

I. Government Vision and Target of Agriculture Development

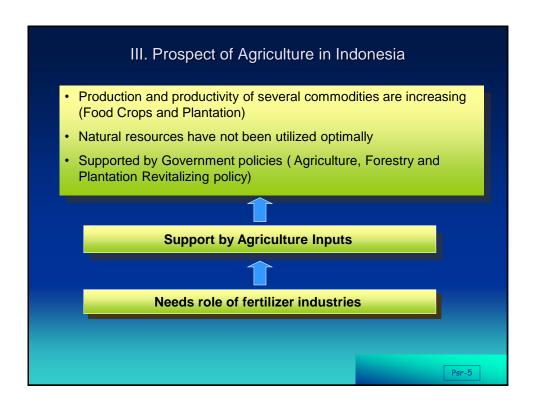
Vision

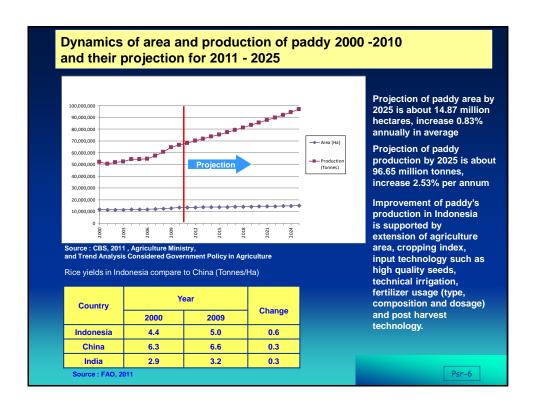
Towards an industrial agriculture system which are highly competitive, and sustainable to ensure food security, added value, export, and farmer's welfares

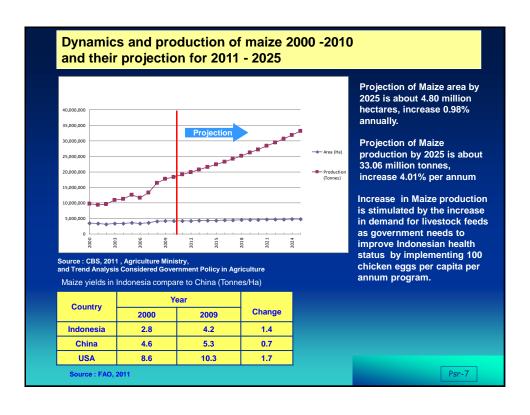
- Targets
 - Achieving self-sufficiency and sustainable self-sufficiency
 - Increasing food diversification
 - Enhancing added value and export competitiveness
 - Improving the farmer's welfare

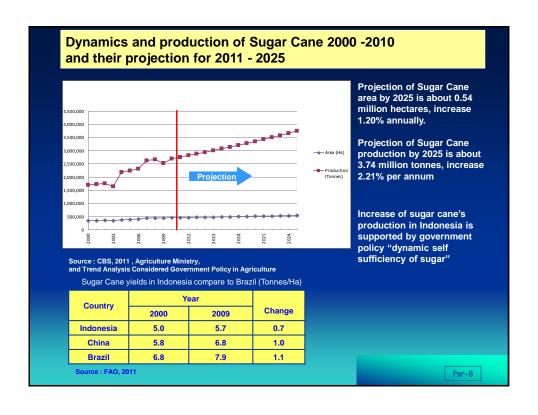
II. Current Status of Agriculture in Indonesia 1. Contribution of Agriculture to GDP and Employment Agriculture sector has been driving rural economy Agriculture sector has significant contribution to GDP (6th place after Processing Industry: Trading, Hotel and Restaurant; Mines; Service; Building) Agriculture sector provides big employment (38.3 % of total labor forces) Source: CBS, 2011 Agriculture sector provides big employment (38.3 % of total labor forces)

