

Accelerating Agriculture Growth: Moving from farming to Value chains

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India's Economy: Performance and Challenges

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Outline

- Why Agriculture is important, and what can the Elephant (India) learn from the Dragon (China)?
- Indian agriculture: Under crisis or underperformance?
- To accelerate growth in agriculture, we need to move from farming approach to value chains, and reform the three "I"s...Investments (subsidies), Incentives, and Institutions.

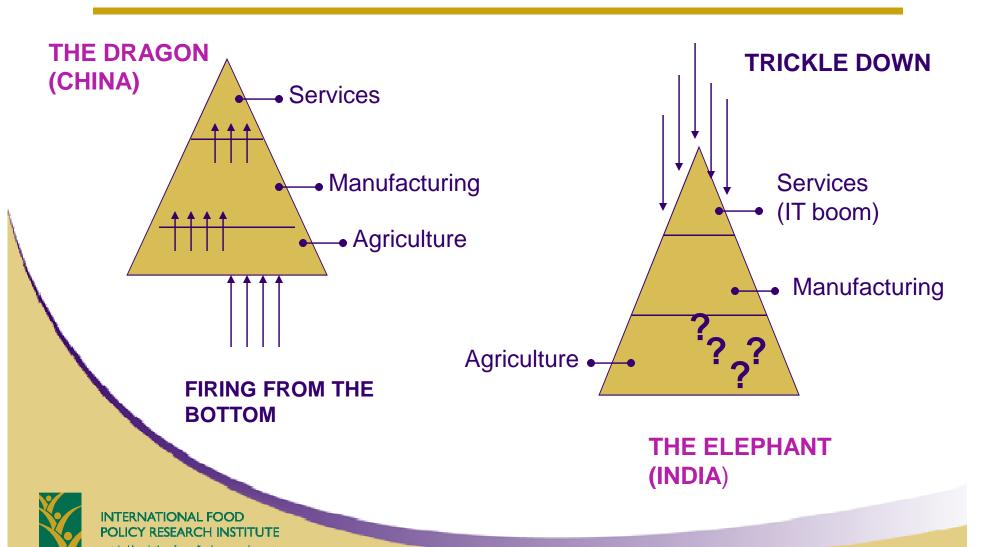
Why Agriculture?

- "GDP growth originating in agriculture is at least twice as effective in reducing poverty as GDP growth originating outside agriculture" (WDR, 2008).
- The figures for China and Latin America are reported to be 3.5 times and 2.7 times, respectively (World Bank 2007a: 6).1
 - An average Indian still spends roughly half of its expenditure on food (NSSO, 2004-05)

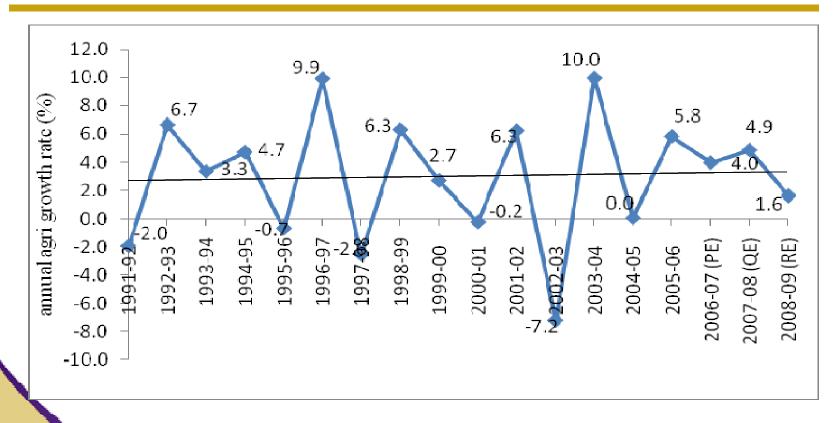


What does China story tell us?

