Poverty Reduction in Rural India during 2004-05 to 2011-12: **Role of Growth, Redistribution, and Population-Shifts**

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OBJECTIVE

- Quantify relative contribution of the growth vis-à-vis the redistribution components to rate of poverty reduction.
- Quantify the importance of the population-shifts across land size classes.

POPULATION - SHIFTS

Demographic changes also affect the pace of poverty reduction. Instead of ruralurban migration, we offer an alternative populationbased explanation

DATA

Survey Consumption of Expenditure 2004-05 & 2011-12 **Consumption**: MPCE-MRP Land Groups: <0.01, 0.01-0.4, 0.41-1 and greater than 1 hectare **Poverty Line:** For 2004-05, 2011-12, Expert Group Report 2009 <u>Metric</u>: FGT 0,1,2

WHY: 2004-05 to 2011-12

Rapid growth.

FINDINGS

 $\Delta P = (\Delta P)_m + (\Delta P)_I = \text{Growth} + \text{Redistribution Component}$

□ Inequality reduced pace of poverty reduction during 2004-05--2011-12. Result is opposite of what Datt and Ravallion (1992) find for the pre-reform decade (1977-78 - 88)

$$\Delta P = \sum_{g=1}^{4} \left[\left(\frac{\nu_{gt} + \nu_{gt+1}}{2} \right) \Delta P_g \right] + \sum_{g=1}^{4} \left[\left(\frac{P_{gt} + P_{gt+1}}{2} \right) \Delta \nu_g \right]$$
$$\Delta P = \sum_{g=1}^{4} \left[\overline{\nu_g} \Delta P_g \right] + \sum_{g=1}^{4} \left[\overline{P_g} \Delta \nu_g \right]$$

 v_{gt} , P_{gt} are pop share & poverty in land size group g in time t.

□ Largest Effect in Land Size Class 0.01-0.4 Hectares

- Uneven reduction in TFR across land size classes and Indian states. Higher TFR in states with fewer nonfarm opportunities
- Smaller land holders have higher TFR (India – DHS)

LITERATURE

Datt and Ravallion 1992 (India, Brazil), Ravallion and Huppi 1991 (Indonesia), Shorrocks 2013, Son 2003

CENTRALITY OF LAND

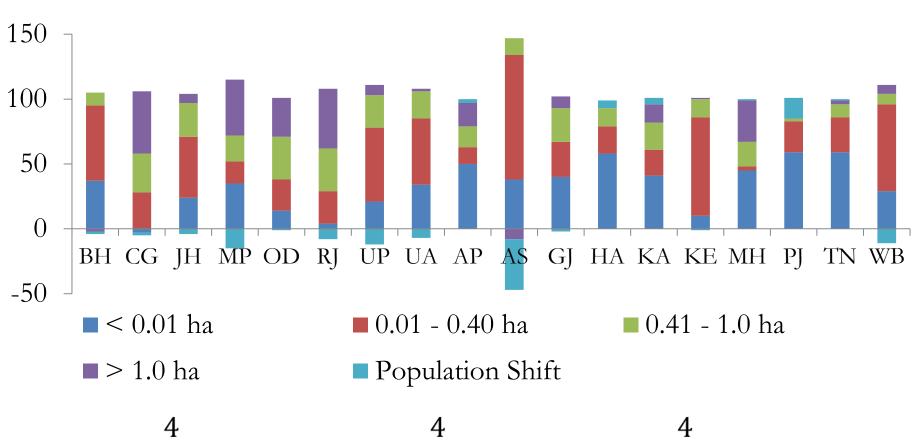
- 1991-2011: Average land holding size declined from 1.55 to 1.15 hectares
- Large variations across states and agro-climatic zones, in the structures and patterns in source of income, viz. wages, cultivation, livestock and non-farm business, in agricultural households.

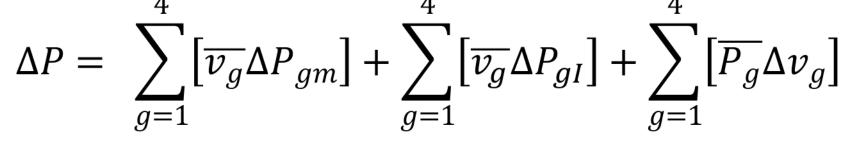
- Number of poor declined by 110 million to 216.6 million.
- Increase in annual rate of reduction in poverty to 2.3 (0.75)percentage points percentage points 1993-2005)
- Yet rural India accounted for 83 percent of India's poor.

