HEINRICH BÖLL STIFTUNG

Trends in the Agricultural Sector

Ten Minutes - Ten Slides - Ten Aspects

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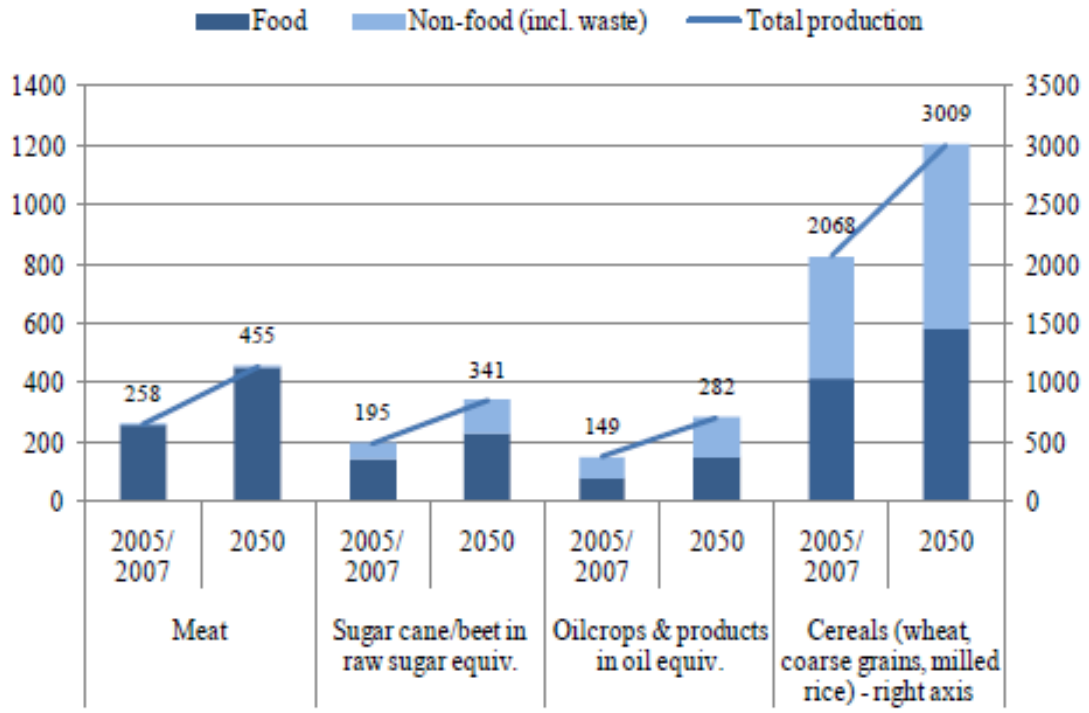
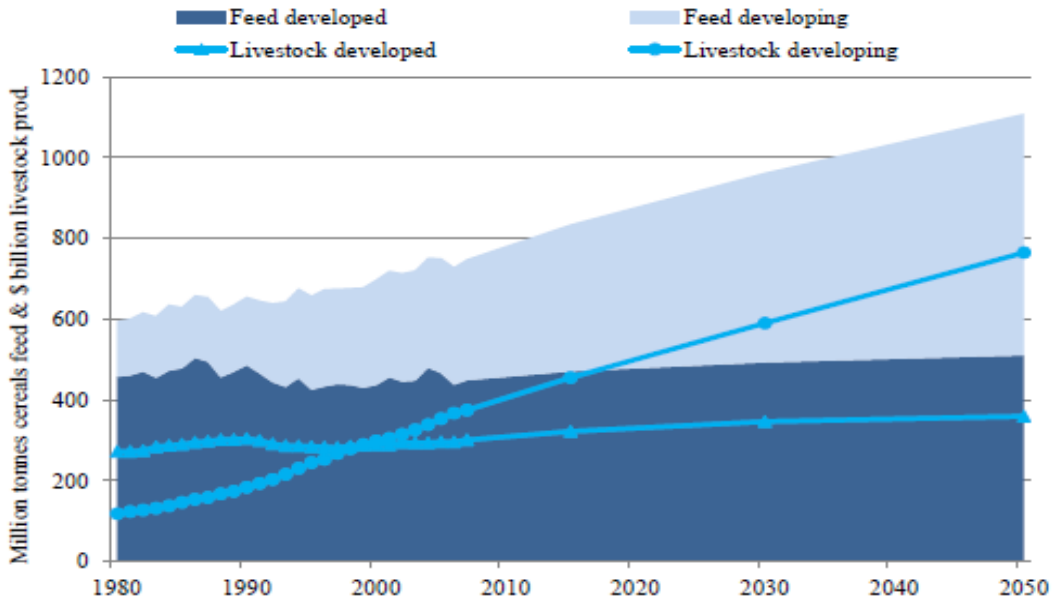
1. The demand for agricultural products will increase by 60% by 2050

World production and use, major products (million tonnes)



