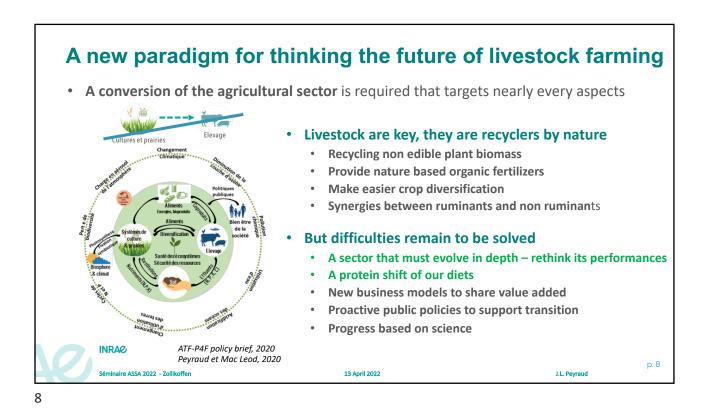
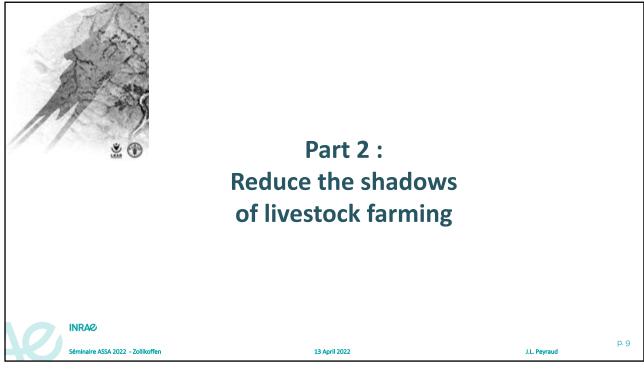
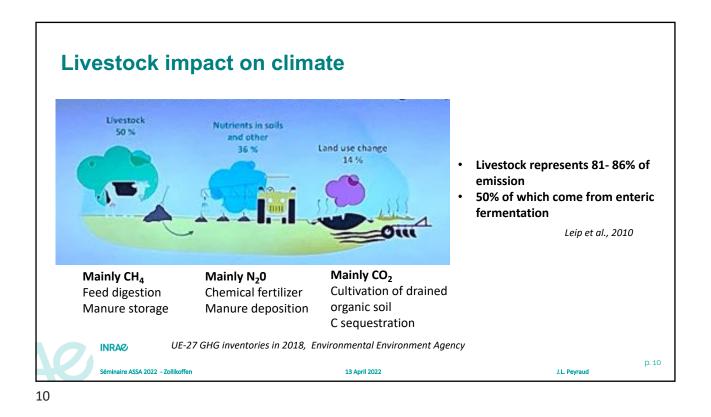
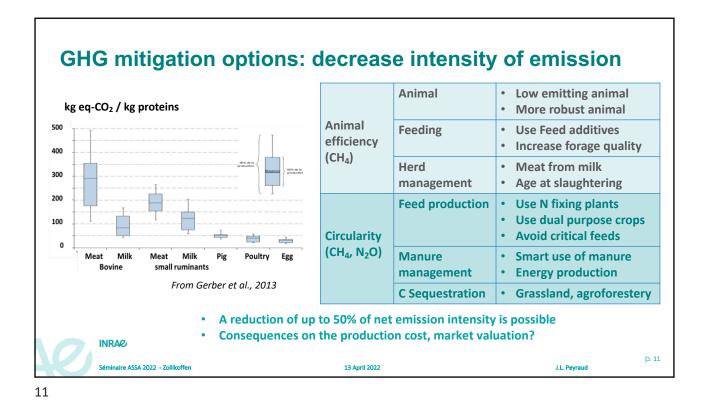


