

A regional perspective of fertilizer production and use in the Asia-Pacific region

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Content

Background

Agriculture situation

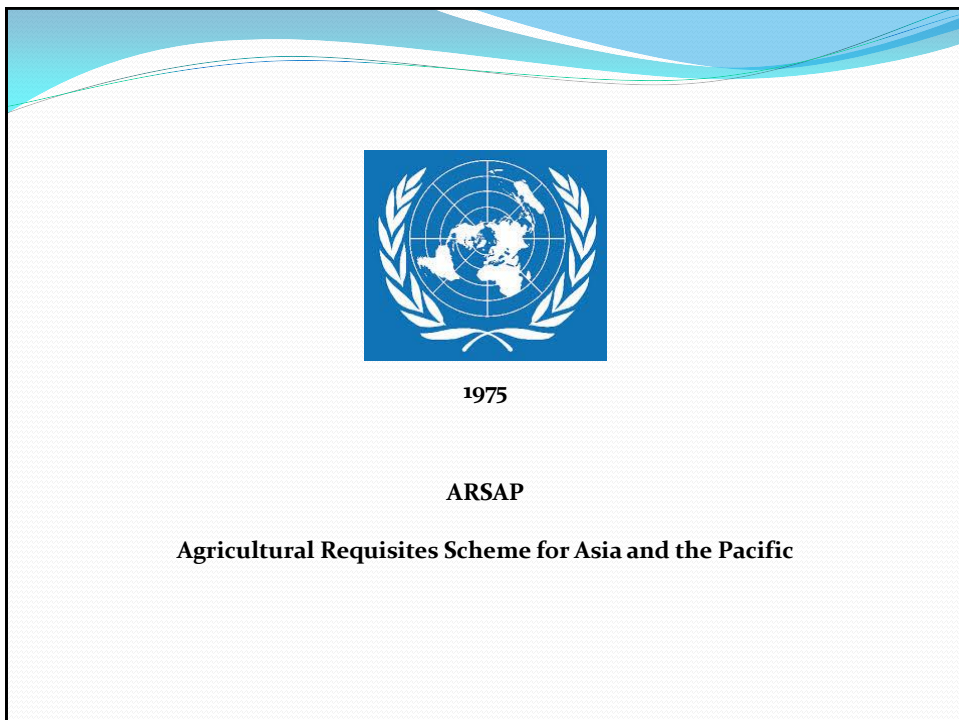
- Area
- Crops

Fertilizer situation

- Supply
- Drivers
- Demand
- Future trends

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1978

FADINAP

Fertilizer Advisory, Development and Information Network
for Asia and the Pacific

IFA-FADINAP Cooperation

Asia-Pacific Regional Conferences



1991, New Delhi, India



1990, Phuket, Thailand

GDP growth rates in selected AP countries (%)

	1981-85	1986-90	1991-95	1996-2000	1981-85	2006-10
Bangladesh	0.9	1.1	2.1	3.2	3.7	4.9
China	9.3	6.3	10.9	7.6	9.1	10.6
India	2.9	3.8	3.2	4.0	5.4	7.1
Indonesia	3.4	5.2	6.2	-0.4	3.4	4.6
Malaysia	2.4	3.8	6.7	2.5	2.5	2.7
Pakistan	3.2	2.5	1.9	0.7	3.1	2.4
Philippines	-3.8	2.0	-0.2	1.3	2.5	3.2
Thailand	3.4	8.4	7.7	-0.5	3.9	2.9
Vietnam	nd	2.4	6.4	5.4	6.2	5.9

