GLOBAL FOOD SECURITY, NATURAL RESOURCES AND SUSTAINABILITY

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Alexander Müller

Assistant Director-General

Natural Resources Management and Environment Department Food and Agriculture Organization of the United Nations (FAO)



1. GLOBAL DRIVERS OF CHANGE

2. CLIMATE CHANGE AND NATURAL RESOURCES

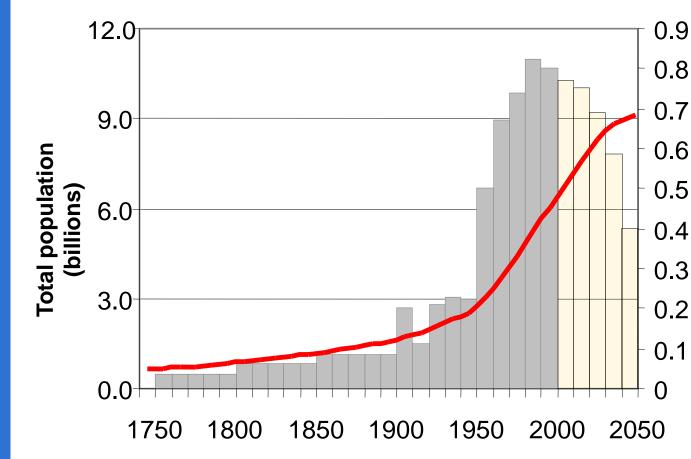
3. A NEW CONSENSUS ON SUSTAINABILITY: RIO+20



1. GLOBAL DRIVERS OF CHANGE **Population growth Urbanization** Food Demand Markets and Stocks **Price Volatility**



The driving forces of demand to 2030



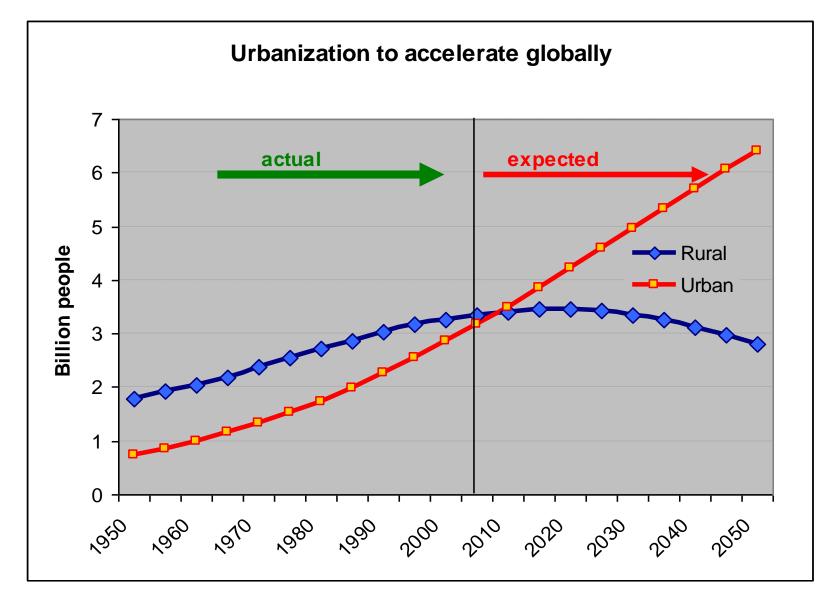
The main drivers of the long-term outlook

