

Implementation of consulting service and knowledge transfer to the protein strategy – using the example of the federal state Hesse

Workshop

„Plant proteins – agronomic practices and environmental benefits“
11.-12. of June 2018, Bucharest
Session 2 – pulses production

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Topics

- Agriculture in Hesse
- What is the LLH?
- Protein strategy in Germany
- Protein initiative in Hesse
- Cooperation with the networks
- Knowledge transfer to peas and beans



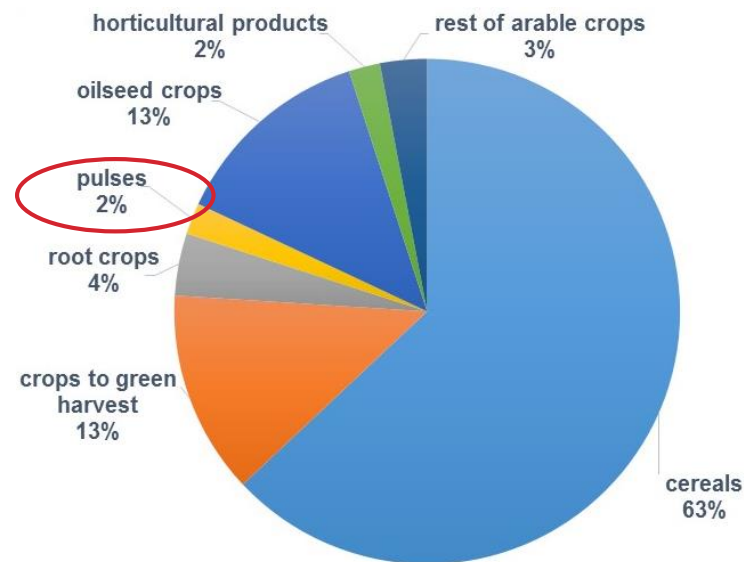
Agricultural structures in Hesse

key facts

utilised agricultural area (ha)	773,200
- cropland (%)	61
- grassland (%)	38
agricultural holdings (n)	16,300
- full time (%)	40
- part time (%)	60
average size of farms (ha)	47.2
part of organic farming	
- agricultural area (%)	13.5
- holdings (%)	12.8
part of livestock husbandry (%)	70

source: Department of agricultural affairs and department of statistic, Hesse, date: 2016, organic farming 2018

Germany



crop production in Hesse

LLH

Board of agricultural and horticultural counselling

Consulting
Service

Education

Professional
Information

Orders and Aims

- foresight and stability for the farm business
- implementation of legal requirements in the farm business
- protection of resources and conservation of cultivated landscape



Consulting Teams at the LLH

1. economics and process engineering
2. land tourism and combination of business lines
3. gardening
4. plant production
5. animal husbandry
6. organic agriculture
7. animal breeding and quality assurance

Aims:
competent consultation
based on trusting
relationship



The LLH consultation

**all topics of
process engineering
and business economics**

integration of new topics
biodiversity, protein initiative,
climate protection, animal welfare



