



# Focus Group 'Production of protein crops under climate change'

Berlin, Germany  
20-21 November 2024





# LegumES and LegumeNet

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# Integrating grain legumes into (food) value chains and assess agro-economic impacts

Main takeaways from LeguNet and LegumeES

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# What topics and challenges are addressed in the project(s)?

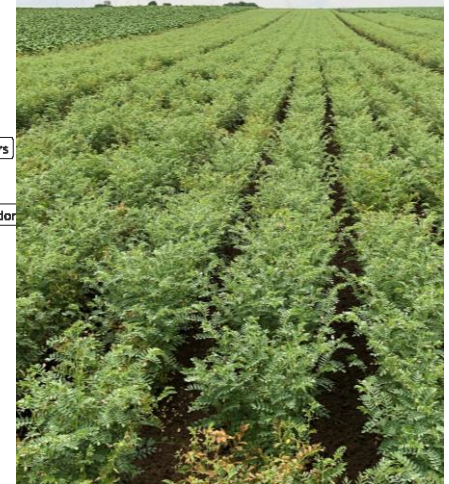
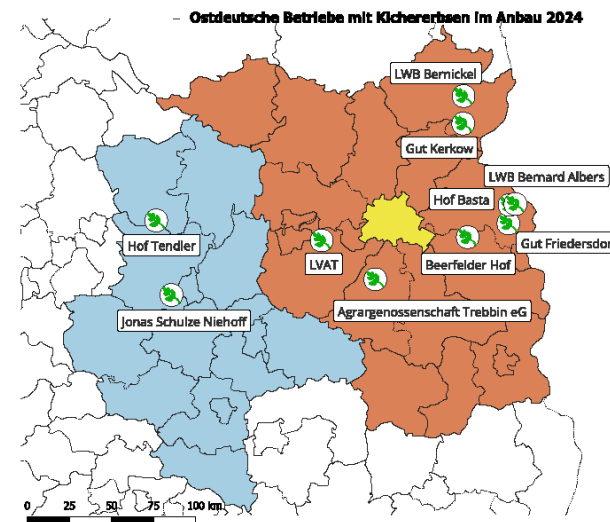
- **Lack of value chains for grain legumes in food and feed**
  - Lack of pre-processing structures, bundling, „Lock-in-effect“, Price hurdle, gastronomic knowledge
- **Early summer drought and other weather extremes**
  - Challenges with established crops; Lack of on-farm knowledge for “new” crops (e.g. chickpea)
- **Economic competitiveness**
  - Assessment of crop rotations across Europe in pilot studies





# How are the impacts of climate change on protein crop production directly or indirectly addressed in the project(s)?

- **Sustainable transition towards a higher share of (regional) plant protein in the diet**
  - Aligning agriculture and food sector, collaboration
- **Support farmers to grow climate adapted grain legume crops for food and feed**
  - Knowledge exchange and on-farm trials in pilot studies (“chickpea network”)
  - On-station trials on drought effects and management practices



# Which protein crops do the project(s) focus on and why were these crops selected?

Aligning ZALF research, market and farmers' interests:

- **Soy bean** (heat tolerance, no pests/diseases, high market value and interest)
- **Pea** (most grown, existing processing industry, winter pea a novel adaption to CC)
- **Lupins** (important in the area, challenges in marketing, high protein, alkaloids)
- **Chickpea** (farmer's interest, market only for imports, heat/drought tolerant, many challenges and synergies with sister project)
- **Common beans** (known food legume from imports, no agronomic experience)
- **Grass pea** (most heat and drought tolerance, and tolerating moisture, no markets yet)





Thank you for your attention.





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All information on the Focus Group is available on the webpage:

<https://eu-cap-network.ec.europa.eu/focus-group-production-protein-crops-under-climate-change>

