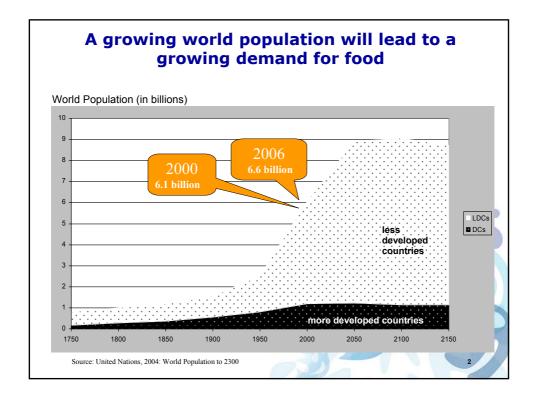
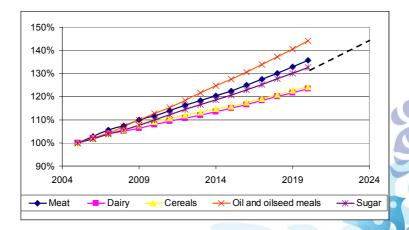
# Biodiversity and rural development in a changing global agricultural commodity market

Brussels April 19th, 2007

Guenther Buck - SVP Oils & Fats Unilever Raw Materials



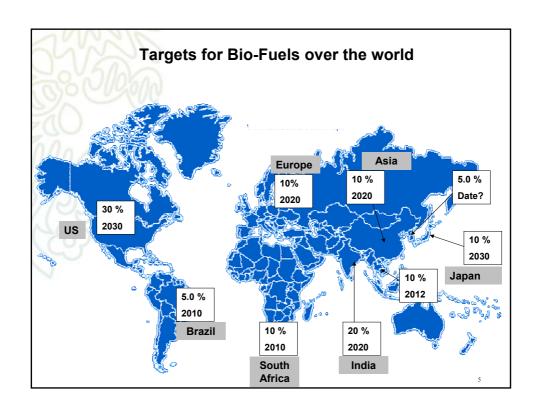
# Forecasts for food consumption growth – primarily in China, India and other D&E countries (OECD-FAO, 2006)

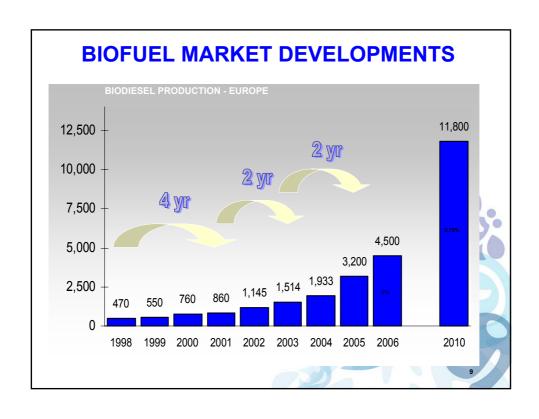


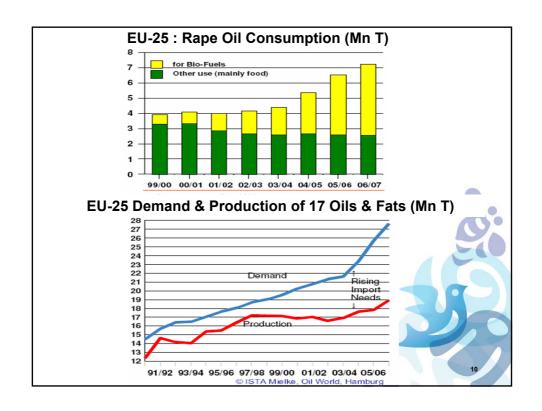
- In 20 years an extra 50% food production is needed!
- Without agricultural intensification this will require an additional 2.5 billion ha of land (e.g. 2/3 of the current forest area!)

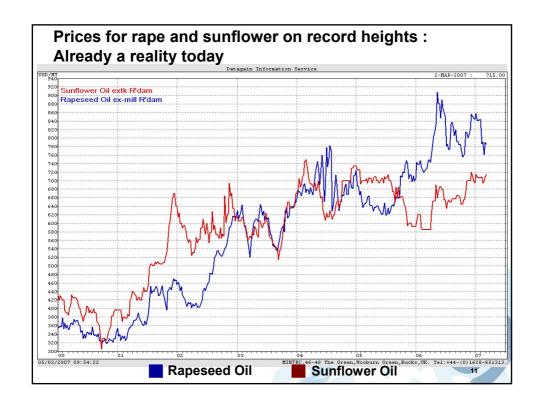
# Biofuels - The new demand factor

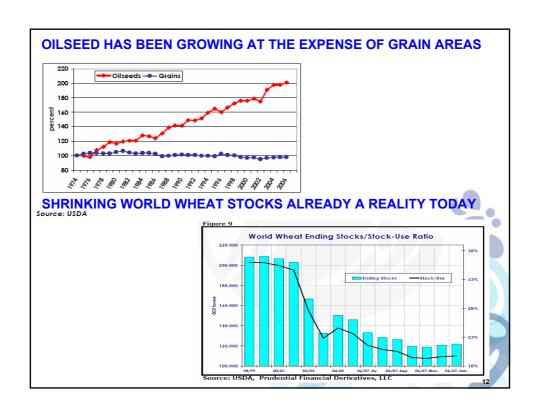
- Drivers:
- 1. Security of future energy supply
- 2. GHG emissions reduction because of climate change
- 3. Rural development
- Agenda : Politically Driven Not a market initiative!

