



25-26 June 2019 in Lisieux,
Normandy - France

Thematic Session 2: What kind of production systems are needed for the sustainable management of natural resources?"?

Workshop 2.3: Wild, cultivated and domesticated biodiversity

André Vizinho + Kurt Sannen (farmer)

<https://www.reseaurural.fr/Sommet-agri-innovation-2019>

<https://ec.europa.eu/eip/agriculture/en/event/agri-innovation-summit-2019>



Cette action est cofinancée par le Fonds européen agricole pour le développement rural : l'Europe investit dans les zones rurales.



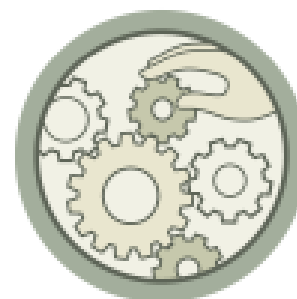
The 10 Elements of Agroecology



Diversity



Co-creation and sharing of
knowledge



Synergies



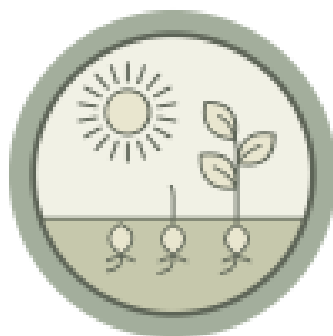
Resilience



Human and social values



Culture and food traditions



Efficiency



Recycling

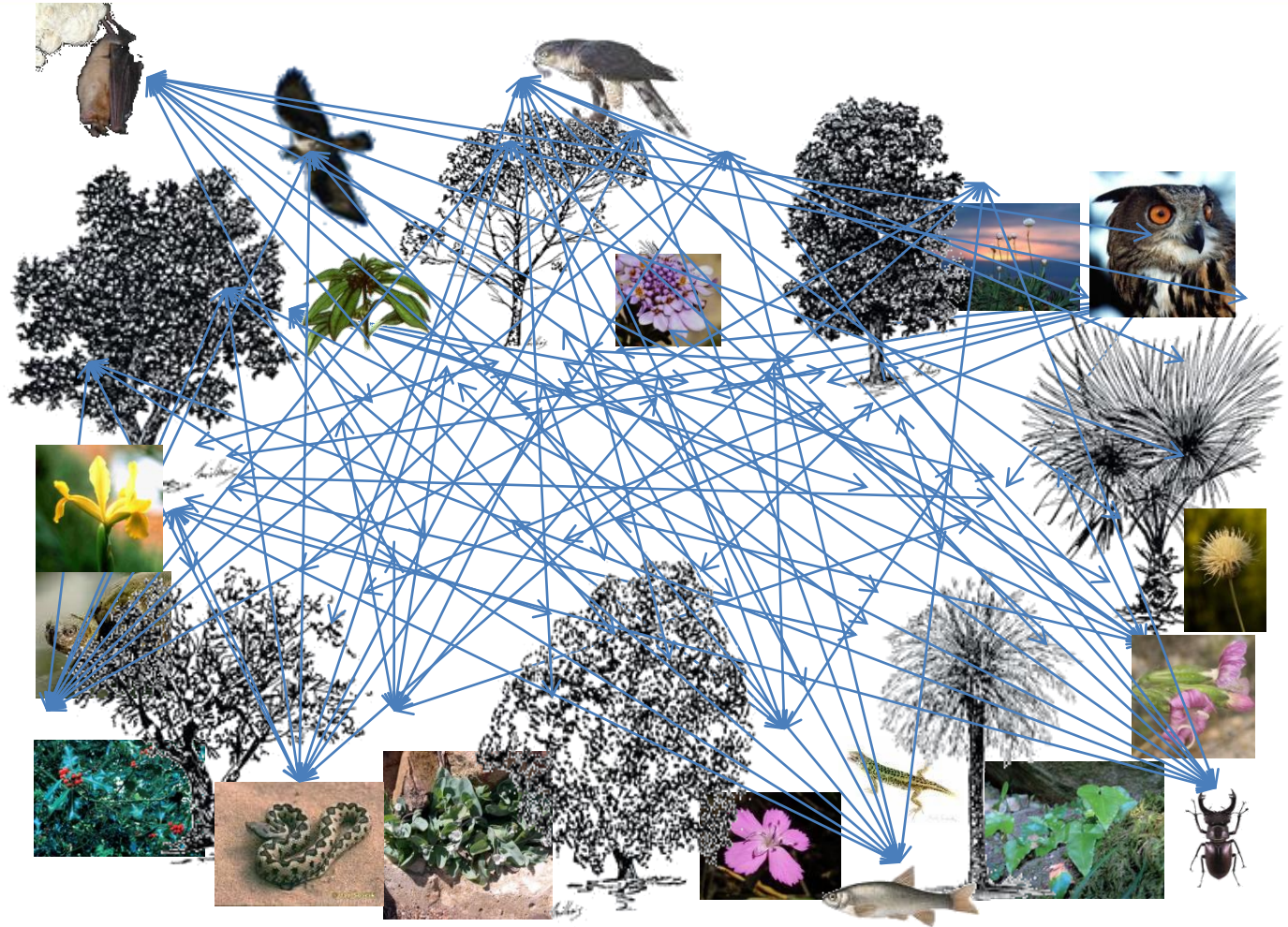


