# **ORGANIC FARMING**

# From the market niche to a regional development potential

Institut für Ökologischen Landbau, BOKU Institut für Agrarökonomik, BOKU

CULINAR - Institut für Ernährungskultur und Lebensmittelwirtschaft

Ludwig Boltzmann-Institut für Biologische Landbau und Angewandte Ökologie

B. Freyer, T. Lindenthal, S. Hadatsch

A. Muhar, A. Bartel, D. Zollner, I. Mohl

H. Paver, H. Rützler, A. Walzer



## Two research areas

Grassland



## WEINVIERTEL Crop farming region

At present: 1% organic farms



Wine and Fruit 7% Grassland 1%

Agricultural trends in conventional farming

By the increase of the milk yield more feed concentrate (e.g. grain) is

Through increasing specialization agriculture areas increase in size and

# production engineeri

- ? How does crop production change?
- ? What is the effect of the conversion on animal husbandry?
- ? What is the effect of the conversion on the environment?

**公本的股份的股份** 

- ✓ Lower yields and more varied crop rotations
- ✓ Animal husbandry and feeding take place nore species appropriate
- ✓ Lowering of nitrogen surplus and avoidance of phosphorus surplus, leads to less nitrate in the groundwater and less eutrophication of rivers

## **一个人就是不够多的。** regional economy

- ? What value does organic agriculture have for regional development?
- ? How does the creation of a chain of economic added value change by a conversion to organic farming on a large
- ? Is there a positiv effect on health tourism, catering industry and cultural activities?
- ✓ Strenghtening the carrying capacity of the rural area
- Encouraging regional marketing and co-operation in the region
- Protecting and maintaining competitive ability and employment in future markets

#### ? What modifications would be necessary in context of a conversion to organic

- ? What effects would a conversion to organic farming to animal husbandry and land allocation have?
- ? How would agricultural



- ✓ In organic farming there is larger variety of lifestock husbandry and crops
- ▼ The extent of modifications in the operational organization depends on the degree of
- ✓ Due to present outline conditions (markets, prices, promotions) a higher income cannot be expected for every

# On the way to a regional conversion to organic farming

### **Obstacles**

- Certain skepticism in relation to the organic agriculture with associations, processors and regional politicians

### **Effects**

- /ariety and **identification** by regiona

- ? What does a conversion n for the development of a species-rich and landscape type specific biotope diversity?
- ? What is the role of the promotion of beneficial organisms?
- ? How can guidelines for organic farming and guidingprinciples for nature conservation be optimally integrated?



nature conservation

- ✓ Small structures such as field margins and hedges are importand for pest
- ✓ Further development of organic-farming guidelines for biodiversity protection

## Organic farming is based on system thinking

? What do the regional participants think about conversion?

A SHARE WEND

- ? What factors promote and discourage conversion to organic
- ? What factors determine the choice of the type (conventional or organic) of farming?

rural sociology

- √ A conversion of all farms in a region is considered unrealistic - due to conflicting interests
- ✓ Women more likely do support a conversion
- ✓ Not every consumer is prepared to pay a premium
- ✓ Economic considerations, subjective perceptions and non-standard value attitudes determine th conversion decision
- ? What effects does organic agriculture have on the produce in terms of biocide -, hormone- or antibioticresidues or BSE?

- ? Is a redefinition of the term "quality" necessary?
- ? Is food safety affected?
- resulation and inspections as well as largely closed circulation of materials
- ✓ Inclusion of the dynamics of product emergence and effect (process quality), instead of fixed view
- ✓ Higher transparancy of production and processing methods by recordings

food quality















project management:

Institut for organic agriculture University of Agricultural Sciences Univ. Prof. Dr. Bernhard Freyer (project manager) Dr. Thomas Lindenthal (project co-ordinator)

