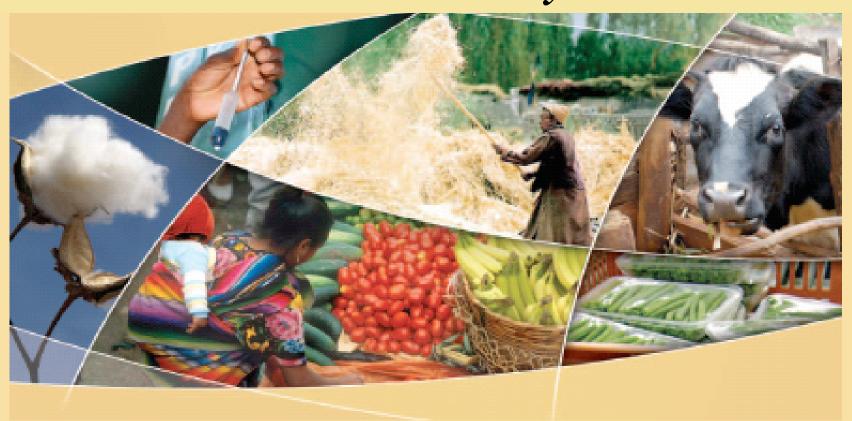
#### **Agriculture for Development**

Toward a new paradigm and guidelines for success A sequel to the World Development Report 2008 Alain de Janvry



Forum on How to Feed the World in 2050, FAO, Rome Oct. 2009

#### How to Feed the World in 2050?

- Urgent to redefine a global strategy in using agriculture for development due to:
  - Food crisis: higher and more volatile prices
  - Rising demands on agriculture: population, income, biofuels
  - Rural poverty and food security: 75% rural and 1 billion chronic hungry
  - Growth deficits in agriculture-based countries: Sub-Saharan Africa
  - Climate change, resource scarcities, and environmental services
- Objective of this presentation: Considerations toward an answer

#### **Outline of the argument**

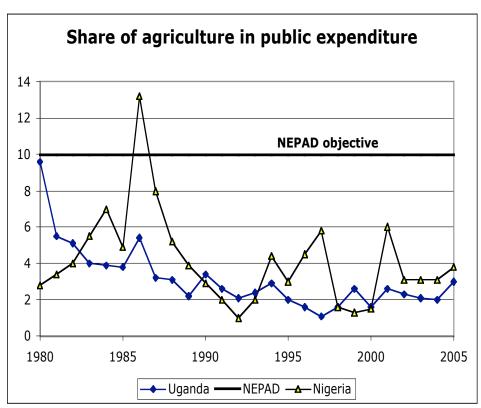
- ☐ I. Historical perspective on agriculture in development
- □ II. Current crises and resurgence of demands on agriculture for development
- ☐ III. Emergence of a new paradigm of using agriculture for development
- □ IV. Why the continued under-use of agriculture for development?
- V. Conditions for success in using agriculture for development
- VI. The way forward

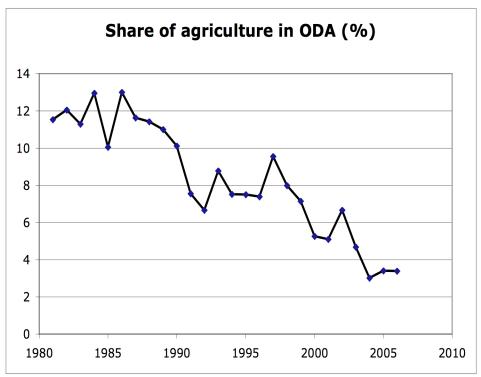
- **■** Well defined classical paradigm of the role of agriculture in development in the 1960s
  - •Grounded in history: Western experience, Asian miracles
  - •Grounded in theory: Agriculture on the road to industrialization
  - •Grounded in empirical regularities: Agricultural transformation
  - •Grounded in behavior: Agriculture responsive to incentives