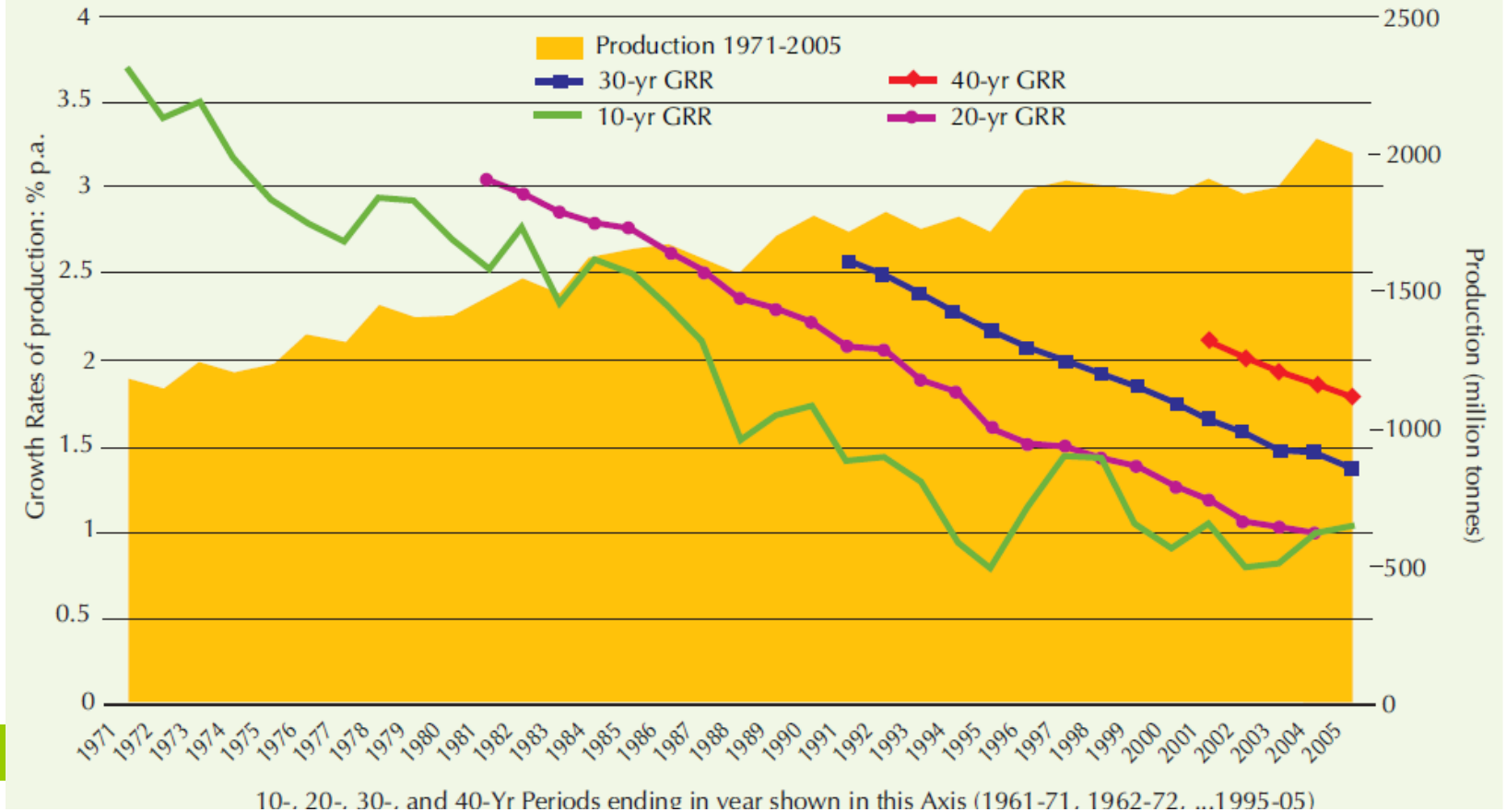
2. Demand is driven by increasing consumption of meat and bioenergy

Figure 3.5 Cereals feed (million tonnes) and livestock production ($ billion)

