



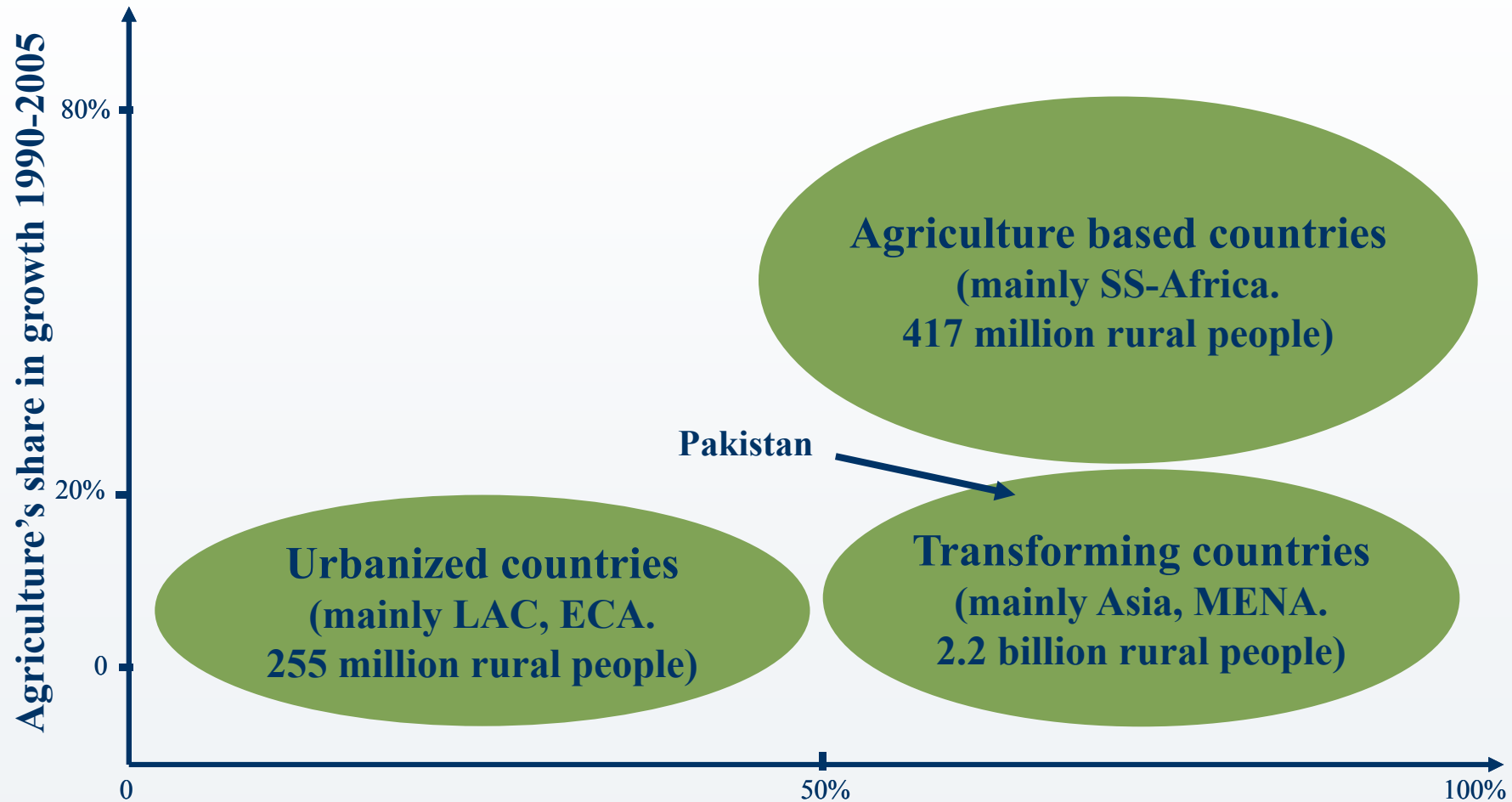
# **Small Farming in Pakistan: Issues and Challenges**

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# Agriculture's Functions in Three Worlds