Responsible governance

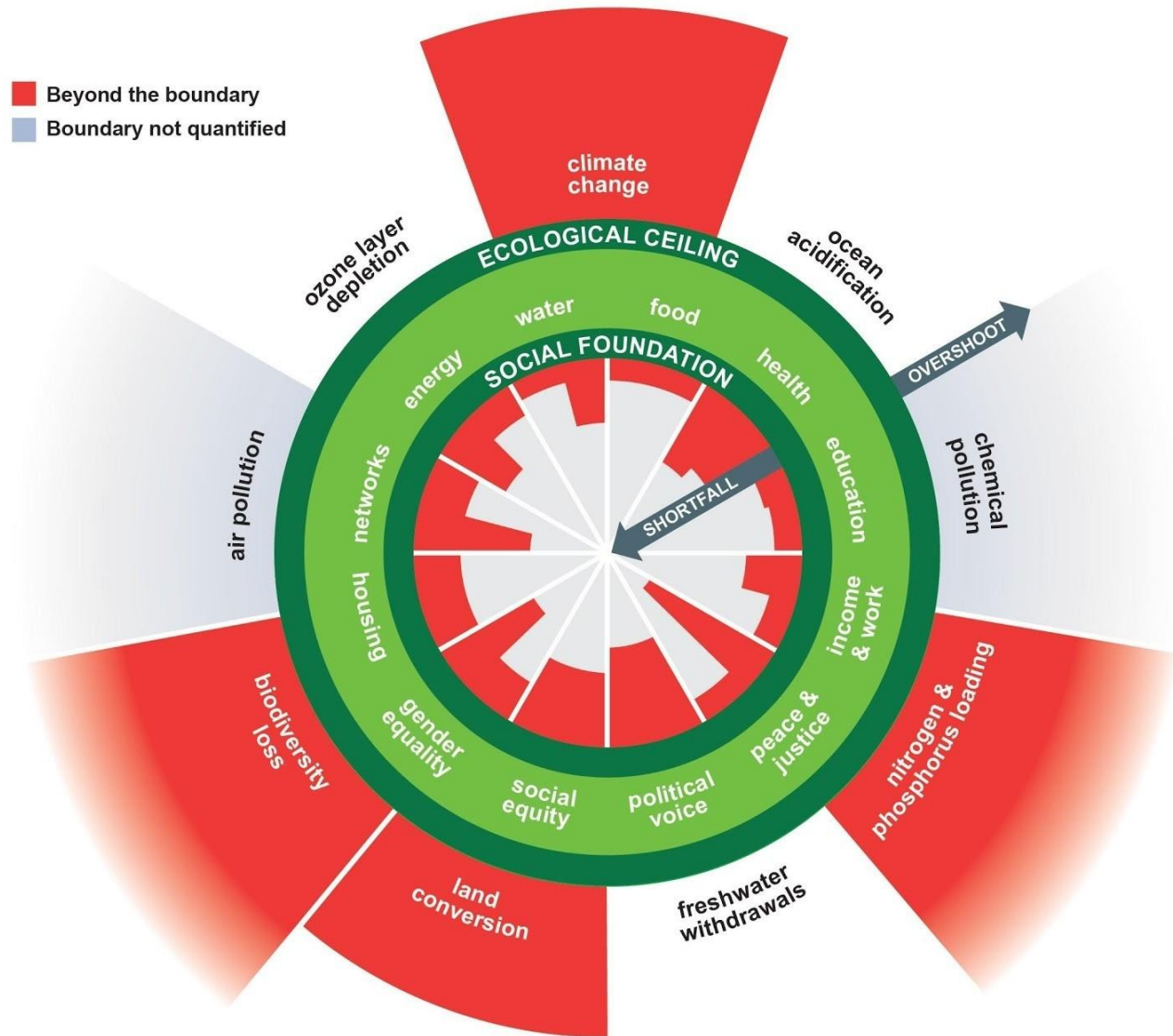


Circular and solidarity
economy

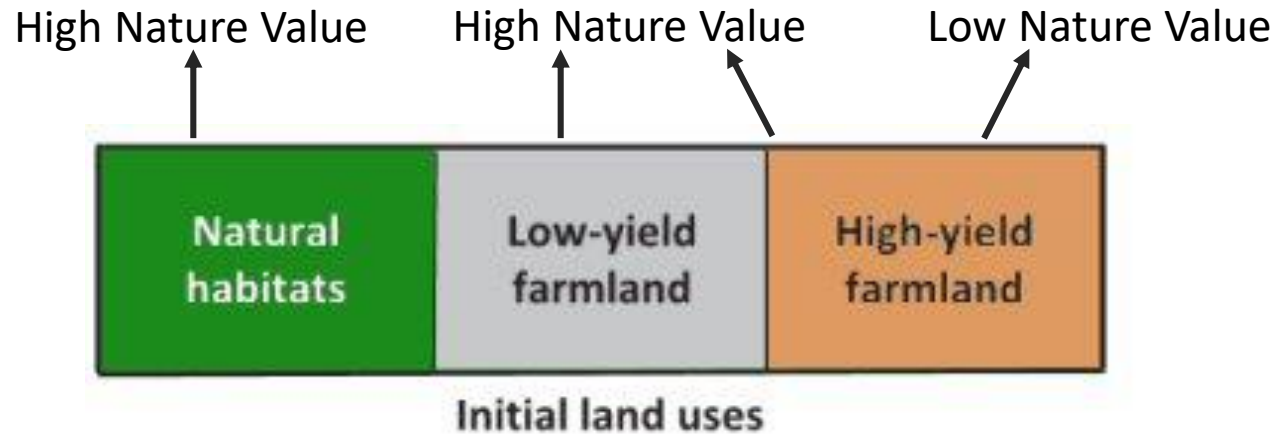




“Biodiversity is the **variety of life** on Earth, it includes all **organisms, species, and populations**; the **genetic variation** among these; and their complex assemblages of communities and **ecosystems**.” (UNEP)



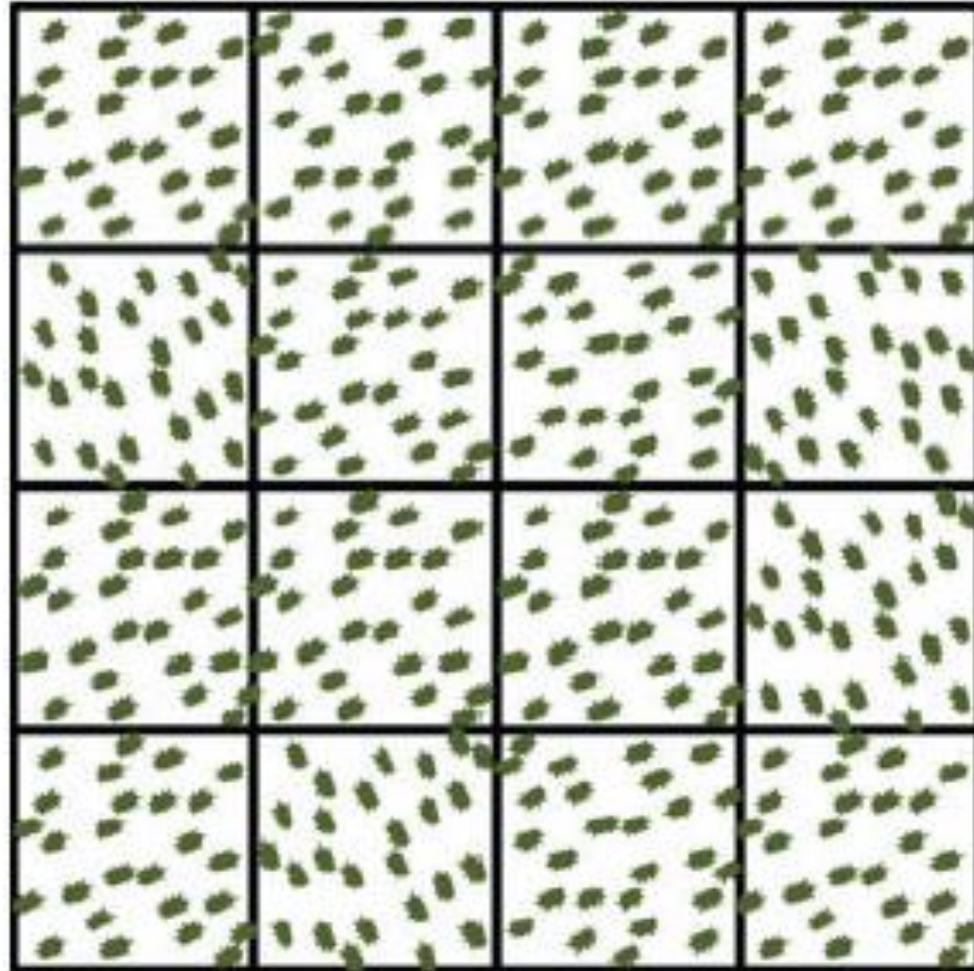
Land Sparing vs Land Sharing ?



