Measures for achievement of Decarbonization and Resilience with Innovation (MeaDRI)

~ Innovation will enhance potentials and ensure sustainability in a compatible manner ~

“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

Challenges

- Depopulation and aging of producers
- Stagnant rural communities
- Climate change and increasing natural disasters
- Disrupted supply chains due to the COVID-19
- Achievement of SDGs

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
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

**Reduce environmental load**

- Sustainable production with high productivity
- Greener production materials/machineries
- Development of “Super” plant varieties with less environmental impact
- Long-term, massive carbon sequestration into farmlands, forests and oceans
- Safer working environment, more new entrants
- 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

**Education can be an effective channel**

- Create jobs
- Improved livelihood
- Balanced diet

**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

**Outputs**

**Innovation makes them happen**

- Smart food value chains
- Human development
- Rural generated innovation

**Cut-off unreasonable and wasteful practices**

- For more