Source: WB

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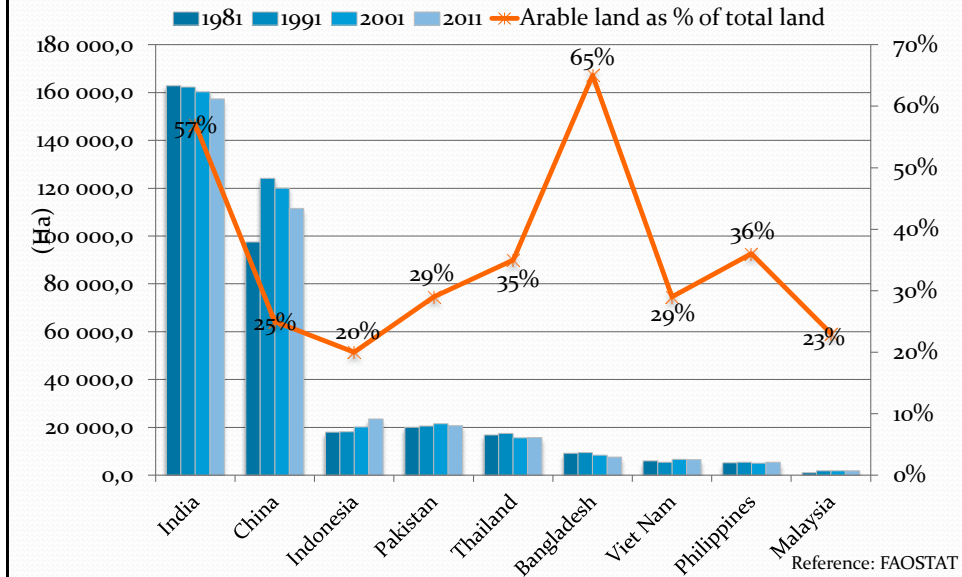
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