



5th Steering Committee meeting
Coalition for African Rice Development (CARD)

Freetown, Sierra Leone
23-24 February 2011

Updated Activities of JIRCAS

Japan International Research Center for Agricultural
Sciences

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Research Strategy Office
JIRCAS

Japanese unique agricultural policy

The basic Law on Food, Agriculture and Rural Areas (1999)

Article 20 defines the effort of government to secure world stable food supply.

Basic idea behind

“National food security cannot be achieved without regional and global food security.”

- JIRCAS is the sole national institute that undertakes comprehensive research on agriculture, forestry and fisheries technology in developing areas of tropical and subtropical regions
- It aims at providing solutions to international food supply and environmental problems through technology development; and collects, analyzes and publishes information to grasp trends relevant to international agriculture, forestry and fisheries as well as farming systems, through international collaboration and cooperation.

Organization

President

Vice-President — |

Research Strategy Office — |

Executive Advisor & Auditor — |

— Research Planning and Coordination Division

— Administration Division

— Audit Office

— Rural Development Planning Division

— Development Research Division

— Biological Resources Division

— Crop Production and Environment Division

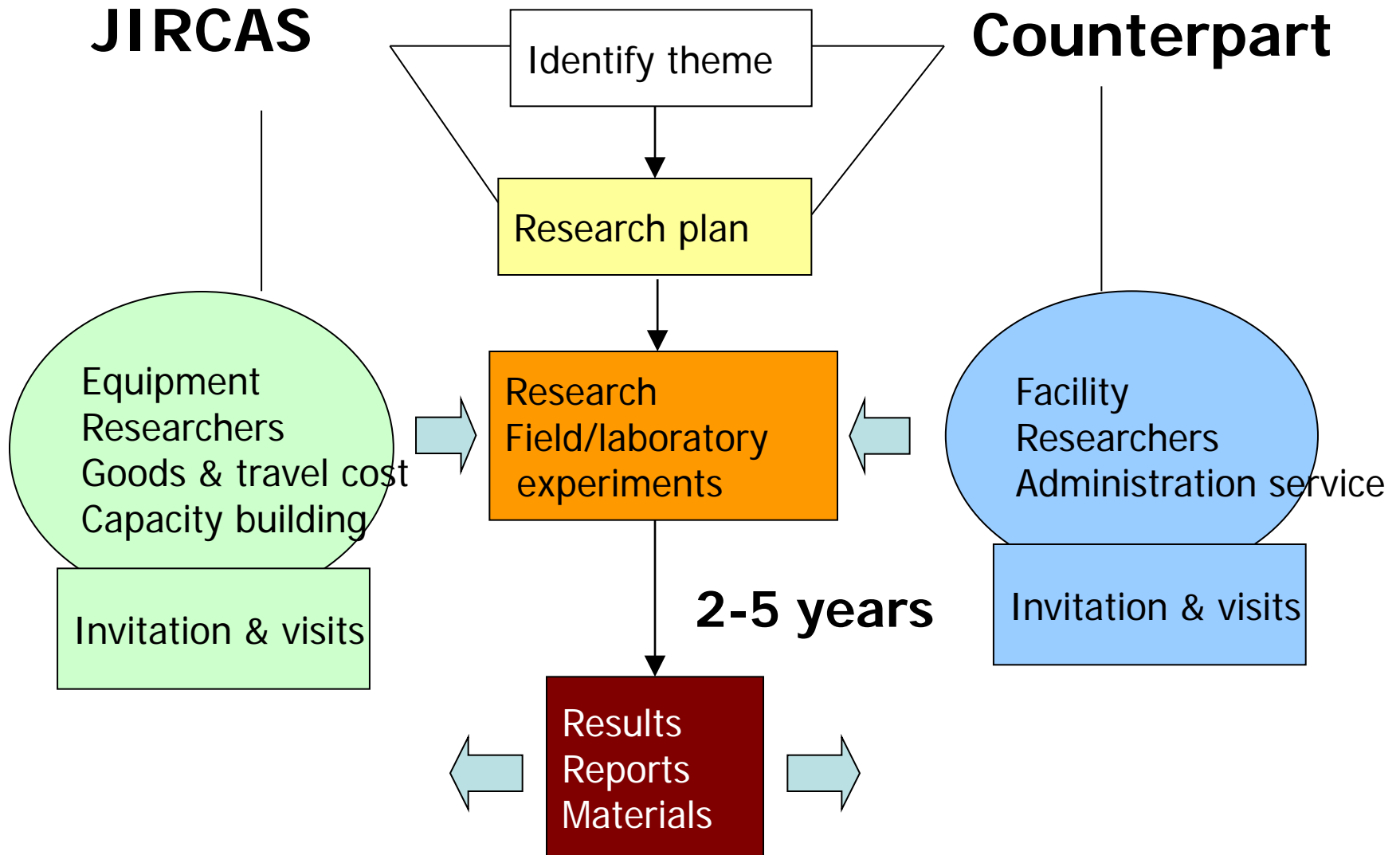
— Animal Production and Grassland Division

