

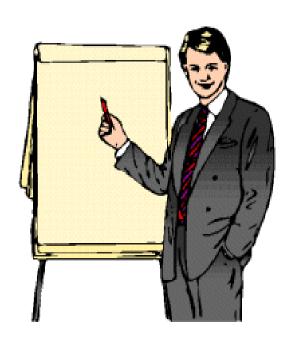


Impact of Large-Scale Conversion to Organic Farming on Greenhouse Gas Emissions

Dr Darko Znaor

Contents

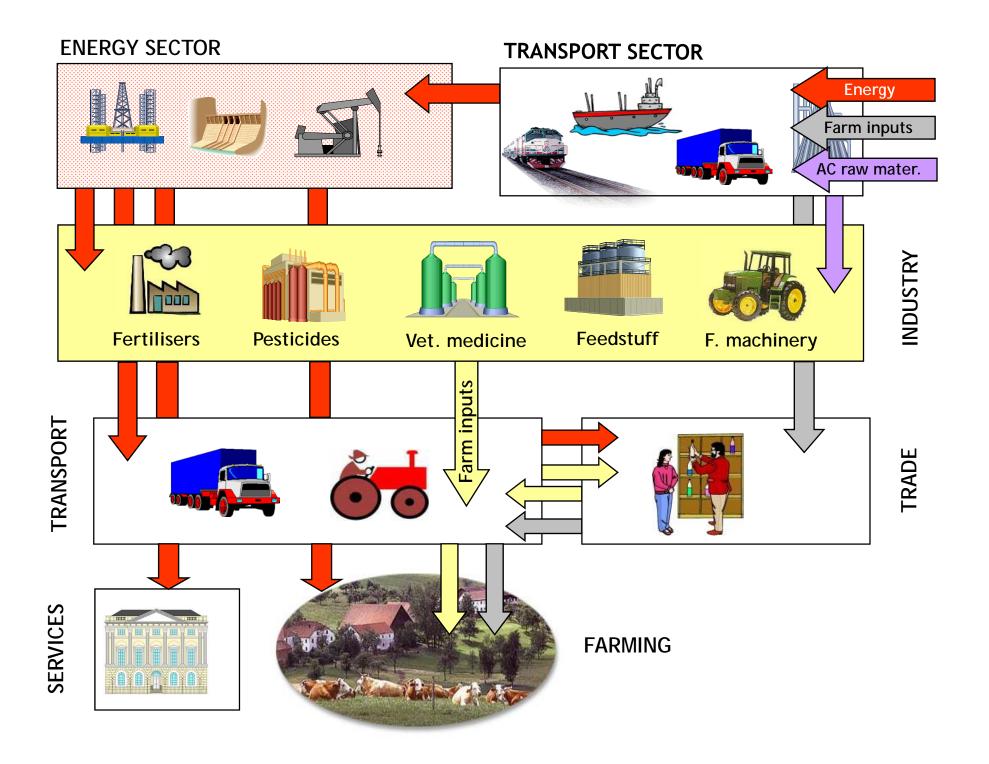
- 1. Question
- 2. Metodology
- 3. Results (HR, UK, EU)
- 4. Conclusions



QUESTION



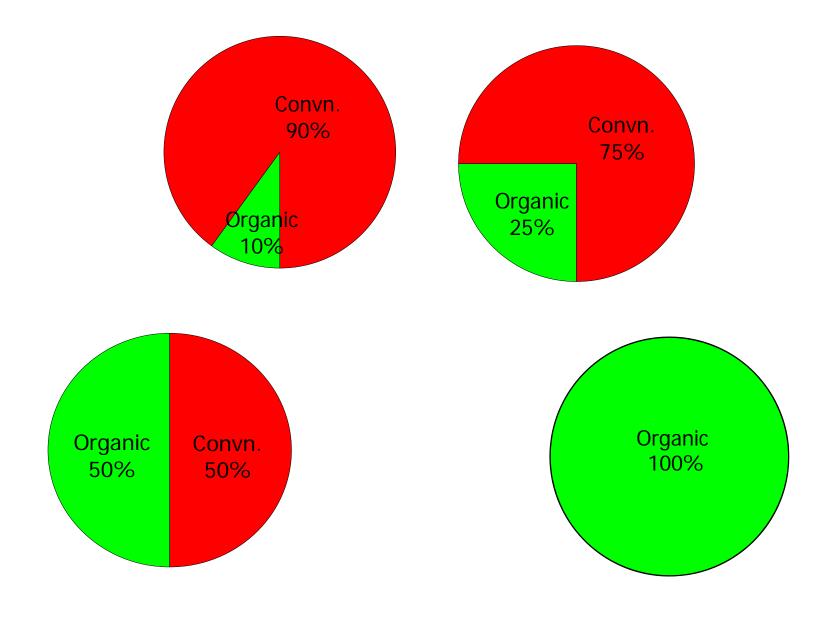
METHODOLOGY (Croatia study)







