

**AGRICULTURE AND RURAL DEVELOPMENT MINISTRY  
DEPARTMENT OF CROPS PRODUCTION**

**Vietnam Agriculture-  
Pillar of Economy**

**Tran Xuan Dinh**



# Density of Agriculture in Economy

**Tốc độ tăng tổng sản phẩm trong nước  
các năm 2014, 2015 và 2016**

	Tốc độ tăng so với năm trước (%)			Đóng góp của các khu vực vào tăng trưởng năm 2016 (Điểm phần trăm)
	Nam 2014	Nam 2015	Nam 2016	
<b>Tổng số</b>	<b>5,98</b>	<b>6,68</b>	<b>6,21</b>	<b>6,21</b>
Nông, lâm nghiệp và thủy sản	3,44	2,41	1,36	0,22
Công nghiệp và xây dựng	6,42	9,64	7,57	2,59
Dịch vụ	6,16	6,33	6,98	2,67
Thuế sản phẩm trừ trợ cấp sp	7,93	5,54	6,38	0,73

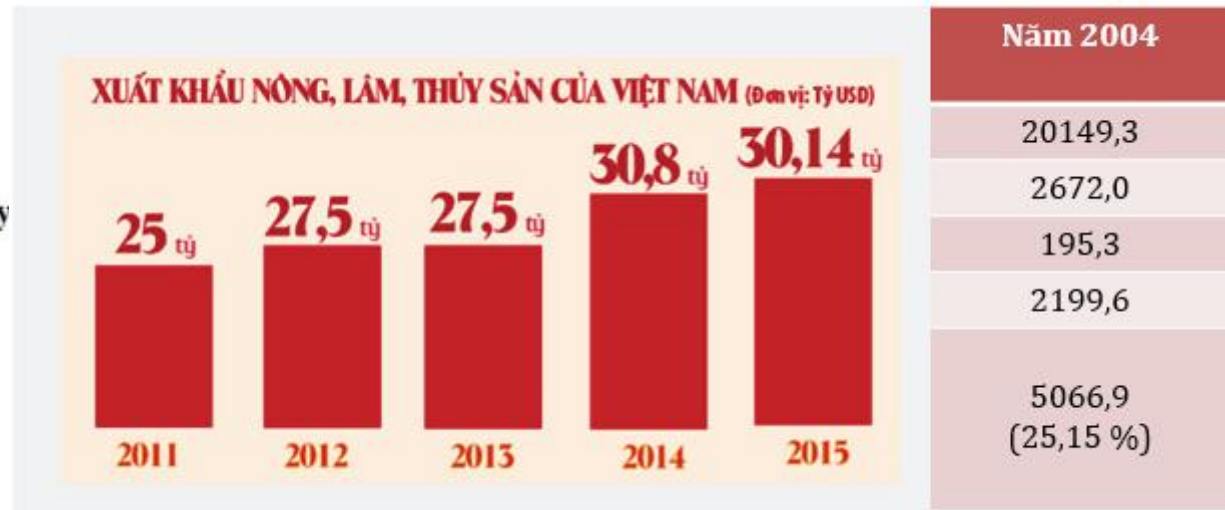
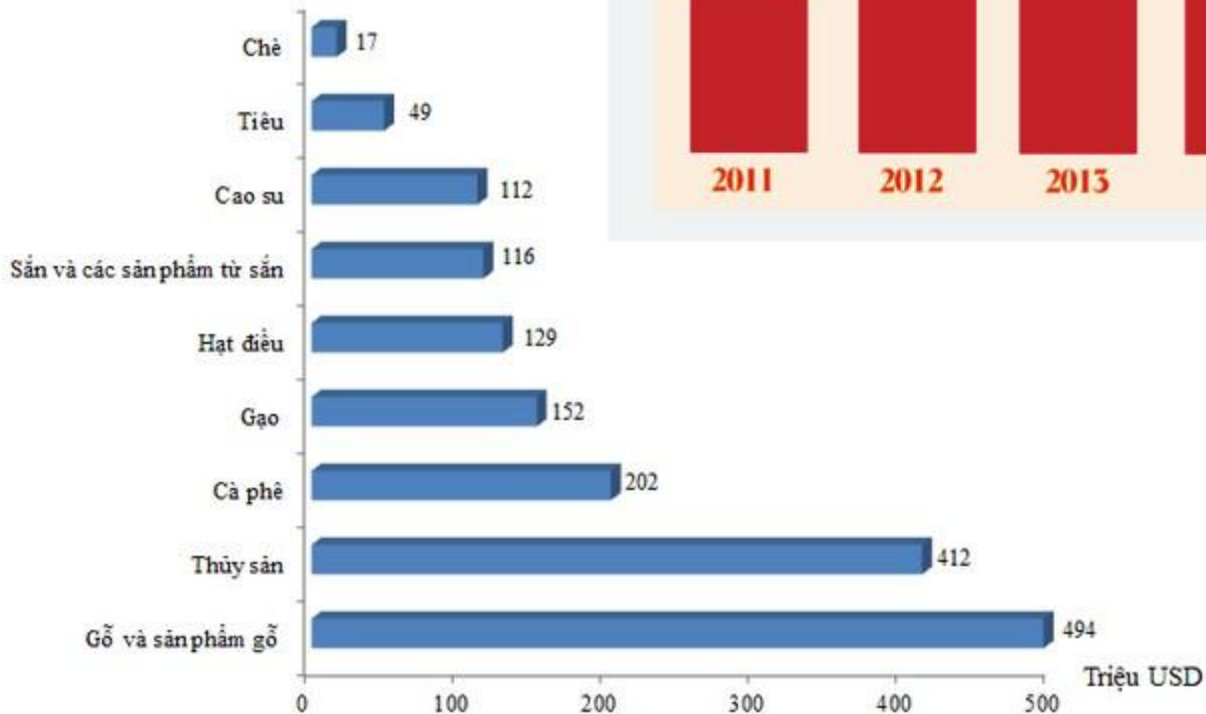
Source: General Department of Statistic