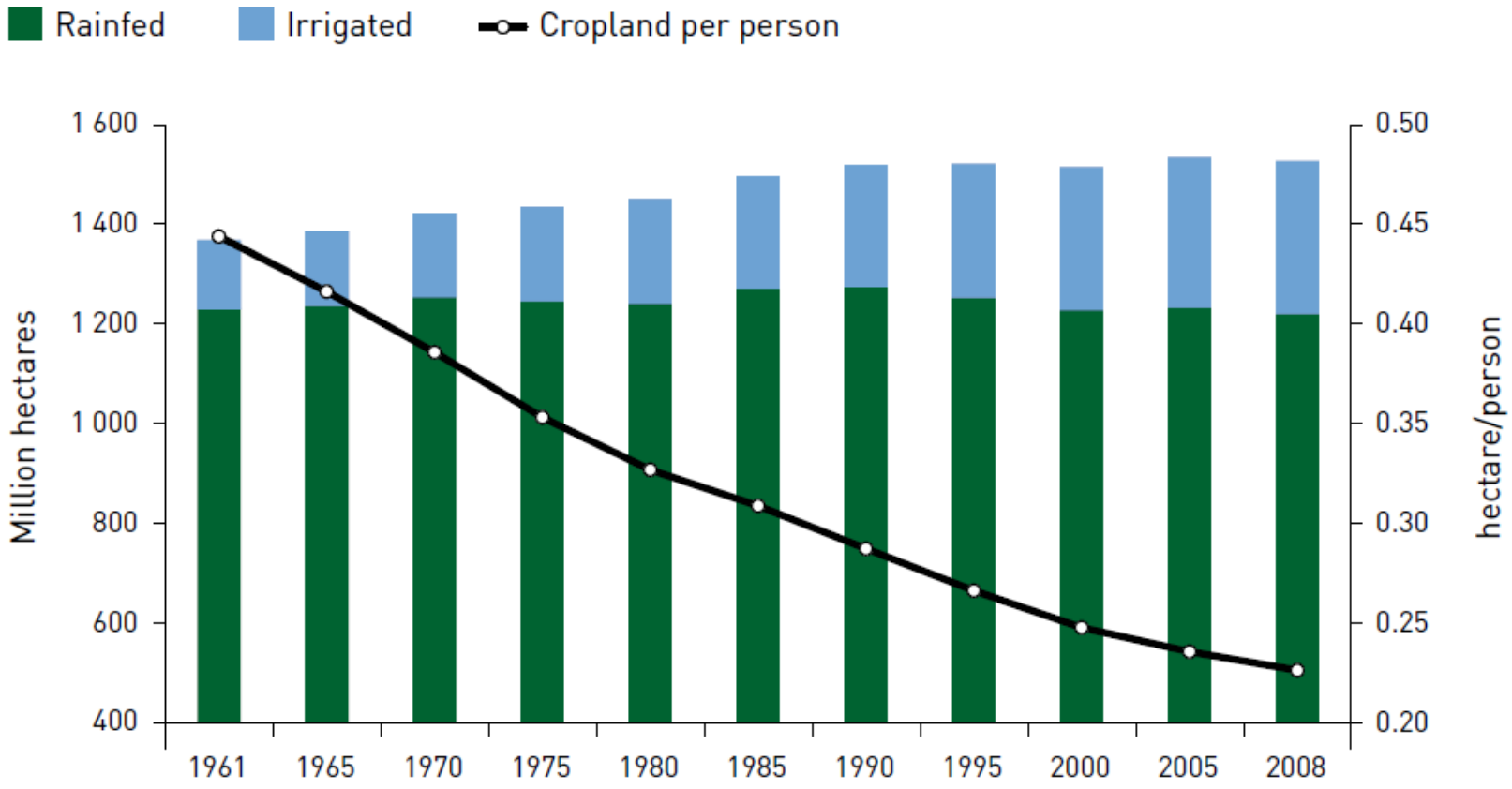


3. The supply of agricultural products will increase while growth rates decrease

Figure 3.4 World cereals production: growth rates in successive 10-, 20-, 30-, and 40-year periods

