### COMMENTS FROM DEVELOPMENT PERSPECTIVE

# REDEFINING FOOD SECURITY IN THE ASIA-PACIFIC INTEGRATING FOOD SECURITY WITH CLIMATE CHANGE AND DEVELOPMENT

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INTERNATIONAL STUDIES

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### SELF-INTRDUCTION

- Professor, Meiji Univ., School of Business Administration
- Japan International Cooperation Agency, Senior Advisor on Water Resources Management and Disaster Management
- 2018- Visiting Professor, The University of Tokyo
- Ministry of land, Infrastructure, Transport and Tourism as engineer for 17 yrs
- World Bank, Asian Development Bank

Learning from megadisaster: Lessons from the Great East Japan earthquake, The Word Bank

Climate and Fragility Risks in Development Sectors, United Nations University









### KEY COMMENT

New concept is aligned with development approach

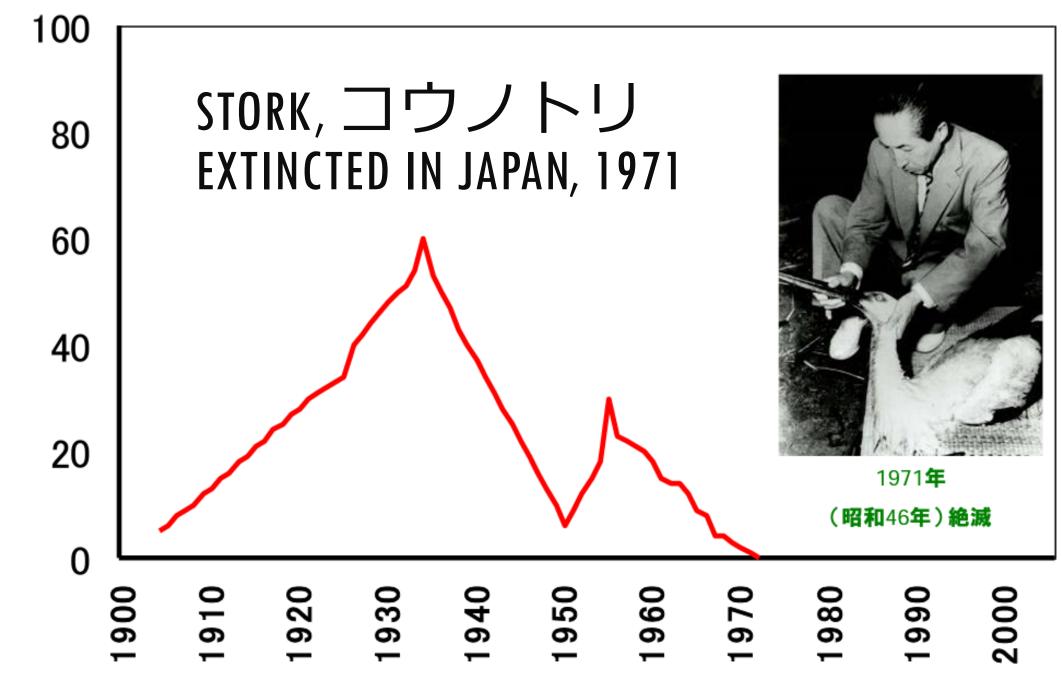
"quality growth" toward sustainability, resilience, and inclusive



- 1. CASES IN TOYOOKA: RESILIENCE, SUSTAINABILITY, COMMUNITY DEVELOPMENT, AND FOOD
- 2. EXAMINATION FROM JAPANESE DEVELOPMENT COOPERATION CHARTER, "QUALITY GROWTH"
- 3. LINKAGE WITH GLOBAL AGENDA, CLIMATE, BIODIVERSITY, RESILIENCE