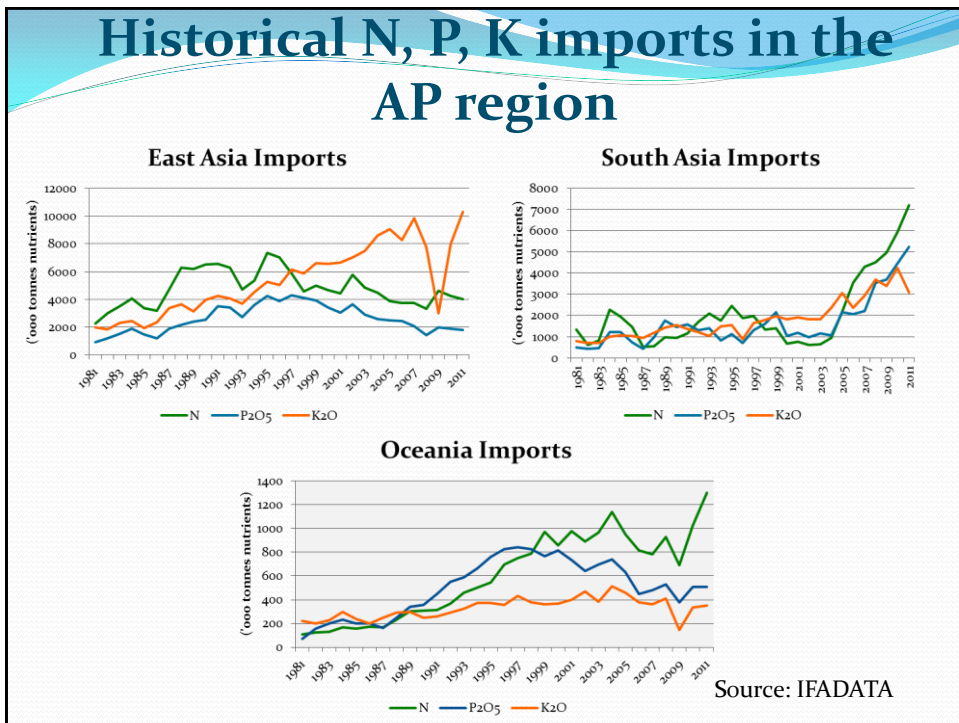
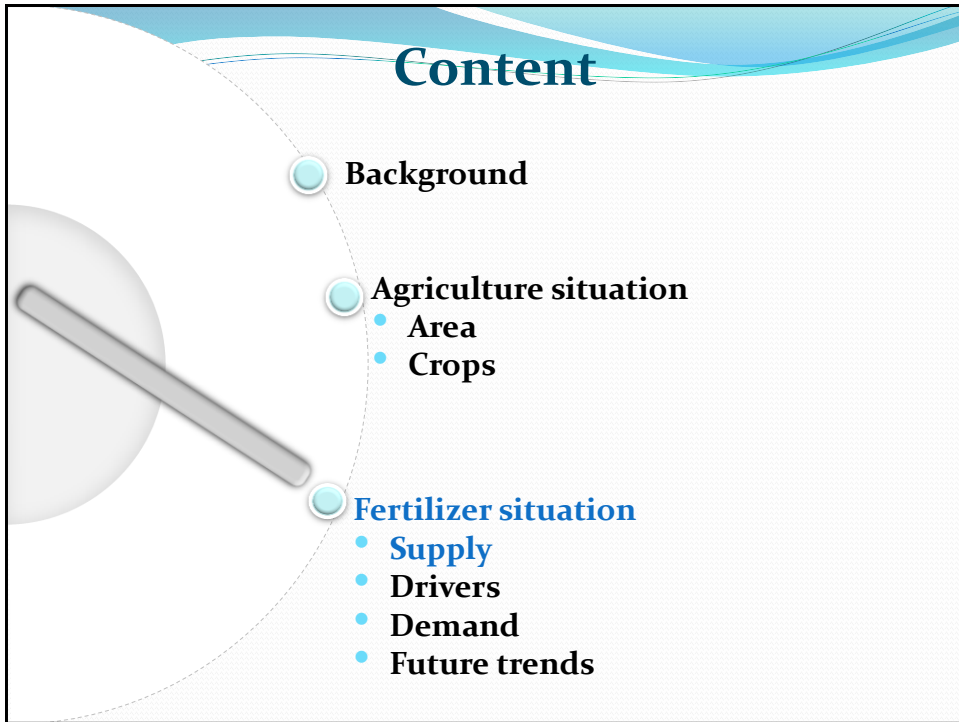
Changes in arable land area in selected countries in the AP region

