



### Impacts of the Price Shocks on the Poor

- Poverty and hunger
  - 1.4 billion people live on less than \$1.25 per day (WB)
  - 0.9 billion suffer from hunger (FAO)
- Poor spend 60% of earnings on food
  - Doubling of food prices lowers their real incomes by one third
  - Estimated additional 100 m poor, 75 m hungry
  - Question of survival for many

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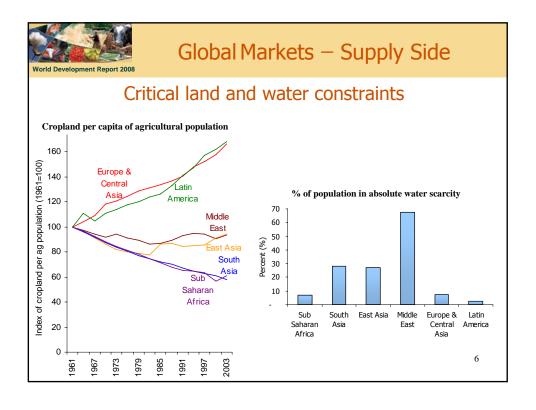
### Wasted Description of Research 2009

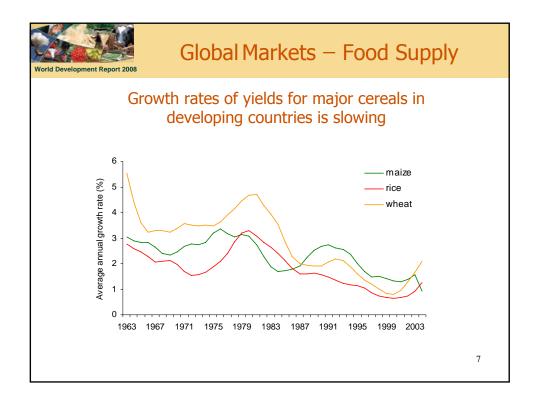
### Critical Role of Agriculture in Food Security

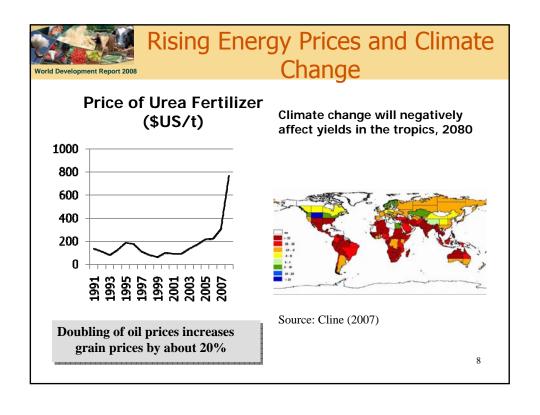
- In ensuring adequate food supply
  - Global food supply and demand (and shocks)
  - National food supply and demand for many countries (Africa, China, India)
- In providing means for poor to access to food
  - 70 percent of the world's poor are rural, and most depend on agriculture for livelihoods
  - Essential role of agriculture in providing subsistence and incomes of the poor

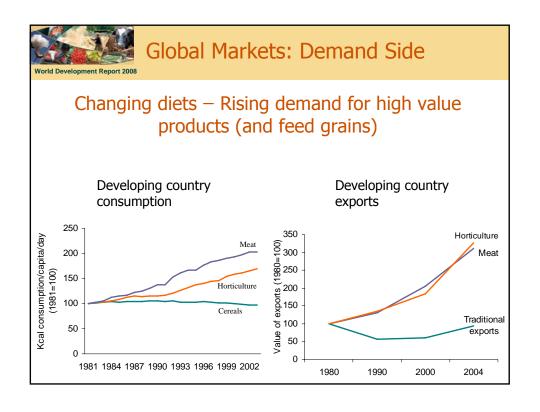


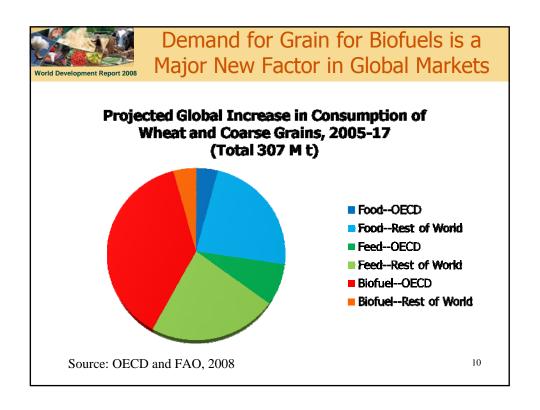
# WHITHER GLOBAL SUPPLY AND DEMAND?