3









p. 12

J.L. Pevraud

Meat from milk: same amount of milk and meat with fewer animals More robust cow will reduce the need for replacement heifers **Cross breeding or sex-semen** Use early breeds to fatten on grass with no (very little) concentrate Young bull from dairy herd : Calf to beef system Reducing the number of beef cow will 12 - 14 kg eq-CO₂/kg CE 5 - 7 kg kg eq-O₂/kg CE free some land for fattenning (Dollé et al, 2015) Holstein, Normand, Jersey X Angus bull - Abattage 24 mois Light carcass : 260 to 350 kg ou Less than 200 kg cereal/animal Abattage 28 mois (≈ 1 kg/kg meat)

13 April 2022

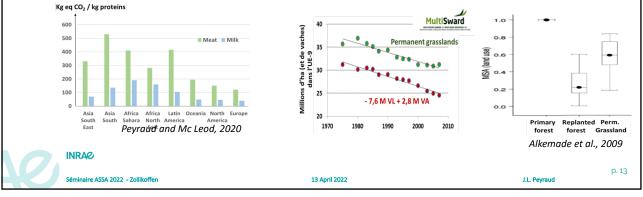
12

One dimensional reduction of livestock in Europe may lead to unintended outcomes

• Reduction of GHG emission in EU might be offset by increased impacts in other regions,

Séminaire ASSA 2022 - Zollikoffer

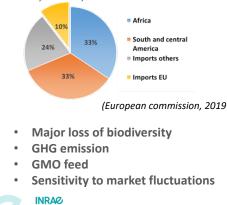
- Conversion of grassland to cropland: loss of soil C, wild live habitat, ecosystem services,
- Abandonment of grassland: loss of biodiversity, fermentation of plants, risk of fires.



Reduce dependence on imported soy



 EU = 10% of the global embodied deforestation : soya (6%), meat, palm oil, cocoa, rubber, timber

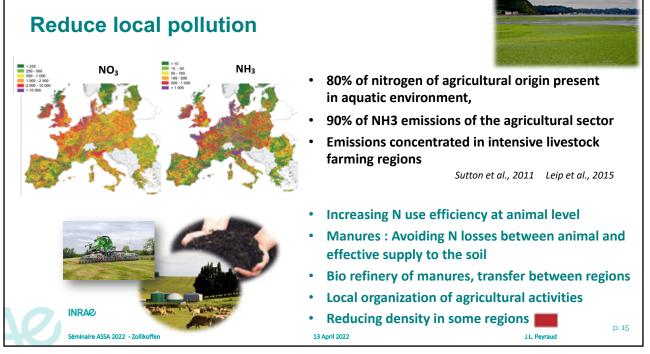


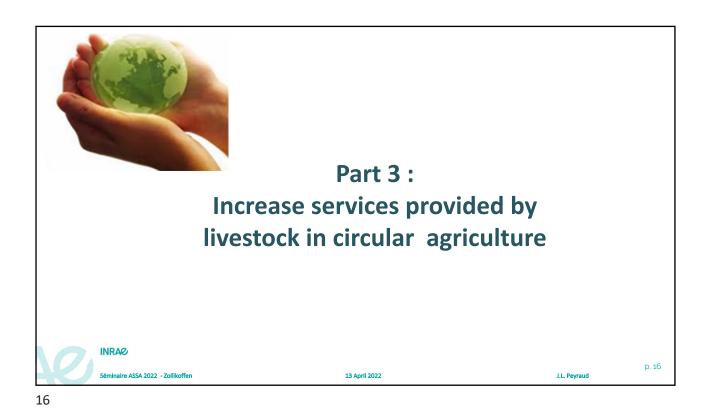
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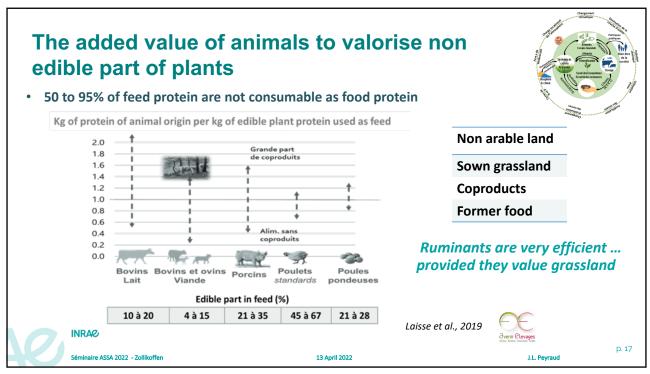
Alternative protein sources