Start with Agriculture...else the trickle down will work very slowly



Agriculture Performance: in crisis or underperformance? (avg. growth rate in agl.3%pa)

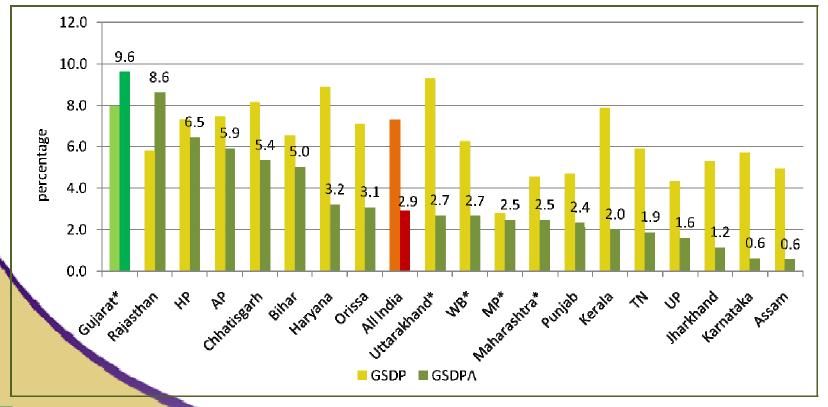


Source: Calculations are based on data published in National Accounts Statistics, CSO, Gol, various issues



But there are bright spots! Gujarat registering highest rate of growth in agriculture since 2000-01!

Average Annual Growth Rates of Gross State Domestic Product (GSDP) and Gross State Domestic Product from Agriculture (GSDPA): Major States and All India (%): 2000/01 to 2007/08





Source: Government of India, Central Statistical Organization (as of Feb 2009).

NTERNATIONAL FOOD

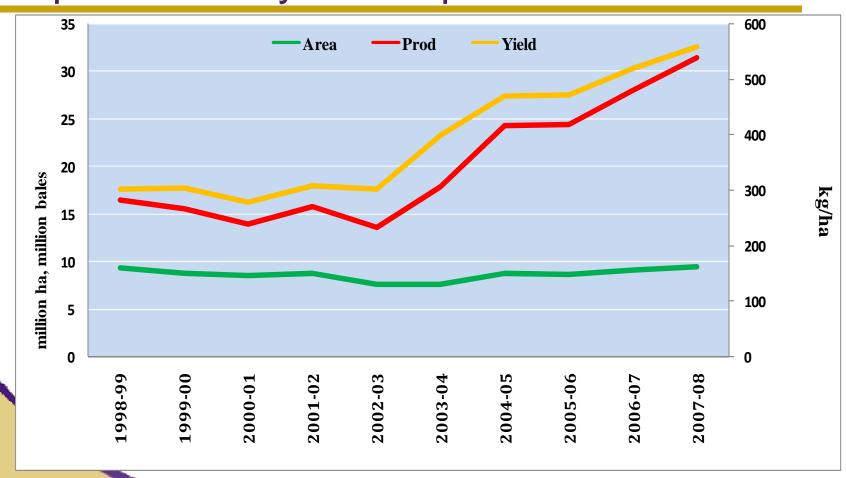
Average annual growth rate is from 2000/01 to 2006/07, the latest year for which data is available.

Occasionally, Indian agl. has risen to challenges...

- Surge I: Green revolution in late 1960s and 1970s (driven by Govt in close collaboration with international centers);
- Surge II: White Revolution in 1970s and 1980s (driven by linking cooperatives to demand centres, heavily supported by Govt investments)
- Surge III: Blast of Bt Cotton and Hybrid Maize (2002 onwards) (driven largely by the private sector)