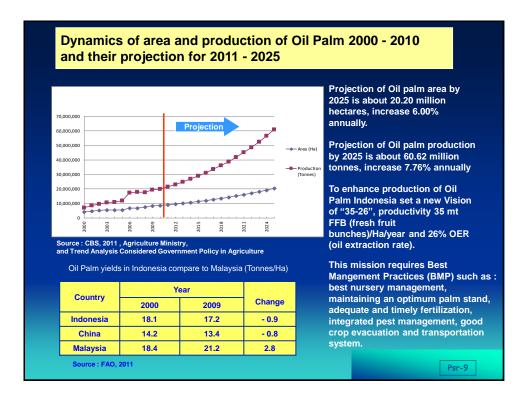


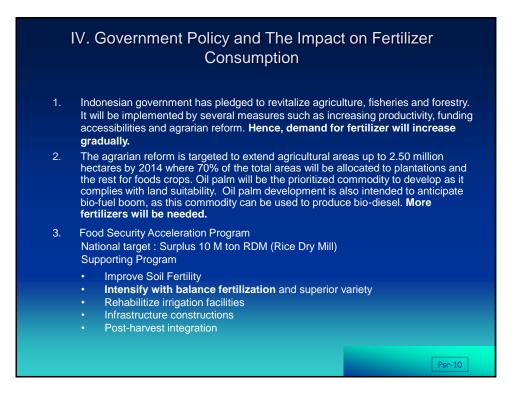












4. Efforts to improve NPK Fertilizer Consumption in Indonesia

Food Crops

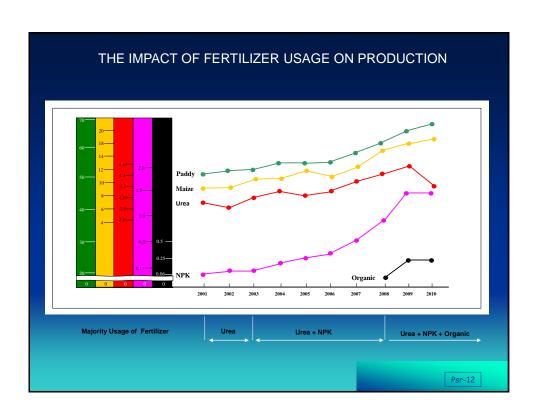
Government provide subsidy for fertilizer usage on food crops Intensify sosialization & promotion on the usage of NPK fertilizer in food crops.

Plantation

Promotion & market penetration in estate crops which have not been intensively taken care of.

5. Organic Fertilizer

- The organic fertilizers are used for restoring and improving soil structures and this can be considered as complement to chemical fertilizer usages. Hence the demand for organic fertilizer increases as demand for chemical fertilizers raises.
- Government of Indonesia recently has started "Go Organic Program" and subsidize the organic fertilizer → The demand for organic fertilizer will increase significantly.



V. FERTILIZER CONSUMPTION ON UREA, COMPOUND & ORGANIC

1. Target of agriculture production (million tonnes)

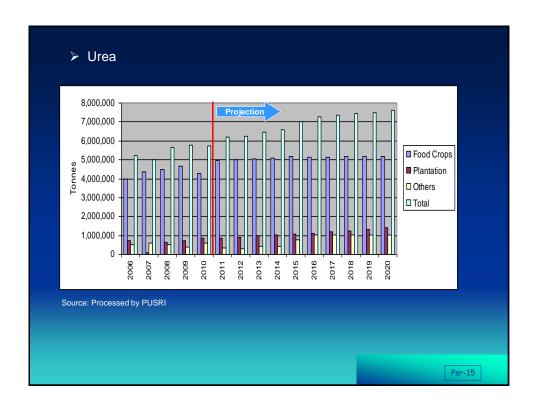
Commodity	2010	2020		
Paddy	66.41	85.28		
Maize	18.33	27.16		
Sugar Cane	2.69	3.35		
Oil Palm	19.76	41.72		
Rubber	2.59	4.53		

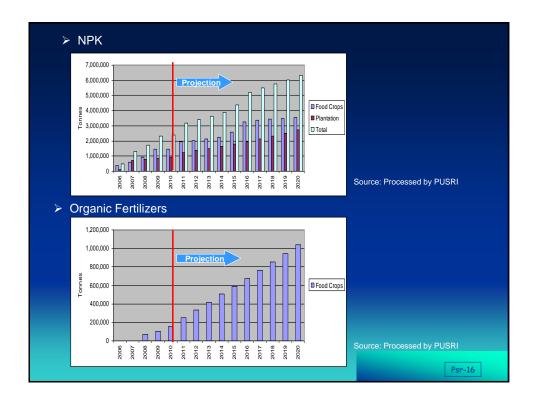
- 2. To achieve production in 2020 the use of compound fertilizer should be increased in order to fulfill nutrition need. Meanwhile, the use of urea is stable. More nitrogen is supplied from compound fertilizers.
- 3. The change of use of straight and compound fertilizer is as follows:

