# Current situation of seed multiplication and distribution in Vietnam

CARD Seminar via video conferencing Seminar #1 September 19, 2012

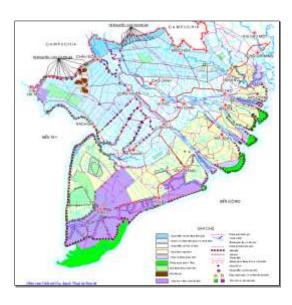
#### 1. Summary of Rice farming in Vietnam

#### Overview of the country

- Vietnam is a traditional rice cultivation country with a more than 4.000 years civilization of wet-rice production.
- Vietnam is situated in a region geographically considered as an original zone of rice cultivation. It is divided into seven agricultural ecology zones (Mountainous North, Red river delta, Northern Center, Southern Center, Central Highlands, Eastern South, and Mekong river delta).
- Total land area of rice is around 4.1 millions ha, in which Mekong delta: 1.9 millions ha; and other regions: 2.2 millions ha with overall country



#### Mekong delta rice region



#### 1. Summary of Rice farming in Vietnam

- Overview of the country
- At present, in Vietnam, the total food production is around more than 50 million tons per year, in which there are 43 million tons of rice, 4 million tons of corn, 8 million tons of cassava, 2 million tons of potatoes and sweet potatoes.
- In 2007, the cereals per capita is 469,5 kg and rice per capita is 421 kg. Therefore, in national level, we have ensured food security but the proportion of poor people still accounts for 14,8%.
- However, Vietnamese's population continues to increase greatly in next several decades, and it's forecasted to increase to over 100 million people in 2020 and 110 million people in 2030,
- Besides, Vietnam is one of 5 countries affected badly by the sea level rise that makes agricultural land areas flooded and saltintruded

#### 1. Summary of Rice farming in Vietnam

Overview of the country

#### In 2011

- Growth rate in agriculture achieves 2,8%/year, average for a period 2006-2010 is 3,36%/year.
- Productivity increases 4,69%, average for a period 2006-2010 increases 4,93%/year( estimated plan was 4,5%).
- Total export value achieves 19,15 billions USD and 25 B in 2011, increases 22,6% compared to 2009 and 77,3% compared to year's plan, average from 2006-2010 is 17%/year.
- Export value of major agricultural products achieves 9,95 billions USD, increases 24,22%.

#### Areas and yield of rice in Viet Nam 2009-2012

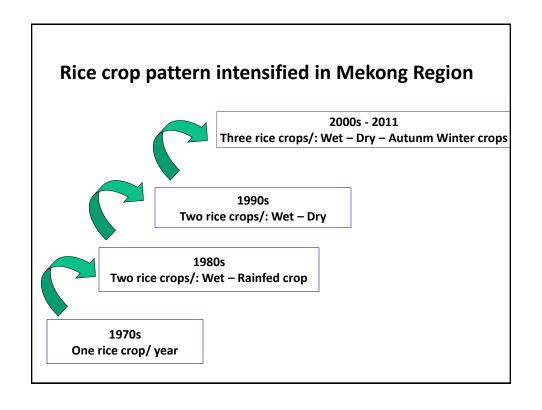
	Harvested Areas (100 ha)			Yield (tons ha <sup>-1</sup> )		
Year	Total	North	South	AV.	North	South
	VN	region	region		region	region
2009 *	7.437	2.520	4.916	5.24	5.32	5.20
2010	7.409	2.560	4.982	5.34	5.29	5.37
2011	7.651	2.512	5.139	5.53	5.51	5.54

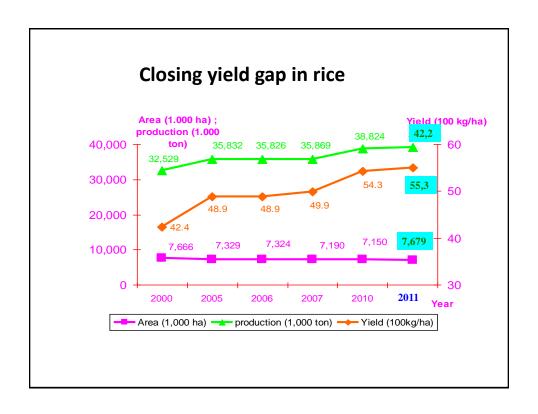
(\*) National statistical year's book 2011

### Rice production and export in Viet Nam from 2009-2012

	Produ	uction (1000	O tons)	Export (M tons)
Year	Total VN	North region	South region	
2009	38,950	13,408	23,541	6.052
2010	40,005	13,265	26,740	6.754
2011	42,324	13,842	28,482	7.105

