NARO, aiming to make valuable contributions to society

Japan’s agricultural sector is currently facing many challenges that need to be addressed immediately, such as the shortage of workers, aging of farmers, improvement of productivity, and drastic reduction of the number of farmers. To face these challenges, we are pursuing research initiatives to support agriculture as a sustainable industry towards the goal of “providing a stable supply of safe, reliable and high-quality agricultural and food products” and “contributing in the government’s economic growth policy.”

We prioritize on 6 research areas in agriculture and food production in accordance with the “5th Science, Technology and Innovation Framework Plan: Priority Areas of Science, Technology and Innovation.” These areas include:

1. Development of advanced technologies for agricultural and food production that contribute to high productivity and sustainability
2. Development of advanced breeding systems and stimulus programs for regional development
3. Development of advanced technologies for agricultural and food production that contribute to high productivity and sustainability
4. Development of advanced breeds and varieties for food production
5. Development of essential agricultural knowledge and technologies (environmental data, gene bank, soil data, etc.)
6. Development of advanced breeds and varieties for food production

Furthermore, we will also prioritize on optimal allocation of research budget and human resources, promotion of intersectoral cooperation, and international collaborations for solving domestic and global food-related issues. We are also promoting inter-university collaboration and internationalization, intensification of public relations activities, and diversification of human resources.

As a leader in the field of agricultural and food research, NARO continues to play a central role in these efforts. In the future, NARO will continue to work hard to ensure the sustainable development of the agricultural sector and contribute to the social welfare and economic growth of Japan.

NARO’s Strategy for the Future

- NARO is committed to the development of innovative technologies that can solve current agricultural issues and contribute to sustainable development.
- The organization is focusing on the integration of research fields and enhancing the role of interdisciplinary research.
- NARO is also investing in human resource development and international collaborations to ensure a sustainable future for agriculture.

Duties of the Center for Seeds and Seedlings

1. Grewing test of agricultural crops for variety registration
2. Seed inspection of agricultural crops
3. Production and distribution of potatoes and sugarcane foundation seeds
4. Research and development of potatoes and sugarcane production techniques
5. Production and distribution of potatoes and sugarcane foundation seeds
6. Research and development of potatoes and sugarcane production techniques

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Main Achievements

- Development of the Farm Station Biotechnology Aquaculture System (FBAS), a new water control system that integrates farming with aquaculture, to improve the yield and quality of many upland crops.

- Sustainable breeding management that minimizes the use of farmland herbicides and contributes to sustainable production through the effective use of natural resources.

- A low-cost production system of ear corn silage for livestock, which is expected to facilitate efficient utilization of land resources.

- Research on animal diseases and crop pests which constitute a threat to domestic industry and public health.

- Development of high-quality and healthy foods and ensuring the safety and reliability of food production.

- Research to mainstream sustainable agriculture in harmony with nature.

- Research to address global issues such as climate change as an initiative for agriculture of the future.

- Resolution of environmental issues and sustainable use of local resources.

Overview of Research

With a moderate climate, abundant water resources, fertile land, beautiful rural landscape, Japan has the potential to be a "food bowl of the world." Japan's agricultural productivity is currently low compared to that of other countries, partly because of the small quantity of land available for farming. However, it is important to develop a sustainable agriculture for adaptation to climate change and other environmental problems.

- Research on establishing high-yielding pasture yield farming, upland farming, etc., in accordance with the local climate and conditions in various regions.

- Research on applying robotics, Information and Communication Technology (ICT) to develop innovative agricultural production systems and traditional tea plantations for the benefit of local communities.

- Research on developing and implementing technological livestock production and cattle-breeding systems in accordance with the specific conditions of each region.

- Research on animal diseases and crop pests which constitute a threat to domestic industry and public health.

- Development of high-quality and healthy foods and ensuring the safety and reliability of food production.

- Research to mainstream sustainable agriculture in harmony with nature.

- Research to address global issues such as climate change as an initiative for agriculture of the future.

- Resolution of environmental issues and sustainable use of local resources.

Main Achievements

- Development of new varieties and agricultural products towards realization of a strong agriculture and innovation industries.

- Strengthening the capability of agricultural production and farm management.

- Producing high-quality and healthy foods and ensuring the safety and reliability of food production.

- Resolution of environmental issues and sustainable use of local resources.