#### □Successes, but many implementation failures in the 1970s

- •Urban bias in Import Substitution Industrialization
- •Integrated rural development to meet broadened development objectives flawed:
  - Overestimated state capacity to coordinate
  - •Underestimated emerging private sector roles
  - •Undermined cooperative producer organizations
- •Many failures in agriculture-based projects
  - •Too complex, insufficient support

- Leading to 20 years of neglect of agriculture under the Washington Consensus (1985-2005)
  - •Adjust the macro-fundamentals but no sectoral policy
  - •Industrialize through open economy not through agriculture
  - •Descale the **role of the state** in agriculture despite pervasive market failures
  - •Reduce **rural poverty** through transfers instead of rising autonomous incomes
  - •Investment in agriculture **discouraged** by low international commodity prices (OECD farm policies) and adverse environmental effects





Neglect of agriculture: Decline of the shares of agriculture in public expenditures and in overseas development assistance

- ☐ Following 20 years of neglect, five crises put agriculture back on the development agenda:
- 1) The global food and financial crises: Rising food insecurity and hunger
- 2) Stagnation of productivity growth in Sub-Saharan Africa agriculture
- 3) World poverty still overwhelmingly rural
- 4) Increasing rural-urban income disparities
- 5) Rising resource scarcity and unmet demands for environmental services

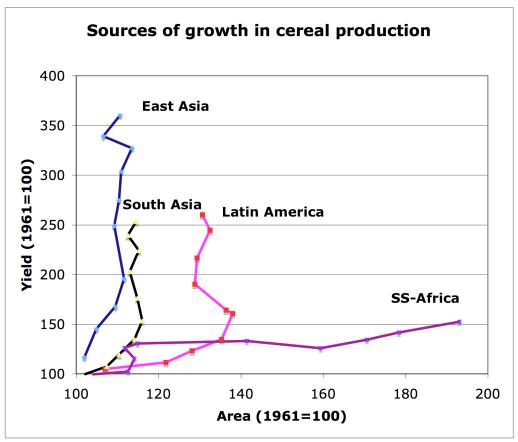
#### Crisis 1: Global food and financial crises

The world food situation has changed drastically in the last three years. This implies three major policy shifts:

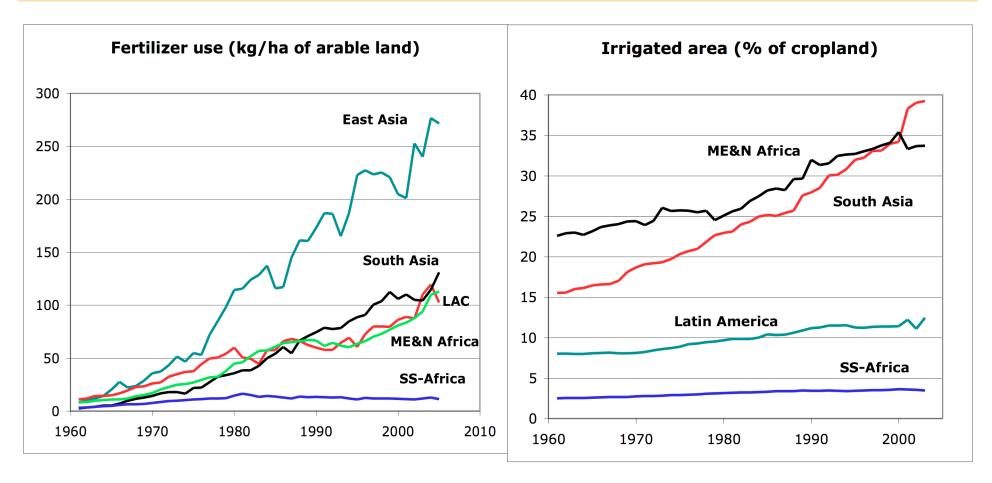
- Need give greater attention to the supply side of agriculture to achieve sustainable productivity gains and greater resilience to shocks.
- Need raise again the issue of food security as a policy concern: Combine trade, national food reserves, level of food self-sufficiency, social safety nets, and role of subsistence farming.
- Need focus not only on chronic poverty but also on vulnerability to price and income shocks for net buyers of food: "new poor" and risks of irreversibilities in assets, health, and education due to shocks.