(\*) National statistical year's book 2011





#### Rice Production 2000-2010

Year	Planted Area	Production	Yield
rear	(1000 ha)	(1000 metric tons)	(kg/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	4,981
2008	7,400.200	38,729.800	5,230
2009	7,440.100	38,895.500	5,230
2010	7,513.700	39,988.900	5,320

### 1. Summary of Rice farming in Vietnam Production of key varieties

Variety	2006	2007	2008	2009	2010	Average
(000 t)						
Khang dan 18	3,600	3,293	3,021	2,499	2,232	2,929
OM4218	1,800	2,215	2,465	2,756	2,981	2,443
OM4900	1,171	1,574	2,194	2,317	2,813	2,014
Q5	2,971	2,361	1,924	1,423	994	1,935
OM6976	900	1,341	2,044	2,499	2,644	1,885
Bac thom 7	1,743	1,632	1,773	1,287	1,467	1,581
Huong thom 1	1,171	1,486	1,022	787	764	1,046
OM2517	600	816	887	1,090	1,467	972
	-	-	-	-	-	-
OM5451	357	947	1,022	1,151	1,330	961

### 1. Summary of Rice farming in Vietnam Production of key varieties

Variety	2006	2007	2008	2009	2010	Average
(000 t)						
Xi23	929	787	781	621	520	727
Khang dan ĐB	457	437	376	318	275	373
Bao thai	286	335	331	379	275	321
Other varieties	14,286	16,029	18,034	17,793	19,107	17,050
National total	30,271	33,252	35,873	34,919	36,869	34,237

#### 1. Summary of Rice farming in Vietnam (cont.)

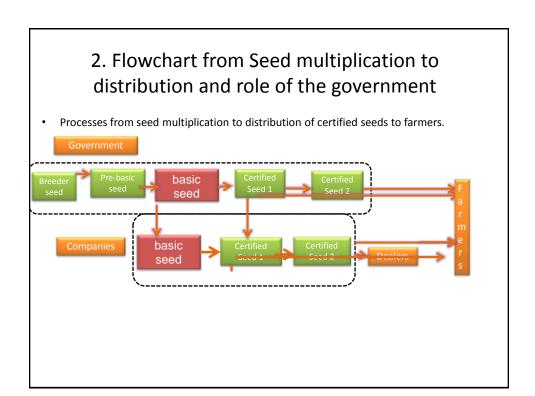
• Production of <u>certified seed</u> of salient varieties in the formal sector (incl. government institutions and private enterprises)

Variety	Amount (000. tons)	Future target (000. tons)
		by year (2013 )
Khang dan 18	17.5	19
OM4218	23.4	28
OM4900	22.1	25
Q5	7.8	9
OM6976	20.8	25
Bac thom 7	11.5	15
Huong thom 1	6.0	8

#### 1. Summary of Rice farming in Vietnam

Production of <u>certified seed</u> of salient varieties in the formal sector (incl. government institutions and private enterprises) (cont.)

Variety	Amount (000. tons)	Future target (000. tons) by year (2013)
OM5451	10.4	16
Xi23	4.1	4
Khang dan ĐB	2.2	2.5
Bao thai	3.5	4
Other varieties	240.0	230
National total	380.8	401.5



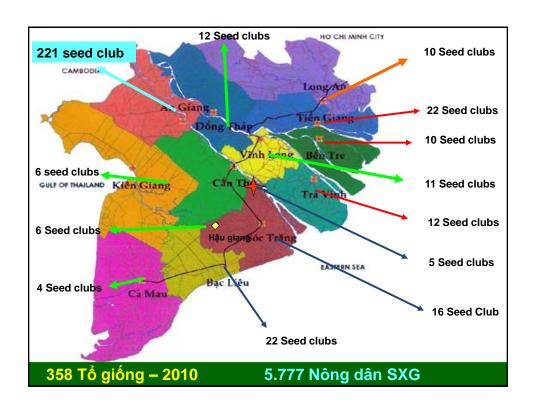


## Seed producer group in village of mekong delta region

Farmer groups received decision from People committee of village for seed multiplication







#### 3. Government Organization Chart

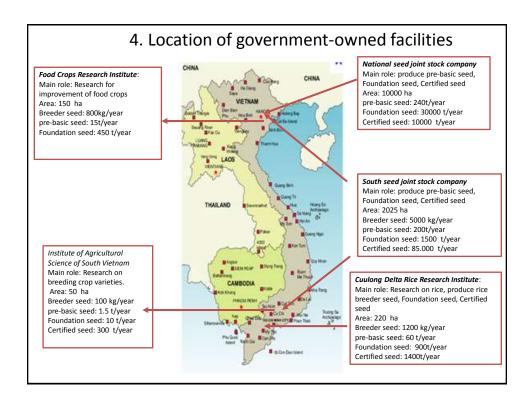
• Which government ministries / departments / divisions are involved in the processes from seed multiplication to distribution?