— Post-harvest Science and Technology Division

— Forestry Division

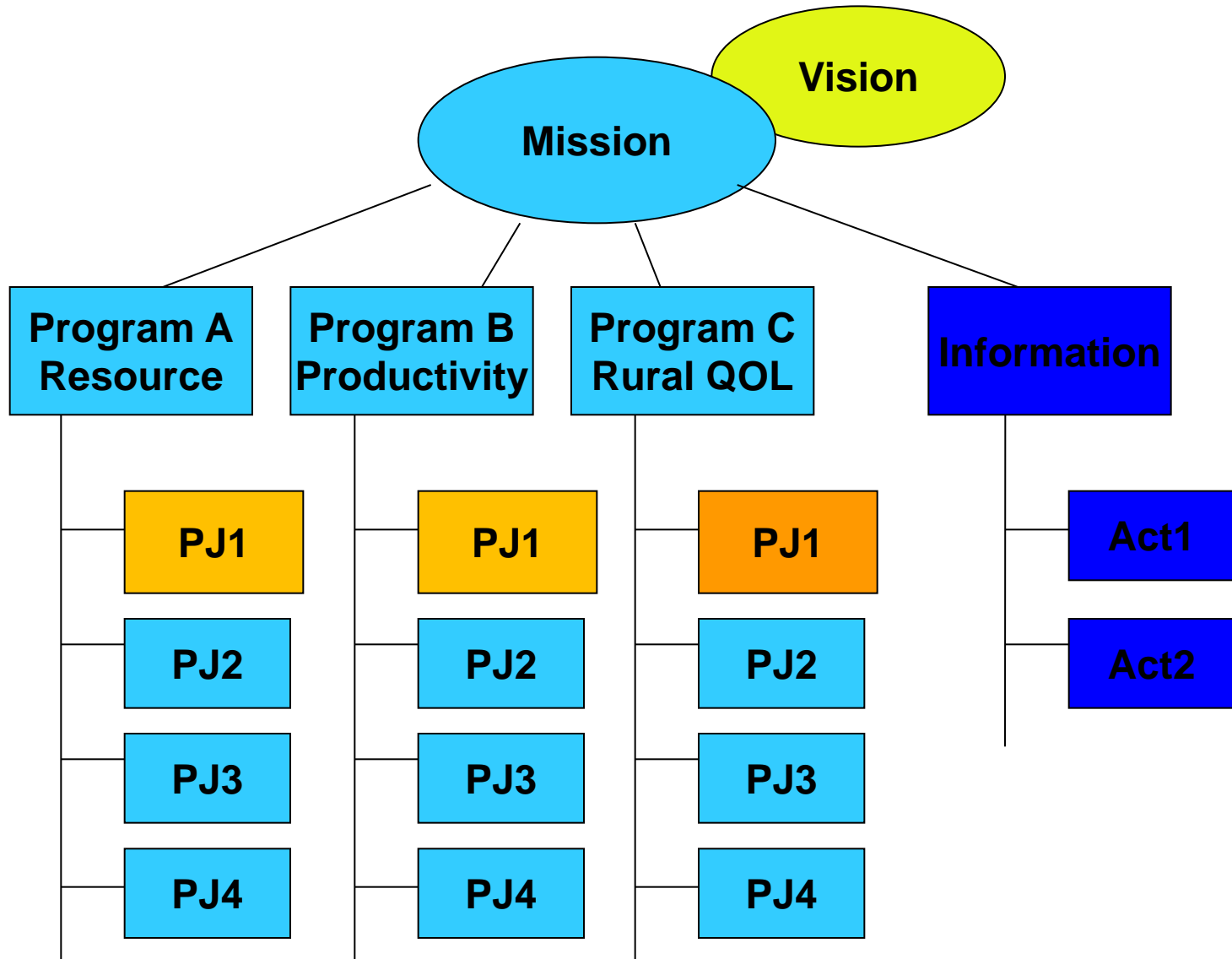
— Fisheries Division

The Way of Collaboration



- **A new 5 years research action plan** is under discussion and will be launched in April 2011
- Structured with research programs of clear-cut linkage to the global agenda
 - A: Environment and natural resources management in developing regions world wide
 - B: Increasing productivity of staple foods under the unstable natural conditions such as Sub-Sahara Africa
 - C: Improve farm income and quality of rural life especially in Asia