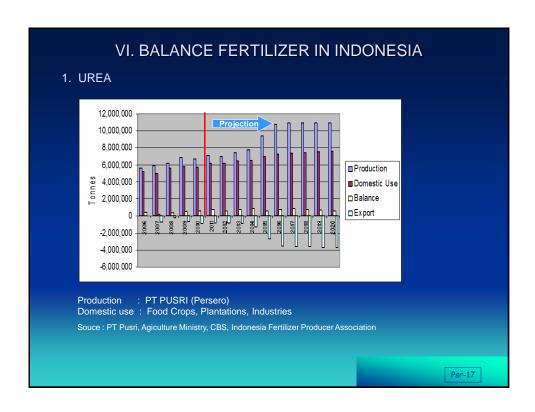
Year	Straight	Compound		
2008 – 2010	70 %	30%		
2011 – 2015	60%	40%		
2016 - 2020	50%	50%		

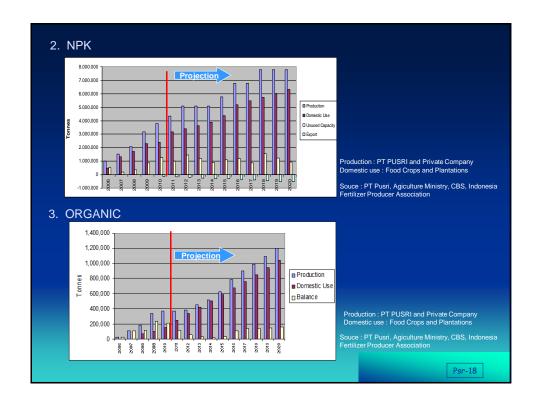
Source : Agriculture Ministry, 2010

4. Dosage of Compound fertilzer	Crops	Urea	NPK	Organic	
(NPK 15-15-15)	Paddy (Kg/Ha)	200	250	500	
	Maize (Kg/Ha)	200	250	500	
	Sugar Cane (Kg/Ha) *	-	480	1000	
	Oil Palm (Kg/Tree)*	-	5.5	-	
) still use AS / Kieserit as complement Source : Agriculture Ministry, 2010	Rubber (Kg/Ha)	100	200	-	
Dosage of straight fertilzer Ammonium Sulphate Source : Agriculture Ministry, 2010	Crops	Urea	SP-36	KCI	Kieserit
	Paddy (Kg/Ha)	300	125	75	-
	Maize (Kg/Ha)	400	150	75	-
	Sugar Cane (Kg/Ha)	800*	200	200	-
	Oil Palm (Kg/Tree)	0.9	2.3	2.4	1
	Rubber (Kg/Ha)	165	125	145	-
Assumptions (Source: Agriculture - Dosages of fertilizer for oil pa The number in the table is ave - The use of fertilizers by small - 100 % of large scale estates - The use of organic fertilizer is - Method of projection is carried	Im and rubber are differen erage. holder estates : oil palm 8 (enterprises) use fertilizer. 5 - 20 % of area.	0%, rubbe	r 30%.	y and trend	I analysis.









VII. Strategy Pusri (Persero) to Fullfill Fertilizer Demand

1. SECURE RAW MATERIAL

- > Setting long-term supply guarantee of Natural gas and Coals
- Establish new Phosphoric Acid Plant in Indonesia through Join Venture with owner of Phosphate Rock Mining Jordan
- > Setting-up a long-term supply with the K producers

2. INCREASE PRODUCTION CAPACITY

Revitalize/develop new plants:

- Ammonia/Urea : Sumatera, Kalimantan, Java, Sulawesi, Papua
- > NPK : Sumatera, Java, Kalimantan
- Organic Fertilizer: Co-operate with third party in Sumatera, Java, Kalimantan

3. TOTAL CAPACITIES IN 2020

Urea : 11.050.250 MT

➤ NPK:

- Pusri : 4.510.000 MT - Private : 1.950.000 MT ➤ Organic Fertilizer : 1.000.000 MT

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VIII. CONCLUSION REMARKS

- Agricultural development in Indonesia has been growing impressively and can be represented by several improvements in agriculture areas and productions.
- In the future the demand for fertilizers in Indonesia will increase significantly, both subsidized and non subsidized.
- Indonesian Government encourage conversion of straight fertilizer to compound fertilizer.
- The use of compound fertilizer (NPK) and organic fertilizer in the future will increase dramatically, substituting straight fertilizer. However the use of urea will be stable.
- Indonesia will be a major exporting country for Urea and NPK in South East Asia.