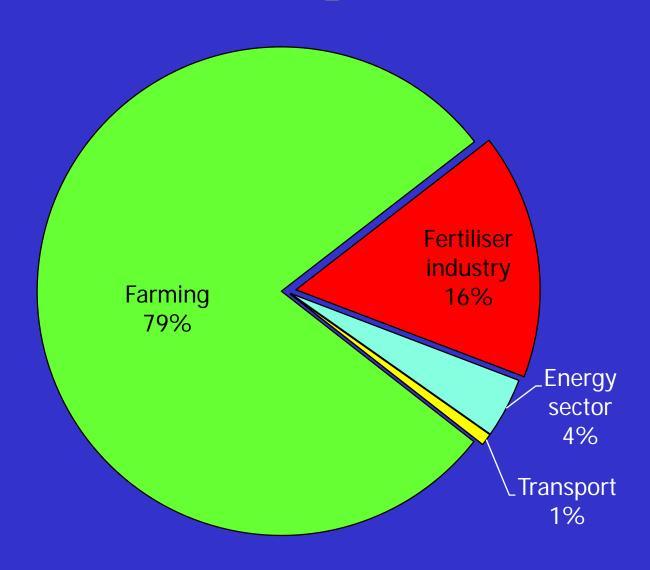
Organic scenarios: area



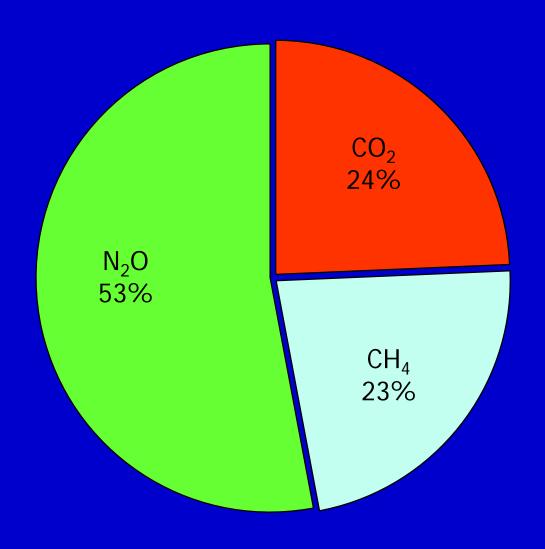
RESULTS (Croatia study) BASELINE

(2001-2005)

Sectoral contribution to GHG emissions (CO₂ eq)



Split of emissions by GHG



External costs



Price of agric. commodities



Market price

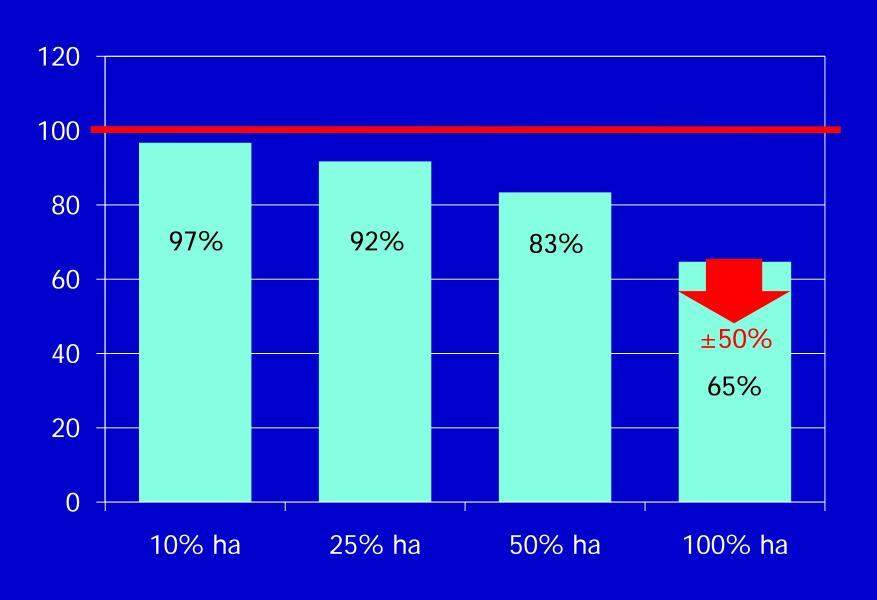


Price with internalised costs

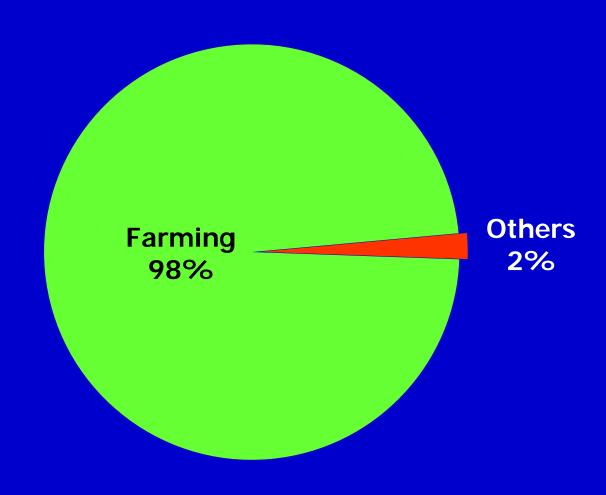


RESULTS (Croatia study) ORGANIC scenarios

GHG emissions as compared to baseline (=100)