# Results on Agri-production in 5 years (2011-2015)

Items	2011	2012	2013	2014	2015	Growth Average (%)
Increasing rate of GDP (%)	4.23	2.92	2.63	3.44	2.41	3.13
Increasing rate for value (%)	5.8	3.04	3.57	4.04	2.62	3.81
- Agriculture (Crop and Animal Husbandry)	5.87	2.66	3.06	3.0	2.28	3.38
- Forestry	5.92	6.63	5.80	7.1	7.92	6.67
- Fishery	5.52	3.97	5.07	6.82	3.06	4.89
Average income per 1 ha						
- Crop Production	<b>72.2</b>	<b>72.8</b>	<b>75.7</b>	<b>79.3</b>	<b>82-83</b>	<b>75</b>
- Fishery	<b>135.2</b>	<b>145.3</b>	<b>157.6</b>	<b>177.4</b>	<b>182.8</b>	<b>159.7</b>

# Main Agr. Products export

Những mặt hàng nông lâm thủy



Năm 2014

20149,3

2672,0

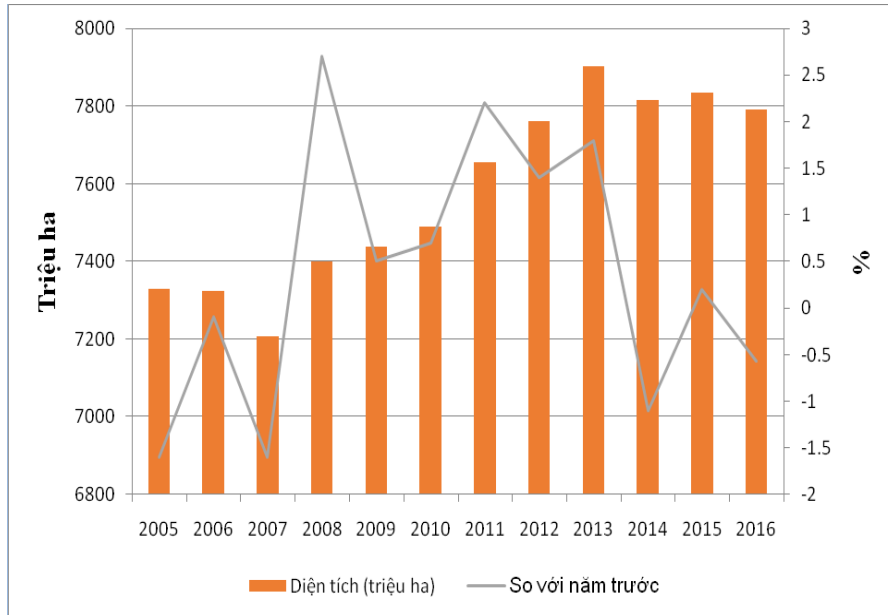
195,3

2199,6

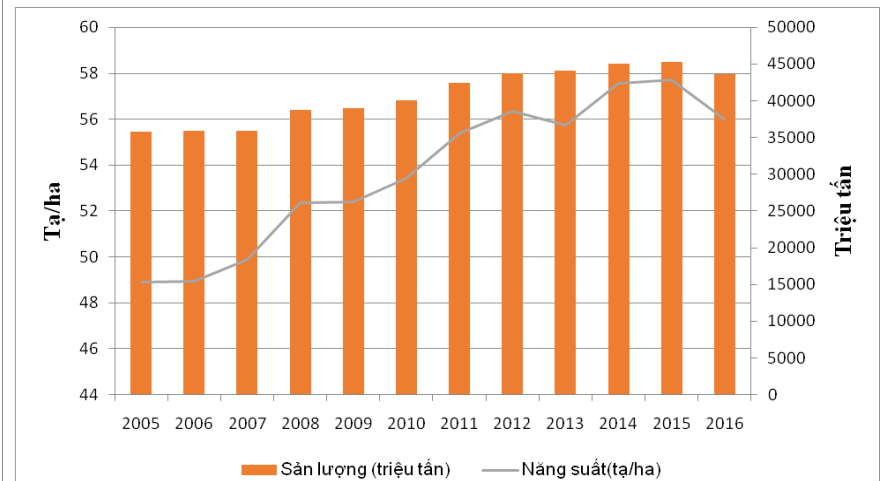
5066,9  
(25,15 %)

# Rice production in Viet Nam

Diện tích trồng lúa ở Việt Nam 2005 – 2016 (triệu ha)