Source: WDR, 2008



Rural poor/total poor, 2002

# Pakistan's Position in World Agriculture

- **Wheat** --- 8<sup>th</sup> largest, comparative advantage in import scenario; Irrigated areas (96%), Rainfed areas (4%)
- **Cotton** --- 4<sup>th</sup> largest; Major export and agro-industrial crop; Longest value chain + employment + edible oil; irrigated
- **Livestock** --- Rank in top 15 most populous countries of the world
  - 2<sup>nd</sup> in buffalo; 13<sup>th</sup> in cattle; 9<sup>th</sup> in sheep pop.; 3<sup>rd</sup> in goats pop.
- **Rice** --- 11<sup>th</sup> largest; Comparative advantage in basmati and some coarse varieties under export scenario, irrigated areas (100%)
- **Sugarcane** --- 5<sup>th</sup> largest; Comparative advantage in import scenario; irrigated areas (100%)
- **Pulses** --- no position; heavy imports; Irrigated, Rainfed
- **Fruits** --- no position, Comp. advantage in many fruits & Kinnow is our specialty
- **Vegetables** --- no position; Comp. advantage in potato by Punjab Irrigated, Rainfed areas

# Farms and Farm Area Composition - Pakistan

Farm Size Groups	Farms Composition (%) (Average Farm Size (Acres))					Farm Area Composition (%) (Average Wheat Area (Acres))				
	1972	1980	1990	2000	2010	1972	1980	1990	2000	2010
Marginal (upto 2 Ha)	28.2 (2.4)	34.1 (2.4)	47.4 (2.2)	57.6 (2.1)	64.7 (1.9)	5.2 (1.1)	7.0 (1.4)	11.2 (1.3)	15.5 (1.3)	19.2 (1.4)
Small (2 to 5 Ha)	39.9 (8.2)	39.4 (8.0)	33.5 (7.7)	28.1 (7.6)	24.8 (7.4)	25.1 (3.4)	27.3 (3.8)	27.6 (3.9)	27.9 (4.2)	28.8 (4.7)
Medium (5-10 Ha)	21.1 (16.5)	17.3 (16.5)	12.3 (16.4)	8.8 (16.6)	6.8 (16.7)	26.6 (5.9)	24.7 (6.5)	21.6 (7.1)	19.1 (7.8)	17.7 (9.2)
Large (10-20 Ha)	7.7 (31.9)	6.5 (31.8)	4.7 (31.5)	3.9 (31.5)	2.6 (31.9)	18.8 (9.8)	17.8 (10.5)	15.8 (11.8)	16.3 (12.5)	12.7 (15.3)
Landlords (> 20 Ha)	3.2 (100)	2.7 (99.1)	2.1 (105)	1.6 (99.9)	1.1 (122.7)	24.2 (19.4)	23.2 (24.5)	23.7 (28.1)	21.2 (25.5)	21.5 (30.6)

Source: Agriculture Censuses, Various Issues

# Cropping Patterns by Farm Size Groups (% Cropped Area)

Crop types	Marginal (upto 2 Ha)	Small (2 - 4 Ha)	Medium (5 -10 Ha)	Large (10-20 Ha)	Landlord (> 20 Ha)	All Pakistan
Wheat	43.3	41.2	40.5	39.0	35.6	40.4
Rice	11.0	14.1	12.3	12.3	11.1	12.5
Cotton	12.3	13.4	15.1	14.1	14.0	13.7
Maize	8.7	3.5	1.9	1.6	1.7	3.7
Sugarcane	3.0	3.9	3.7	3.7	4.9	3.8
Potato	0.3	0.3	0.4	0.4	0.9	0.4
Oil Seeds	0.9	1.8	2.3	2.4	2.7	1.9
Pulses	1.7	3.3	6.1	9.4	11.3	5.4
Fodder	12.0	11.8	10.6	9.2	6.9	10.6
Vegetables	1.7	1.7	1.9	2.1	3.4	2.0
Orchard	1.1	1.1	1.5	1.6	4.0	1.6