Slow-down in world population growth

Source: UN, World Population Assessment 2006



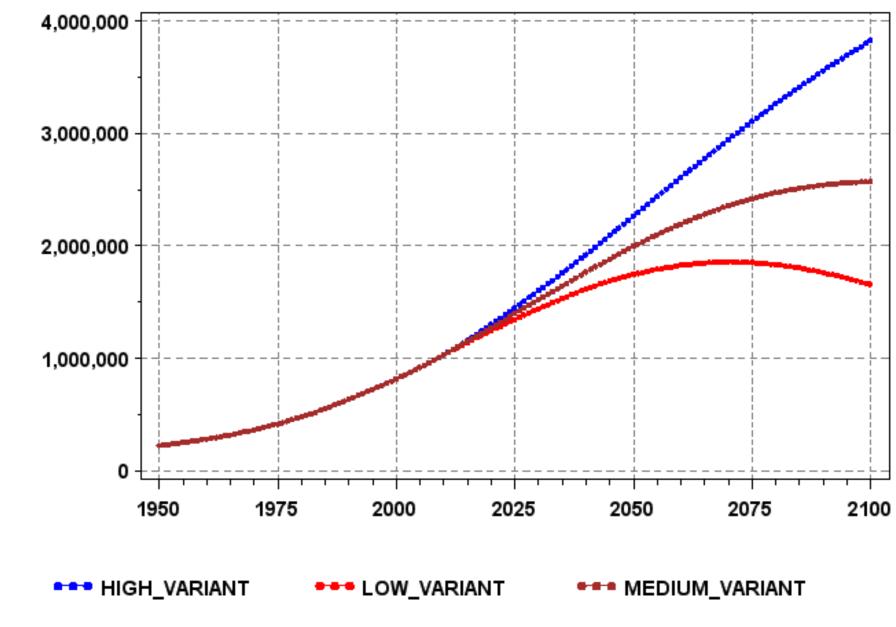
The main drivers of the long-term outlook



Source: UN, World Population Assessment 2007



Rapid Population Growth foreseen for Africa

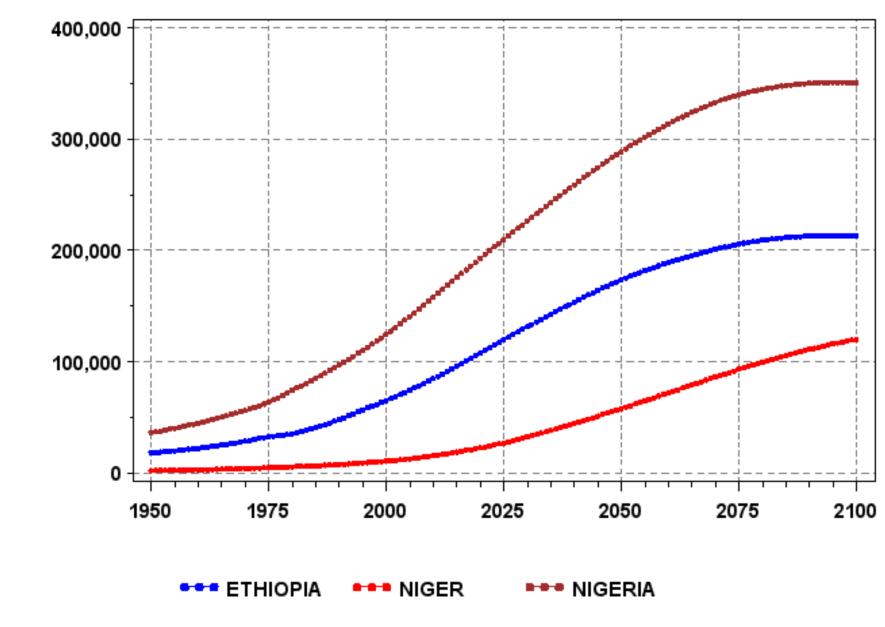


1000

Source: Unpop Database (UN population assessment 2006-2010)



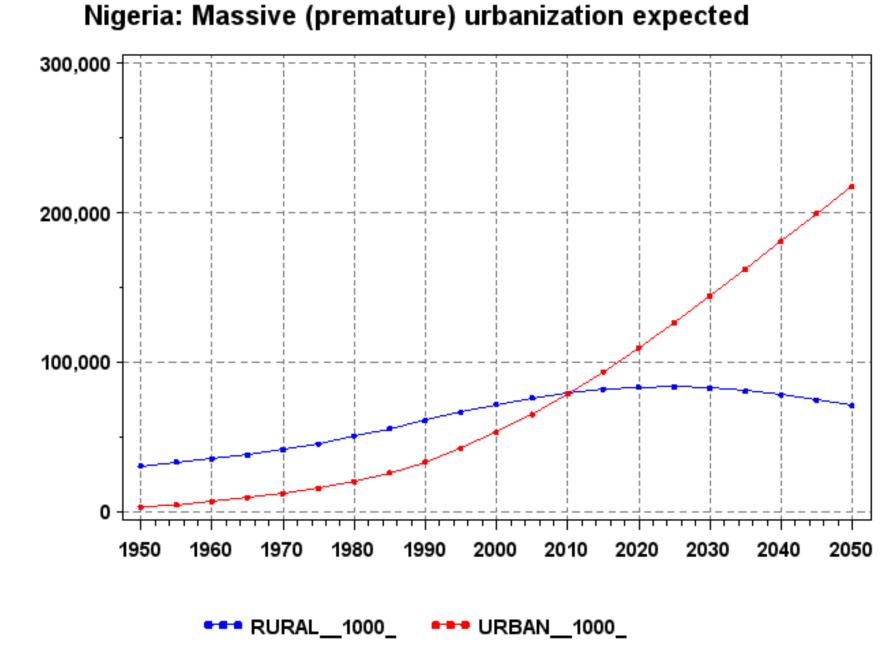
Exponential/explosive population growth in the poorest countries



