



Coordinator(s) : Johannes Timaeus
Institute : University of Kassel
Location : Vicinity Witzhausen
Climate : Atlantic, annual rain fall = 770mm
Soil and practices: diverse
Organic famers mostly
Date of 1st implantation: winter 2018



1. The MAP context:

Problems of agriculture: yield stability in legumes, competitiveness of diversified systems with monocultures
Targets local agricultural systems do not reach: reducing inputs while maintaining outputs, producing proteins
characteristics of the socioeconomic context: good but most people want to live in cities and weak connection to agriculture
activities on your MAP / inks with other WP: Still open



2. Partners in co-designing

Main actors involved:

Mainly farmers
 Research colleagues to help with on-farm design
 So far we are missing a bit people from administration and companies

Farmers :

Contacted through direct networking (Who do you know). Mainly young organic farmers willing to experiment. 10 signed up for a workshop in April. They can suggest mixtures and will also make presentations to share their knowledge
 Their Expectations: get new ideas, network and learn how to implement mixtures
 Some mixtures are established: e.g. barley-pea for fodder or lentil-oat/false flax)

Other stakeholders :
 Food and fodder processors

We interact with farmers especially through already on-going field research, the planned workshop, mails and telephone. We mainly exchange knowledge about the state of mixtures and potential cooperation

3. The crops mixtures in the MAP

Research station: winter wheat - winter pea (established).
On-farm: Mixtures are chosen together between farmers and scientists (not yet done)
Questions on the crop mixtures: yield, stability, quality, varieties, disease. Are mixtures practical?
What makes them more practical?
Are they the same for all satellite farmers: there needs to be a system for systematic learning/research
What knowledge is available/mobilized for designing? Colleagues in Germany and Remix project
*What knowledge is missing: **scientifically valid on-farm research design for mixtures relevant for farmers***

Farmer cooperative



Possible Crop mixture : lentil+false flax, winter wheat+winter faba bean, winter wheat – winter pea

Details not yet fixed!

Lentil-false flax

Red : Modality adapted for mixing species
 Black: Modality same than in sole cropping.
 Blue : experimental treatments for comparison

Oct. Sowing sp1. 100%
 + sp 2 30% the same day

Mar, Fertil.
 Full dose, dose reduction

Sept. Soil prep.

Nov, Weeding :
 None, 1 mech. 1 chem.

July. Harvest in 2 times, 2 different height cuts



Lentil-False Flax mixture in Germany: cultivation, separation and final products

4. Next steps: Workshop on 14. April with farmers. Goal is to convince them to participate and negotiate possible mixtures and on-farm trial design