Crisis 2: Stagnant productivity growth in SS-Africa

agriculture

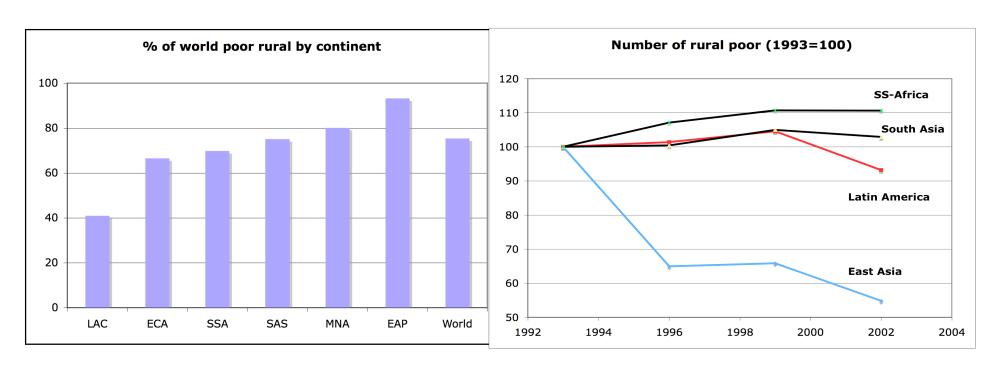


Area expansion has historically been the main source of output growth in cereal production in SS-Africa, but largely exhausted



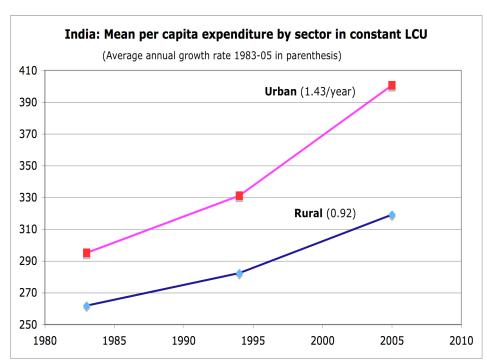
Stagnant yields are associated with low fertilizer use and limited irrigated area. Understanding the determinants of yield growth (technology adoption) is a major research challenge

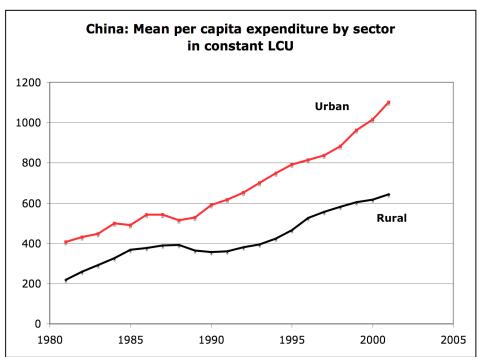
#### Crisis 3: World poverty still overwhelmingly rural



75% of world poor are still rural, and rural poverty is rising in SS-Africa and South Asia: Key to meet MDG#1

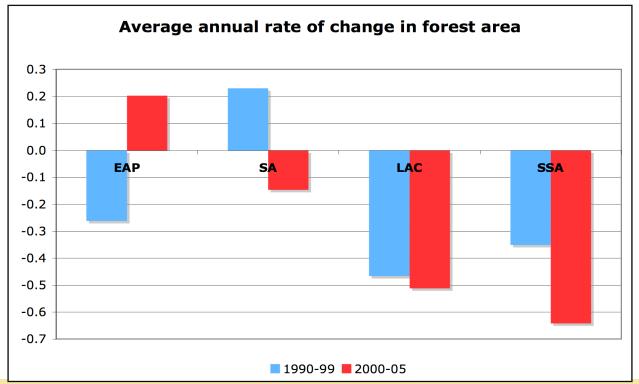
#### Crisis 4: Rural-urban disparities are increasing





