EXPECTATIONS FOR THE RESEARCHERS TOWARD AGRICULTURAL DEVELOPMENT

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ABSTRACT

To promote social and economic development, technological innovation and extension are essential. In developing countries, they are particularly important in agricultural sectors as most of those countries are mainly dependent on agriculture. Japan is expected to make contributions in this area, taking its technological advantage, so that the developing countries themselves will have sufficient capacity and proper ownership in promoting research and extension activities.

The Millennium Development Goals (2000) announced the will of international society to halve the population in hunger and poverty by 2015. The actual situations in developing countries endorse the increasing importance of technical cooperation in agricultural development. In working for this area, it is necessary to monitor continuously whether the supports have made effective contribution to the issues and problems in the recipient countries.

To promote Japan's international cooperation, those who are engaged in the agricultural research are expected to make further contributions by:

- conducting domestic research activities that may provide benefits to the developing countries;
- participating in research projects in developing countries to establish/strengthen their research systems and to achieve the specific research goals; and,
- participating in projects and other cooperation schemes in developing countries of more applied and/ or practical natures to address the various problems on sites.

These efforts should be made on a demand-driven basis instead of supply-driven, with proper consideration of the development stages and needed levels of technologies. Also, the attentions should be paid to the emerging "programme-approaches", in which synergy effects are expected from linkages between various development tools and schemes. For example, the possibility of collaboration should be pursued among mutually-related projects and/or international organizations on agricultural research.

This speech will review Japan's research-related cooperation in the past and present with some specific cases, and examine:

- how researchers have been involved in development efforts;
- what organizational linkages have functioned well;
- how researchers' experiences have been accumulated in terms of development activities; and,
- what are the characters and abilities of researchers expected from development society.

Also, the speech will introduce the recent efforts and future directions of JICA's cooperation, as well as the expectations for the researchers in this regard.

KEYWORDS

agricultural research, developing countries, ownership, demand-driven, organizational collaboration

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Expectations for the Researchers toward Agricultural Development

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Japan's Development Efforts(2)

- Sustainable and self-reliant development of developing countries
- ← Improve their own capacity to solve problems Sharing of knowledge and experiences between
- developing countries and Japan
- Capacity development through on-site collaborative activities
- (advantage different from general budget support)
- Competence in technology
- Roles of research to provide appropriate technology



Research Cooperation

Goal is ...

contribution to actual development

- Beyond mere collaborative research
- Promote appropriate technologies
- Linked with extension activities
- Build capacity to enable self-sustained development



- Participatory approach, human security
- Africa, Peace-building
- Contributions to global issues









Points to be noted for Agricultural Research Cooperation

- Effective linkages among relevant organizations
 research institutes / development agencies
 national / international
- 2. Human resource development for research cooperation
- 3. Ensured directions toward real needs

1. Organizational Linkages National entities

- Ministries
 - Research institutes and universities
 - Implementation agencies for development cooperation
- International entities
 - International research institutes (CGIAR)
- Bilateral efforts with developed countries
 Inter-governmental agreement, arrangement, etc.
- Bilateral efforts with developing countries
 - Collaboration among research institutes
 - Development cooperation







Considerations on Organizational Linkages

- Various linkages have been observed and functioning
- Further efforts to strengthen organizational linkages
- Regional balance should be reconsidered
- Emerging efforts toward official linkages rather than individual



- Units for coordination in universities and research institutes
- Emerging roles of university for consultancy









Recent Efforts by JICA

- Enhance strategic approach
- Ensure proper consideration of needed levels
- Re-recognize importance of technology
- Address both Micro and Macro (from community issues to global issues)
- Strengthen relationship with universities Consultancy
 - List of potential appropriate technologies

List of potential Appr. Technologies & Collaboration with University

Issues

- Potential appropriate technologies in research target in universities, applicable in developing countries
- Potential human resources in universities
- Actions
 - Broad reviews on candidates for potential appropriate technologies through available network
 - On-site demonstrative applications
- Examples
 - Double-sack technology for dry-land
 - Push-pull technology for plant protection





- Solid basis of expertise in experts
- Strong supports through network (from individuals to institutions)
- Rare negative impacts from political shift
- Positive recognitions for researchers' attitudes specially for on-site collaborative work



improvement of perception and social systems