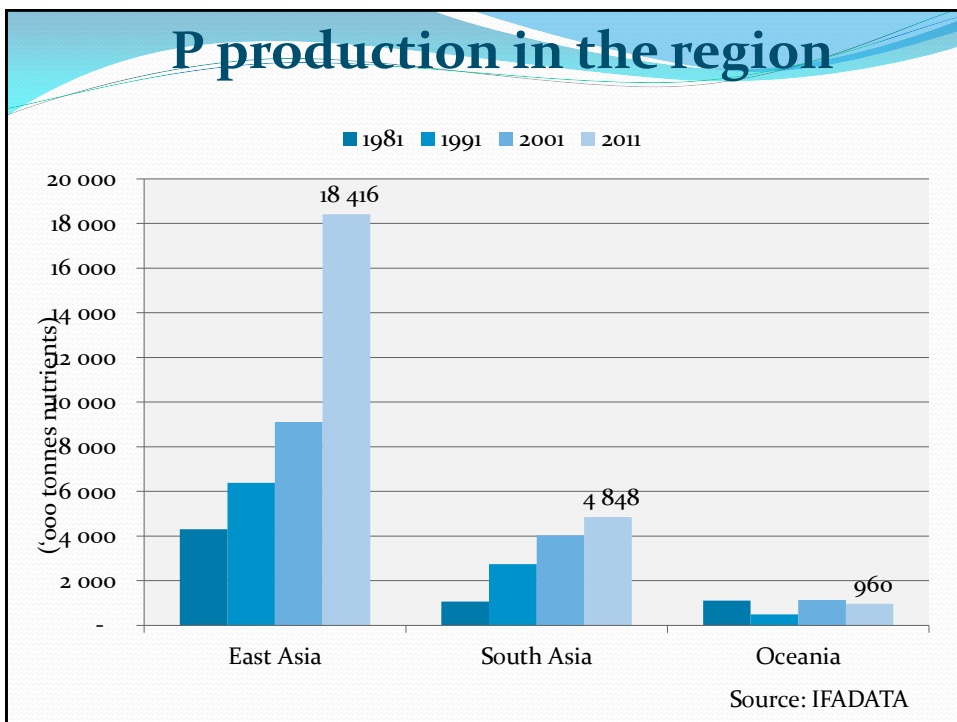
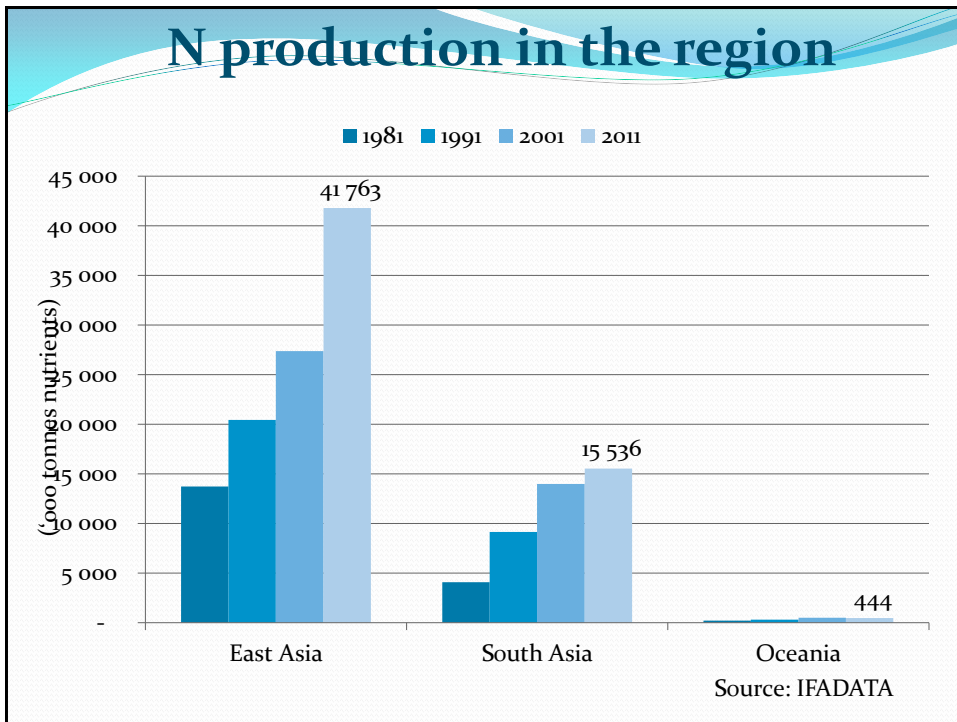