Sectoral share in GHG emissions under the total conversion to organic



An UK scenario

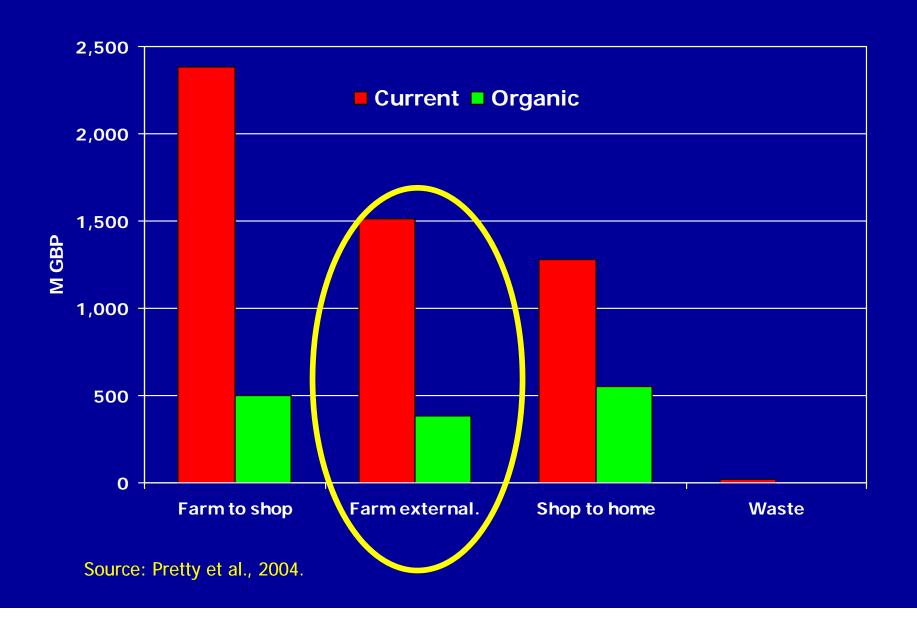
An UK study (Pretty et. al. 2004)

GHG reduction under 100% convesion to OF = 60%

Household GHG emissions

- 4 t CO_2 = car
- 4 t CO_2 = house
- 8 t CO₂ = food!!!

Current vs. home-delivered organic food

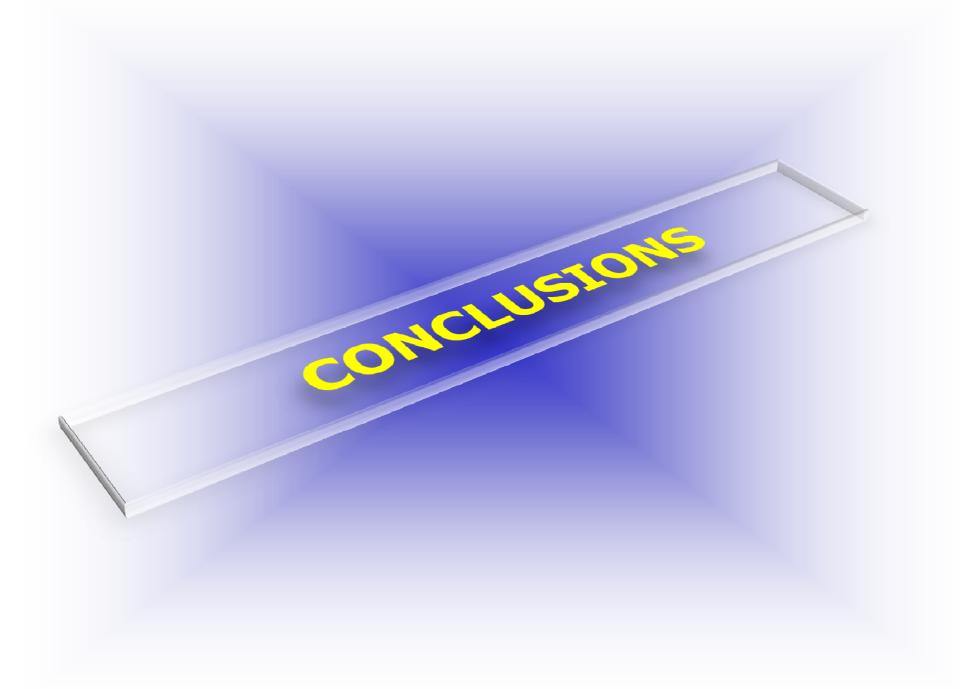


EU-27

EU-27



- Fertiliser production = 1.8% GHG emissions
- Farming sector = 9% of all GHG
- If all organic = ±4% GHG reduction
 - = 50% Kyoto target (2008-2012)



Critical messages

- 1. Pioneering work
- 2. Methodolgical issues
- 3. Fertilisers are the key!
- 4. Only 100% conversion = ±50% GHG 5. OF great contribution to Kyoto targets

EU Ministers meeting on CC and agric, Sep 15



