



Uwe Brede, Hessische Staatsdomäne  
Niederbeisheim

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From the breeding, over the field,  
To the animals

- alternatives to proteinplants (grain legumes)**
- the necessity of grow / difficulty of grow**
- breeding aspects - originadvantage**
- participated breeding activities**
- demand on breeding-concerns and feedproducers**
- treatment and revalorization seeds**
- policy requirements**

# alternatives to proteinplants

- replacement from plantprotein through animalprotein (bloodmeal, bonesmeal, fishmeal,etc)
- synthetic produced aminoacids
- protein from effective mikroorganism
- presscake from oilseeds

# The proteinefficiency !

**-breeding of adapted varieties to  
organic farming**



( right picture: cultivation of small  
plots Alsfeld-Liederbach K.Vaupel und  
D.Sträßer, Mai 2012)

# Necessity of grow

- N-fixing due to bacterias
- wider range of plants (diversification, CO<sup>2</sup> binding, soildeveloping, P-availability etc.)
- cashcrop/proteinsupplier
- Biolandrights (100% biofeeding, min. 50 % ownpart)

# difficulty of grow

- varying yields  
(through to leaf and rootdeseases,  
and pests)
- strong weedproportion – difficult harvesting
- Importfeed is available
- antinutritive parts (tannicacides, alkaloide,  
glucoside)

# breeding aspects

- spring legumes are bred under conventionell conditions (verry clean plots, optimum nutritionvalue, weed-,deseases-,pestcontrol by pesticides)
- originadvantage is not used

# Farmers breeding activities

- on farm breeding of certain types
- setting up our own breeding garden
- notification of the cooperative

**BÄUERLICHE – ÖKOSAATZUCHT e.G.**





Drilling plots , 12 different types of FABA-Beans and material from Samenbank in Gatersleben

# Bäuerliche Ökosaatzucht e.G.

- Partizipating in the whole process of breeding
- Farmers, consumers, traders, can be members of the cooperative
- members are owner and user of the cooperative, breedinglizens charged by seeds is the base of running the business.

(right picture: drilling plots F1,F2, parentsgeneration in Niederbeisheim, Bild :Uwe Brede, David Straßer, April 2012)





# disciplinated linebreeding

- The breeding is done by german seedlaw .
- The „bäuerliche Ökosaatzucht eG“(böz) is now owner of the seedrights of the type BILBO and is registered.
- The Faba Beans are two times polinating

(right picture: F2,3 Generation,  
Fertilisation by hand with bumble bees in  
the further generations)





Bohnenkäfer

# aims of the cooperative:



- established organic seed producers doing the growing and the treating of seeds
- the bäuerliche Ökosaatzucht e.G. is the owner of the seedsright and the trader of the seeds.
- the seedslizens is sattled down and charged by every sold tonne
- -our aim is an independing seedproduction for organic-farmers after Bioland-Rules.

(left picture: 3 generations of my family are harvesting a lot of generations FABA BEANS)



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# Stand und Entwicklung der Genossenschaft

## GRÜNDUNG DER „BÄUERLICHEN ÖKOSAATZUCHT E.G (BÖZ EG)

- Februar 2011  
Gründungsversammlung
- Projektentwicklungs eG
- Geschäftsführender  
Vorstand: Uwe Brede  
stellvertretend: Andreas  
Schmid-Eisert
- Gründungsmitglieder:  
5 Biolandbetriebe, Bioland LV  
Hessen, Uni-Kassel, Uni-Gießen

## WEITERENTWICKLUNG DER BÖZ EG

- im Frühjahr 2013 Öffnung für  
alle Interessierten  
(Landwirte, Verbraucher, Verarbeiter, etc.)
- Ausgabe von  
Genossenschaftsanteilen
- Bildung der  
Genossenschaftsgremien
- Ausweitung der Züchtungs-  
aktivitäten





Drilling FABA BEANS in spring 2013



Ackerbohnen Juni 2013



Eingehauste Parzelle , Blühbeg

# Demand on breeding companies and feedproducers

- Breeding of wintervarieties is needed
- Recross of colored flowering varieties must be enhanced
- breeders and scientists must develop methods for fast identification of diseases and pest control
- -feedproducers must treat the seeds (peeling, toasting, etc.)

# policy requirements in the EEC

- Proteinplant subsidy
- farmers grow every sixth year a grain legume, insted of greening
- - education in farming must be developed ( grain legumes sometimes forgotten as a cashcrop)

## ... policy regulations

- keeping on an developing seedrights for the whole EEC (like german seedright!)
- Z-Lizens and aftergrowthregulation must be verry transparent to farmers and the public
- priviligation of breeding must be kept on
- patentas of seeds, seedstuff and breded animals have to be forbitten in the EEC

# Thank you for listening!

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- Die wahren Optimisten sind nicht überzeugt
- dass alles gut gehen wird,
- aber sie sind überzeugt,
- dass nicht alles schief gehen kann !!