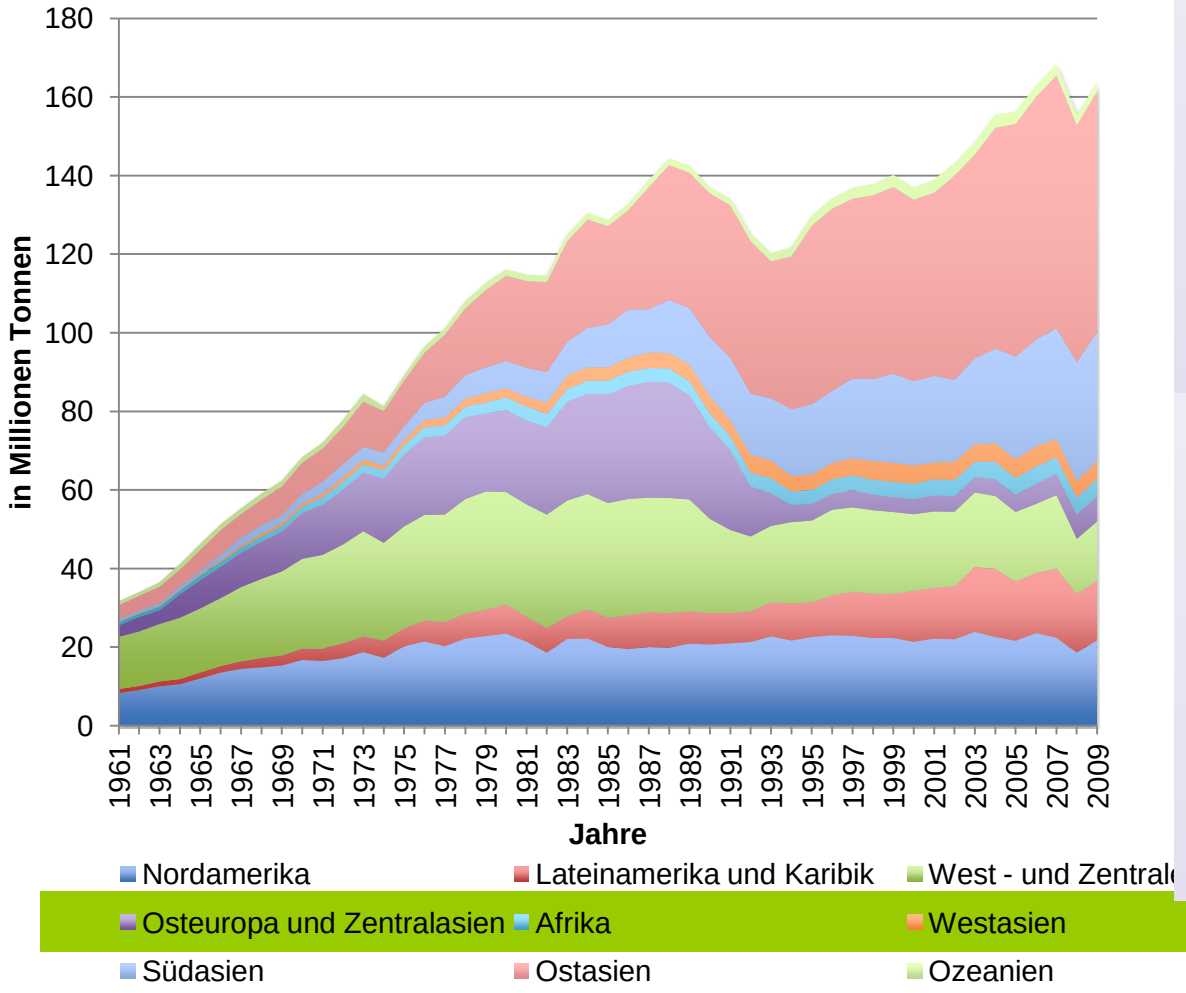


4. Use of land increases but per capita availability decreases

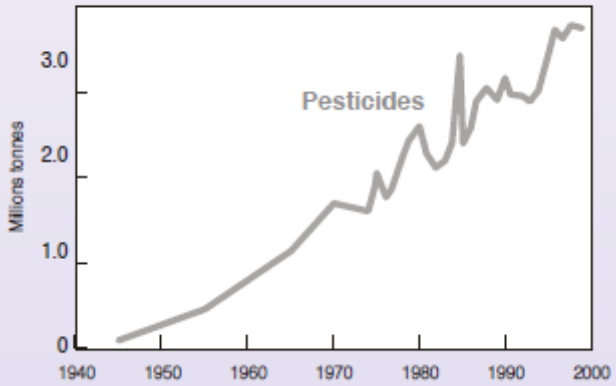


5. Use of agricultural inputs increases

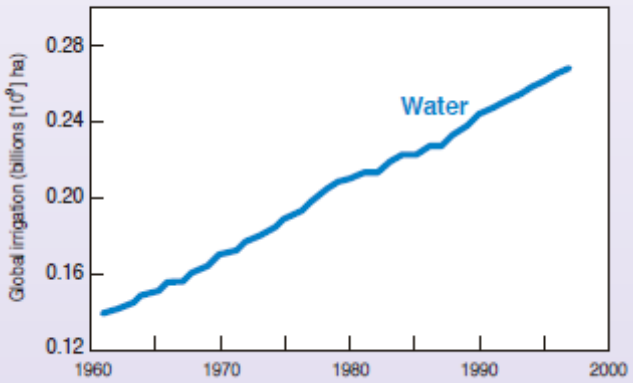
Fertilizer Use (N, P_2O_5, K_2O)