expert
consulting
with a
holistic farm
approach

Protein Strategy

Federal level

BMEL
Protein-Crop Strategy

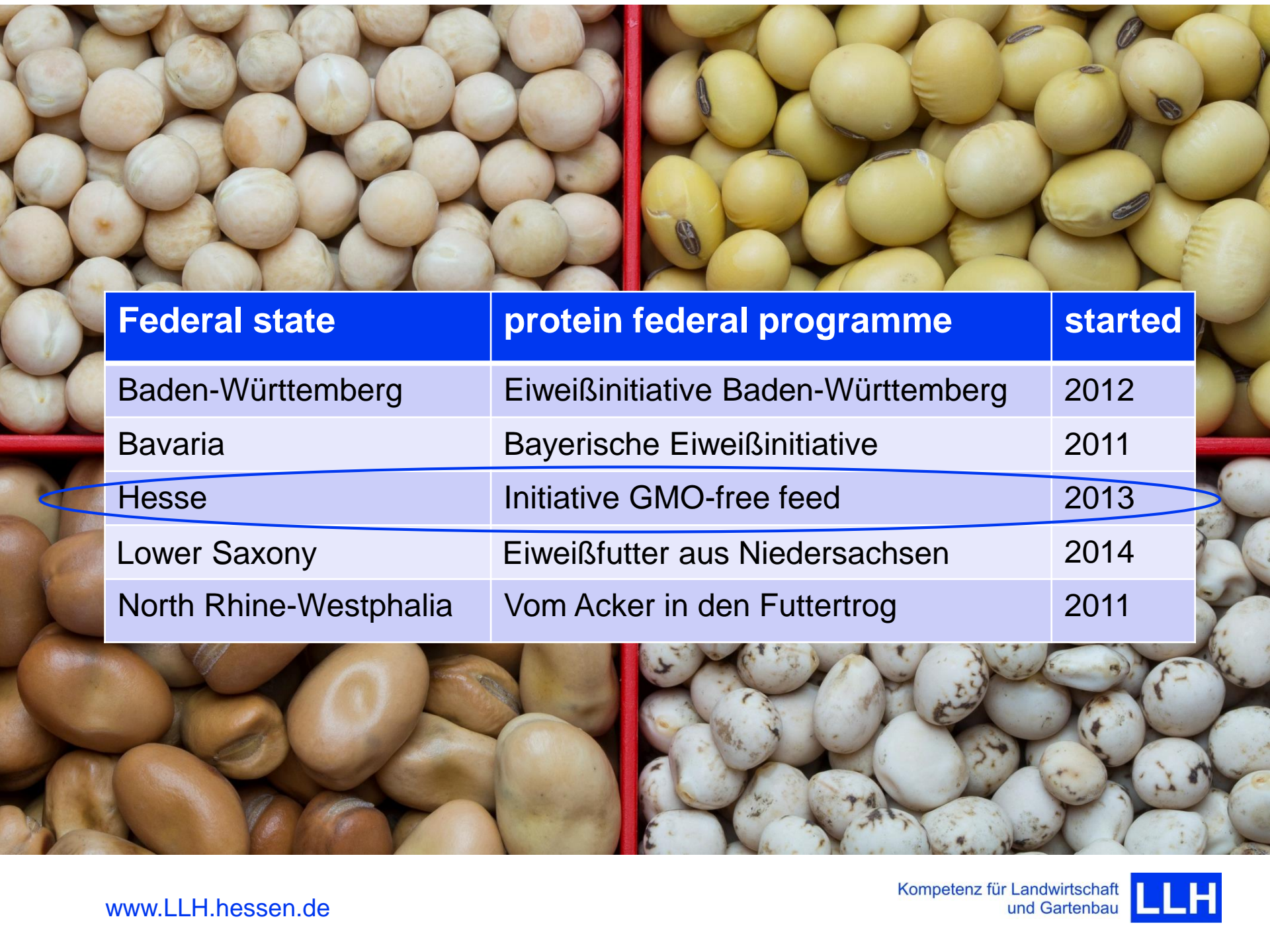
**Agricultural
policy
measures**

**Model/
demon-
stration
networks**

**Research
and
breeding**

Federal
state
level

Hesse Initiative GMO-free Feed



Federal state	protein federal programme	started
Baden-Württemberg	Eiweißinitiative Baden-Württemberg	2012
Bavaria	Bayerische Eiweißinitiative	2011
Hesse	Initiative GMO-free feed	2013
Lower Saxony	Eiweißfutter aus Niedersachsen	2014
North Rhine-Westphalia	Vom Acker in den Futtertrog	2011

„Hesse Initiative GMO-free Feed“ (Protein Initiative)

background

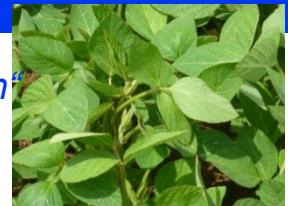
- „protein deficit“ – reducing demand of protein imports
- GMO-free – consumer expectation
- improving the home-grown protein supply – contribution to biodiversity

aims

- implementation of GMO-free feeding
- support for the cultivation of home-grown protein feedstuff
- use of alternative high-quality protein crops
- support to establish regional supply chains

funding

- funded by the hesse ministry (*HMUKLV*) within the frame of „*organic action plan*“
- Hesse agri-environment measures (*HALM*)