Năng suất, sản lượng lúa Việt Nam 2005 – 2016



Nguồn: Báo cáo thường niên ngành lúa gạo, IPSARD

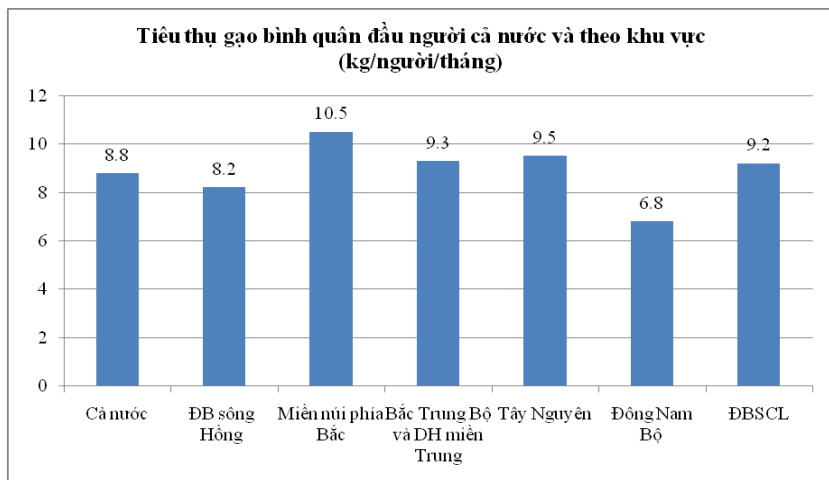


Nguồn: Tổng cục Thống kê



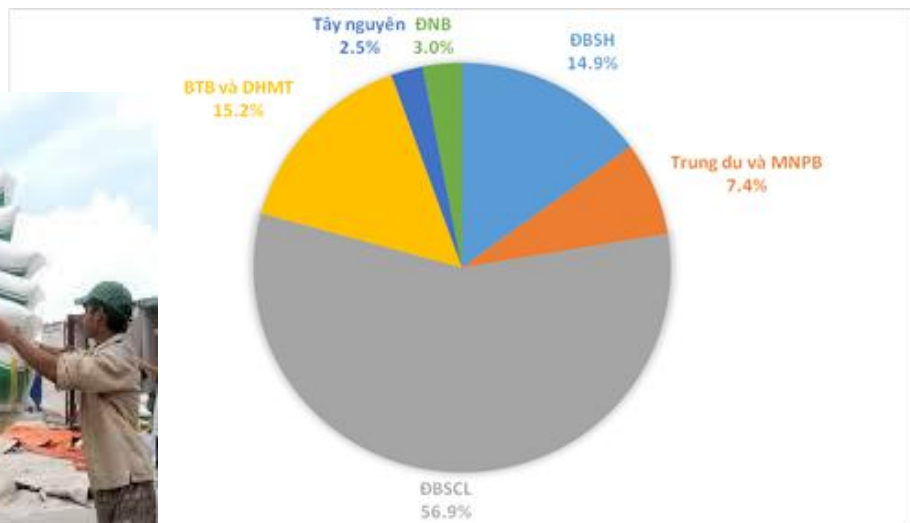
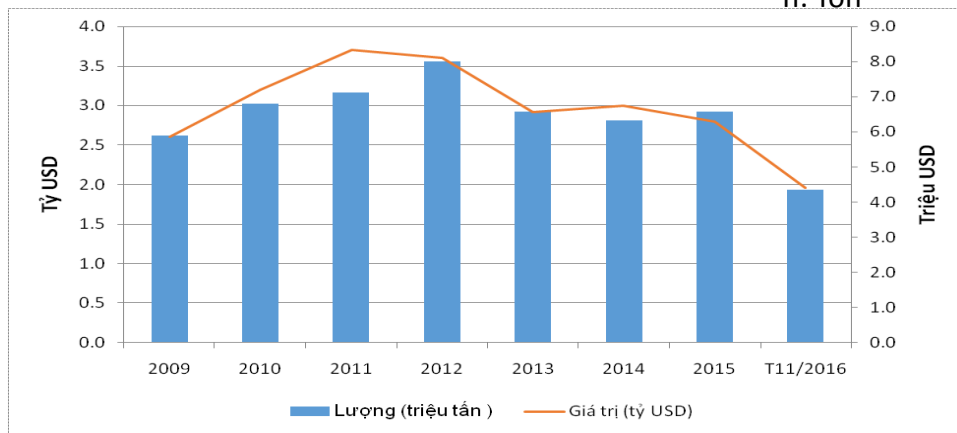
# Balance of supply and demand in Viet Nam and exportation

Tiêu thụ gạo bình quân đầu người năm 2015 (kg/người/tháng)



