

Institute of Farm Economics

## **Global Forum on Crop Production**

Joint initiative of:





## Land Cost and Land Profitability – A global Perspective

Yelto Zimmer, Coordinator of *agri benchmark* Cash Crop Peter Borreby, Director of Development, Patriotisk Selskab

**Global Partners:** 











- 1. Outline of the analysis
- 2. Land Rents & Land Prices
- 3. Profitability Indicators
- 4. Conclusions



## Outline of the analysis (I)

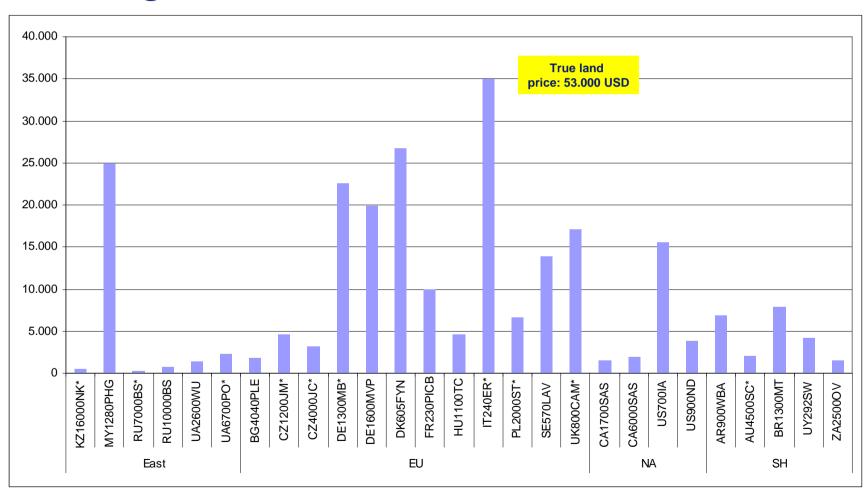
- 1. In the EU land markets are heavily influenced by direct payments.
- 2. Ground rent (profit plus land rent) is the key indicator for profitability of land use.
- 3. The ability of land lords to capture value generated by farming can be measured by the share of land rents in ground rents.
- 4. As far as land cost and land purchase prices are concerned, respective values for Ukraine and Kazakhstan have to be treated with great caution no real land market do exists.
- 5. We can't convert into figures: political risks and development of inflation as well as exchange rates.



- 1. Outline of the analysis
- 2. Land Rents & Land Prices
- 3. Profitability Indicators
- 4. Conclusions

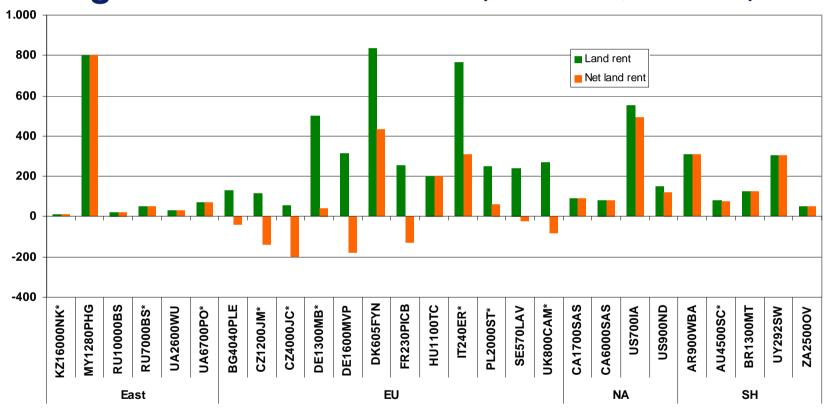


# Land Purchase Prices for agri benchmark Farms (2010, in USD/ha)





## Land Rents and Net Land Rents\* for agri benchmark Farms (2008 – 2010, in USD/ha)



- Compared to developed land markets such as USA or AR gross rents for EU farms are on the same level (exceptions: DK and IT high land prices because of livestock production & horticulture)
- But: including direct payments (net land rents), EU land rents are very low or even negative.