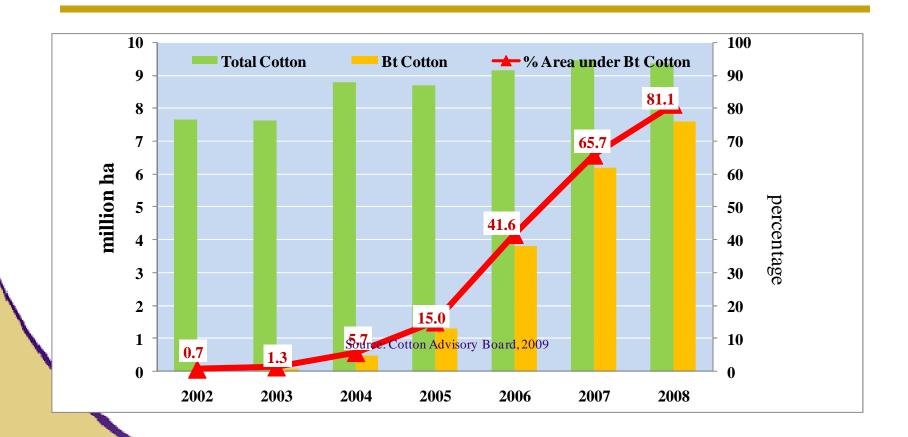


Surge III: A Blast of Bt Cotton ~pioneered by the corporate sector

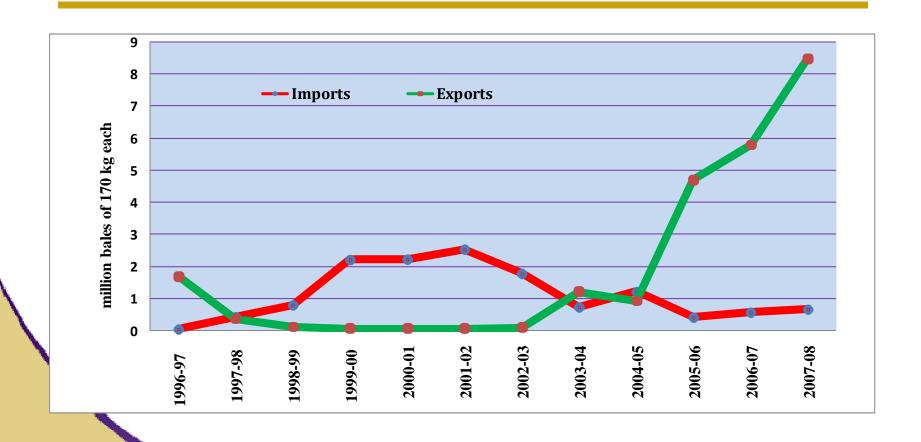




Rising share of Bt cotton in India



Impact: India emerged as 2nd largest exporter of cotton



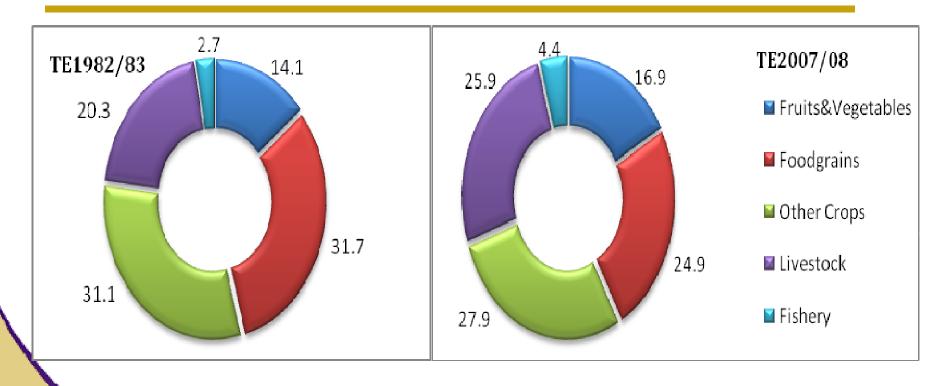


Next Surges could be in Hybrid Maize, Bt Brinjal??, and so on??

