



“RESEARCH FOR SUSTAINABLE AGRICULTURAL DEVELOPMENT IN CAMBODIA”

An Experience and Knowledge Sharing:

CARDI PLANT BREEDING PROGRAMME & VARIETY PROTECTION PERSPECTIVE



Planning & Business Cooperation Office

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1. Vision

- ❖ Research for sustainable agricultural development in the agrarian society of Cambodia



2. Mission

- ❖ Increase agricultural productivity and improve major crop diversification by ensuring environmental sustainability and stability of agrarian economic growth



3. Strategic Goal

- ❖ Develop and scale up the adoption of improved/advanced technology to support the agricultural sector's growth



4. Strategic Objectives

- ❖ Accelerating the conservation and the utilization of plant genetic resources for food and agriculture with the sustainable manners



4. Strategic Objectives

- ❖ Developing and delivering improved/advanced technology to increase crop productivity and quality driven by the safety and marketing demand



4. Strategic Objectives

- ❖ Improving equitable accesses to developed technologies for promoting the utilization of research/agricultural technical knowledge



4. Strategic Objectives

- ❖ Generating skillful practitioners and workforces for agricultural research, extension and production



5. Strategic R&D Activities

- ❖ **Agricultural Engineering:**
Research on agricultural engineering technology for pre and/or post harvest management and develop agricultural tools suitable to agro-ecosystem and economic situation



5. Strategic R&D Activities

- ❖ **Agronomy and Farming System:**
Develop technology package for rice-based crop production with sound environment and economic value



5. Strategic R&D Activities

- ❖ **Plant Breeding: Manage plant genetic resources and develop crop varieties suitable to growing conditions responding to utilization and market demand**



5. Strategic R&D Activities

- ❖ **Plant Protection: Research and develop technology for agricultural crop protection with a sustainable manner to manage pest components**



5. Strategic R&D Activities

- ❖ **Soil and Water Science:**
Research and develop soil management technology, irrigated water and nutrition for agricultural crop with sustainability and effective economic value



5. Strategic R&D Activities

- ❖ **Socio-Economic Science:**
Evaluate CARDI's technology wide adoption and her effectiveness in the rainfed lowland and upland of Cambodia



5. Strategic R&D Activities

- ❖ Training & Information Technology: Develop skillful human resources through training, publication and information technology



5. Strategic R&D Activities

❖ Other:

a. Enhance seed production and its utilization of newly released crop/plant varieties



5. Strategic R&D Activities

❖ Other:

b. Promote the utilization of newly released technology through the mechanism of agricultural contracted farm and market development



5. Strategic R&D Activities

❖ Other:

c. Increase the effectiveness of research leadership, accounting and finance management system



6. Approaches in Plant Breeding

- ❖ Collection & Conservation of plant genetic materials/landraces for food and agriculture
- ❖ Development & Improvement of crop varieties, abiotic and biotic stresses: submergence, drought/heat, allelopathy, Akali Saline, BPH, BLB, RB,...



6. Approaches in Plant Breeding

- ❖ Submission of Promised Varieties for Releasing, c/o: Varietal Recommendation Committee of Cambodia
- ❖ Maintain Genetically Purity of Released Crop Varieties



7. Newly Released Varieties

- ❖ Listing for Public Goodwill/Wellbeing, c/o: MAFF
- ❖ Listing for Patent, c/o: MISTI
- ❖ Listing for Seed Business, Mixture of MAFF & MISTI



“CARDI TECHNOLOGY PROGRESSES MY OUTPUTS!”



THANK YOU!