

Harvesting and separating crop mixtures: yes we can!

Laurent Bedoussac, Deschamps Elina, Albouy Lisa, Patrick Bourrachot, Alastair Morrison, Eric Justes

▶ To cite this version:

Laurent Bedoussac, Deschamps Elina, Albouy Lisa, Patrick Bourrachot, Alastair Morrison, et al.. Harvesting and separating crop mixtures: yes we can!. Intercropping to boost agroecology in European Agriculture, Mar 2021, Virtual conference, France. 10p. hal-03342750

HAL Id: hal-03342750 https://hal.inrae.fr/hal-03342750

Submitted on 13 Sep 2021

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Redesigning European cropping systems based on species mixtures

Harvesting and separating crop mixtures

yes we can!

Project start date: May 1st 2017

Laurent Bedoussac (INRAE France)

Elina Deschamps (ENSFEA, INRAE France)
Lisa Albouy (Université de Toulouse, INRAE France)
Patrick Bourrachot (Etablissements DENIS France)
Alastair Morrison (AGCO A/S Denmark)

Eric Justes (CIRAD France)

THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT N. 727217







A wide variety of species mixtures



Sown at the same time or not



Harvested at the same time or not



A sale crop with a service plant



Grains for food



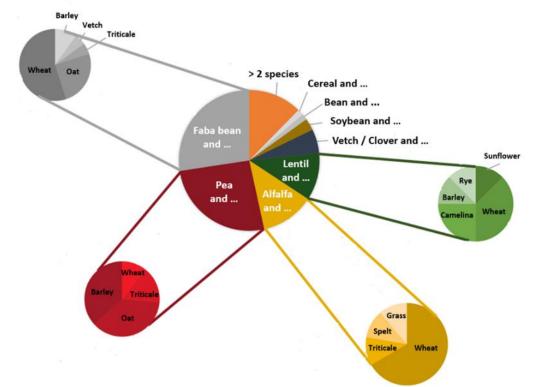
Grains for feed



Fodder



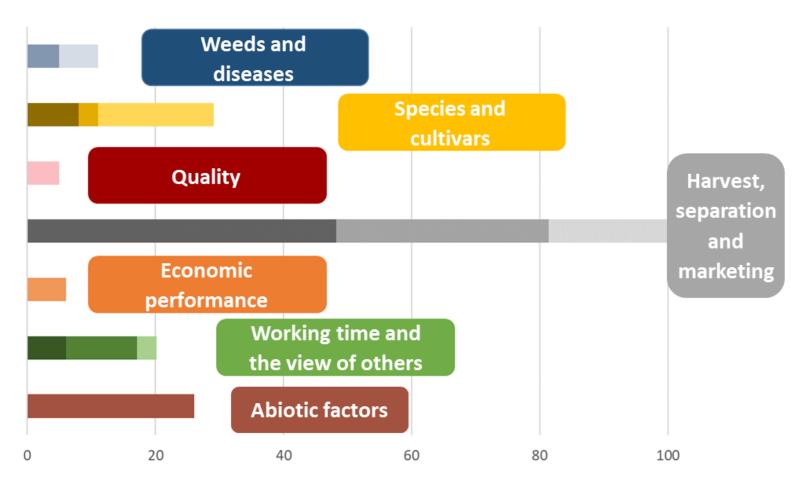
Ecosystem Services







Harvesting and sorting are the main obstacle for farmers (sowing to a lesser extent)







How to sow species mixtures? Marginal innovations but no real breakthrough

Mixing grains at sowing



Structuring the stand



Sowing in a developed crop



Sowing complex mixtures







How to harvest species mixtures?

All at once with low quality constraints



All at once with high quality constraints



In two stages



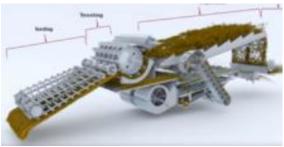




Adapting the existing but not new machines











How to separate species mixtures?

Low constraints and low added value





High constraints and high added value





No expected revolution in methods (we know how to separated everything...all is a question of cost)

High constraints and moderate added value









Test existing harvest and separation machinery to improve the value



Make the separation easier

"What is easy to separate is often hard to harvest"

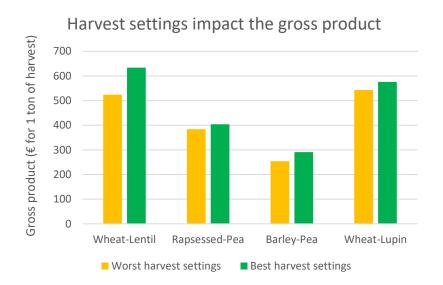
Need for a compromise

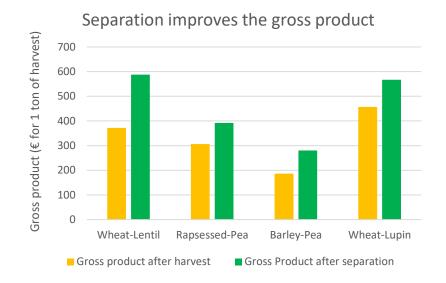






Optimizing harvest and separation improve the economic value













Policy recommendations

- No need for an immediate revolution
 - Training farmers for a better use of these machines
 - Support development and purchase of grain separators
 - small-scale size for use at the farm
 - large-scale for grain buyers
- Need for a multi-actor approach
 - Support farmer's collective
 - Support collectors to reorganising their logistic
 - Redesign agrifoodchain and requirements for "purity"







PARTNERS IN ReMIX















