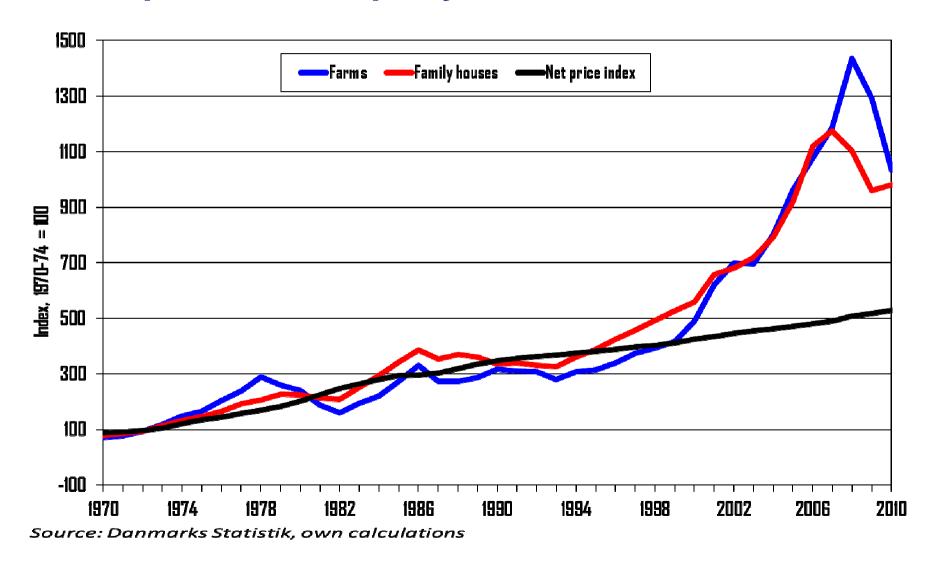


#### **Land Rents in Denmark**

- Models:
  - 1. Fixed Land Rent
  - 2. Variable I = Cereal price based adjustment
  - 3. Variable II = Cereal price based adjustment + share of decoupled payment
- Levels of Land Rent
  - 1. Sandy soil without irrigation 550 USD/ha (decoupled payment + 170 USD/ha)
  - 2. Average soil 700 850 USD/ha
  - 3. High potential (sugar beets, vegetables, high demand for land) 1.000 1.500 USD/ha



## **Development in Property Prices, Denmark**



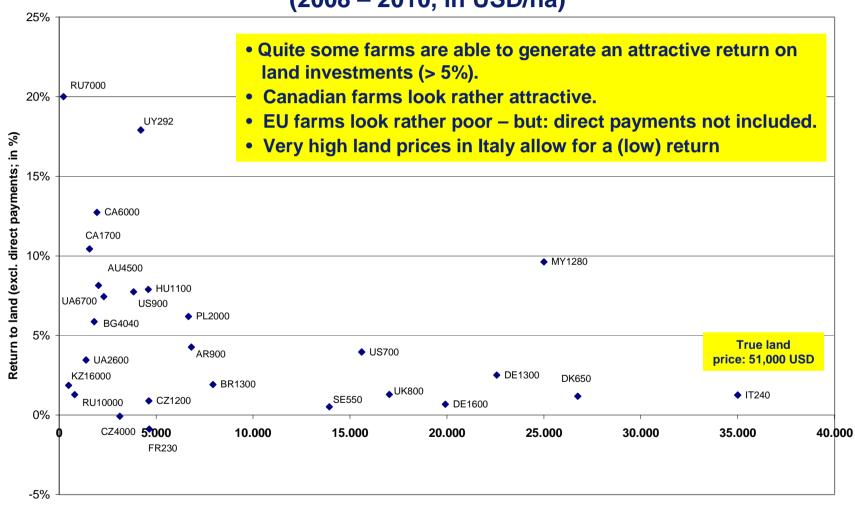


- 1. Outline of the analysis
- 2. Land Rents & Land Prices
- 3. Profitability Indicators
- 4. Conclusions



#### **Ground Rent as Return to Land**

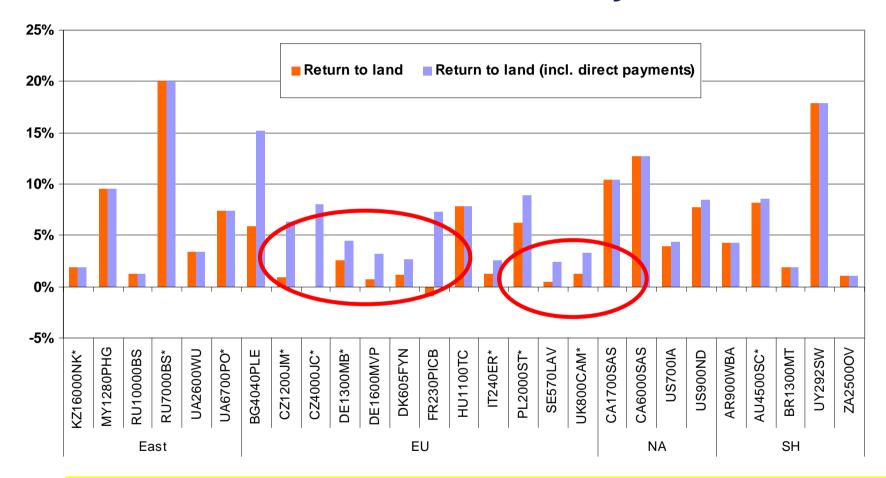
(2008 – 2010, in USD/ha)



Land price 2010 (in USD/ha)



