



Can we achieve climate targets avoiding trade-offs with biodiversity and resource efficiency?

Views from the Ten Years For Agroecology scenario / TYFA ATF special session: Towards a climate smart European Livestock Farming // Ghent, 26th August 2019 Sebastien Treyer, General Director, IDDRI

The Institute for Sustainable Development and International Relations (IDDRI)



- Independent policy research institute
- A non-profit organisation acting for the common good, funded by donations / grants / subsidies
- Fostering the transition to sustainable development and prosperity for all
- Identify drivers of sustainability and ways to implement them: international cooperation, domestic & corporates policies





TYFA's ID

- Ten Years For Agroecology :
 - A foresight study
 - Designing an agenda for a 10 years transition making agroecology a credible option for Europe
 - A joint IDDRI and AScA initiative, with a diversity of funders
- First step: a biotechnical modelling
 - What is agroecology? What are the explicit assumptions?
 - Modelling at the EU scale
 - An unprecedented scientific project
- Work in progress: socio-economic and policy aspects



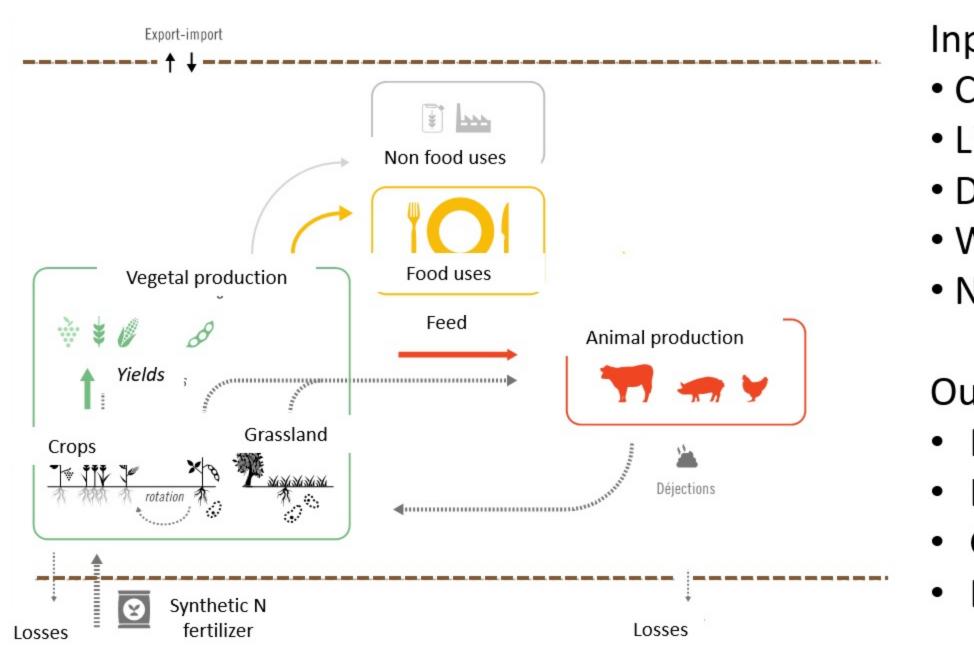


TYFA : why?

- Contribute to a (policy) debate structured by two narratives
 - A *productivity oriented, smart agriculture* narrative, with implicit maintenance of industrial livestock production
 - A climate smart agriculture narrative land sparing with less livestock, industrial vegetal
 production and afforestation
- Different shortcomings in such scenarios
 - Environment : blindspots on pesticides, biodiversity, landscapes, CC adaptation
 - Socio-economy: capital intensive scenarios
 - Food: what is the quality of what we eat?
- Proposing an alternative scenario
 - Going beyond a collection of niche "success stories"



TYFA's model - TYFAm





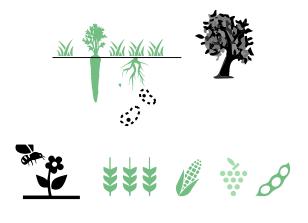
- Input variables: Cropping systems Livestock systems • Diets Waste and losses Non food-uses
- Output variables: Production Land use **GHG** emissions Biodiversity



An agroecological Europe: main hypotheses

B

- **1** Fertility management at the territorial level
- **2** Pesticide-free farming and extensification of crop production Organic farming as a reference model
- **3** Redeployment of permanent grassland
- **4** Livestock extensification (phase-out of industrial modes)
- **5** Healthy and sustainable diets
- **6** Food first, then feed, then biodiversity, then non-food use