Rising urban-rural income disparities in India and China as sources of political tensions

Crisis 5: Rising resource scarcities and unmet demands for environmental services



The rate of deforestation is accelerating in LAC and SS-Africa. Conservation agriculture, rapidly expanding worldwide, is barely adopted in Africa due to lower yields and high labor costs

## III. Emergence of a new paradigm of agriculture for development

These crises put new demands on using agriculture for development, but with no possible return to the classical paradigm for two reasons:

- "Development" is no longer just industrialization (1950-60) but multidimensional (1970-)
  - •Growth, poverty/hunger, vulnerability, equity, sustainability
- ☐ The structural context for agricultural growth has changed drastically
  - •Globalization, integrated value chains, technological and institutional innovations, environmental constraints <sup>15</sup>

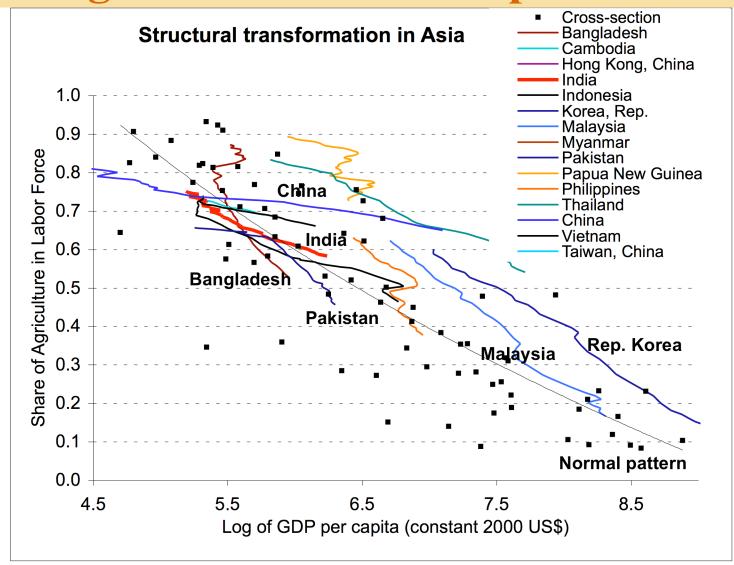
## III. Emergence of a new paradigm of agriculture for development

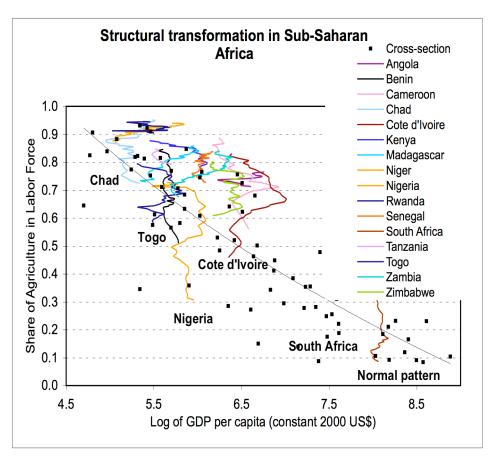
Hence emergence of a new paradigm of Agriculture for Development to replace the classical paradigm

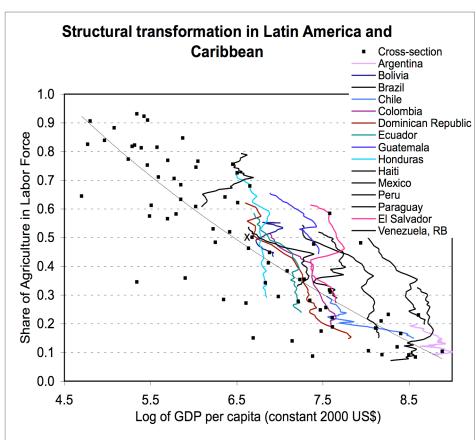
- ☐ Two features of the emerging paradigm
- 1) Because development is multidimensional:
  - •Win-wins exist, but **trade-offs** are expected
  - •Need **priority setting** at the national level
- 2) Need use both the **process** and the **outcome** of agricultural growth to achieve these multiple dimensions
  - •Role of smallholder farming