- Production of maize increased by 60% b/w 2000/01 to 2007/08; role of hybrid maize; and India exported about 3 mt of maize in 2007-08.
- Mahyco's Bt brinjal next? It has gone through several hops of government trials and now stuck at political level...
- There are several other biotech crops that are at field trial stage; cabbage, cauliflower, okra, potato, rice, etc.
- If the experience of other Bt crops is like that of cotton, global markets of several crops may be impacted



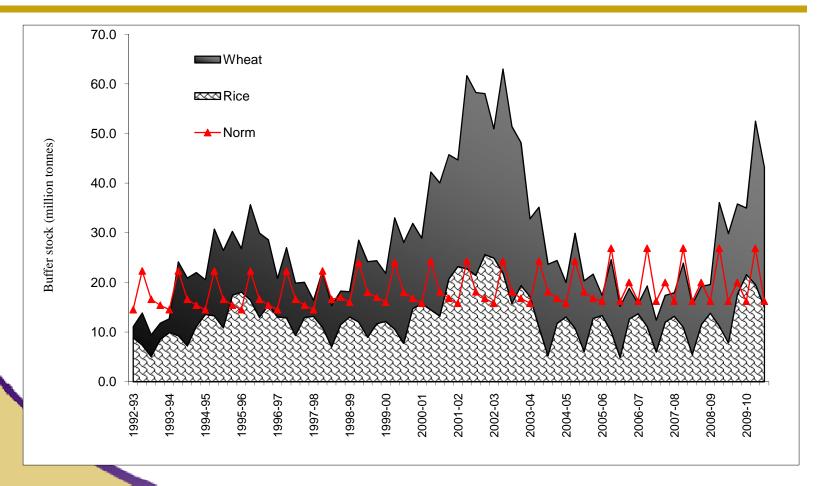
Food security and Diversification towards High Value Agl. (livestock, F&V, and fishery)



Source: National Accounts Statistics, Central Statistical Organization, GoI 2007 & 2009

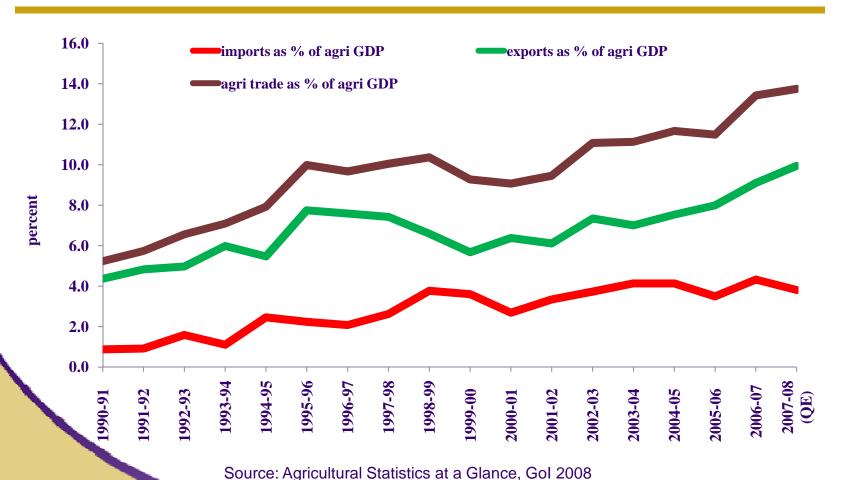


Rice & Wheat Stocks in the Central Pool





Gradual Integration with world economy: Increasing share of agri trade in agri GDP