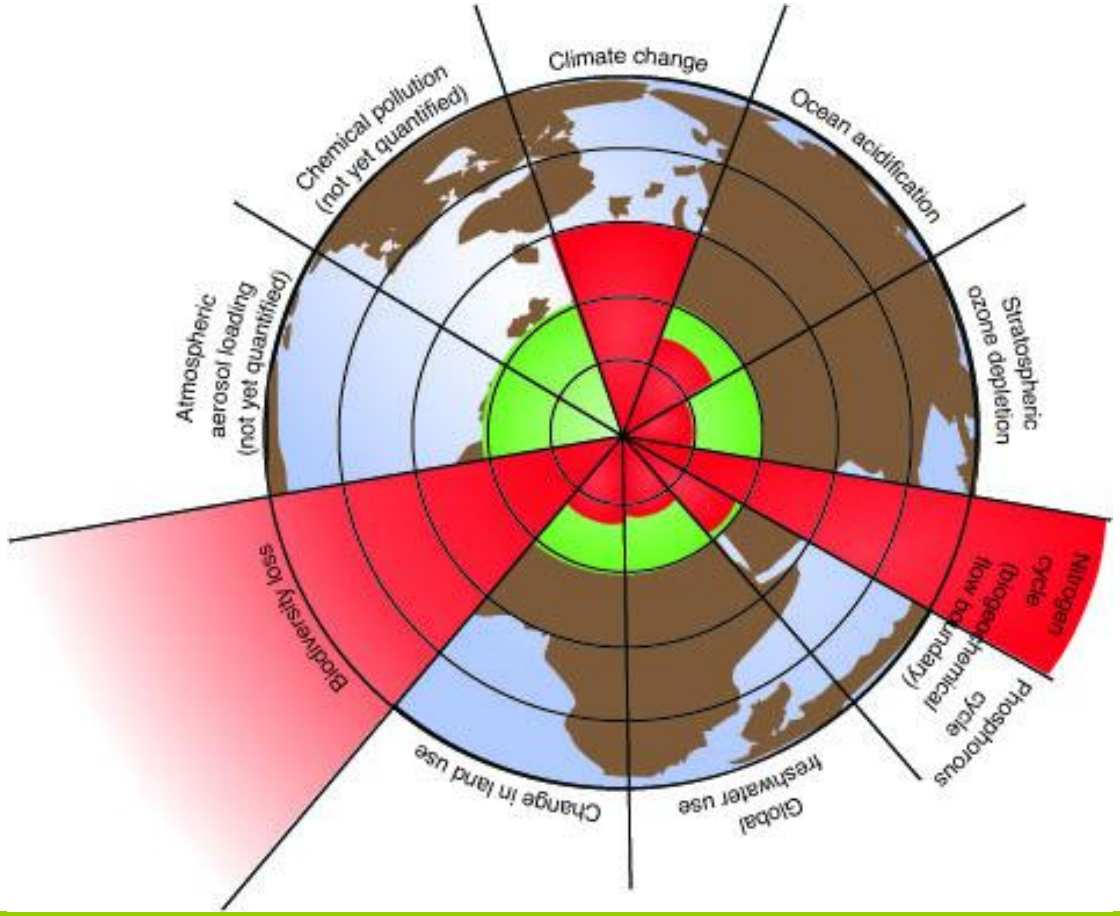
Total global pesticides production



Increased use of irrigation

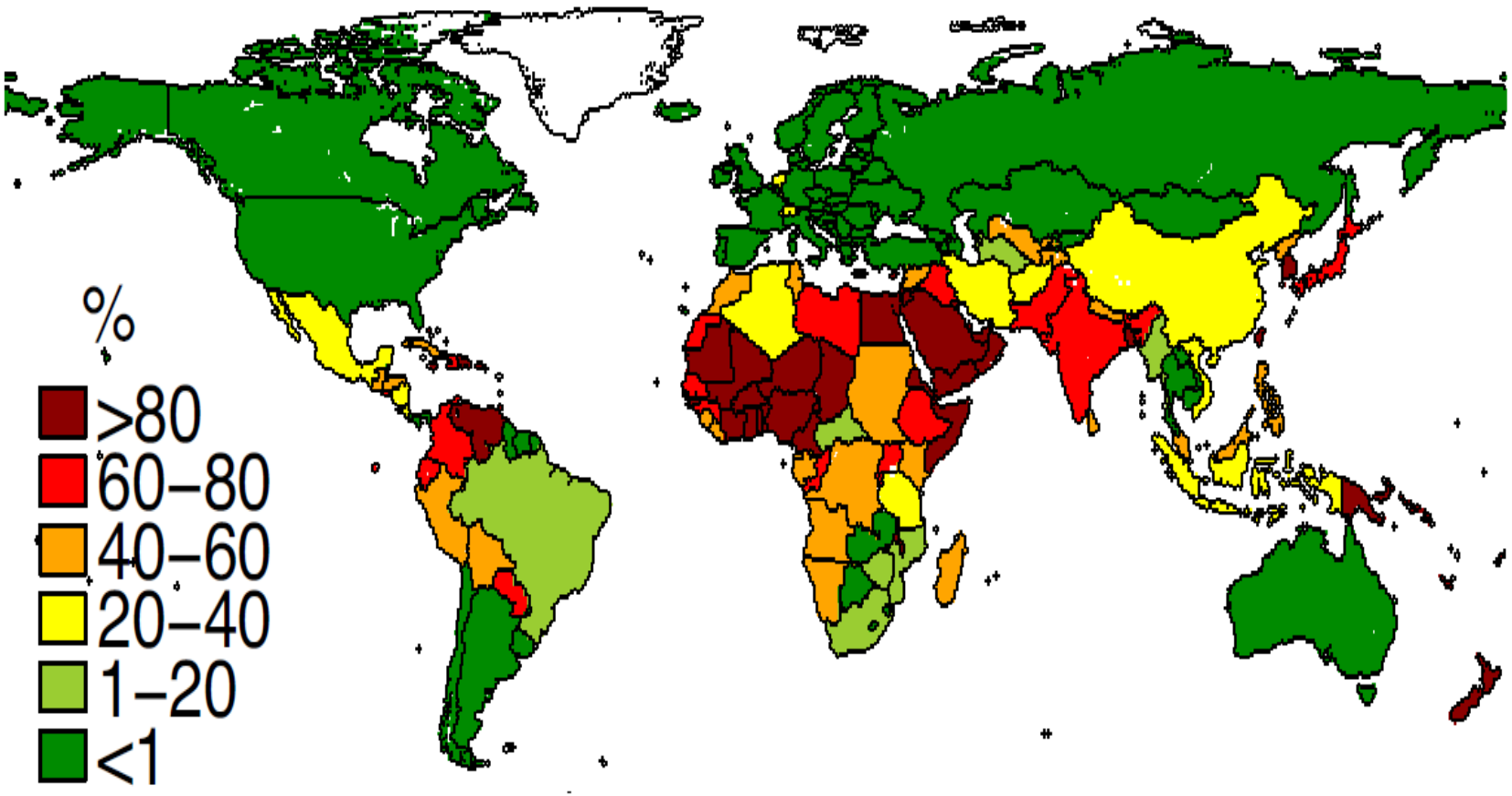


6. Planetary boundaries are crossed