### **REVIVING STORK**

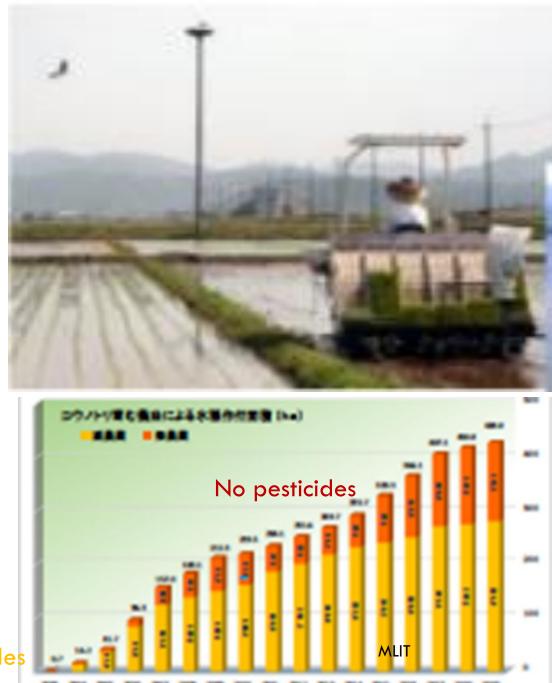
From 2005, currently over 200 birds

providing living place for assemblage of plants and animals

Biotope 13ha paddy fields

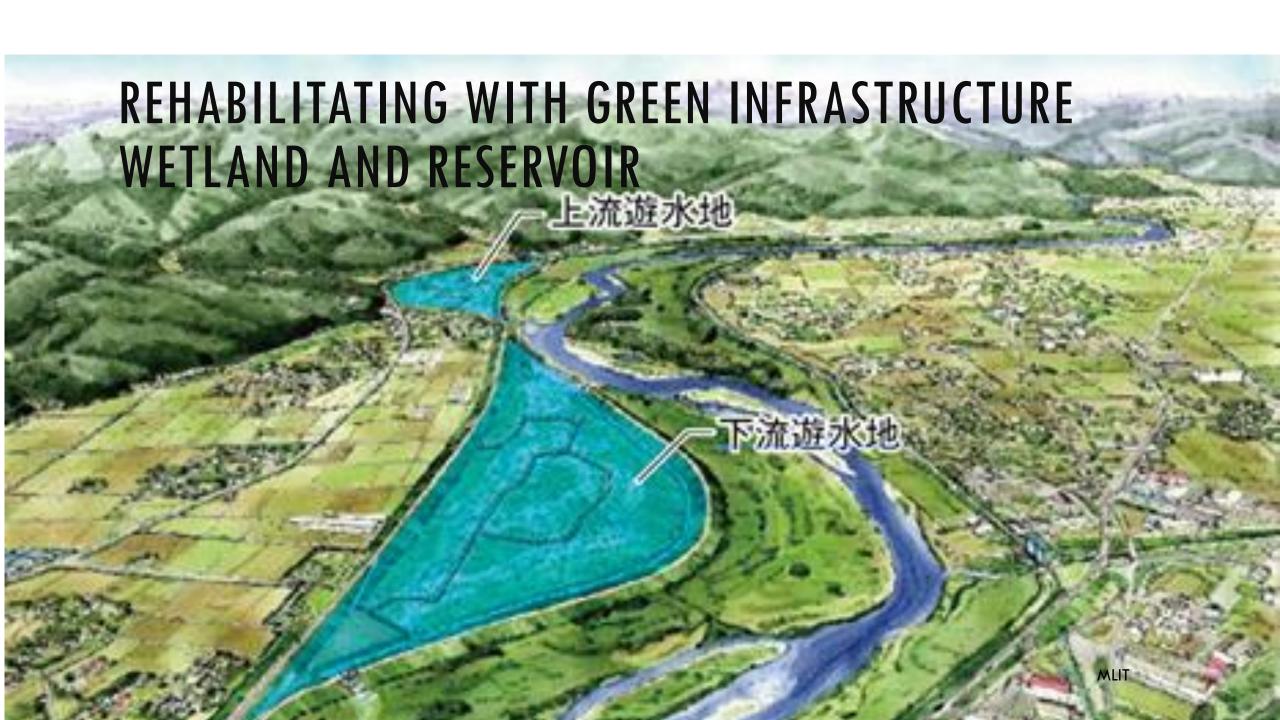


- ✓ to promote regeneration of paddy fields, feeding ground for storks
- ✓ established "Stork Nurturing Farming Method" to grow safe and secure rice with less pesticides
- ✓ area planted in 2019 428 ha, expanding to 14.5% of total arable land