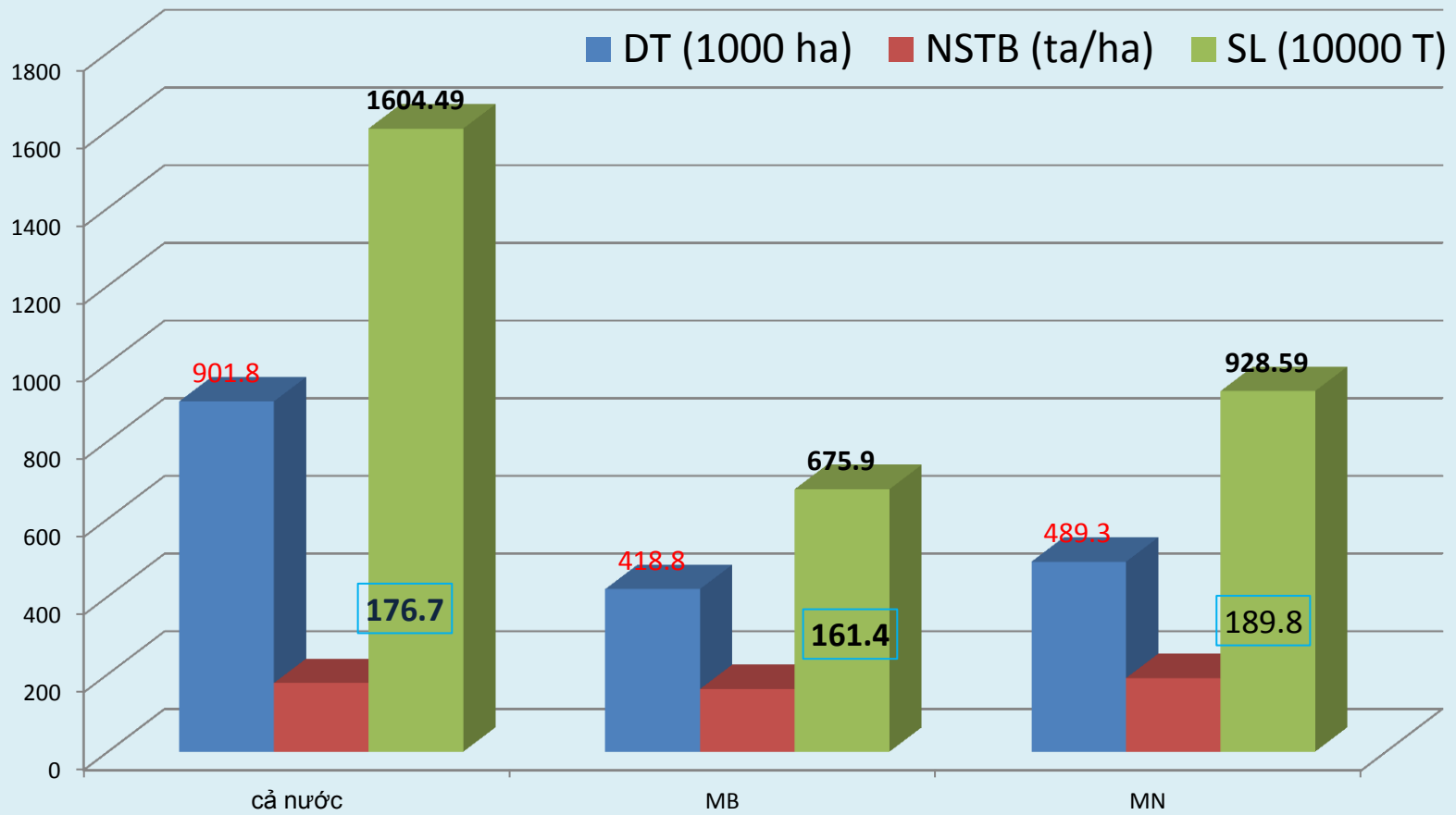
Nguồn: Tổng cục Thống kê

Xuất khẩu gạo của Việt Nam



# Vegetable production in Viet Nam:

Area (1000ha); Yield (100kg/ha) and Productivity 10.000Tons)