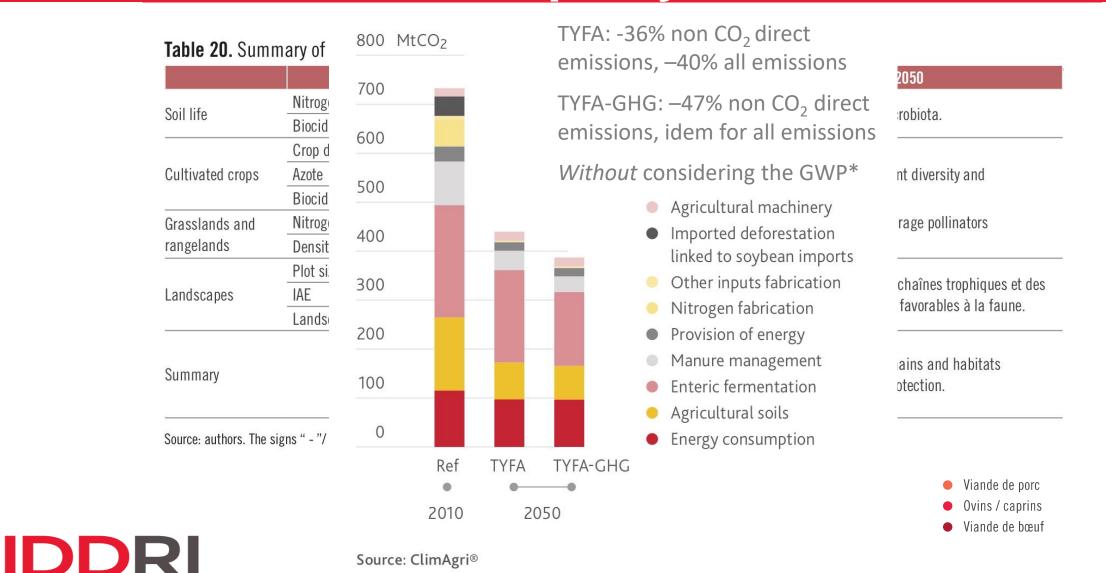




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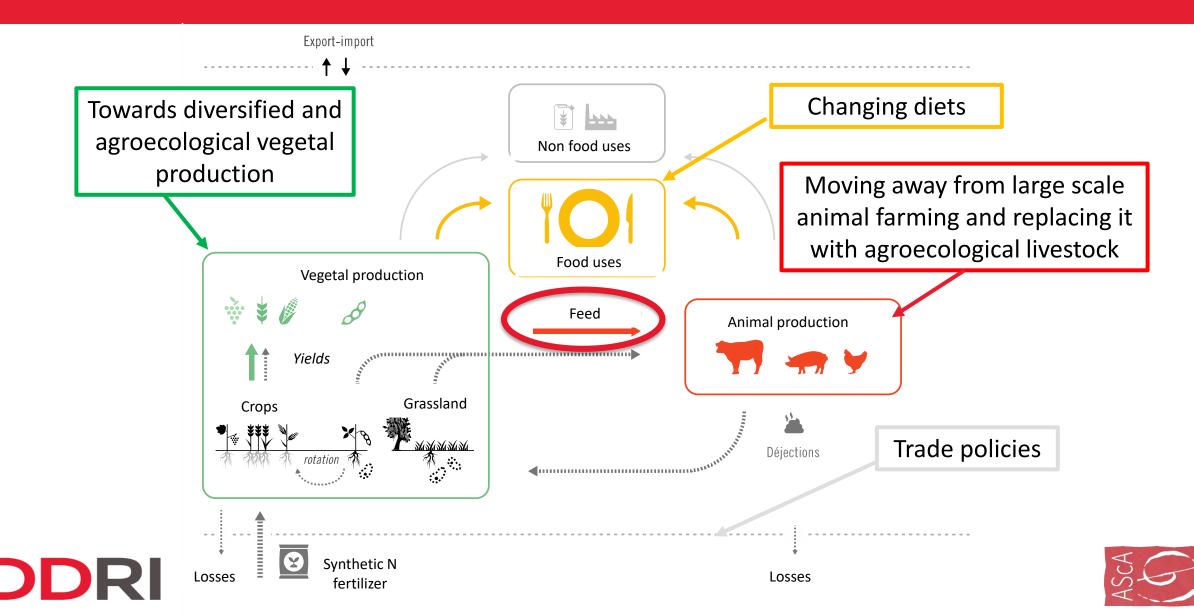


Main features of an agroecological Europe by 2050





How to get there?



THANK YOU FOR YOUR ATTENTION!

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