Image of Structured activity

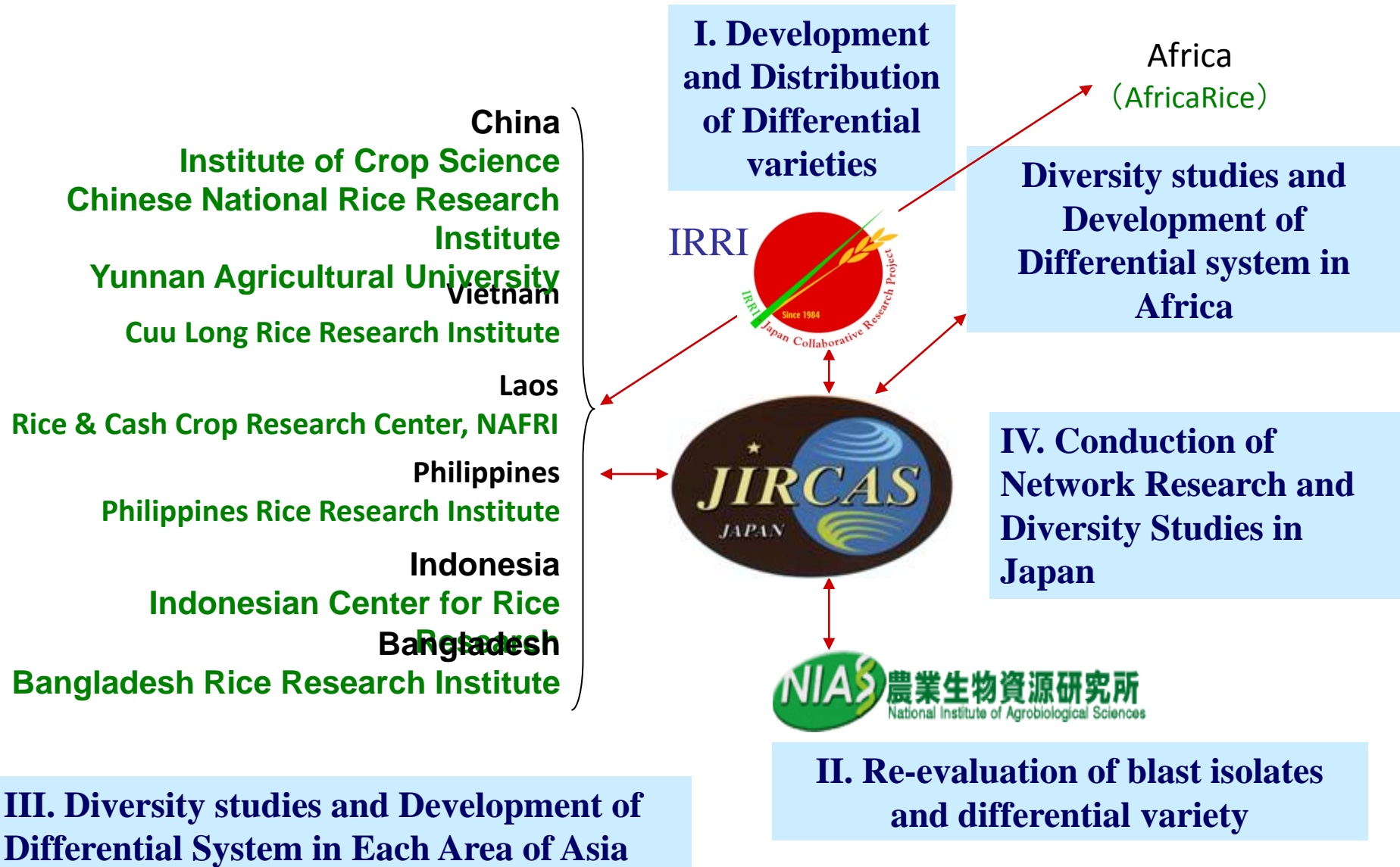


- Technology development for rice production in Africa is designated as flagship project of program B
 - Assessment and development of gene resources for rain-fed upland rice
 - Technology development of low life cycle cost infrastructure for paddies in inland valley and swampland
 - Technology improvement of Asian rice cultivation to adapt effectively to flooded low-land in Africa
- Blast research networks for stable rice production
- Development of stress-tolerant transgenic plants
- Contribution to south-south cooperation by providing information on research partners resources

Technology development for rice production in Africa

- Contributing to attainment of CARD target of doubling rice production in SSA in 10 years
- Theme 1-1 : Assessment and introduction of biological stress tolerance for existing bred varieties and gene type
- Theme 1-2 : Assessment and introduction of non-biological stress tolerance for existing bred varieties and gene type
- Theme 1-3 : Development of high-productivity rice variety for Africa
- Theme 2-1 : Technology development of low cost irrigation facilities
- Theme 3-1 : Development of land assessment model
- Theme 3-2 : Technology development for stable rice production in low-land paddies
- Theme 3-3 : Elucidation of structure of farming systems and conditions for introducing technology developments

Blast Research Network for Stable Rice Production



Development of Stress-tolerant Transgenic Plants

DREB project (MAFF)

CIMMYT (Mexico)



Wheat

CIAT (Colombia)



South American Rice

IRRI (The Philippines)



Indica Rice

The JIRCAS logo, which includes the text "JIRCAS" and "THE UNIVERSITY OF TOKYO" above a photograph of a modern building.

JIRCAS THE UNIVERSITY OF TOKYO

Development of Genetic Engineering Technology

Three small images of plants: Japanese Rice, Arabidopsis, and Soybean.

Japanese Rice Arabidopsis Soybean

SATREPS project (JST-JICA)

Embrapa (Brazil)



Soybean

Other projects

ICRISAT (India)



Groundnut



Development of Stress-tolerant Transgenic Crops

Capacity building of young researchers



**Capacity Building
of Young
Japanese Scientists**

**Fellowship Program,
Invitation of Counterpart
Researchers**