Source: Unpop Database (UN population assessment 2006-2010)



1000

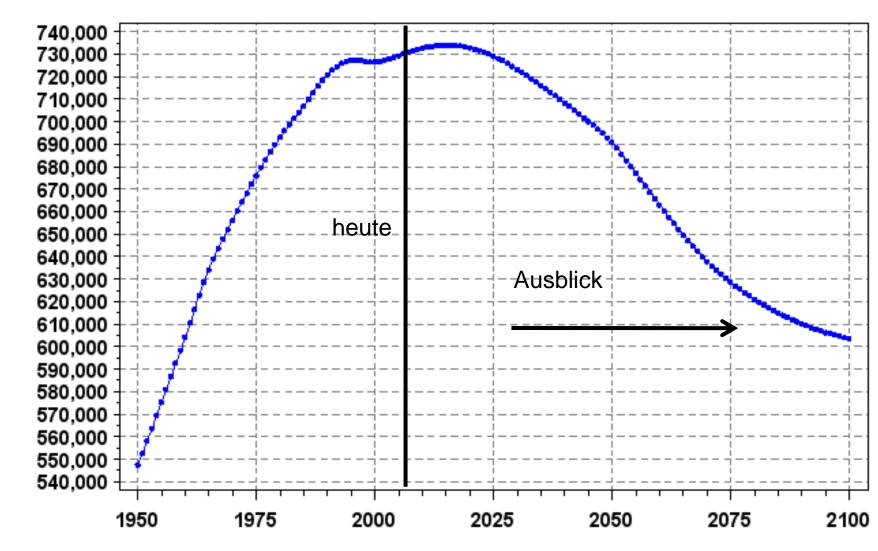


Source: Unpop Database (UN population assessment 2006-2010)

1000

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Stagnation und sogar Abnahme der Bevölkerung in Europa



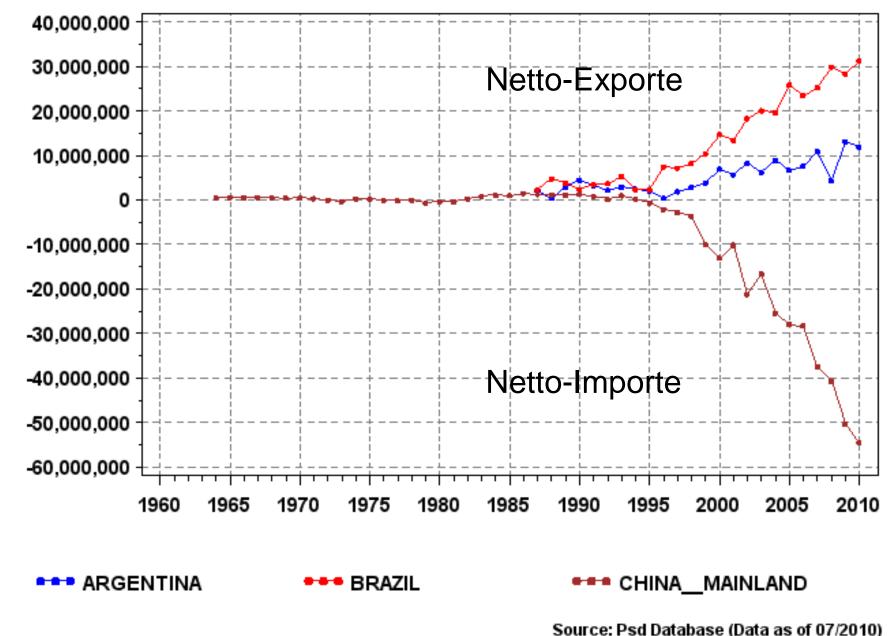
EUROPE

Source: Unpop Database (UN population assessment 2006-2010)