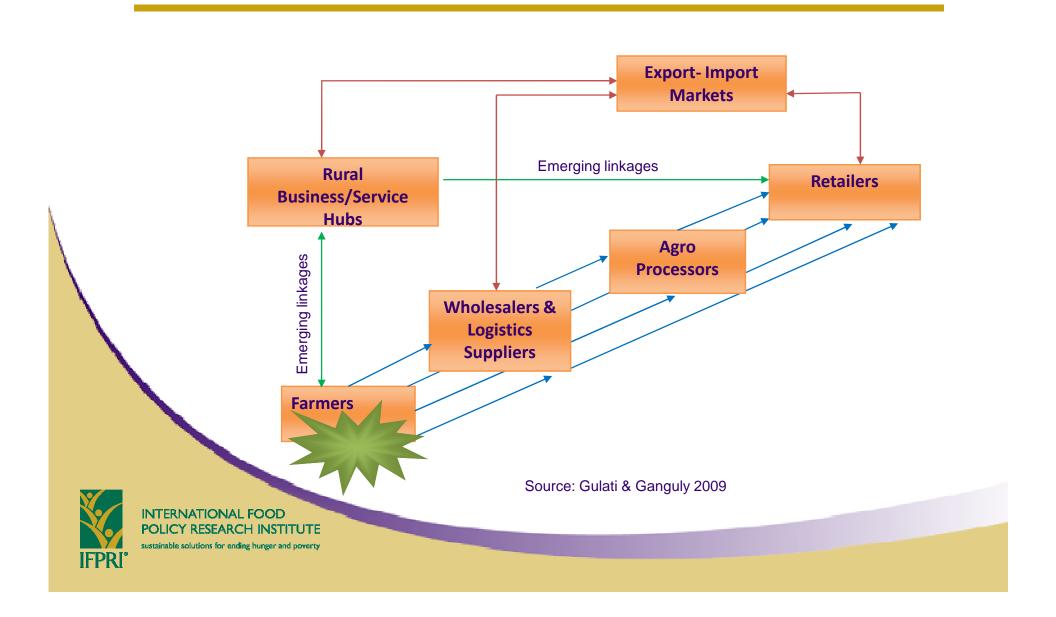




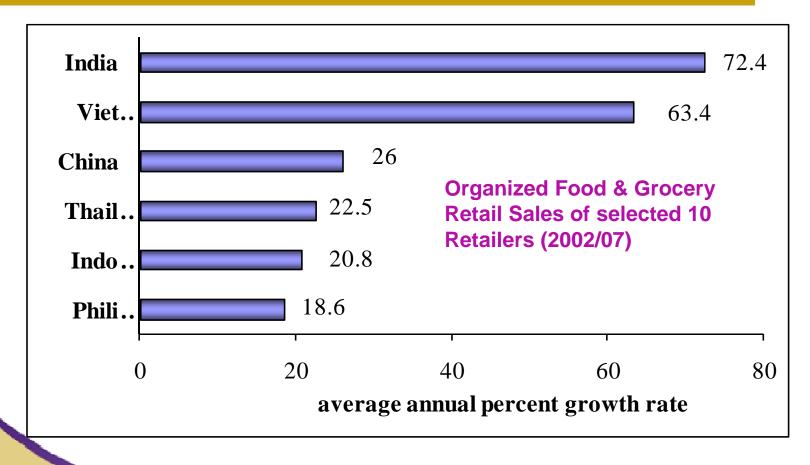
Rising Role of Corporate Players in HVCs

- Nestle working with more than one lakh farmers in Punjab for its dairy operations; Private sector likely to overtake co-operatives in the dairy sector by 2012... & many more
- Pepsi working with 11000 farmers in West Bengal, Maharashtra,
 Punjab etc. for its potato chips operations;
- Mahindra Shubhlabh Services Limited (MSSL) largest grape exporter in 2008
- Bharti Del Monte largest exporter of baby corns in 2008/09.

Challenges: Structural Transformation of Agrifood System - Consolidating top and fragmenting bottom



Retail Surge: Growth of Organized Food & Grocery Retail highest though from a low base