| | Protein rich plat | Alternative resources | |
|---|---|---------------------------|------|
| F | Grassland Protein crops (peas, lupin, faba bean), | Animal meals, Insects, | |
| R | apeseed, sunflower cakes | | |
| | Low nutritional value | High nutritional value | |
| | Cost | Cost, availability, | |
| | Availability | Social acceptability | |
| | | | |
| | 13 April 2022 | J.L. Pevraud | p. 1 |

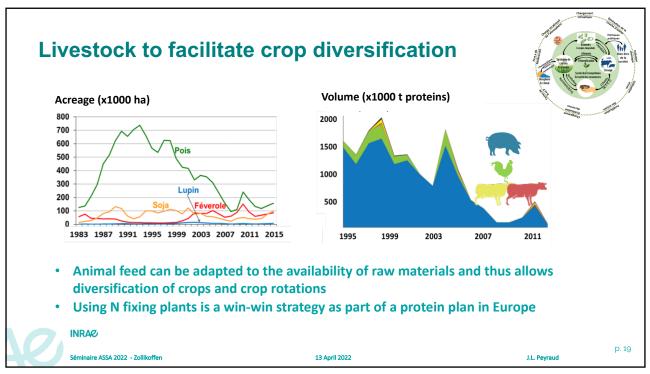


