ASEAN Plus3
Rice Genetics & Breeding Platform

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Three Questions

1. Can we meet these challenges acting alone?
   - No

2. Is there sufficient investment in rice (and agricultural science)?
   - No

3. Can we collaborate given competing national interests.
   - Yes
     - Multi-lateral pre-competitive
     - Uni or bi-lateral competitive
What Do We Propose

1. A platform that allows pre-competitive collaboration while respecting national interests

2. A mechanism to increase investment in rice research and capacity building

3. A way for us to work together more closely to meet common challenges.
1. Collaboration between IRRI and SAARC nations is largely on a bilateral basis – but there are areas where we are building regional collaboration.

2. Collaboration between ASEAN and SAARC nations can be built as a second phase.
Why Does IRRI Propose This Program?

- Unique Genetic Resources
- Mission
- Track Record
- Impact

- Rice Sector Capacity Building
- Global Influencing & Convening Role
- Traits, Breeding Lines, Technologies, & Expertise
Genetic Resources

IRRI

- Rice
- Hybrid
- Genotypic & MAS
- Genebank Mining
- Multienvironment Trials
- Germplasm Exchange

Genetic Resources

IRRI

- IR64
- IAC 165
- M202
- Moroberkan
- Cypress
- Pokkali
- Aswina
- Swarna
- Inia Tegu

Varieties:
- Co 39
- Patbyeo
- Gerdeh
- Dular
- Sadu-cho
Novel Traits
INGER & Multi-Environment Trials

IRRI HQ - Marker Assisted Breeding & Selection
IRRI Hubs – advanced MET & Rice Array
Joint NARES-IRRI Sites – yield trials and Rice Array
All sites part of International Network for the Genetic Evaluation of Rice (INGER)
Hybrids

- Breeding Informatics
- Genotyping & MAS
- Novel Traits & Stacks
- Mining
- Genbank
- Traits
- Consumer
- Multi Environment Trials
- Germplasm Exchange
- Hybrid Rice

Heterosis
Seed Production
Grain Quality
Consumer Traits

Grain Quality
Nutrition

Pre-competitive
Vs
Competitive?
PROGRAM SETTINGS

A PARTNERSHIP FROM INCEPTION TO IMPLEMENTATION

ADVANCES MULTI-LATERAL AGENDA WHILE RESPECTING NATIONAL INTERESTS

ADVANCES REGIONAL COOPERATION AND SELF DETERMINATION

INVESTMENTS IN RICE BREEDING AND PEOPLE ARE KEY RISK MANAGEMENT MITIGATION STEPS FOR ASEAN AND FOR GLOBAL FOOD SECURITY
How could it work?

Building Multi-lateral collaboration on capacity building and core technologies while engaging on a bilateral basis around national breeding objectives.
Next Steps

Consultation with individual countries to:

1. Define individual needs
2. Understand pre-competitive and competitive areas
3. Discuss potential platform arrangements and specific activities
4. Define funding requirements and sources

Following the consultation phase, work collectively to develop the pre-competitive platform
Rice Science for a Better World