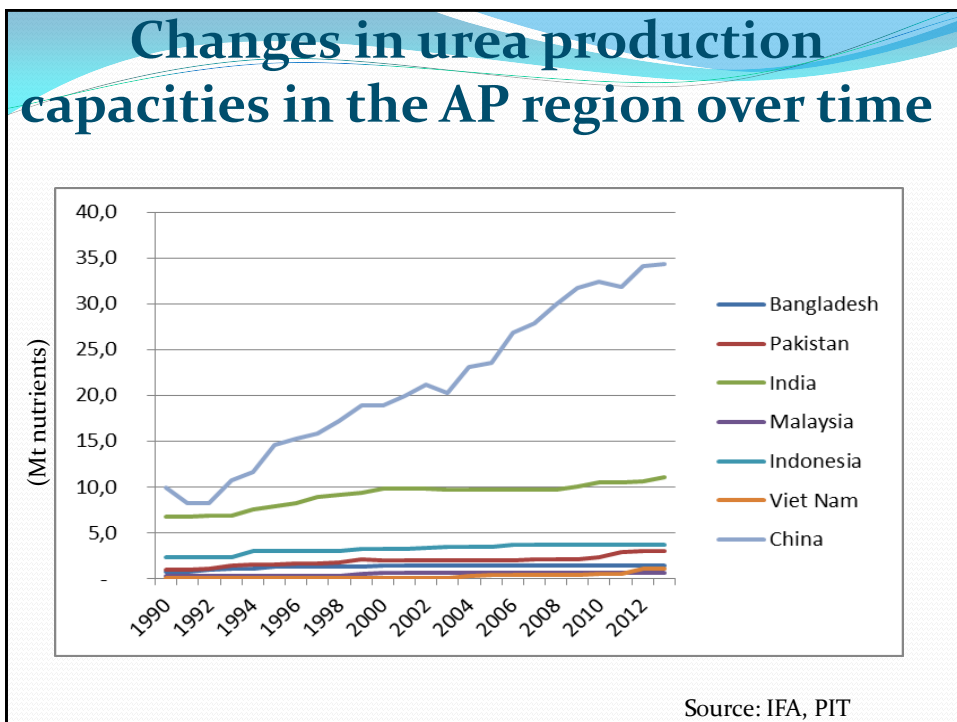
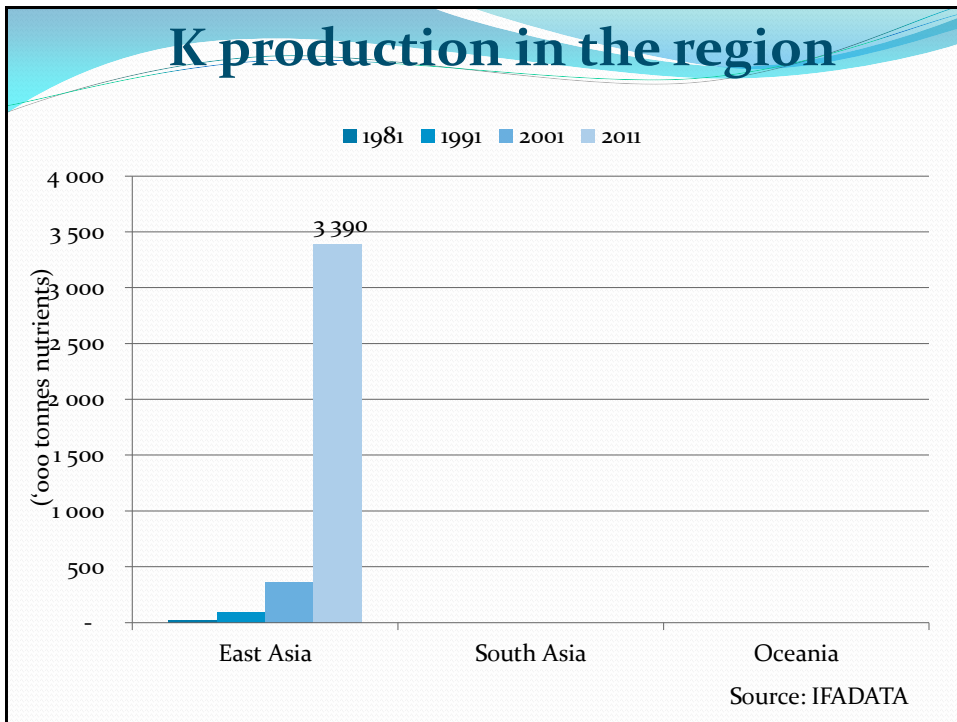
Important crops in selected countries