Name of government department and division	Roles in the seed multiplication and distribution
Ministry of Agriculture and rural development (MARD) -Department of Crop Production (DOCP) (2 Centers)	Seed quality management, regulation document of seed, monitoring and inspection of seed at national level.
Department of Agriculture and Rural development at province level (DOA)	Seed quality management, regulation document of seed, monitoring and inspection of seed at province level.
Agriculture office in District level	Seed quality management at district level

#### 3. Government Organization Chart (cont)

• Which government ministries / departments / divisions are involved in the processes from seed multiplication to distribution?

Name of government department and division	Roles in the seed multiplication and distribution
Food Crops Research Institute (FCRI)	Breeder seeds, Pre-basic seeds and basic seed multiplication
Cuu long Delta Rice Research Institute (CLRRI)	Breeder seeds, Pre-basic seeds and basic seed multiplication
Institute of Agricultural Science of South Vietnam (IAS)	Breeder seeds, Pre-basic seeds and basic seed multiplication
National seed joint stock company	Pre-basic seeds, basic seeds and certified seed multiplication
Southern seed joint stock company	Pre-basic seeds, basic seeds and certified seed multiplication



#### 5. Calculation

### Calculation method to set the volume of seeds of different levels

Breeder seeds (kg)	Pre-basic seeds (kg)	basic seeds (kg)	certified seeds 1 (kg)	certified seeds 2 (kg)
1	75	4,500	225,000	11,250,000

## The need of certified seeds (tons) in Mekong delta region

		See	eds neded1	
Amounts	Pre-basic seeds	Basic seeds	Certified seeds	Paddy rice
Total areas (x 1000 ha)	0,05	2,5	100	3.939
Density transplanting (kg/ha)	25	50	100	100
Yield (tons/ha)	2,5	4	4	5,45
Total (tons)	125	10.000	400.0002	21.500.000

#### 6. Staff involved in Rice seed-related activities

• Number of government staff placed in rice-related facilities (incl. workers at cultivation farms)

Name of the facility (according to Plate 7)	Researchers	Technicians	Labor staff	Others	TOTAL
Food Crops Research Institute	72	24	12	2	110
Cuulong Delta Rice Research Institute	57	3	2		62
Institute of Agricultural Science of South Vietnam	18	2			20
National seed joint stock company	13	49	5		67
Southern seed joint stock company	6	66	13	10	95

#### 7. Education and training

• Educational background of staff in different levels

Name of the facility (according to Plate 7)	PhD and Msc	Bsc	Technician	High school	Others	TOTAL
Food Crops Research Institute	27	48	35			110
Cuulong Delta Rice Research Institute	21	36	3	2		62
Institute of Agricultural Science of South Vietnam	8	10	2			20
National seed joint stock company	4	58	5			67
Southern seed joint stock company	2	50	12	31		95

#### 8. Education and training

• Trainings given to the staff after placement

Type of staff	Types of training
Researchers	Training and Education (certification, regulation)
Technicians	Training and Education (technical skill, certification)
Labor staff	Training (technical skill-lab and field works)
Other staff	Training (technical skill- lab and field work)

#### 9. Role of the Private Sector

- The private sector plays very important role in Seed multiplication and distribution to farmers; at present, there are over 250 private companies in Vietnam to produce seeds of different levels. They provide about 80% amount of seed to farmer
- Seed quality managed by government by applying the National Technical Regulations on Seed Quality of rice (2011) and other regulation documents relating to management of seed. Issue seed certification after inspection.

#### 10. Price of Seeds

Variety	Price (seed producers-US\$/kg)	Retail price (US\$/kg)
Khang dan 18	0.7	0.8
OM4218	0.7	0.8
OM4900	0.7	0.8
Q5	0.7	0.8
OM6976	1.1	1.3
Bac thom 7	1.0	1.1
Huong thom 1	0.8	0.9
OM2517	0.7	0.8
OM5451	0.7	0.8
Xi23	0.8	0.9
Khang dan ĐB	0.9	1.0
Bao thai	0.9	1.0
Other varieties	0.8	0.9

