



**COUNTRY REPORT**

**VIETNAM RICE**

**DEVELOPMENT STRATEGY**



*Huynh Van Nghiep*

*Cuu Long Delta Rice Research Institute,*

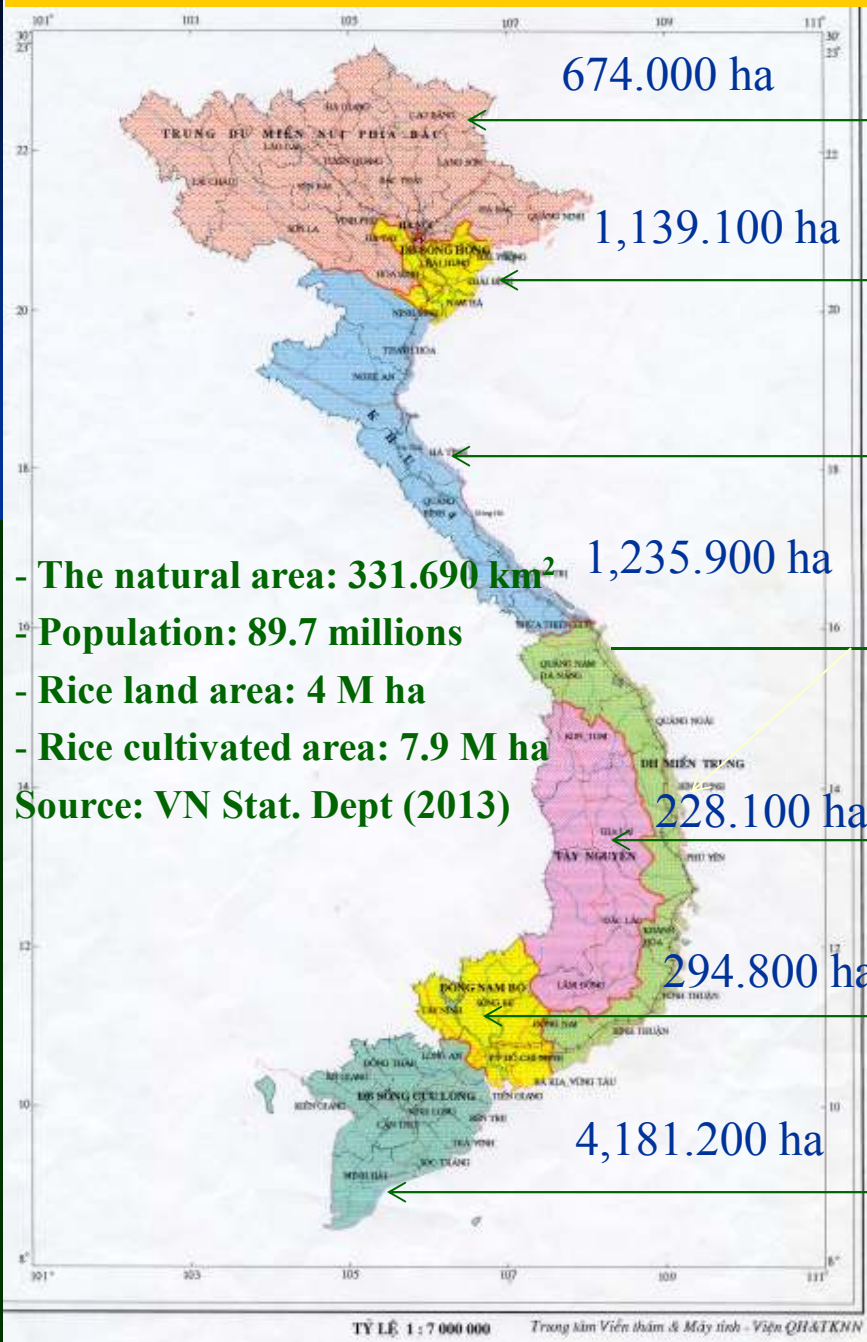
*6/5/2014*





**Introduction**  
**Current status of**  
**Vietnam rice sector**

# Introduction: Current status rice sector



The North Upland and Mountainous Region

The Red River Delta Region