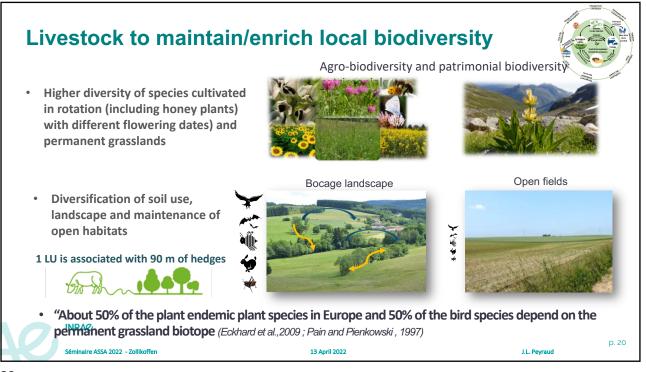




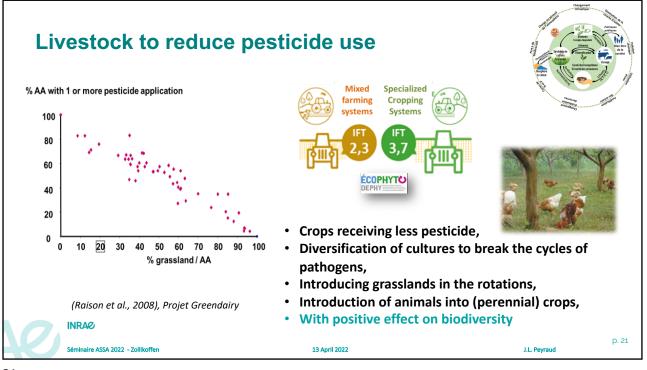


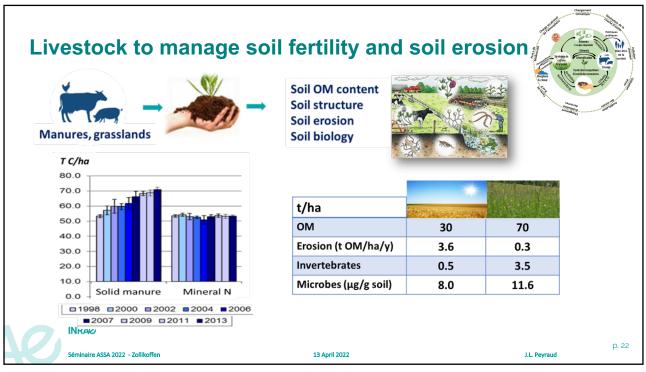




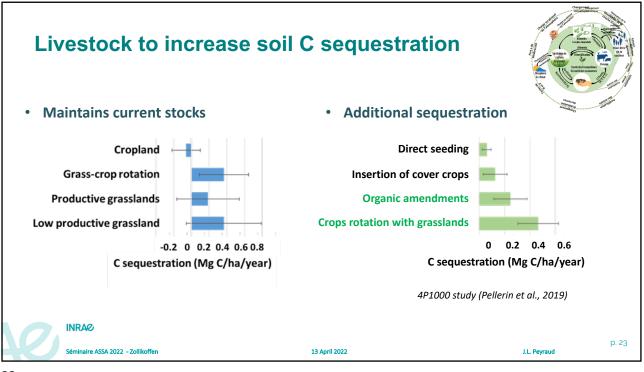


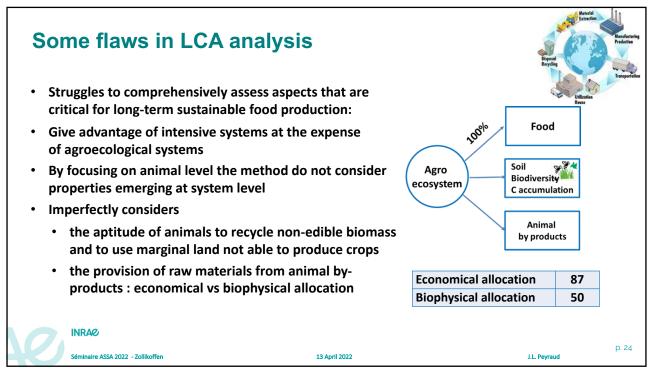


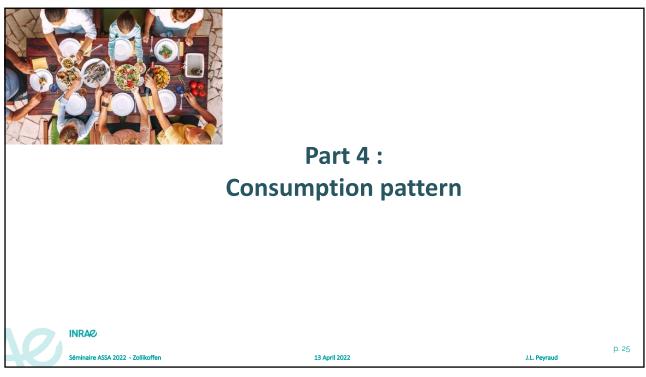


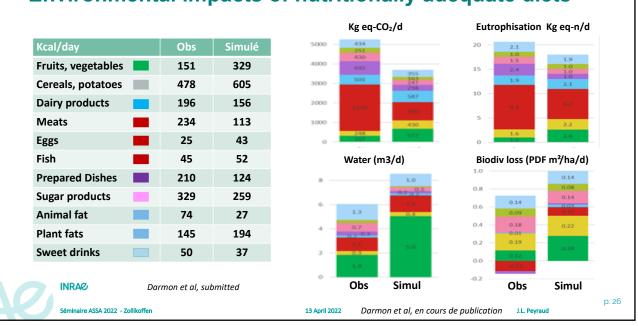












Environmental impacts of nutritionally adequate diets

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