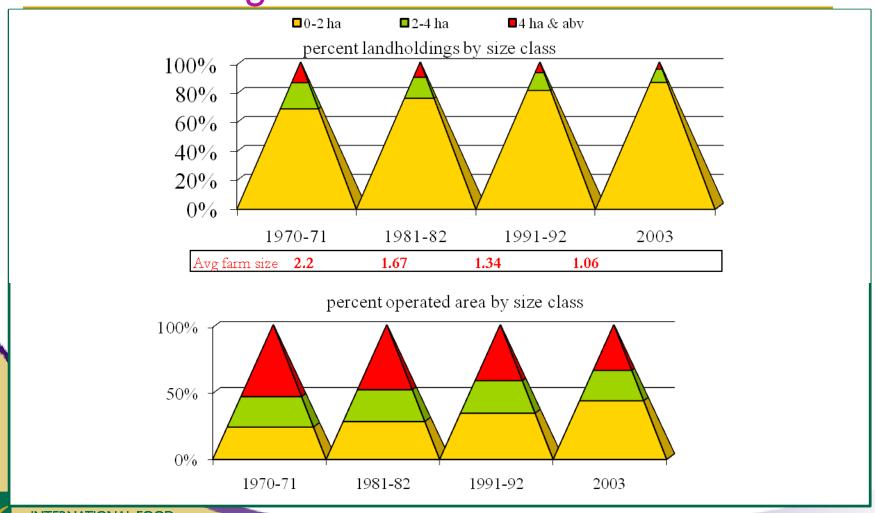




Note: Food sales include food, beverages, tobacco products, drugstore items and small everyday non-foods household goods.

Source: Planet Retail website, Accessed on 20th May, 2008

Fragmenting Farm Sector ~swelling bottom

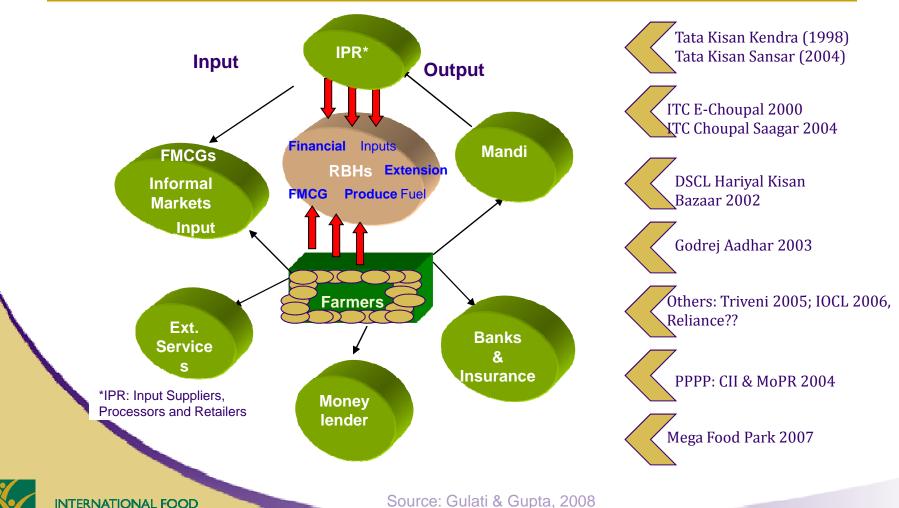




Source: NSSO, 2006

But back end is weak...

~emergence of RBHs to take up this challenge





Some Key Policy Choices: Three "I"s

Increase Investments and Rationalizing subsidies

Table: Returns in Growth to Investments and Subsidies

	1960s-70s	1980s	1990s
Returns in Agricultural GD	P (Rs per Re. Spending	•)	
Roads	19.99	8.89	7.66
Education	14.66	7.58	5.46
Irrigation Investment	8.00	4.71	4.37
Irrigation Subsidies	5.22	2.25	2.47
Fertilizer Subsidies	1.79	1.94	0.85
Power Subsidies	12.06	2.25	1.19
Credit Subsidies	18.77	3.00	4.26
Agricultural R&D	8.65	7.93	9.5



Source: Shenggen Fan, Ashok Gulati, and Sukhadeo Thorat 2008.

Some Key Policy Choices (contd...)

Reform Institutions

- Implementation of the amended APMC Act
- Abolishing ECA that restrict movement of selected agri commodities
- Create a vibrant land lease market

Re-adjust Incentives

- Delink procurement price from MSP
- Downsize the role of FCI, encourage private sector participation
- Promote social safety net & livelihood programs, Eg; NREGS

