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Contribution by Japan

to the CSTD 2022-2023 priority theme on “Technology and innovation for cleaner and more productive and competitive production”

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“MeaDRI,” the medium-long term strategy will pave the way for the future.

- Enhancing engagement of stakeholders at each stage of food supply chains
- Promoting innovation to reduce environmental load

By 2050, MAFF aims to achieve:

- **Zero CO2 emission** from the agriculture, forestry and fisheries sectors
- **50% reduction in risk-weighted use of chemical pesticides** by dissemination of the Integrated Pest Management and newly-developed alternatives
- **30% reduction in chemical fertilizer use**
- **Increase in organic farming to 1Mha** (equivalent to 25% of farmland)
- **At least 30% enhancement in productivity of food manufacturers** (by 2030)
- **Sustainable sourcing for import materials** (by 2030)
- **90% and more superior varieties and F1 plus trees** in forestry seedling
- **100% of artificial seedling rates** in aquaculture of **Japanese eel, Pacific bluefin tuna**, etc.

which will be enabled through:
- development and dissemination of innovative technologies
- greening of MAFF’s policy tools

MAFF endeavors to accomplish the triple win of;

**Economic sustainability**
Ensure robust and resilient food industry

**Social sustainability**
Improve livelihood, promote balanced diet

**Environmental sustainability**
Save global environment for the future generation
MeaDRI’s Conceptual Approach

Following viewpoints are required to transform our food systems. Awareness, efforts and behavioral changes of stakeholders as well as promising technologies are the keys to success.

**Inputs**
- (1) Sustainable sourcing of materials/energy
- (2) Effective use of local and/or unused materials
- (3) R&Ds for reuse/recycle of resources

**Production**
- (1) Sustainable production with high productivity
- (2) Greener production materials/machineries
- (3) Development of “Super” plant varieties with less environmental impact
- (4) Long-term, massive carbon sequestration into farmlands, forests and oceans
- (5) Safer working environment, more new entrants
- (6) Responsible fisheries resource management

**Consumption**
- (1) Sustainable consumption with less food loss and waste
- (2) Bridging consumers and producers
- (3) Japanese diet as a balanced model
- (4) “Woodening” the life
- (5) Sustainable marine products and their dissemination

**Processing and distribution**
- (1) Switching to sustainable import materials, encourage private initiatives
- (2) Efficiency based on data science and AI
- (3) Packaging materials for longer haul/long-term preservation
- (4) Competitive food industry with decarbonized, environmentally friendly, health conscious products

For more:
- Create jobs
- Improved livelihood
- Balanced diet

Reduce environmental load

Innovation makes them happen

Cut-off unreasonable and wasteful practices