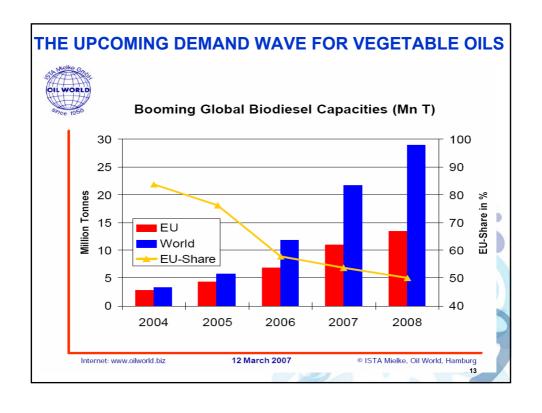


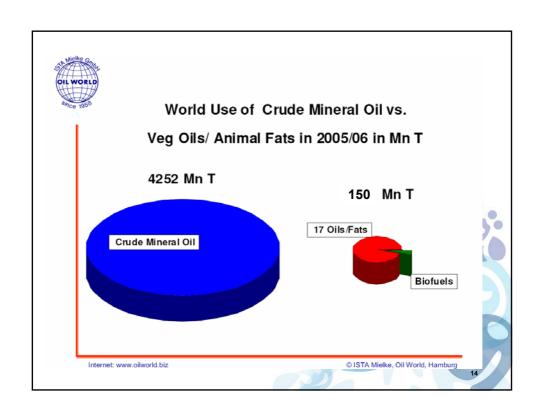


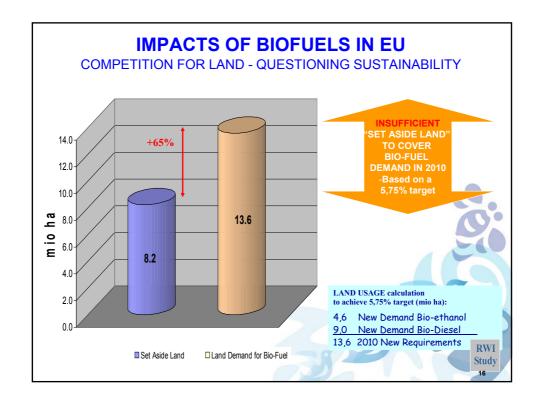








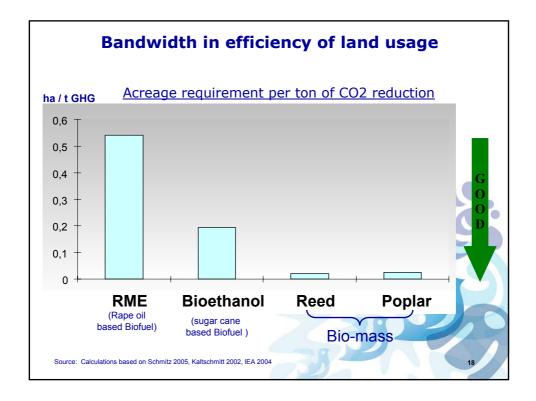




# Agricultural intensification – The debate

- Intensification requires irrigation and fertilizers
- Intensification of agriculture can lead to severe environmental problems like:
  - v Water scarcity and pollution
  - v Erosion
  - v Loss of landscapes
  - Excess use of fertilizers Ozone depletion Nitrogen from fertilizers
  - v Biodiversity reduction (loss of flora and fauna)
- Most of the current biofuel policies do not address this intensification issue adequately
- The energy policies currently do not reflect in full sustainable agriculture, environmental and biodiversity impacts as well as food security
- Global Pressure to move towards more GMO crops

17



### **Conclusion**

## **Mandatory targets for Biofuels:**

- Land availability for both food + fuel is very questionable
- Unlikely to deliver a meaningful reduction in GHG-emissions
- Very low impact on overall energy security
- Puts energy on an economic collision course with food/feed destabilising critical markets
- Risking sustainable agriculture and environment

#### **Proposals:**

- Continuing emphasis on energy savings programmes
- Flexibility in EU policy, careful monitoring of impact on key markets
- Further research on sustainability, land and GHG balance
- Accelerate research into 2<sup>nd</sup> generation technologies
- Prioritise power, heating and cooling applications over transport