# B FLOOD PROTECTION MARUYAMAGAWA RIVER, FLOODED 2004





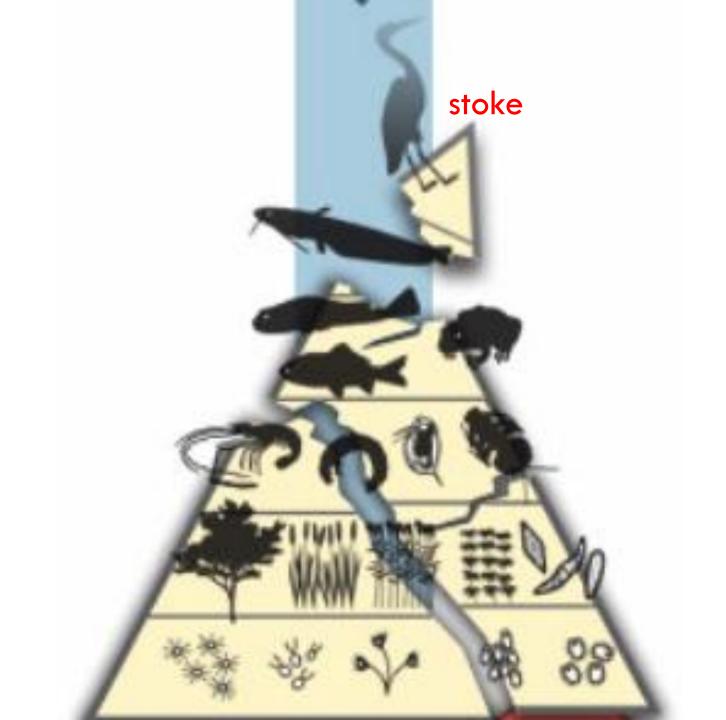






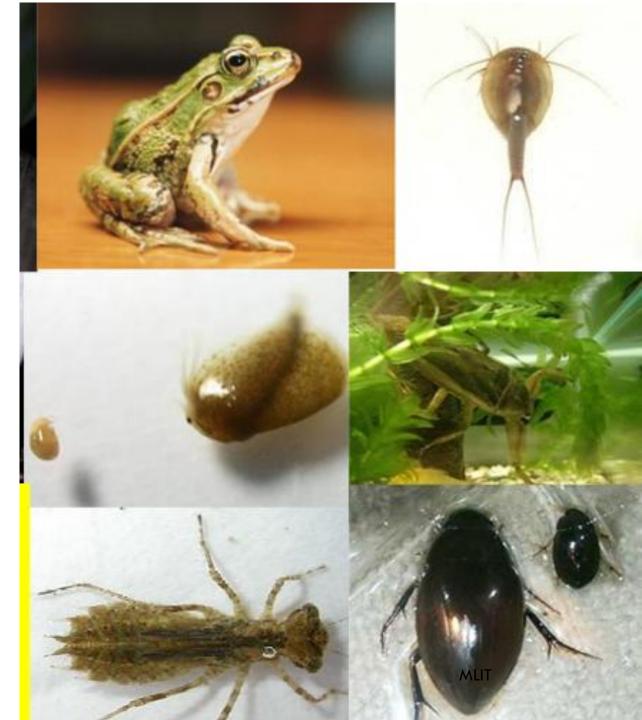


# C. RESTORING ECOSYSTEM



### INCREASING SPECIES

Improving ecosystem for Stoke



### D. AFFECTING LOCAL ECONOMY STORK NATURAL RICE コウノトリ育むお米

- √ Stork Natural Rice
- √ exported to six countries and regions, including Hong Kong and Singapore.







- to work together with developing countries
- to address <u>development challenges</u> and <u>global issues</u> common to all humankind based on equal partnerships, and
- to contribute even more proactively to the formation of a <u>peaceful</u>, <u>stable</u>, <u>and prosperous</u> international community under a <u>free and</u> <u>open</u> international order based on the rule of law.

