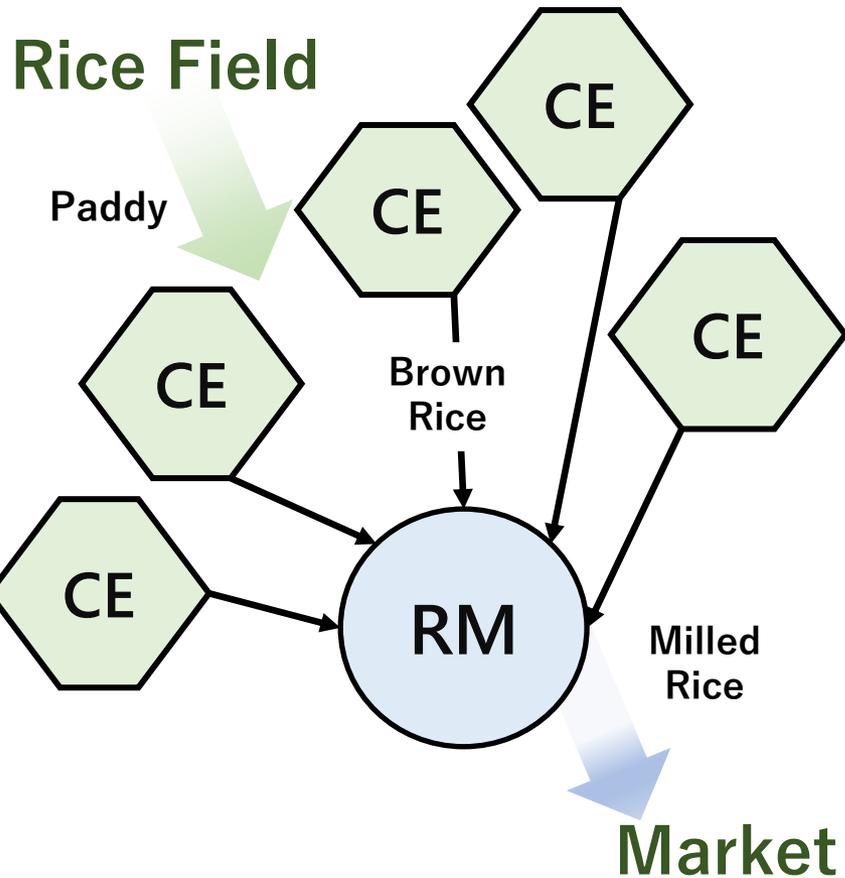
- ❑ *Modernization of Post Harvest Process Engineering (Know-How)*
 - ⇒ *Food Security / Agriculture Development*
 - ⇒ *Consumer Price Down*

Japanese System (Rice Postharvest) (Challenges)



- **Japanese Know-how** is Useful/Needed in PH
 - ⇒ **Business Opportunity**
 - ⇒ (JICA PPP Promotion Program)

<Ref.> Japanese System : “Hub and Spoke”



Country Elevator (CE)



Rice Mill (RM)

< “Hub & Spoke” concept >

Modernized Post-Harvest Process

⇒ *Process Loss Reduction &*

Logistics Cost Reduction

⇒ *Commodity Quality / Price*

PH Concept : “Hub and Spoke” (Challenges)

□ Establishment of *Rice and Corn Storage Facilities* (Mother & Daughter Stations)

- **30** Mother Stations
- **10** Daughter Stations within 30km of each Mother station



Possible Application of Japanese Technologies

NEWS RELEASE

PBBM orders DA to study proposal to set up silos ensuring the rice buffer stock

June 16, 2023
SHARE THIS STORY



NEWS RELEASE

PBBM tackles postharvest facilities, reducing agri commodity prices in Palace meeting with DA officials

January 10, 2024
SHARE THIS STORY



JICA's Efforts & Achievements (examples)

1. Rural Infrastructure

_Irrigation, Farm-to-Market Road, Post Harvest Facility, Rural Water Supply, including Improvement of O&M

2. Farming Technology & Capacity Dev

_Enhance capacity of farmers, agricultural extension workers, and technical staff of counterpart agencies through Dispatch of JICA Experts and Training Program

3. Community Development

_Institutional development of cooperatives, irrigators' associations

4. Financial Accessibility

_Agribusiness loan to cooperatives and companies, development of credit risk-based lending to cooperatives