The North Central Coast Region

The South Central Coast Region

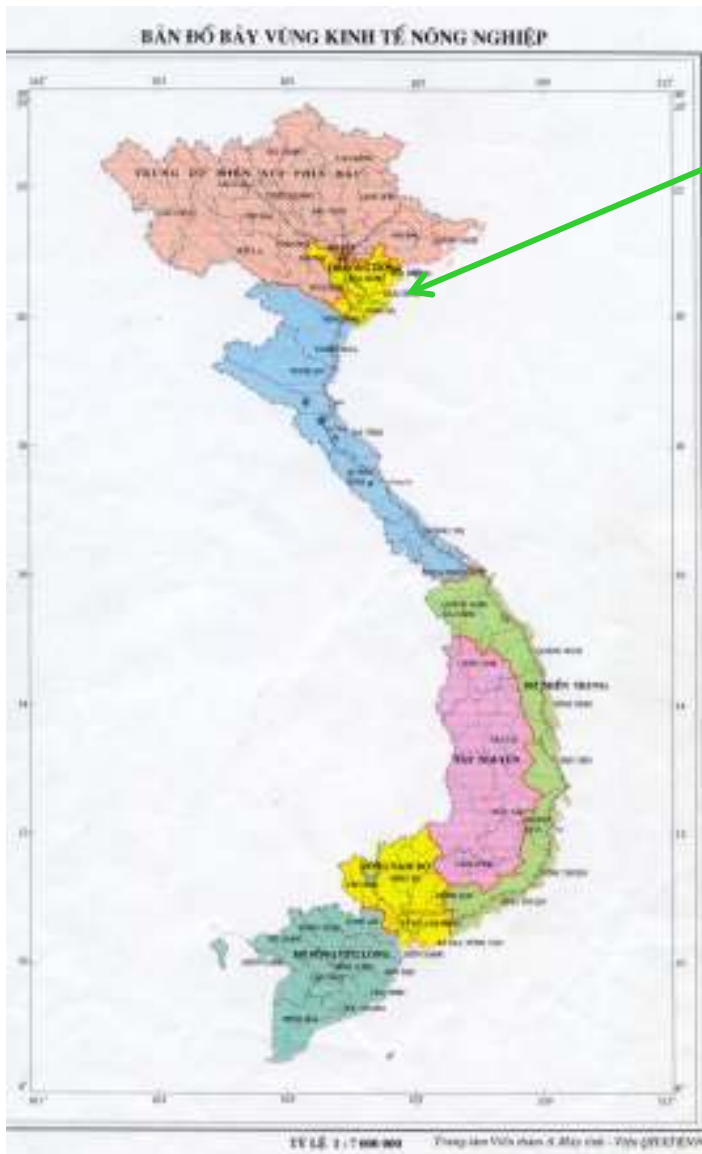
The Central Highland Region

The South East Region

The Mekong River Delta Region

Seven Agro-Economic zones

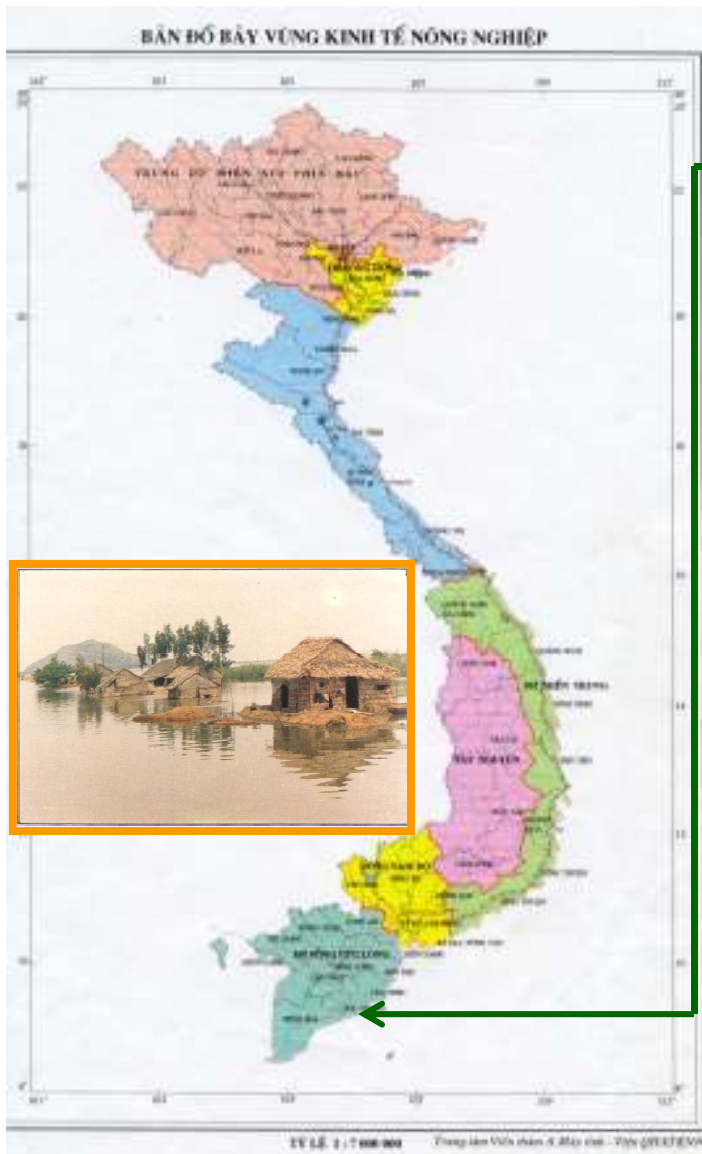
- The natural area: 331.690 km<sup>2</sup>
- Population: 89.7 millions
- Rice land area: 4 M ha
- Rice cultivated area: 7.9 M ha