TOTAL population (1000)



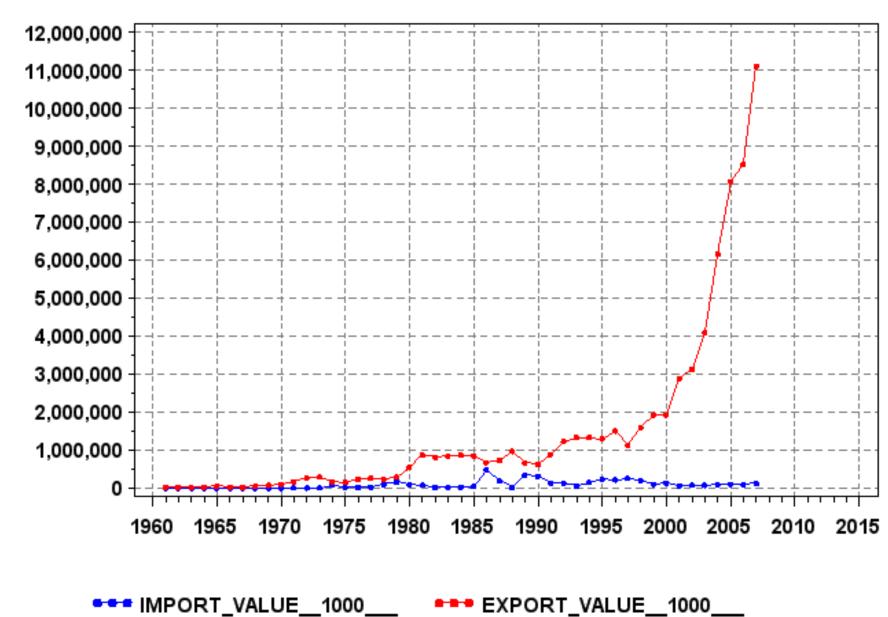
Massiver Anstieg im Handel mit Soja von und in die Schwellenländer



Netto-exporte (Tonnen)