5. Rural Industry Development

_Industry cluster approach

6. South - South Cooperation

_Development Assistance to Rice sector in Sub Sahara Africa

7. PPP Promotion Survey

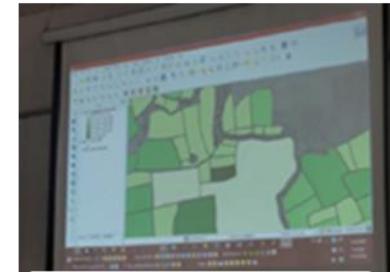
Introduction of innovative Japanese technologies/know-how



Bohol Irrigation Project



Assistance for African Rice



Establishment of Farmland GIS database



Introduction of IT system for better marketing operation



Tuna industry cluster assisted in General Santos



Business Matching Seminar in Davao

Development Issues Concerned in Agricultural Sector

- Improvement of the country's agricultural productivity and to assist in the production of high value-added agricultural products
- Increase and stabilize the farmers' income

Products/Technologies of the Company

- High-yield and high-quality garlic cultivation technology
- Black garlic processing technology

Survey Outline

- Survey Duration : Nov., 2023 ~ Oct. 2026
- Country/Area : The Philippines/Ilocos Norte Province, Metro Manila, Batanes Province
- Name of Counterpart : Mariano Marcos State University(MMSU)
- Survey Overview : To contribute to increasing the income of garlic farmers and garlic industry stakeholders in Ilocos Norte Province through dissemination, demonstration, and commercialization activities related to the value chain such as garlic cultivation, black garlic processing, and sales.



Black Garlic

How to Approach to the Development Issues

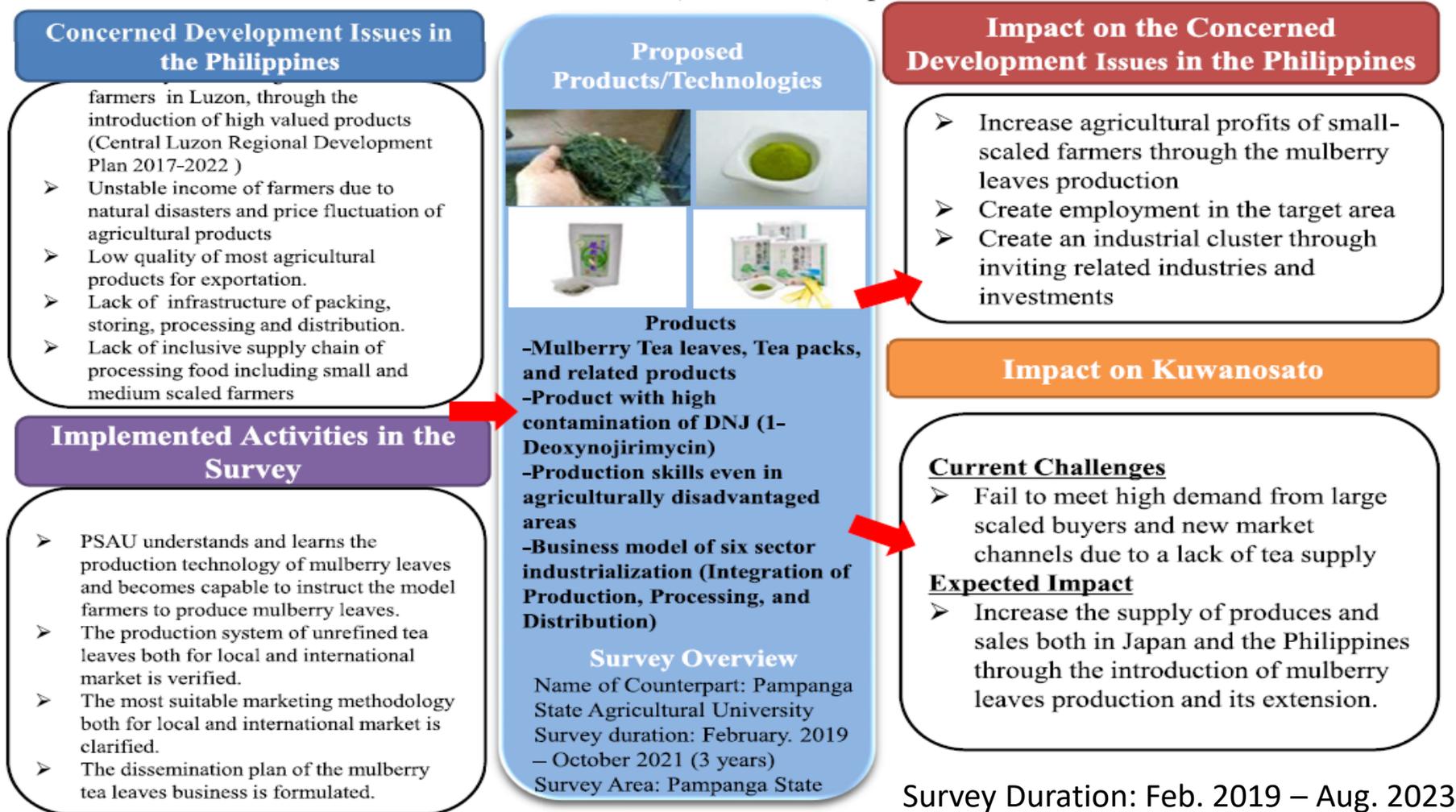
- Established a local company to process black garlic where in "MMSU-SEZI".
- Processing of black garlic which is made from a safe Philippine raw material that is large and has fewer pieces.
- Domestic sales in the Philippines and export to neighboring countries