LLH-activities to the protein initiative

consulting

- cultivation of legumes (grain and forage legumes)
- to show protein alternatives in feeding
- optimise grassland utilisation
- efficient feed utilisation

professional information

- expansion of research program on grain legumes
- trials to increase legumes in grassland/pasture
- economic evaluation of adapted protein strategies

education and further activities

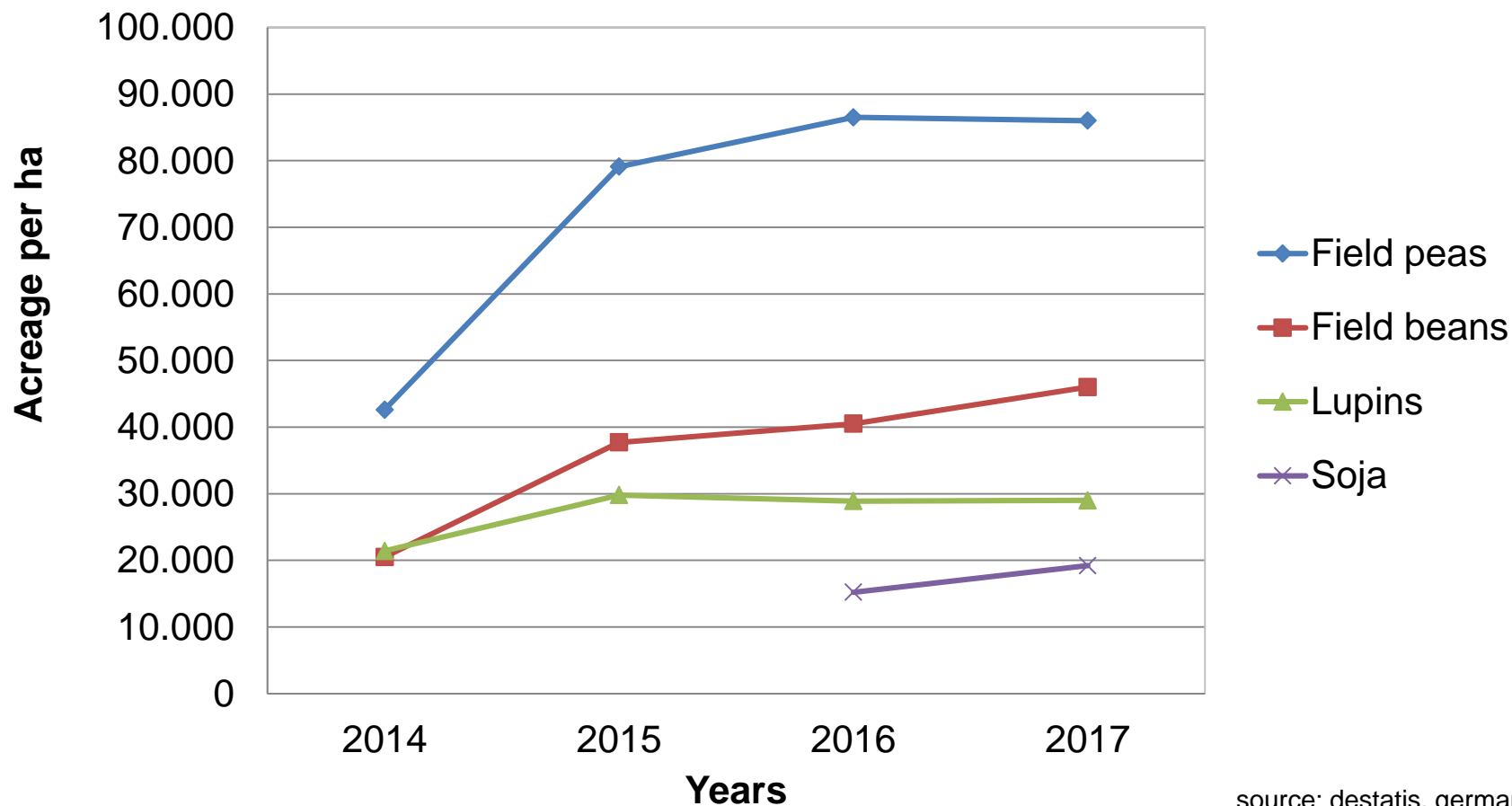
- specific themes for teaching and student projects
- establishment of regional manufacturing and processing facilities
- innovative concepts for the utilisation of regional protein



What have we achieved so far?