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Meat exports by Brazil

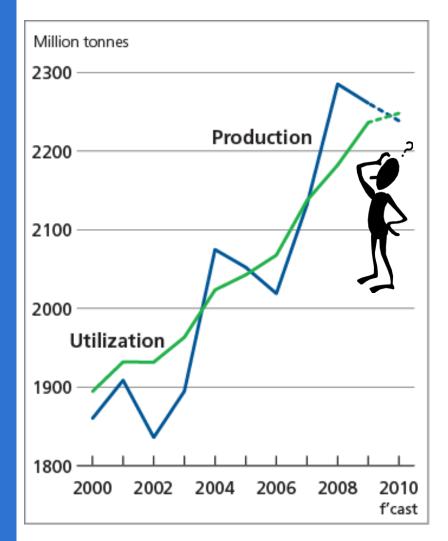


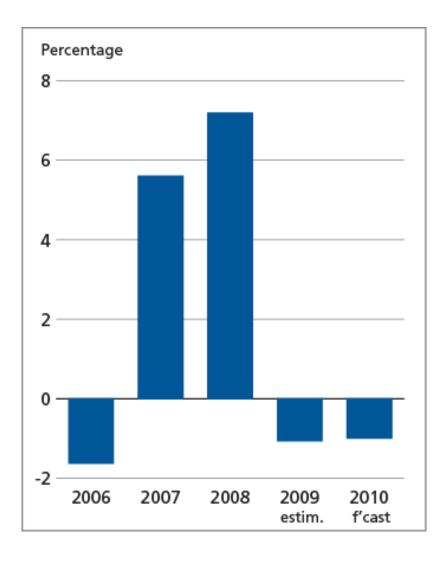
Source: Faostat Database



Cereal production and utilization

Year-to-year change in cereal production

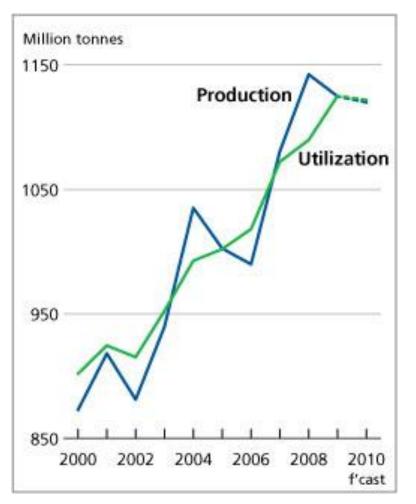




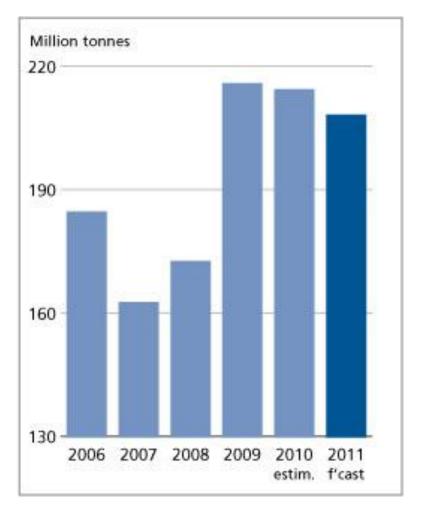


World coarse grain supply and demand outlook 2010/11: Getting tighter...

Production and Utilization

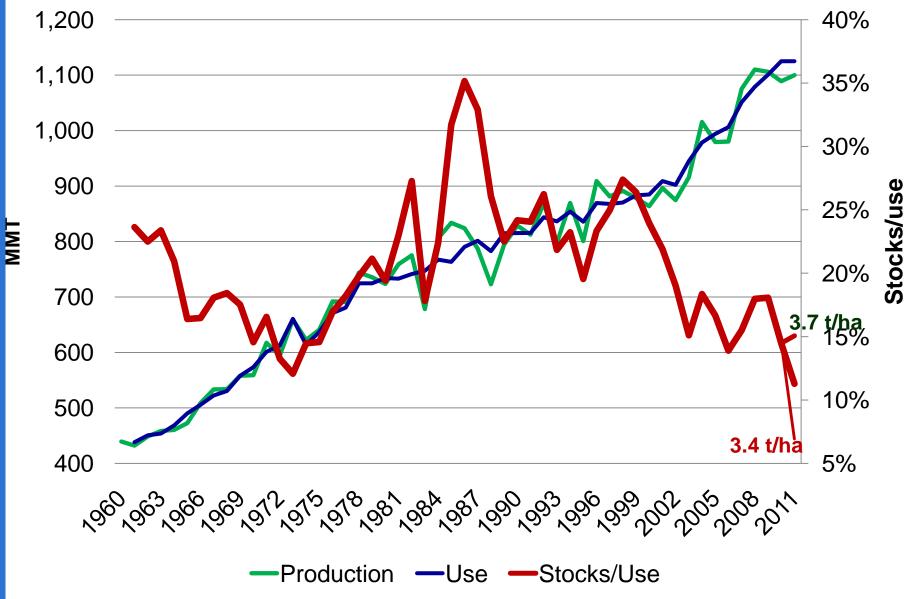


Closing Stocks





Coarse grains 2011/12: stock-to-use ratios could approach critical levels



Price volatility and "market anxiety"