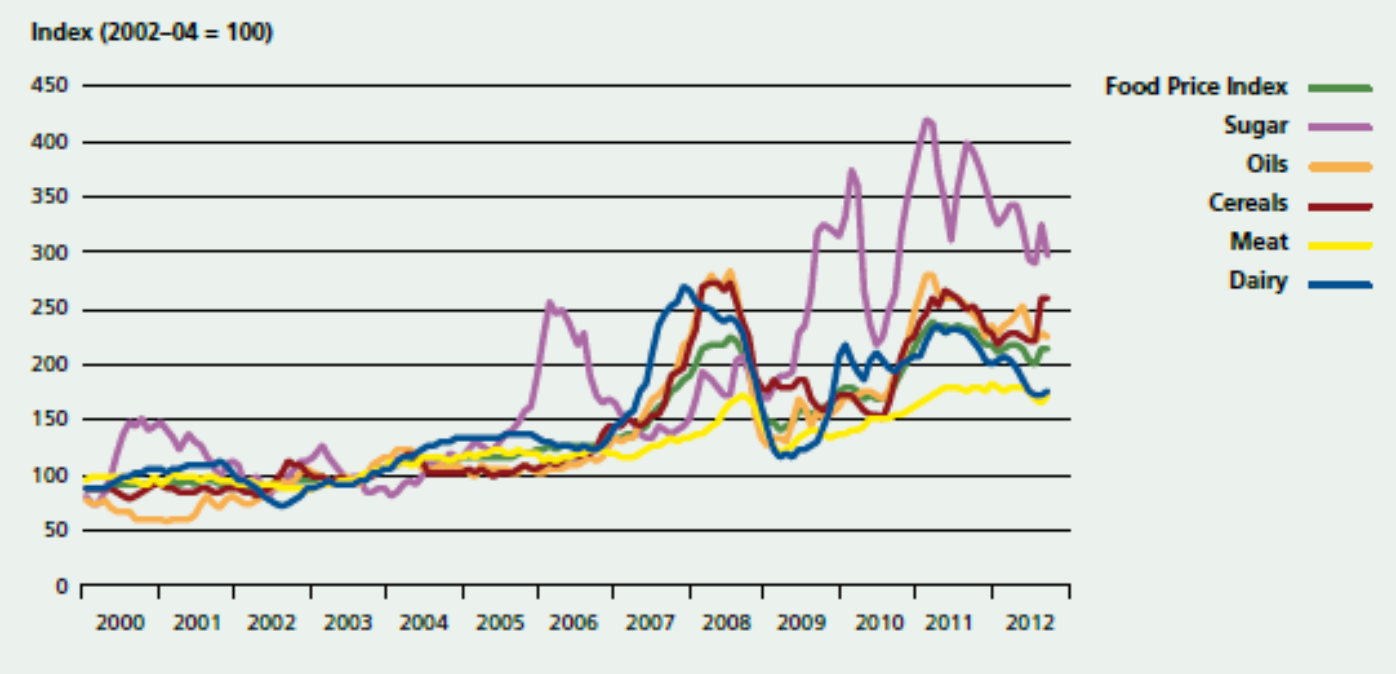


7. Natural resources are under pressure

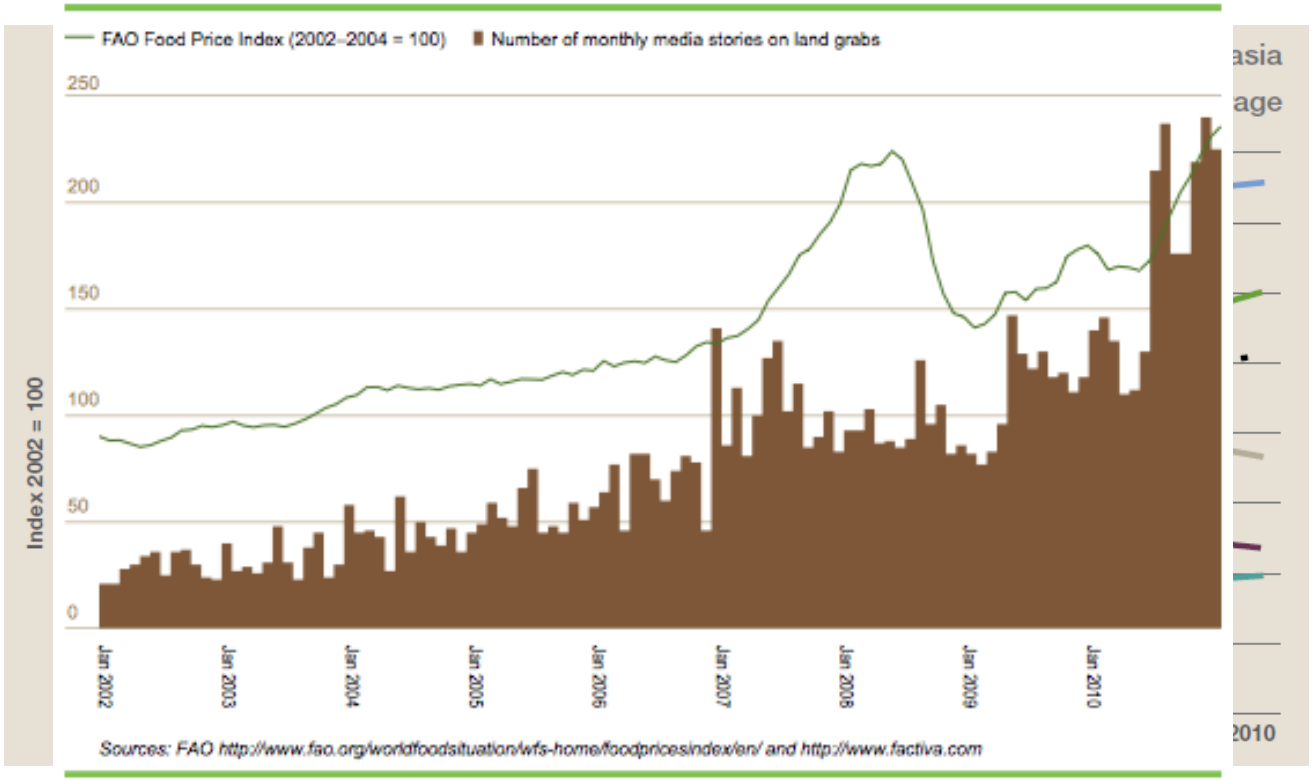
Share of population living in regions under water stress



