

May 2017 – April 2021

€ 5m

Coordinator: INRA – France

23 partners from 13 countries



## Redesigning cropping systems based on species mixtures

### Exploring the benefits of species mixtures

ReMIX is a participative project with the objective of redesigning cropping systems based on species mixtures in order to provide benefits for farmers and the European farming community.

ReMIX is trying to produce new knowledge and practical solutions through the exploitation of the benefits of species mixtures. This will create a more diversified and resilient arable production system.

### 3 species mixtures

ReMIX is aiming to develop more environmentally virtuous systems, which are less dependent on external inputs and adapted to both conventional and organic farming.

ReMIX is working on three types of mixtures: cereal-grain vegetable bi-specific cash crops, cereal cash crops associated with non-harvested companion species, and relay intercrops with under-sowing of annual or perennial legume crops in cereals.

#### ITA's missions:



- ▶ Summarising knowledge on crop-weed interactions in the field
- ▶ Analysing the effects of species mixtures on foliar diseases, insect pests and yields
- ▶ Defining of key genetic traits in mixed species
- ▶ Screening the performance of lines/populations in species mixtures
- ▶ Data analysis/proof of concept
- ▶ Providing farmers with references and tools to implement intercropping in their cropping systems, notably in organic farming
- ▶ Developing a serious game aimed at co-designing cropping systems including intercropping and co-learning within farmer groups



RemixIntercrops



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#SpeciesMixture

#SystemsReconception