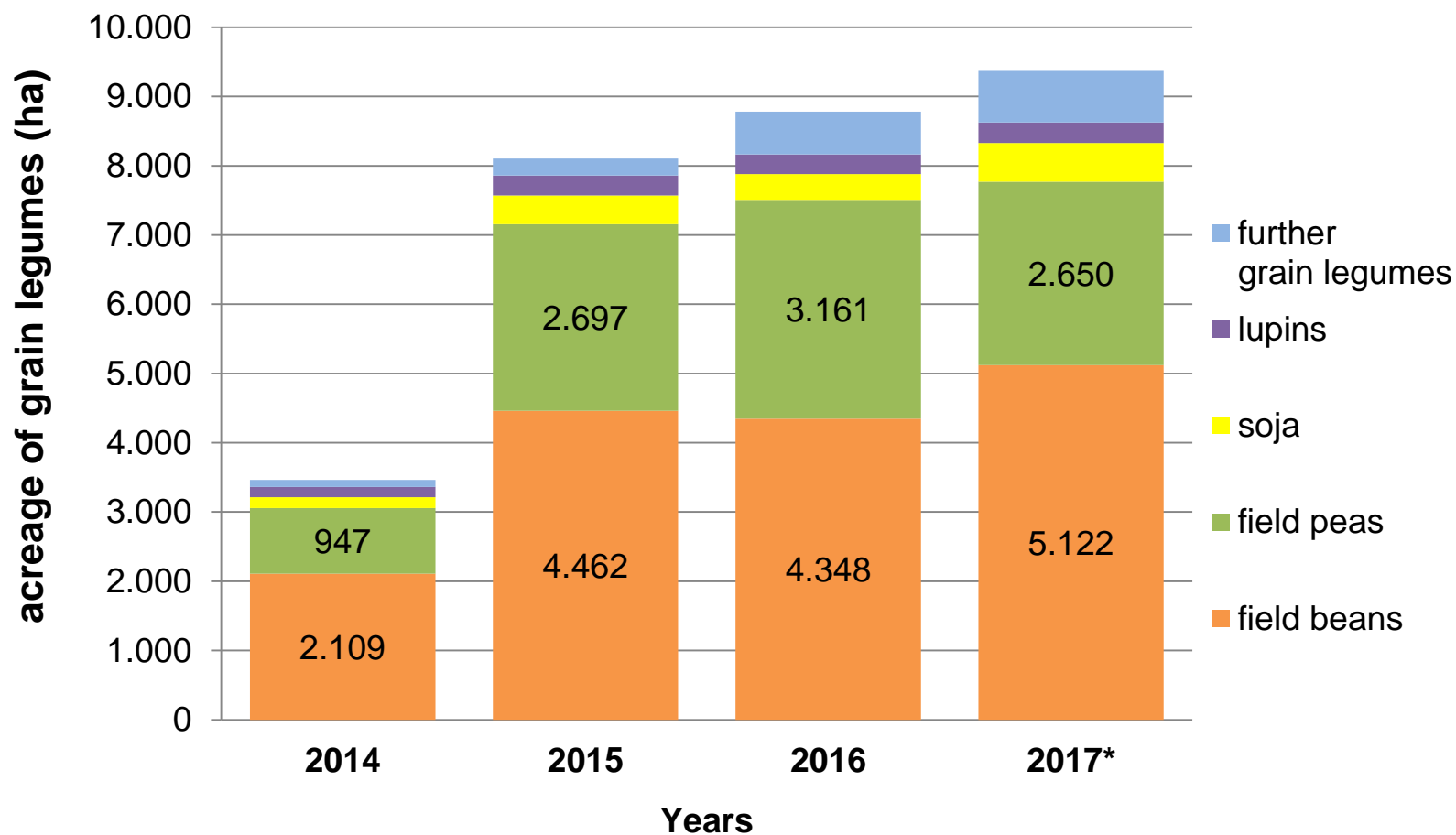
Acreage of Grain Legumes in Germany

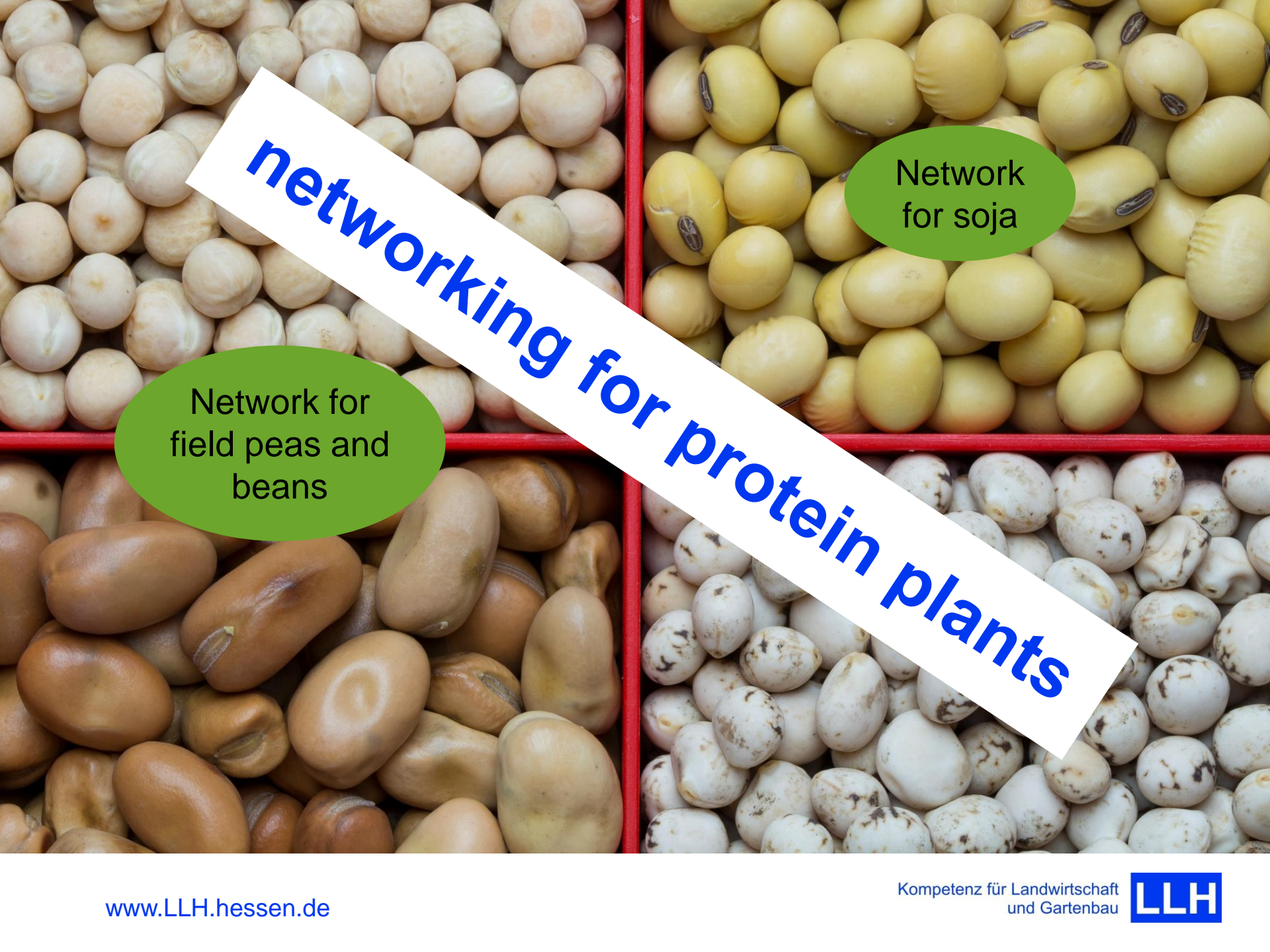
2017 - overall area: 180.200 ha



source: destatis, germany

Acreage of Grain Legumes in Hesse





networking for protein plants

Network for
field peas and
beans

Network
for soja

DemoNet Erbse Bohne



„Demonstration and knowledge transfer network for expanding and improving cultivation and utilisation of field peas and beans in Germany“