## Returns to Land w/ & w/o Direct Payments (2008 - 2010)

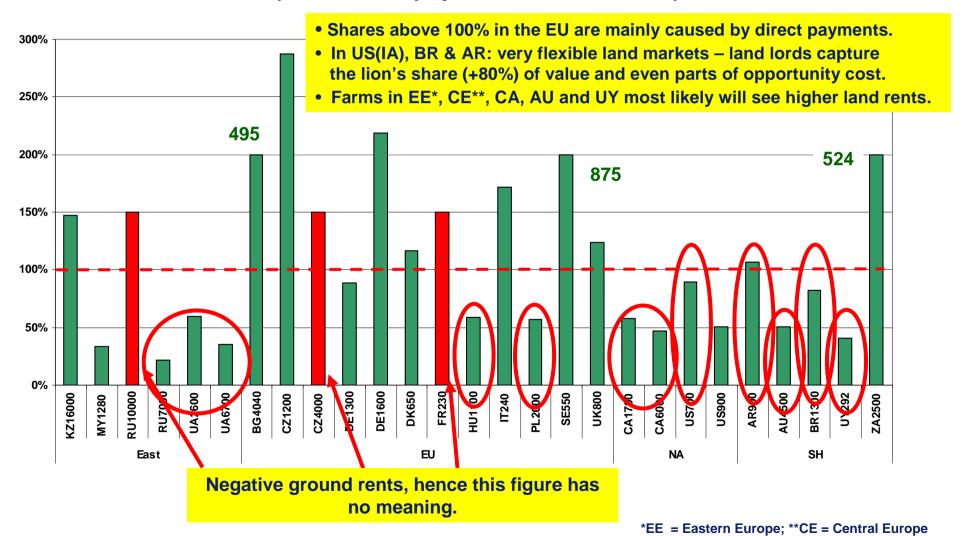


- w/o direct payments returns to land are very low or even negative for many EU farms.
- However, including d.p. land on EU farms becomes relatively attractive (3% to +5%).
- CA, UY, USA(ND), MY, RU (?) seem to be intersting places to run farms.



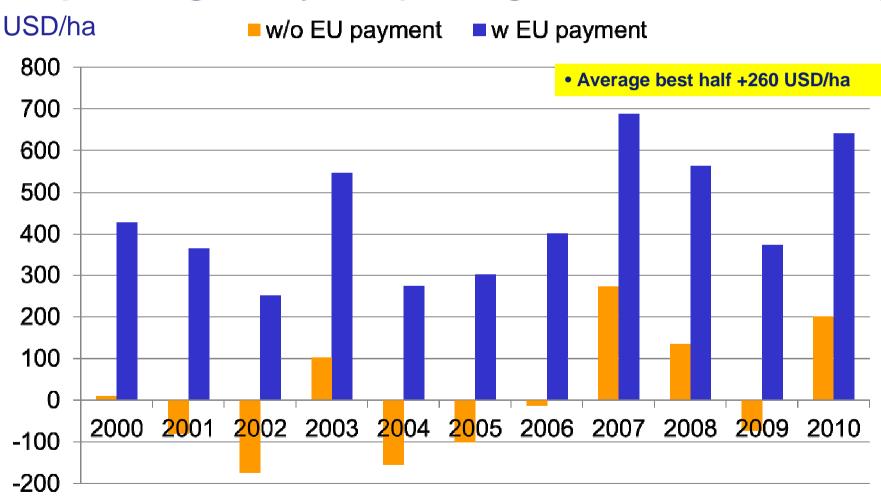
#### Land Rents as a share of Ground Rent

(excl. direct payments; 2008 – 2010)





## \*Ground Rents w & w/o EU payment Operating Analyses (average *Patriotisk Selskab*)





- 1. Outline of the analysis
- 2. Land Rents & Land Prices
- 3. Profitability Indicators
- 4. Conclusions



## **Conclusions (I)**

- While gross land rents in the EU are similar to the rest, net land rents (land rent ./. direct payments) are rather low or even negative.
- 2. Also when looking at return to land, w/o direct payment EU farms look rather unattractive. However, when including direct payments, investments in land become economically.
- 3. Given high returns to land in UY, CA, RU, UA, US, CA, AR further investments in land and increasing land values seem to be likely.
- 4. Given the share of land rent in ground rent it seems advisable to actually farm in UY, UA, CA and not just go for a land lord status.



## **Conclusions (II)**

- 5. In developed land markets land lords are able to capture up to 100 % and more of the ground rent.
- 6. Low value shares for land lords can be found for farms in EEand CE-countries as well as in AU and UY – significant increases in land rents can be expected.



## **Knowledge is our Business**



#### **Dr. Yelto Zimmer**

- Head of agri benchmark Cash Crop team -

Institute of Farm Economics
Johann Heinrich von Thünen-Institute
Bundesallee 50, 38116 Braunschweig

phone +49-531-596-5155 mobile +49-173-5722723

e-mail yelto.zimmer@vti.bund.de internet www.agribenchmark.org

www.bw.vti.bund.de