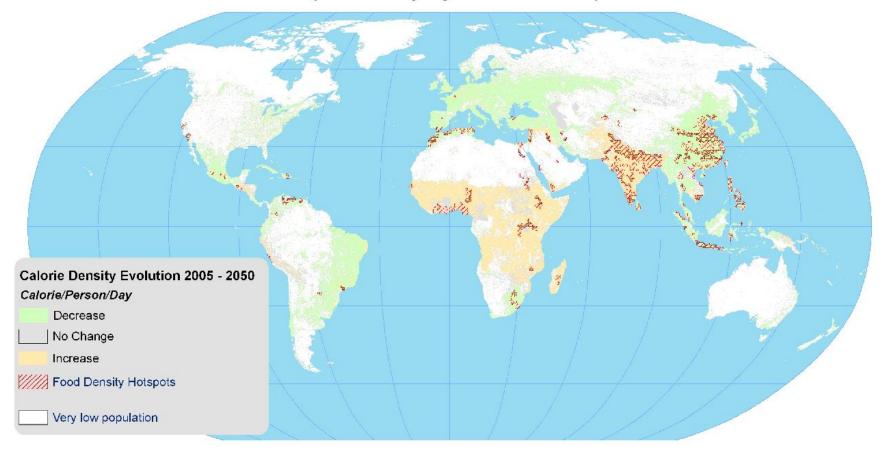




2. CLIMATE CHANGE AND NATURAL RESOURCES

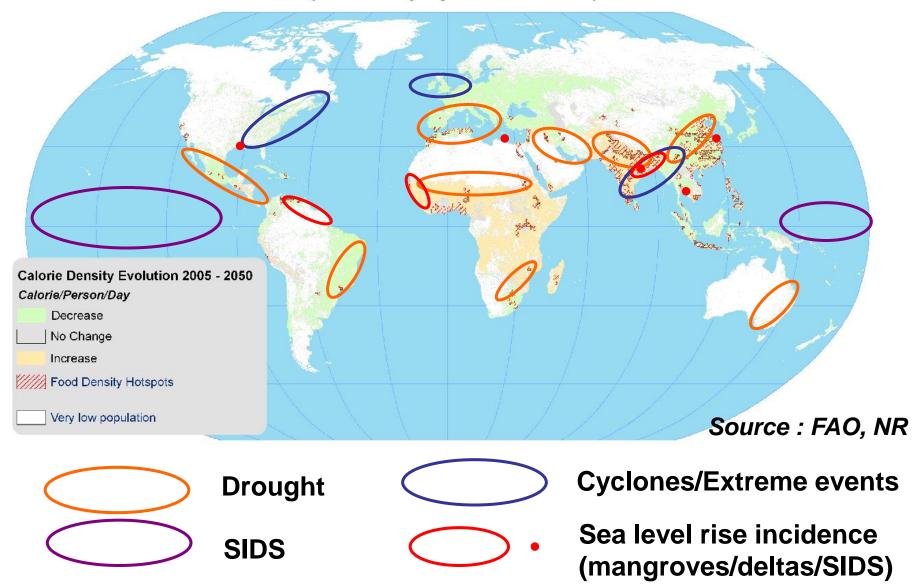


Global Calorie Density Evolution and Food Density Hotspots (2005 and projection for 2050)



Source : FAO, NR Department

Global Calorie Density Evolution and Food Density Hotspots (2005 and projection for 2050)



Land for food production

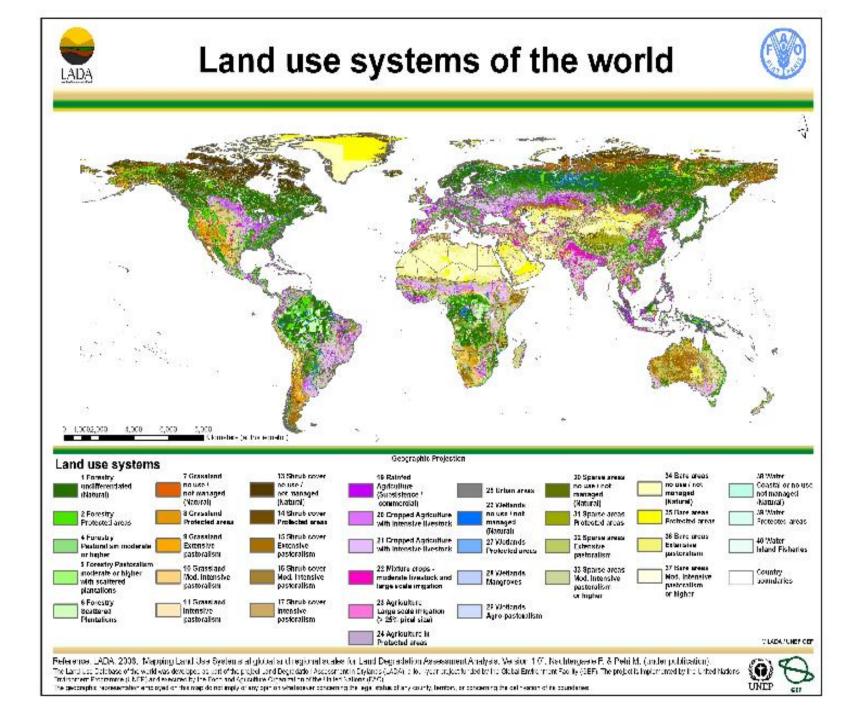
•The global land area comprises 13.3 billion ha.