Gefördert durch:



Bundesministerium für Ernährung und Landwirtschaft

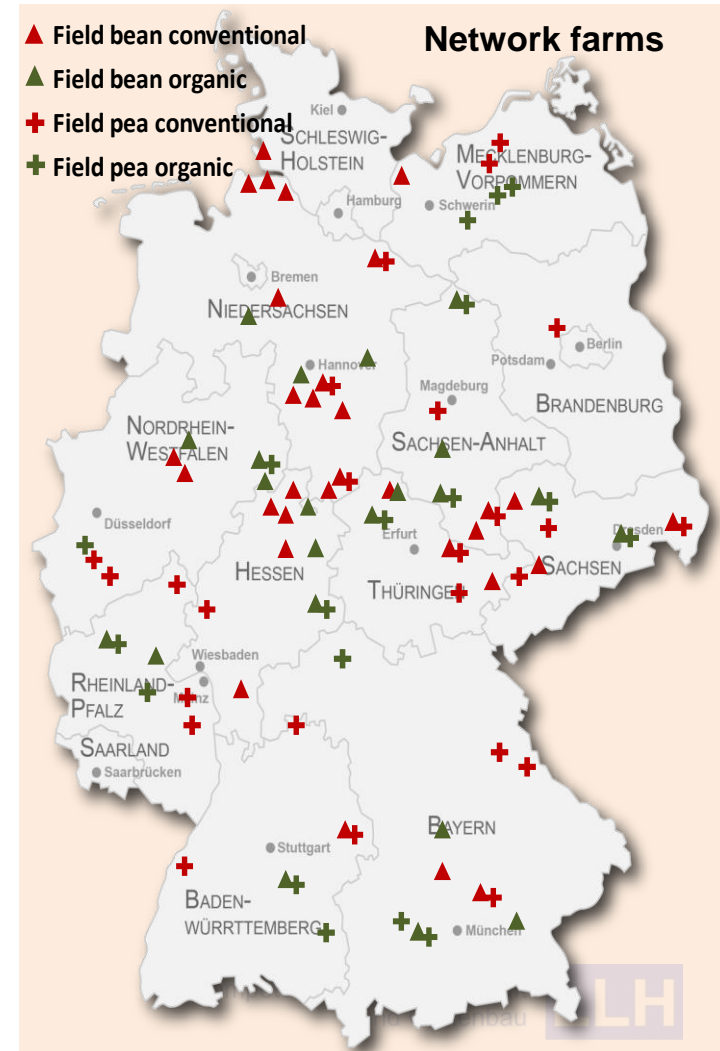
aufgrund eines Beschlusses des Deutschen Bundestages

This project is supported by funds of the Federal Ministry of Food and Agriculture (BMEL) based on a decision of the Parliament of the Federal Republic of Germany via the Federal Office for Agriculture and Food (BLE) under the Federal Protein Crop Strategy



Farm Demonstration Network

- 75 farms throughout Germany
- Experts of growing and using peas and beans
- Testing and presenting new techniques
- Economic and agricultural data collection
- Field days, farm visits



How we manage the knowledge transfer

individual
consulting

working groups

field days,
field trips

individual intensive
consulting

exact trials

lectures

fax, internet,
mail, press

events, training,
seminars

projects

excursions



Knowledge transfer about peas and beans

www.demoneterbo.agrarpraxisforschung.de



- **New media**
 - blogs
 - explainer video
- **Public relations**
 - articles in series
 - portraits of farms
- **Workshops**
 - sourcing workshop



Protein activities at the LLH

Legume Day 2015



Legume Day 2016



Fotos: LLH

Legume Day 2018



Fotos: LLH

Thank You For Your Attention