#### But two barriers to overcome:

Continued under-use of agriculture for development
Unclear how to succeed in using agriculture for development







But agriculture is still under- and mis-used in Africa and Latin America: Labor is pushed out of agriculture without associated growth in GDP per capita

- □ Resources are being committed to a Green Revolution for Africa (NEPAD, G8, WB, AGRA), but will it succeed?
- **■What we know: It must be different from the Asian GR** because of
  - Heterogeneity of conditions
    - → Need decentralization and participation
  - Multiple effective constraints
    - → Need a multisectoral approach
  - Small countries
    - → Need regional cooperation

#### ☐ It must be different from the Asian Green Revolution In addition:

- •It must go beyond cereals to include high value activities
- •It must deal with sustainability and environmental friendliness

Beyond the seed-fertilizer-water package toward agro-ecology, agro-forestry, and conservation agriculture.

- •It must address brand new challenges
  - Energy prices, climate change, integrated value chains, globalization
- •It must **succeed urgently** given the rapid changes in the world food situation and distress of rural populations.
- **→**Answer: Continued under-use because we do not know enough about how to do it, and are not adequately equipped to do it successfully

#### V. Conditions for success in using agriculture for development

- Proposition: Two conditions for success in using agriculture for development
- Condition 1: Need to re-conceptualize the role of agriculture for development in the new paradigm
  - 1) Recognize the complementarities and trade-offs in the multiple functions of agriculture for development
    - Define country priorities and strategy
  - 2) Design the **process** of agricultural growth to achieve development beyond market forces
    - With eventual growth opportunity costs (e.g., debate on farm size)
  - 3) Redefine the **role of the state** in support of agriculture
    - State to set social priorities among conflicting functions, overcome market failures, regulate, and engage in private-public partnerships.

### V. Conditions for success in using agriculture for development

- □ Condition 2: Need to re-design approaches for effective implementation in the new paradigm
  - 1) **Experiment** with new approaches and internalize lessons for scaling up successes in policy and practice
    - ☐ Derive lessons from past mistakes and identify impacts in new options
  - 2) Fix the **governance** structure for the state to fulfill its new functions for agriculture
    - Redesign ministries of agriculture to use growth for development with a territorial perspective and a role for producer organizations
  - 3) Develop expertise in using agriculture for development
    - ☐ At the local (decentralization), national, and international levels
    - ☐ Key role of the FAO as source of world expertise in using agriculture for development

#### VI. Conclusion: The way forward

#### Positive developments in support of using agriculture for development: Grounds for optimism

- Greater **public awareness** of importance of agriculture for development, including poverty, gender, environment
- ☐ More attention from **politicians** to food crises, hunger
- ☐ More **resources** committed by governments, foreign aid, new players, private sector
- ☐ Many localized **success** stories

#### But can we deliver?

- □ Do we know how to do it?
- □Do we have the capacity to do it?

#### VI. Conclusion: The way forward

#### Guidelines for a successful use of agriculture for development: Grounds for concern

- □ The biggest mistake we can make is believe that it is **easy** to do and that we already **know enough** to do it.
- ■Effort must be massive, concerted, and sustained to succeed: commitments must be met and continued
- □ Short term political concerns with **food** must be translated into long term concerns with **agriculture**
- New approaches must be devised and evaluated (WDR)
- Capacity to effectively use the resource committed is the main limiting factor to be addressed (FAO).

#### VI. Conclusion: The way forward

Making the emerging paradigm of Agriculture for Development succeed is essential but still uncertain

It is a major challenge and opportunity that the international community must address

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