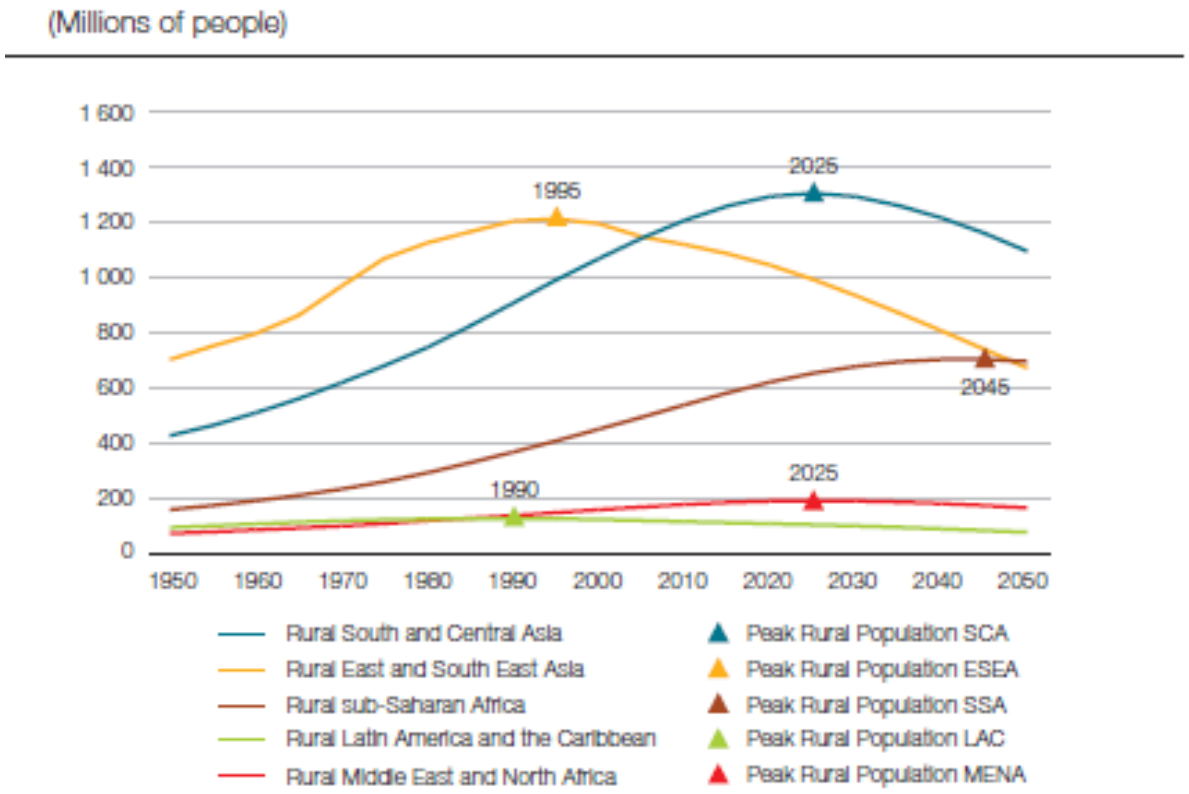
8. Food prices rise and are increasingly volatile