**The Red River Delta Region**



<b>Natural area: 21,050.9 km<sup>2</sup></b>	<b>Rice land area: # 0.7 M ha</b>	<b>Population: 20,236,700</b>
<b>Rice cultivated area: 1,139,100 ha</b>	<b>Yield: 6.03 tons/ha</b>	<b>Production: 6,872,500 tons</b>



**The Mekong River Delta Region**



<b>Natural area: 40,553.1 km<sup>2</sup></b>	<b>Rice land area: 1.8 M ha</b>	<b>Population: 17,390.500</b>
<b>Rice cultivated area: 4,181,300 ha</b>	<b>Yield: 5.81 tons/ha</b>	<b>Production: 24,293,000 t</b>



## STATUS OF VIETNAM RICE PRODUCTION IN PERIOD OF 2000-2013

Year	Cultivated Area (1000 ha)	Production (1000 metric tons)	Yield (tons/ha)
2000	7,666.300	32,529.500	4.243
2001	7,492.700	32,108.400	4.285
2002	7,504.330	34,447.160	4.590
2003	7,452.200	34,568.900	4.639
2004	7,445.000	36,149.000	4.860
2005	7,326.000	35,791.000	4.885
2006	7,324.800	35,849.500	4.894
2007	7,180.700	35,917.900	4.991
2008	7,414.100	38,724.800	5.220
2009	7,440.100	38,895.500	5.230
2010	7,487.480	39,994.600	5.340
2011	7,651.400	42,300.000	5.530
2012	7,753.200	43,700.000	5.630
2013	7,900.000	44,100.000	5.580