## Other Factors in Current Price Shock

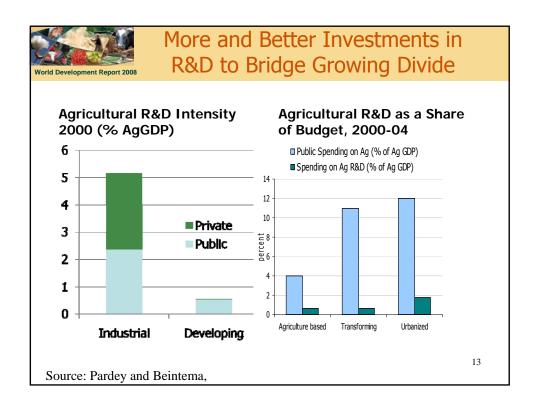
- Very low world stocks
- Accelerating economic growth rates in developing countries (incl. Africa)
- Drought in Australia and others
- Decline of the US dollar
- Response by some major exporters
  - Export bans and tariffs

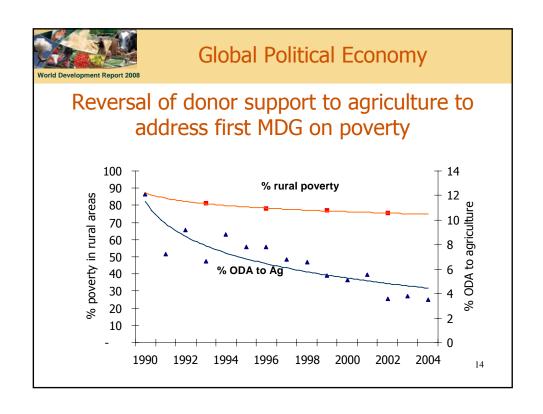
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#### Outlook at Global Level

- □ Reversal of long term downward trend in food prices with 'business as usual'
  - More severe and frequent shocks
- Requires emphasis on technological and institutional innovations:
  - Higher yield potential to revamp productivity growth
  - Overcoming key resource constraints (water, drought)
  - Role of **GMOs** for poor farmers and consumers
  - Substitution of fossil energy use
  - Adaptation to climate change and reduced GHGs
  - More efficient and inclusive supply chains
  - Risk management for more frequent price shock



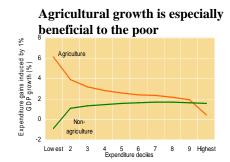




### Agriculture as a Powerful Engine for Increasing Incomes of the Poor

- ☐ Globally 75% of poor live in rural areas and most depend on agriculture
- Major conclusion of World Development Report 2008:

Productivity growth of smallholder agriculture is especially effective in reducing poverty and hunger



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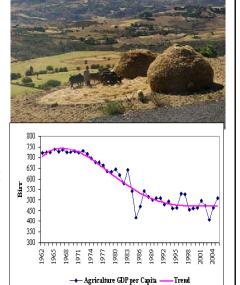


# ETHIOPIA AS A CASE STUDY OF THE CHALLENGE TO ASSURING FOOD SECURITY



#### Ethiopia: The Food Security Challenge

- History of food insecurity and famines
  - Population of 85 million
  - 85% rural small-scale farmer with average 1 ha
  - 44% of farmers net food buyers
  - Largest food aid recipient
- Large agricultural intensification program





#### Ethiopia's Next Harvest, 2009?

- ☐ Cereal prices increased 170%, 2007-08
  - Rapid economic growth—demand for food
  - Drought in the minor season, 2008
- ☐ Insufficient food aid due to high prices in 2008
- Acute shortage of foreign exchange
  - Rising oil prices wiped out all export revenues
  - Commercial food imports with shortfall in food aid
- ☐ Global fertilizer prices up 3-4 times since 2006
  - No forex
- Next harvest?



# Implications for the Global Community

- Do no harm
  - Reform farm and biofuel subsidies
  - Mitigation of climate change
- Support emergency response
  - Safety nets, targeted food subsidies, food aid
  - Budget and foreign exchange support
- ☐ Invest in global public goods
  - R&D (CGIAR)
- ☐ Get agriculture back on the agenda in foreign assistance