•Of this, about 12 percent (1.6 bn. ha) is currently in use for cultivation of agricultural crops

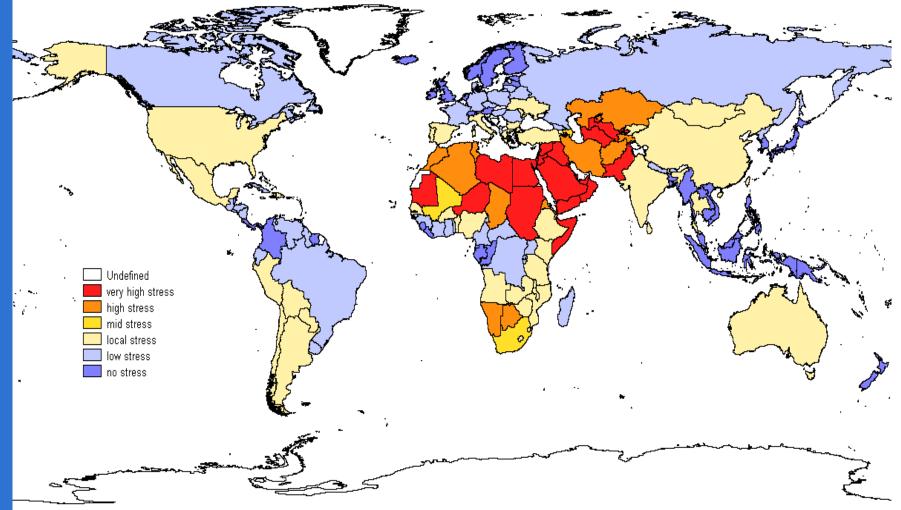
•28 percent (3.7 bn. ha) is under forest,

•35 percent (4.6 bn. ha) comprises grasslands and woodland ecosystems (Table 2.1).