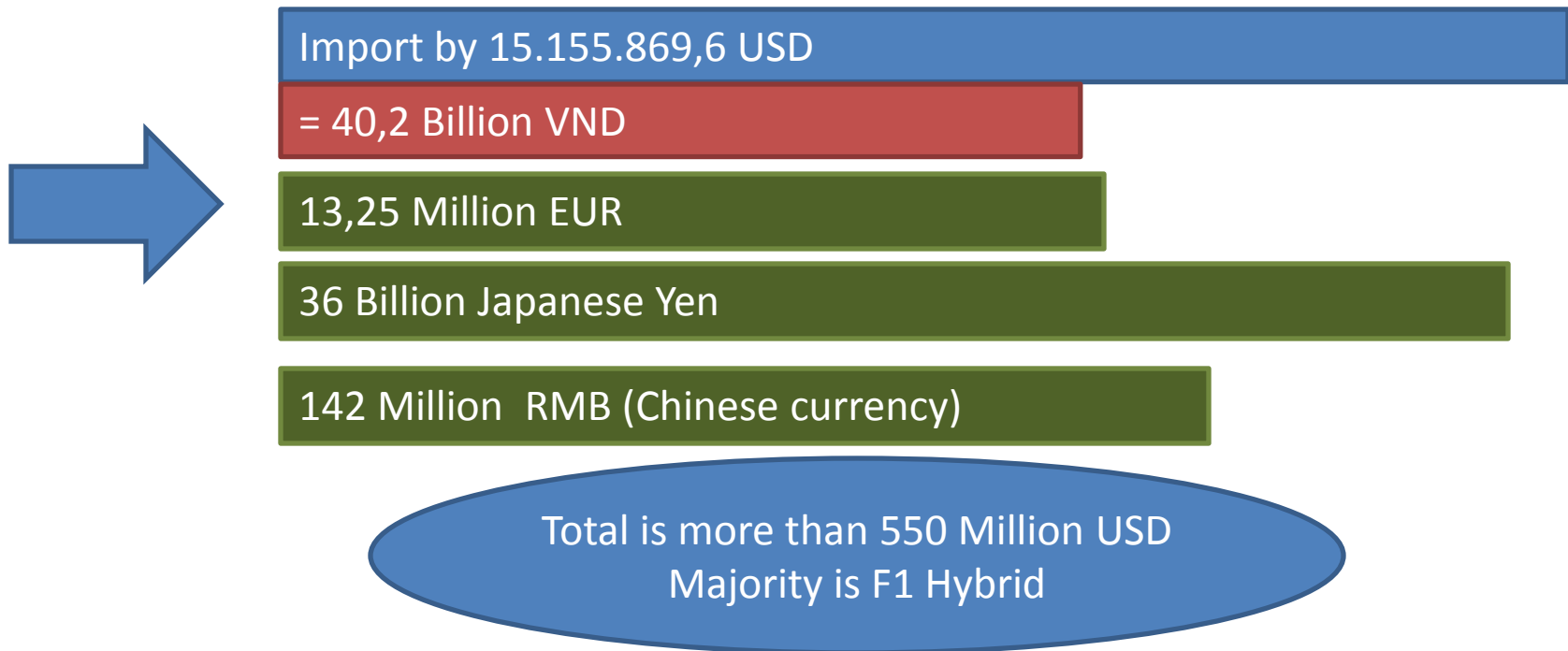
## • Biggest area for Vegetable Production in the country

- + Cuu Long river delta and HCMCity: An Giang, Soc Trang, Tra Vinh, Vinh Long.
- + Red River delta: Ha Noi, Ha Nam, Thai Binh, Hung Yen....
- + North Central: Thanh Hoa, Nghe An
- + North Midland and mountainous: Bac Giang, Phu Tho.
- Highest Yielding ( $\geq 200$  tạ/ha): Lam Dong, Dak Lak (Tay Nguyen), Hai Duong, Thai Binh, Hai Phong (Red river delta), Tra Vinh, An Giang, Kien Giang (Cuulong river delta), HCM city.



## Challenge of Vegetable production: Breeding and Seed production of F1 hybrid

- 80% of F1 seed is imported; Include Watermelon, Musk Melon, Cucumber,) Pumpkin, Bitter-gourd, Kohlrabi, Cabbage, Cauliflower, Chili, Celery cabbage, Mustard greens, Celery, Onion, Asparagus... category of flower...
- Data from Custom Office on the Seed Import of Vegetable and flower in 2015 as following:



## Flower and Ornamental is rapid increase with high value

<b>Types</b>	<b>Whole country</b>	<b>North</b>	<b>South</b>
<b>Ornamental</b>	<b>34.978,0</b>	<b>17.410,0</b>	<b>17.568,0</b>
<b>Flower</b>	<b>22.671,9</b>	<b>9.237,6</b>	<b>13.434,3</b>
<b>Bonsai</b>	<b>12.306,2</b>	<b>8.172,4</b>	<b>4.133,8</b>