Source: Agriculture Census, 2000

# Area Planted per Farm (Ac.)

<b>Crop types</b>	<b>Marginal</b> (upto 2 Ha)	<b>Small</b> (2 - 4 Ha)	<b>Medium</b> (5 -10 Ha)	<b>Large</b> (10-20 Ha)	<b>Landlord</b> (> 20 Ha)	<b>All Pakistan</b>
<b>Wheat</b>	1.7	5.1	9.8	16.5	37.4	4.4
<b>Rice</b>	1.7	4.5	8.3	14.9	34.4	4.5
<b>Cotton</b>	1.8	4.7	8.7	15.5	39.9	4.9
<b>Maize</b>	1.2	3.2	4.7	6.7	14.8	1.9
<b>Sugarcane</b>	1.2	2.1	3.3	6.0	17.3	2.6
<b>Potato</b>	0.7	2.0	4.1	5.9	22.1	2.4
<b>Oil Seeds</b>	0.9	1.9	3.0	4.9	12.7	2.5
<b>Pulses</b>	1.3	3.4	7.5	14.0	36.0	6.3
<b>Fodder</b>	1.2	2.5	3.8	5.8	11.2	2.4
<b>Vegetables</b>	1.0	2.0	3.2	4.9	14.1	2.4
<b>Orchard</b>	1.1	2.5	4.1	5.0	18.7	3.4

Source: Agriculture Census, 2000

# Status of Commerce in Agri. Commodities

<b>Commodities/Groups</b>	<b>Policy</b>	<b>Price situation</b>	<b>Government intervention</b>	<b>Implications</b>
<b>Wheat</b>	<b>Support price</b>	<b>Below and above</b>	<b>Highest</b>	<ul style="list-style-type: none"> <li>- Subsistent farmers not benefited</li> <li>- High costs to public exchequer</li> <li>- Resource misallocation</li> </ul>
<b>Rice</b>	<b>Support price</b>	<b>Less fluctuate</b>	<b>Minimum</b>	<ul style="list-style-type: none"> <li>- Farmers more exposed to changes in international market</li> <li>- High costs to public exchequer</li> </ul>
<b>Sugarcane</b>	<b>Support price</b>	<b>Always higher than SP</b>	<b>Least</b>	<ul style="list-style-type: none"> <li>- Miss-allocation of resources on farmers' part</li> <li>- Water use/pumping implications</li> </ul>
<b>Cotton</b>	<b>Support price</b>	<b>International market</b>	<b>Least</b>	<ul style="list-style-type: none"> <li>- Recent developments in Bt cotton are directly affecting food security</li> <li>- Fake Bt cotton is affecting farmers and cotton economy of Pakistani</li> </ul>
<b>Potato</b>	<b>Laissez fair</b>	<b>Market</b>	<b>None</b>	<ul style="list-style-type: none"> <li>- Wide price fluctuations</li> </ul>
<b>Fruits/Veg.</b>	<b>Laissez fair</b>	<b>Market</b>	<b>None</b>	<ul style="list-style-type: none"> <li>- Wide price fluctuations</li> </ul>
<b>Livestock</b>	<b>Meat price</b>	<b>Market</b>	<b>None</b>	<ul style="list-style-type: none"> <li>- Prices rising regularly</li> </ul>

# Small Farming Issues

- Small marketable surpluses available
- Low capital and other resources available
- Late adopters in many technologies, e.g. seed, machinery
- Food security concerns always dominate in farm plans
- Increasing inclination towards part-time farming due to low insufficient livelihood from agriculture
- High dependence on conventional marketing channels
- Lack of synergies between production and marketing plans
- Highest vulnerability to price seasonality
- Poor resilience strategies to climate and policy changes
- Motivation difficulties for participation in contract farming





***THANKYOU***

# Required vs Prevailing Food Policy Strategies

<b>Required</b>	<b>Prevailing</b>
<b>Proactive to agricultural commodity crisis</b>	<b>Reactive to crisis when it happens</b>
<b>Government intervene only where market fails</b>	<b>Government intervene indiscriminately</b>
<b>Protect price bands between import and export parity prices</b>	<b>Single procurement price of many agricultural commodities</b>
<b>Encourage storage in private sector to control seasonal price fluctuations</b>	<b>Storage is considered an illegal activity and often blamed</b>
<b>Modern marketing facilities should be available in markets</b>	<b>Markets lacking many basic facilities and the quality of existing ones is highly poor</b>

# Way Forward -- Contract Farming

- ❖ **Advantages:** shorter supply chains, low transaction costs, price assurance for the farmers, technical backstopping opportunities, knowledge and experience sharing forum
- ❖ **Precautions:** side selling, higher costs of managing the schemes than benefits, difficulties in motivation for participation
- ❖ **Other issues**
  - ❖ **Farmers' selection problems**
  - ❖ **The production of commercial crop must not interfere with issue of food security**
  - ❖ **Clustering of farms will minimize the management costs but not always**