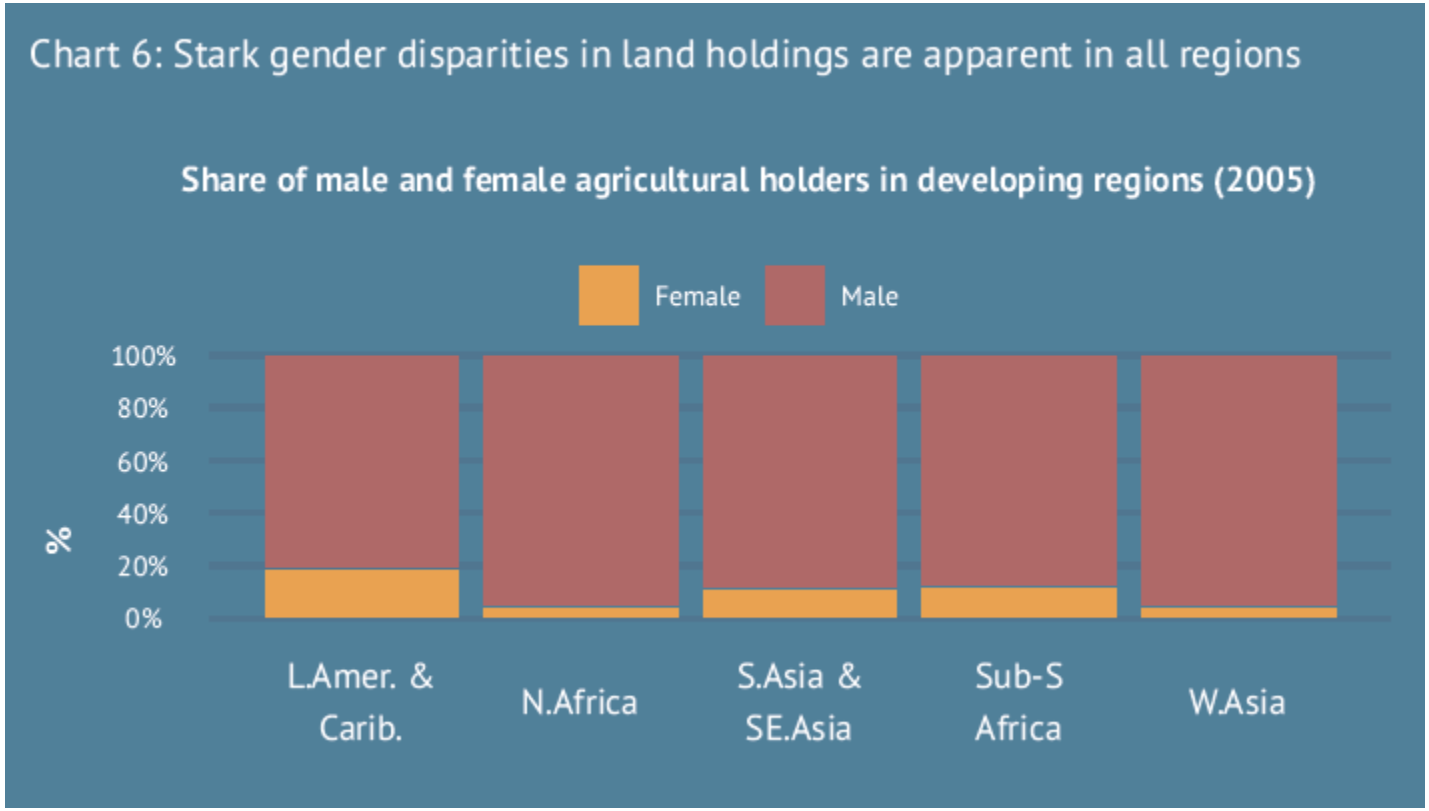
9. Value of global farm land and landgrabs increase



10. Rural poverty will increase in many regions of the world



11. Female producers are still drastically discriminated



Thank you very much for your attention!

References

- **Aspect 1**: FAO, 2012; Alexandratos, N. and J. Bruinsma. 2012. World agriculture towards 2030/2050: the 2012 revision. ESA Working paper No. 12-03. Rome, FAO.
- **Aspect 2**: OECD – FAO, 2007; Agriclutural Outlook 2007 – 2016 and FAO, 2012; Alexandratos, N. and J. Bruinsma. 2012. World agriculture towards 2030/2050: the 2012 revision. ESA Working paper No. 12-03. Rome, FAO.
- **Aspect 3**: : FAO, 2006; World agriculture towards 2030/2050. Interim Report. FAO, Rome.
- **Aspect 4:** FAO, 2011, The State of The Worlds Land and water Resources for Food and Agriculture; Managing Risk. Summary.
- **Aspect 5**: Kotschi, forthcoming, Am Boden zerstört. Die Rolle von Mineraldünger in den Tropen und Subtropen and UNEP, 2011, Green Economy. Agriculture. Investing in natural capital.

References, cont.

- **Aspect 6**: Stockholm Resiliance Center, 2009. http://www.stockholmresilience.org/21/research/research-programmes/planetary-boundaries.html
- **Aspect 7**: *FAO, 2011, The State of The Worlds Land and water Resources for Food and Agriculture; Managing Risk. Summary and* Rost, S., Gerten, D., Hoff, H., Lucht, W., Falkenmark, M. and Rockström, J. (2009). Global potential of enhancing agricultural water productivity. Environmental Research Letters
- **Aspect 8**: FAO, 2012, State of Food and Agriculture
- **Aspect 9**: Savills, 2012, International Farmland Focus and Oxfam, 2011, ***
- **Aspect 10**: IFAD, 2011 Rural Poverty Report.
- **Aspect 11**: FAO statistical Yearbook 2012, „The setting“.