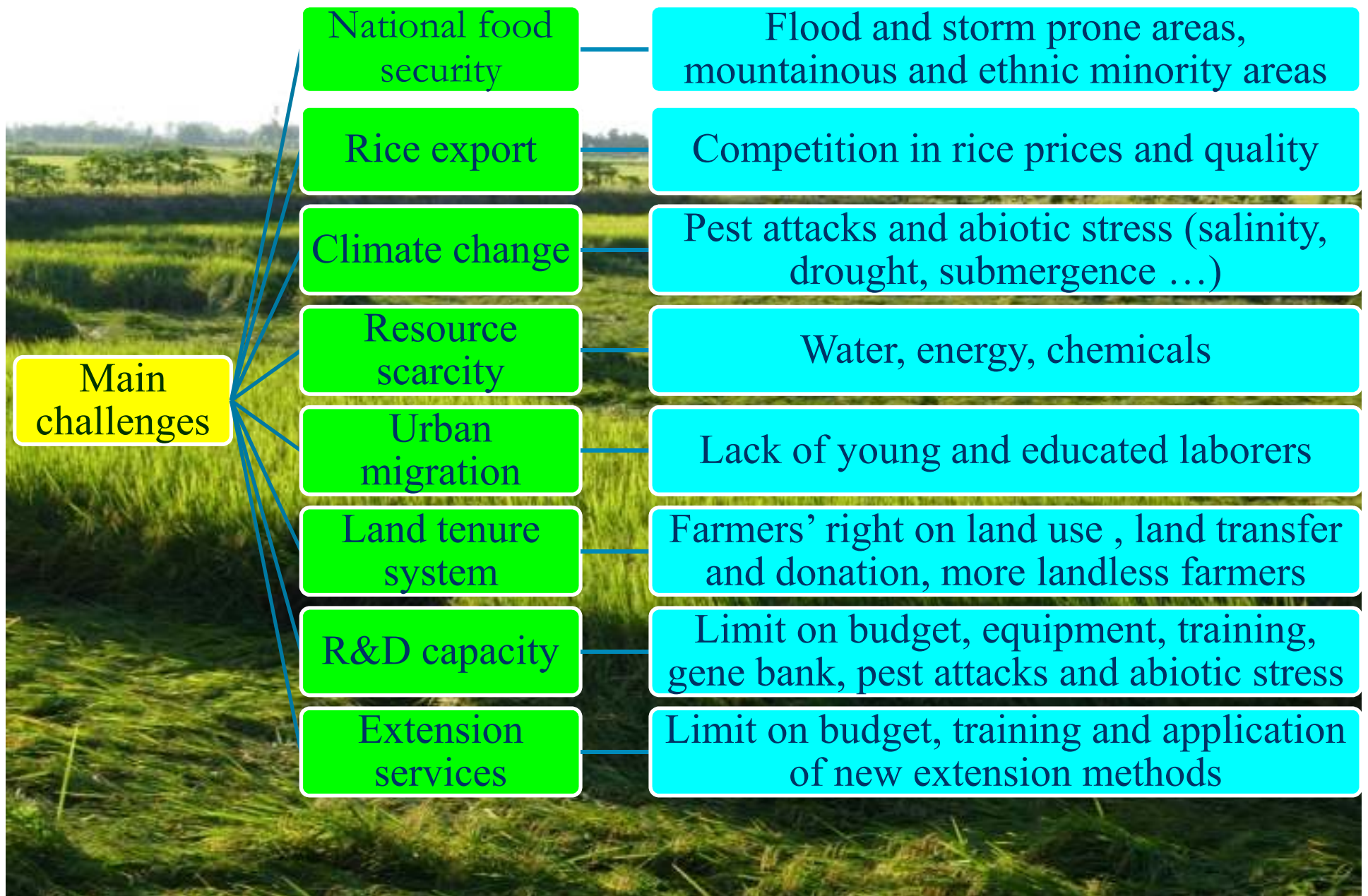
## STATUS OF VIETNAM RICE EXPORT IN PERIOD OF 2000-2013

Year	Vietnam Rice Export	
	Quantity (1000 Mt)	Value (US\$ million)
2000	3,476.730	667.400
2001	3,729.450	624.710
2002	3,240.930	725.530
2003	3,813.000	720.520
2004	4,059.740	950.390
2005	5,250.260	1,407.230
2006	4,643.399	1,275.896
2007	4,557.511	1,489.970
2008	4,741.858	2,894.441
2009	5,958.300	2,663.900
2010	6,886.200	3,247.900
2011	7,087.000	3,643.000
2012	7,720.000	3,500.000
2013	6,722.000	2,986.000





# Main challenges and opportunities



## Opportunity

```
graph LR; A[Opportunity] --- B[Favorable rice growing conditions, low costs]; A --- C[Farmers are expertise, experienced and industrious]; A --- D[Highly-evolved, heavily-invested irrigation systems]; A --- E[Mechanization improved rice quality for export]; A --- F[Rice is grown all round year, available for export]; A --- G[Vietnam's joining WTO helps rice export]; A --- H[Vietnam's rice has been highly appropriated]; A --- I[Vietnam businessmen are dynamic, fair.];
```

Favorable rice growing conditions, low costs

Farmers are expertise, experienced and industrious

Highly-evolved, heavily-invested irrigation systems

Mechanization improved rice quality for export

Rice is grown all round year, available for export

Vietnam's joining WTO helps rice export

Vietnam's rice has been highly appropriated

Vietnam businessmen are dynamic, fair.

# Development plans and goals of rice sector

Strategies and planning of the  
agricultural and rural development in  
Vietnam and the Mekong delta in the  
period of 2013-2020 and vision to 2030

# Strategy of rice sector development in Vietnam

Year	Rice land area (1000 ha)	Rice cultivated area (1000 ha)	Yield (ton/ha)	Production (1000 ton)	Milled rice export (1000 ton)
2013	4,000	7,900	5.58	44,100	6,722
2014	4,000	7,600	5.70	43,400	6,700
2020	3,812	7,100	5.90	42,000	5,000
2030	3,812	7,100	6.18	44,000	5,000

Leading organization: Ministry of Agriculture and Rural Development

Executing organization: Department of Crop Production; Departments of provincial Agriculture and Rural Development; R&D Institutions; Local authorities.

## Strategy of rice sector development in Mekong delta (MD), Vietnam

Year	Rice cultivated area (1000 ha)	Yield (ton/ha)	Production (1000 ton)
2013	4,181	5.81	24,293
2020	4,000	5.90	24,500
2030	3,800-3,900	6.00-6.20	23,000-24,000

**Mekong Delta contributed 50% rice production; 90% rice export.**

# Strategies for national rice R&D



# 1- Strategy on the development of science and technology for the agriculture and rural development in the period of 2013-2020.