<b>Items</b>	<b>2004</b>	<b>2006</b>	<b>2008</b>	<b>2010</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2016</b>
Area (ha)	9.654	13.240	14.120	15.000	16.200	18.700	22.671	23.017
Average Value (Million VND/ha/Year)	110	115	120	150	220	250	285	300

# Comment

- Production area for flower and ornamental is equal distribution both North and South.
- Average income for flower and ornamental in whole country is 285 Million VND/ha/Year, in 2014, compare to the average income for crop production is 82-83 Million VND/ha, nearly 3,5 times. in 2016 is 300 Million VND/ha
- In 10 years (2005-2016) flower production is increased more than 2,3 times, the value of productivity is over 7,2 times (6.500 billion, exportation nearly 50 Million USD). Income per ha is increased by 3 times, some of them achieve 800 million to 2,5 billion VND/ha.



# Production of Fruit Trees

2001: 696,6 thousands ha

2012: 781,4 thousands ha (171,8 thousands ha more),

The Speed of increasing from 2001-2012 is 2,3%/year.

The Biggest Area and Productivity in the country is Cuu long River Delta, with nearly 70% of productivity is sold to the market; The second is North Midland and Mountainous.

Banana is 126,1 thousands ha, increased 4,3% compare to 2010;

Orange 53,58 thousands ha, Mandarin: 16,3

- thousands ha; Pinapple - 40,48 thousands ha, increased 223% compare to 2010; Mango - 85,23 thousands ha, decreased 1,3% compare 2010; Longan - 78 thousands ha; Litchi - 70,03 thousands ha, Rambutan - 24,55 thousands ha; Pomelo - 46 thousands ha, same as in 2010; Dragon fruit is increased rapidly in Binh Thuan, Tien Giang, Long an, In 2012 the area for dragon fruit in whole country is about 24 thousands ha



# Industrial Crops – Coffee: Billion USD Plant

- - Coffee production area in 2016 is 643 thousands ha, increased 70 times (more than 700%) compare 1981, include the area can harvest is 599 thousands ha; over 500 thousands ha less than 15 years old, good for harvesting.
- - Average yielding in the season 2015 - 2016 is 2430 kg/ha, higher than 2 - 4 times compare average yielding of the world, Productive in 2016 around 1,459 million tons, Export in 2016 is 1,79 million tons with the value is 3,3 Billion USD.
- Vietnam became leading country on production and exportation of coffee in the world with biggest country on Robusta coffee in many years.



# Peper

- Production area for peper increased rapidly, 2000 is 27,9 thousands ha, 2012 is 57,38 thousands ha and 2016 is arround 120.000 thousands ha, High Central Land and South-Est is occupied more than 93% of area in whole country.
- Biggest areas are in the provinces as Dak Lak, Dak Nong, Gia Lai, Binh Phuoc, Dong Nai and Ba Ria - Vung Tau.
- In 2016, area for Peper is 120 thousands ha, over 70.000 ha compare to the plan is 50.000ha
- Peper Yielding is increase continuosly, 1960 is from 1000-1300 kg/ha but 2014 the yielding is 2590 kg/ha, The yielding of Peper in the provinces in High Central Land is highest with 3140 kg/ha; Gia Lai is 3940 kg/ha, Dak Lak is 3070 kg/ha, Binh Phuoc - 2870 kg/ha, Tay Ninh - 2530 kg/ha.
- in 2016, Productivity of peper in whole country is 192,9 thousands tons, The provinces in High Central lands and South-Est occupied 94,97% of productivity in whole country



# Rubber

- According to the statistic, from 2004- 2016, the area of rubber increased 2,16 times, it is from 454,1 thousands ha to 981 thousands ha, average 8%/year, higher than the plan according to Decision 750/QĐ-TTg on 03 June, 2006 is 181 thousands ha.
- Rubber yielding in 2004 is 454,1 thousands tons, but it is 1,013 million tons in 2016, the increasing speed is 7,9%/year. The value of rubber occupied 25-33% of the value for crop production.