### ALIGN WITH JAPAN'S "QUALITY GROWTH" CONCEPT

sustainability

resilience

farmers' agency

sustainability

resilience

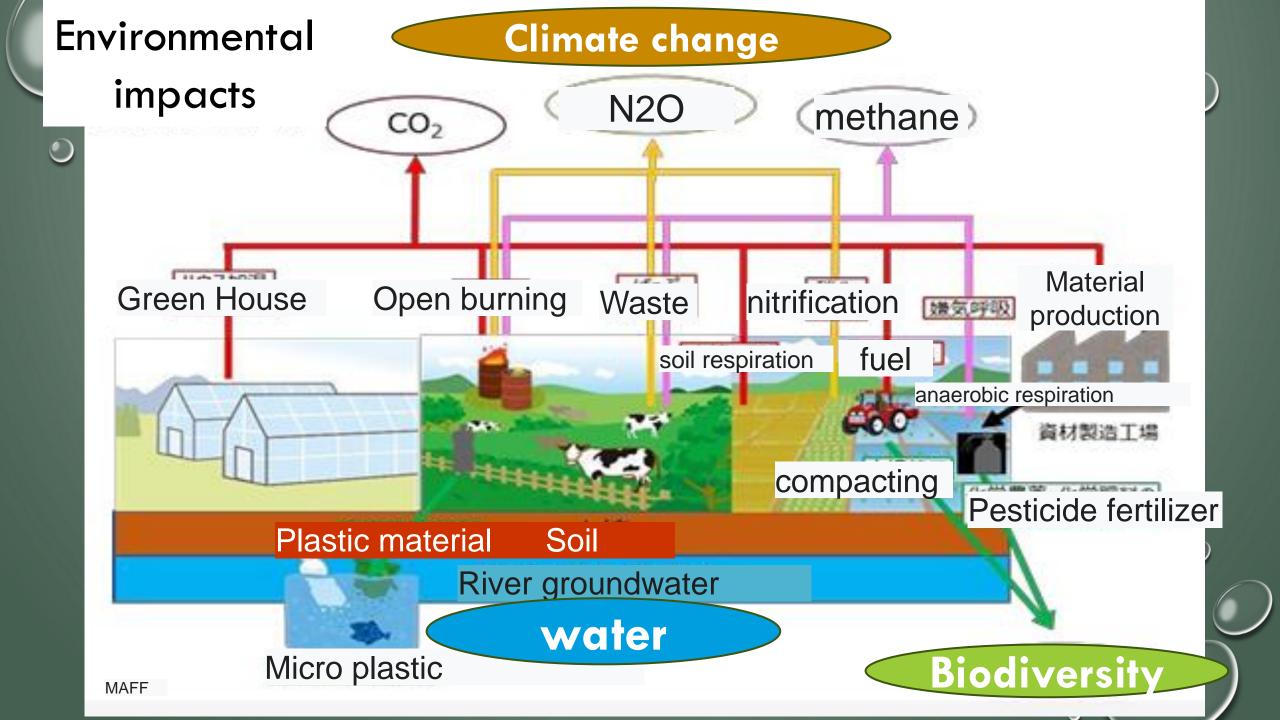
Inclusive



### A. SUSTAINABILITY

#### Charter

Japan's commitment to "harmony among economy, society, and the environment across generations."





Agriculture, Forestry, and Other Land Use (AFOLU)

周業
(Agriculture)
62億t
(11.9%)

林業とその他
土地利用(FOLU)
58億t
(11.1%)

人類の活動に由来するCO2排出量 約**520億t-CO<sub>2</sub>/年** (2007-16年平均)

# A-2 BIODIVERSITY CONVENTION ON BIOLOGICAL DIVERSITY (CBD) GLOBAL BIODIVERSITY FRAMEWORK (GBF)

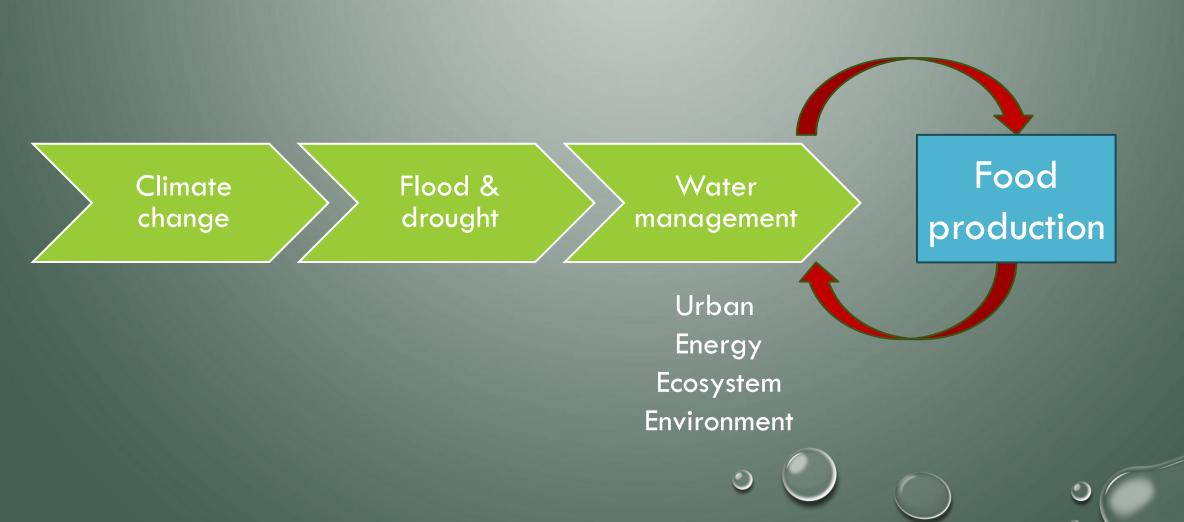
### threat to biodiversity

Reduce pollution (pesticides and fertilizers)

### contributor to conservation

agriculture, aquaculture, and forestry sustainably managed
Restore degraded ecosystems
Conserve terrestrial and marine areas

### A-3 FOOD SECURITY AND WATER SECURITY





### B. RESILIENCE

Charter highlights "withstand and recover from various shocks, including natural disasters and economic crises."

## PADDY FIELDS AS RESERVOIR

Japanese approach to climate change adaptation

"river basin disaster resilience and sustainability by all"





### C. FARMER'S AGENCY INCISIVE

CHARTER

inclusive growth

"in which the fruits of growth are shared within society as a whole, leaving no one behind."



### SUMMARY



### SUGGESTION

### STRENGTHEN POLICY RECOMMENDATIONS

- investment, science and technology: sustainability, resilience
- governance: farmer's agency or inclusiveness



### KEY COMMENT

New concept is aligned with development approach "quality growth"

toward sustainability, resilience, and inclusive society