REGIONAL DIFFERENCES

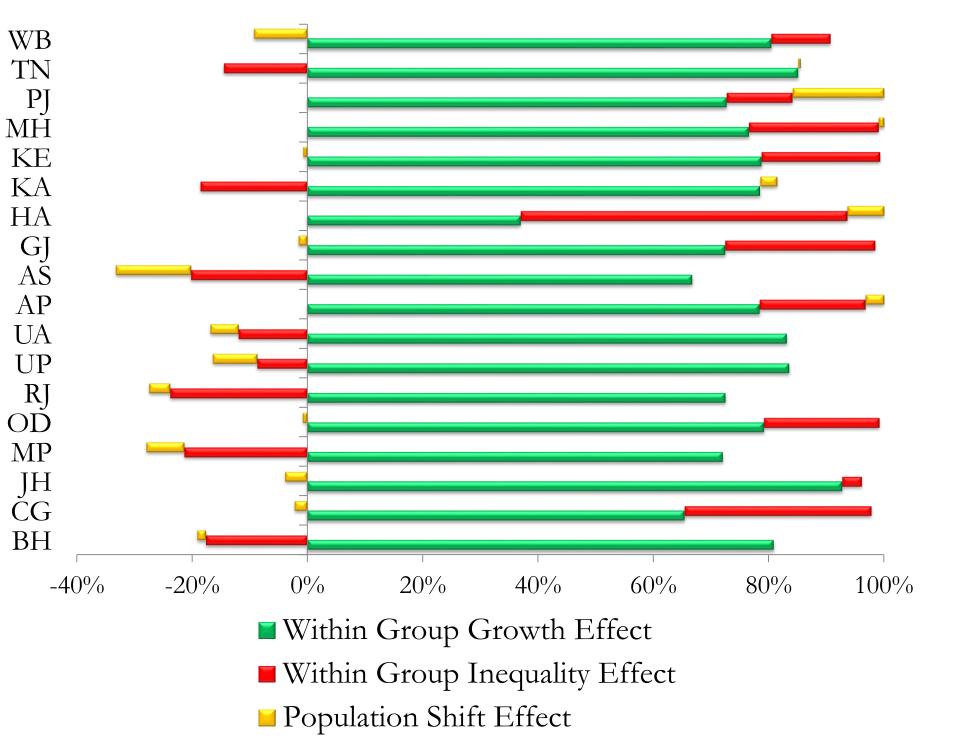
- **Population** Growth: Over 2001-11, in eight (EAG) states it was 3 times that of other states
- **Concentration of Poor**: Share of EAG states increased from 57.7 percent in 2004-05 to 64.4 percent in 2011-12.
- Growth in Income: Bihar and West Bengal decline in real terms
- TFR 2015-16: In Bihar TFR across the four land size classes



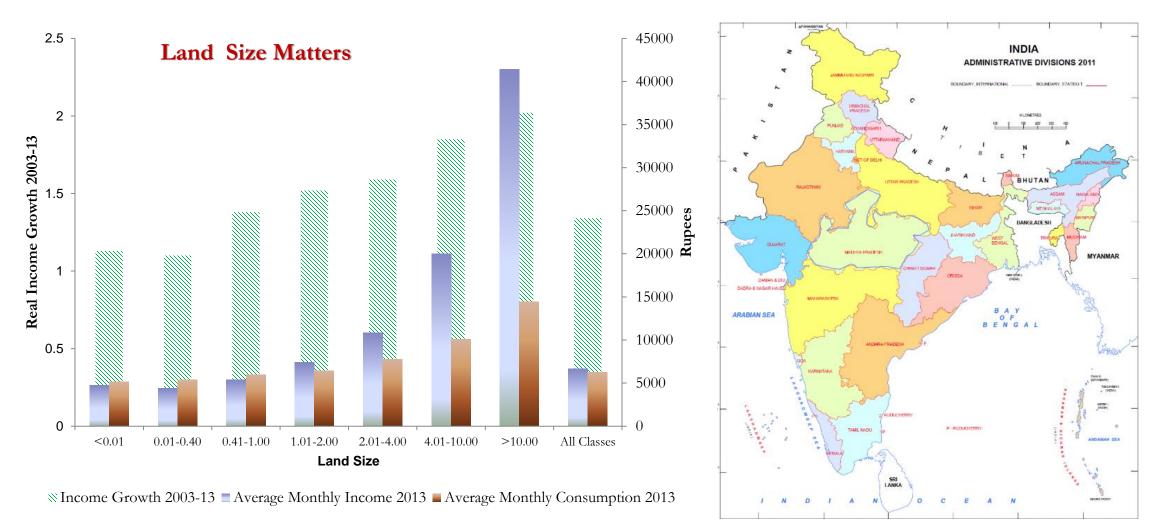




Relative Importance of the Three Components Varies



Small land holders eke out a marginal existence.



mentioned earlier was 3.93, 3.02, 2.66 and 2.87 respectively while in Uttar Pradesh it is 3.42, 2.81, 2.60 and 2.41 respectively.

North-South Divide

INFORMING CURRENT DEBATE

- Formula for apportioning divisible pool of taxes between the centre and states decided by Finance Commission (FC).
- Incentives to be given to states that are far from the replacement rate of fertility. (ToR: XVth FC). Southern states objected to this.
- In the past some states have argued those with higher HCR poverty be given additional resources.
- Our findings support the idea of incentivizing states for population reduction.

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