- The exportation of Rubber products is one of 7 agricultural products which is major products in Vietnam. Annum value of Rubber is 1,2-3,2 billion USD



# Rubber



# Orientation of development for Crops Production in Vietnam

- Planning review of “Key Crops” such as: rice, vegetables, fruit, coffee, rubber, pepper, cashew, cassava
- Step by step construction of infrastructure investment for main production area
- Promote research, applied science and technology, especially breeding and farming system
- Enhance the application of mechanization
- Development of agricultural production of high technology, production under GAP, Organic
- Adapting climate change



# Applying of Smart-Technology

- Climate change as rain, dry, flood... must be closed monitor for warning to reduce of damage;
- Initial apply the remote sensing technic, smart technic and IT to Smart Rice Cultivation.
- The Model to link products and consumer through truy suất nguồn gốc, thông tin sản phẩm, thông tin sản xuất với người tiêu dùng qua Smart phone

Sơ đồ công nghệ Trạm Thời tiết Tự động AWS  
(Automatic Weather Station) Công nghệ iMetos®



# Experiences of GAP for rice production in Viet Nam

Rice is Nation Product which is one of 4 National Products in Agriculture sector

Seed and Science – Technology Program invest to the breeding new plant varieties, good tolerance from disease and insect as bad environment ; New Plant varieties contributing to improve of yielding and reduce of risk for climate change

Result of the survey (DCP-MARD) shown that in whole country there are 154 normal rice; 80 F1 hybrid; 18 sticky rice . There are 4 varieties those cultivation area more than 0,5 Million ha; 5 varieties with 0,2-0,5 million ha; 5 varieties those cultivation area from 0,1-0,2 million ha. There are 26 varieties those 50.000 ha, 13 varieties which area more than 100 thousands ha

Some varieties from Public research institute which cultivation area big as OM4900, OM6976, OM 5451; Nàng hoa 9; some varieties are good tolerance on salty is 4‰, good quality and suitable for the market

# Solution for suitable cultivation

Complete of irrigation system in the key area for rice. 94% of rice area is good irrigation (Survey on 2013-TCTL) compare to 60% in the 90 decade of last century

Comprehensive research on rice cultivation: Link of variety and soil, proper utilization of fertilizer in each area, applying IPM and ICM.

Research to change from long duration with thermo-sensitive and photo-sensitive in summer season to the short duration varieties with good tolerance;

Applying the model for proper utilization of fertilizer: reduce 3, increase 3; 1 phải 5 giảm, SRI

# Solution for suitable cultivation

Flexible cultivation for suitable to nature, climate change (living with flood, dry, salty) instead of “against”

Success of the model “RICE-SHRIMP” at the provinces in the beach and Ca Mau peninsula, Cuulong river delta;

And the model : RICE- FISH (or green leg shrimp)-DUCK is also bring a high economy effective; or the organic rice cultivation with out of chemicals,

Cultivation for purpose of giảm phát thải khí nhà kính

Change the rice area which difficult for irrigation to upland crops: Corn, sweet corn, Cucumber, chili, ...in order to increase of effective on using land

# Strengthening of Value chain production

- The model of link-production “Big field” in production of High quality rice: Farmer’s cooperative, Local Agriculture Cooperative; Enterprise - Scientist.
- Enterprises to provide technic, inputs material (fertilizer, chemical...); preparation of soil, implementation of technical guidelines from production, processing ... follow the intruction by technical staff and keep in store if low price
- Step by step to establish of trade-mark and link to market.

-Tập đoàn Lộc trời với diện tích cánh đồng lớn hàng trăm ngàn ha; sản xuất gạo thương hiệu “hạt ngọc trời”, gạo mềm, gạo lức..

-Công ty Angimex; Công ty LT Hậu giang , CTTNHH Công Bình, Thịnh phát...



# Strengthening of Value chain production

- Small and Medium Enterprises (SME);
- Startup Enterprises
- Production fresh rice follow safety standards: Globle GAP, Organic..to meet the technical barrier of partners;
- Transparency of Information on the production.

- Slogan: “Delicious rice depend on the variety, fresh rice based on producer’s heart”





*Thanks for your Attention*