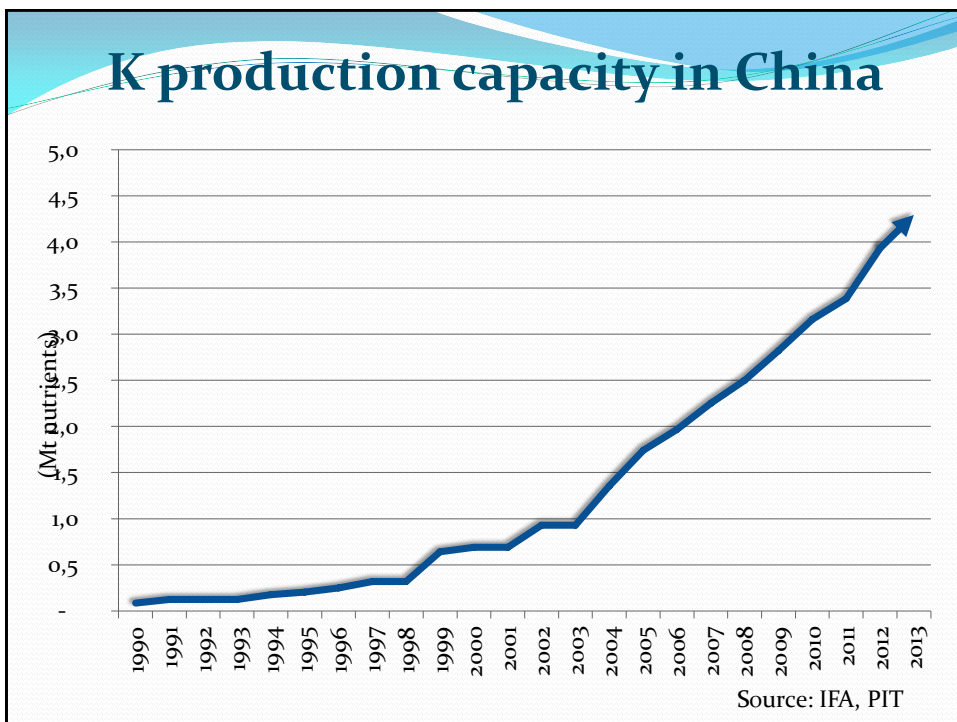
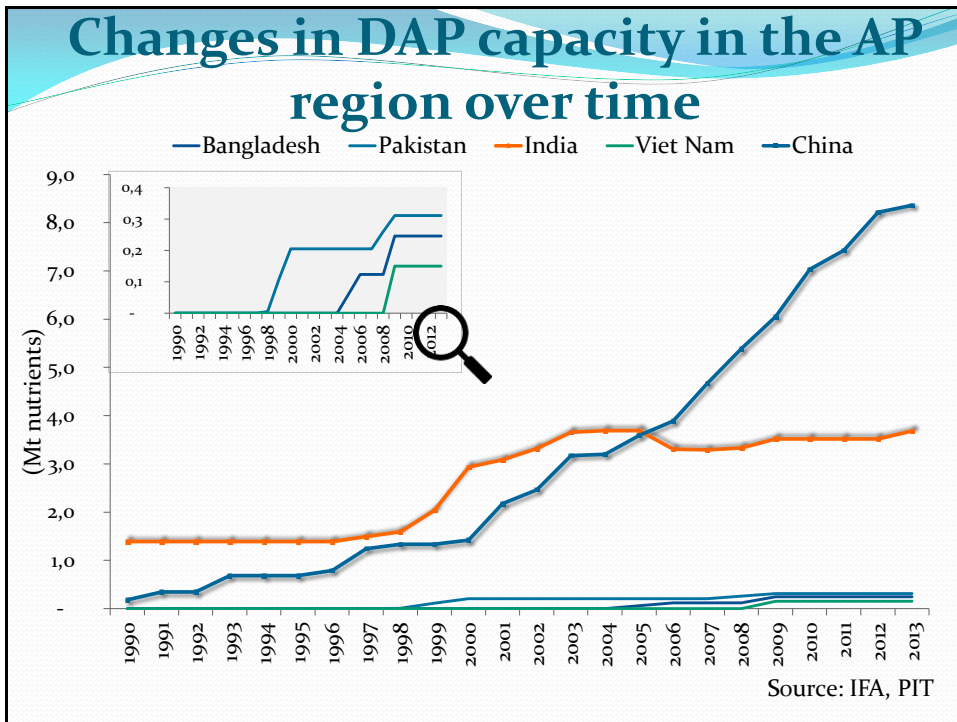
	China	India	Indonesia	Malaysia	Pakistan	Philippines	Vietnam
Rice		Sugar cane	Oil Palm	Oil Palm	Cotton	Coconut	Rice
Fruits and vegetables		Rice	Rubber	Rubber	Sugarcane	Bananas	Coffee
Maize		Wheat	Cocoa	Cocoa	Rice	Rice	Rubber
Wheat		Tea	Coconut		Wheat	Sugar cane	Cashew
Tea		Cashew	Coffee			Pineapple	Pepper
			Rice				Tea