Expected Impact in the Country

- Improvement of agricultural productivity and income of garlic farmers through high-yield, high quality and high-profit garlic cultivation
- Promote regional revitalization by creating regional specialty products as Black Garlic

As of Nov. 2023

**Verification Survey with the Private Sector for Disseminating Japanese technologies for Mulberry Tea Project
Kuwanosato Inc., Yamanashi, Japan**



Market-Driven Vegetable Value Chain Proj.

Project period: 2022 - 2028

Implementing Agency: **Department of Agriculture**

– Agribusiness and Marketing Assistance Service (DA-AMAS)

Pilot sites: **1) Benguet**
 2) Quezon
 3) Metro Manila

Two Phases of the Project:

a) Planning Phase

Japanese experts, value chain surveys and stakeholder workshops, dev't of pilot projects, etc.

b) Implementation Phase

Dev't and Promotion of Inclusive Value Chain Models (production techniques, cold chain, transportation/ packaging, collaboration with modern distribution, vegetable processing, and promotion of consumption)



Market-Driven Vegetable Value Chain Proj.

ON-GOING

UPCOMING

Use of high-quality seedlings



Optimized greenhouse cultivation



Humidifying refrigeration system



Pre-cooling system



Plastic crates during transport



Link with modern retailers, e.g. e-commerce



Promotion of vegetable consumption

Development and Dissemination of Inclusive FVC Models

Modified shipment timing, efficient logistics, and modern distribution

Strengthened vegetable value chain

Message

- Job
 - Income
 - Food Security
 - Consumer Price
- ⇒
- Production
 - Post Harvest/ Agro-Industry
 - Food Value Chain

“Masaganang Agrikultura, Maunlad na Ekonomiya”
(“Prosperous Agriculture, Progressive Economy”)

- a) To Modernize **Every Stage or Node** of Value Chain
in addition to ***Production Enhancement***
- b) To Spread **Ideal Value Chain**
- c) To Innovate with **Private Sector** (fm JPN)
for Machinery/Equipment, Cultivation, Logistics, Marketing
with ***Gigantic Business Opportunities***
- d) To Note **Healthy Lifestyles & Diverse Diet**

JICA Collaborates with DA as a focal of GOP.



DEPARTMENT OF AGRICULTURE

Elliptical Road, Diliman, Quezon City

+63 (2) 8928-8741 to 64 and +63 (2) 8273-2474



Masaganang Agrikultura, Maunlad na Ekonomiya!

Our goal is to modernize Philippine agriculture to spread benefits across the entire value chain. Farmers and fisherfolk should get fair value for their produce, prices of goods should be affordable, while traders, processors and retailers should be able to generate reasonable profits.

- Secretary Francisco Tiu Laurel, Jr.

Maraming Salamat Po!

ご清聴、有難う御座いました！

JICA PP Presentation Materials



JICA PP Press Releases



JICA Philippines Office

40th Floor, Yuchengco Tower, RCBC Plaza 6819 Ayala Avenue,
Makati City, Philippines

Tel: (63-2) 8889-7119

E-mail: pp_oso_rep@jica.go.jp