- Breeding new plant varieties have high yield and quality, pest resistance and abiotic stress tolerance.
- To study the intensive cultural practices, ICM, GAP.
- To study procedures of IPM (Agro-Bio measures).
- Development and utilization of plant germplasm.
- Transfer the new techniques (new plant varieties, procedures of the intensive cultural practices, GAP, ICM ...).



## 2- Scientific and technological project for the national product development in period of 2014-2020

- The theme of the national product development project: *“Rice breeding for development of Vietnam rice product (Vietnamese rice trademark) with the high quality and yield and high commercial value”*

# Targets of the project

- 1- Newly breeding and releasing 2-3 new rice varieties for each region of North and South
- 2- Selecting 3-4 rice varieties of the most commonly grown rice varieties for each region of North and South.
- 3- Newly breeding and releasing 2-3 aromatic and specialty rice varieties for each region of North and South.
- 4- Selecting 3-4 aromatic and specialty rice varieties of the most commonly grown rice varieties for each region of North and South.

# 1- Requirement of newly bred rice varieties:

- Growth duration: <110 days (North), <100 days (South).
- Yield:  $\geq 7$  t/ha (dry season), 6 t/ha (Wet season)
- Amylose content  $\leq 22\%$ .
- Kernel Length  $> 7$ mm, no chalkiness.
- Resistant to BPH and Blast, tolerant to abiotic stress.
- Rice export value is about US \$ 600/ton.

## 2. Requirement of newly selected rice varieties:

- Growth duration: <110 days (North), <100 days (South).
- Yield:  $\geq 7$  t/ha (dry season), 6 t/ha (Wet season)
- Amylose content  $\leq 22\%$ .
- Kernel Length  $> 7$ mm, no chalkiness.
- Resistant to BPH and Blast, tolerant to abiotic stress.
- Rice export value is about US \$ 600/ton.

### 3- Requirement of newly bred aromatic/specialty rice varieties:

- Growth duration: <110 days (North), <100 days (South).
- Yield:  $\geq 7$  t/ha (dry season), 6 t/ha (Wet season)
- Amylose content 18 -  $\leq 22\%$ .
- Kernel Length  $> 7$ mm, aromatic, no chalkiness.
- Resistant to BPH and Blast, tolerant to abiotic stress.
- Rice export value is about US \$ 800/ton.

## 4. Requirement of newly selected aromatic/specialty rice varieties:

- Growth duration: <110 days (North), <100 days (South).
- Yield:  $\geq 7$  t/ha (dry season), 6 t/ha (Wet season)
- Amylose content 18 -  $\leq 22\%$ .
- Kernel Length  $> 7$ mm, aromatic, no chalkiness.
- Resistant to BPH and Blast, tolerant to abiotic stress.
- Rice export value is about US \$ 800/ton.

## Targets of the project

5- Improving 3-4 rice varieties have been widely grown in Vietnam by introgressing genes governed some traits such as low amylose content, pest resistance (Bph, Blast), abiotic stress (salinity, submergence, drought).

6- Set up procedures of the intensive cultural techniques, the integrated crop management and the good agricultural practices (GAP) for each selected and newly bred rice variety in each region of North and south.

# *Agencies and organizations joined in the project*

**Leading agency:** Ministry of Agriculture  
and rural development

**Executing agencies:**

- Vietnamese Academy of Agricultural  
Sciences and its subordinate institutions



## Executing agencies:

- Vietnam Institute of Agricultural Engineering and Post-harvest Technology.
- Vietnam Academy for water resources.
- Cantho University, Hanoi University of Agriculture.
- An Giang Plant Protection Joint Stock Company.
- Southern Seed Joint Stock Company.
- Vietnam National Seed Corporation.
- Thai Binh Seed Corporation.
- Provincial Seed Centers of Vietnam.

## Suggested coordinating agencies:

- International Rice Research Institute (IRRI).

- International Plant Nutrition Institute (IPNI).

- Center for Agriculture and Bioscience International (CABI).

- International Food Policy Research Institute (IFPRI)

# Possible common development objectives across the region

- Regional linkage in rice production and trade: Information exchange of rice export plans, rice standards, prices of rice (farmers' benefits) ...
- Rice germplasm exchange: rice genetic materials have genes govern traits such as high yield (new plant types, super rice), high rice quality, pest resistance (Bph, Blast, BLB), tolerance of abiotic stress (salinity, drought, submergence).



Thank You !