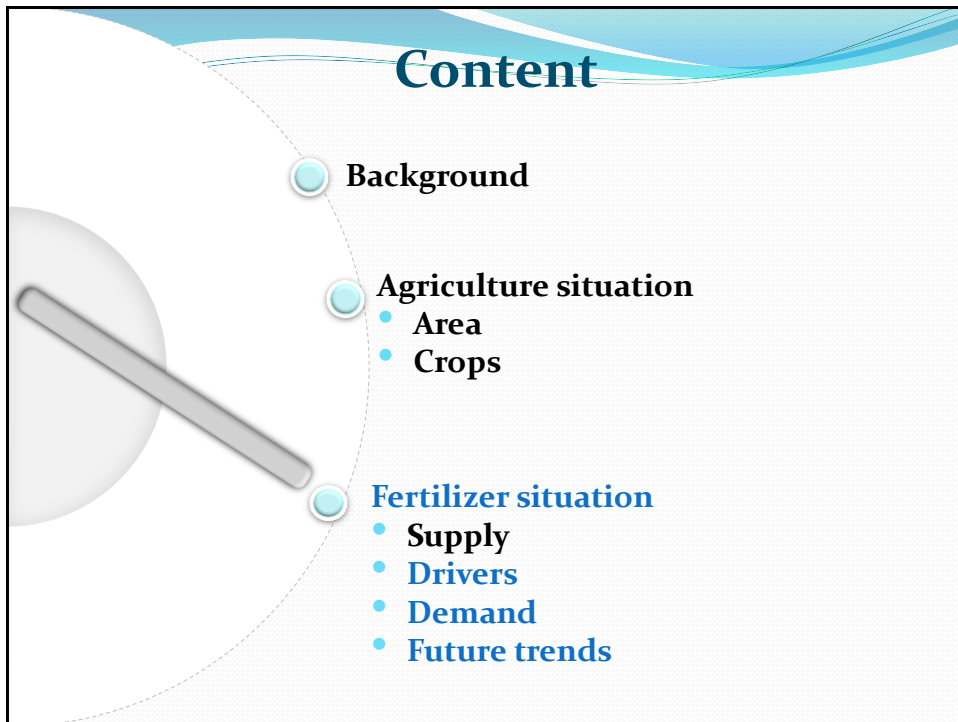
Source: WB











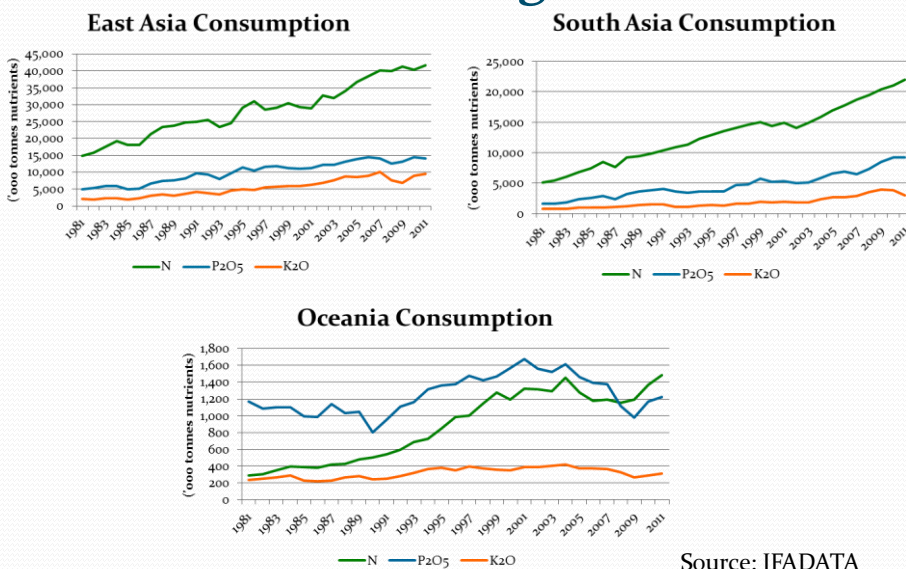
Scenario

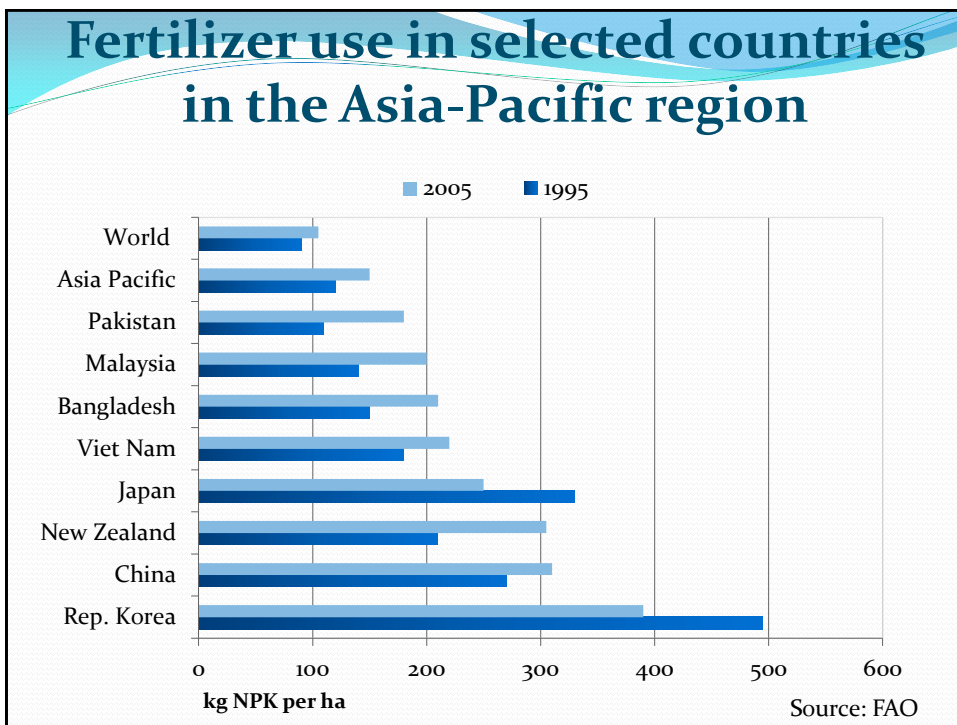
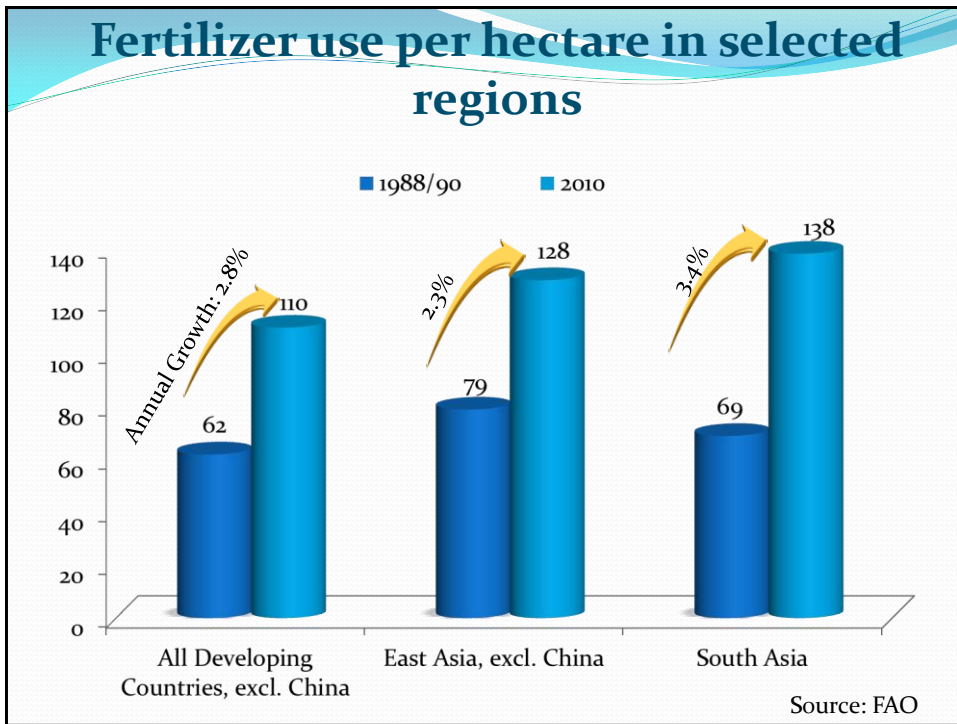
- All developing countries in the AP region are, at least to some extent, dependent on fertilizer imports
- Demand for fertilizer in the region is highly dependent on world market prices.
 - Price volatility was due to the dependence of production and distribution of fertilizers (esp. N) on energy: the sharp rise in oil prices contributed to a sizeable increase in production costs.
 - Exchange rate

Drivers of fertilizer demand in the AP region

- Expand food production to ensure food security
- Reduce the incidence of malnutrition among the growing population
- Export surplus to generate foreign exchange

Historical N, P, K Consumption in the AP region





Future trends

Demand

- NUE – will increase because of environmental concerns
- Impact of biotechnology in the short-term is uncertain (no breakthroughs - major improvement in NUE will still be agronomic)
- Food and nutrition security will remain the main driver of demand
- Availability of land and other resources

Supply

- Energy – development of shale gas
- Raw materials –availability, quality and cost of development
- Product safety and security