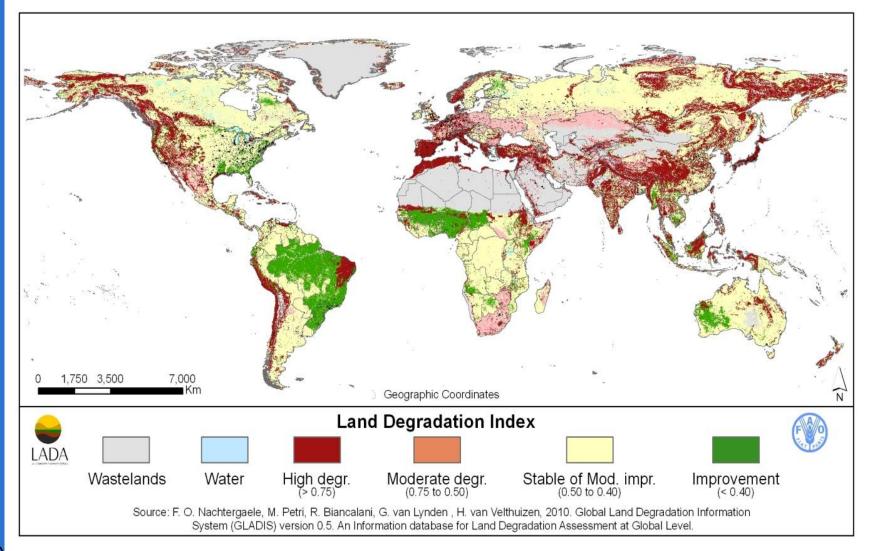




Global distribution of water scarcity for agriculture

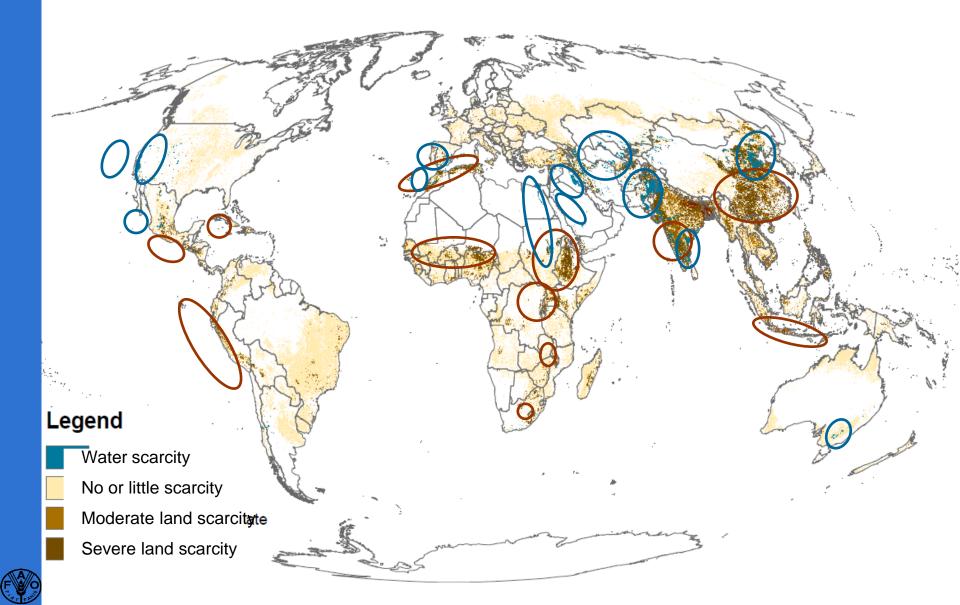


Land Degradation Index (changes in ecosystems services 1990-2005)





Agricultural systems at risk



3. A NEW CONSENSUS ON SUSTAINABILITY: RIO+20



Rio+20 Conference

- The United Nations General Assembly (GA A/64/420/Add.1) agreed to convene a UN Conference on Sustainable Development in Rio de Janeiro, Brazil in June 2012.
- The preparation of this Conference foresees three Intersessional meetings and three Preparatory Committee meetings between May 2010 and May 2012.



Objective of the Rio+20 Conference as decided by UNGA

- Secure renewed political commitment for sustainable development
- Assess the progress to date and the remaining gaps in the implementation of the outcomes of the major summits on sustainable development
- Address new and emerging challenges





Themes of the Rio+20 Conference as decided by UNGA

 A green economy in the context of sustainable development and poverty eradication

 The institutional framework for sustainable development





Greening the Economy with Agriculture (GEA) Initiative

 Overall objective : to contribute to the definition and implementation of the green economy in the context of sustainable development, food security and poverty alleviation through the mobilization of the food and agriculture sector

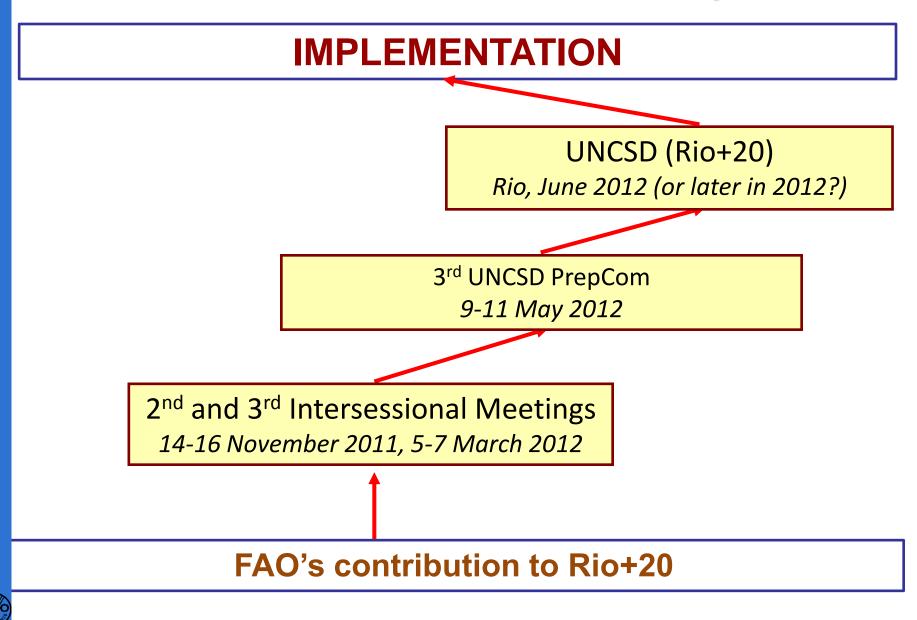


Greening the Economy with Agriculture (GEA) Initiative

- Analyze the interactions between the green economy and the food and agriculture sector, including opportunities and constraints
- Promote a dialogue with FAO member countries, as well as dialogue between the agriculture, forestry and fisheries constituency and other national partners, on GEA strategies for 2050
- Promote food and agriculture stakeholders' participation into the Rio+20 process and beyond



FAO towards Rio+20: external process



THANK YOU