Biodiversity and agriculture

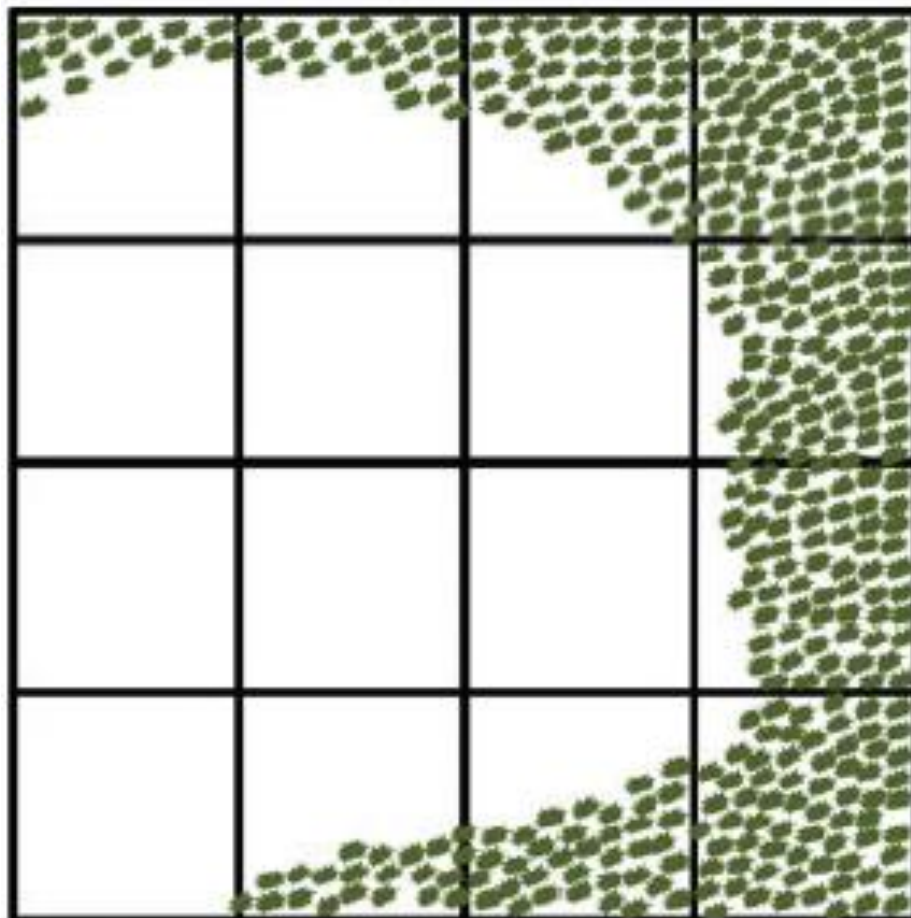
- Genetic diversity
- Species diversity
- Functional agrobiodiversity
 - Soil life
 - Pest control
 - ...
- Wild biodiversity (e.g. EU Birds- and Habitats directive, Nature 2000)
- High Nature Value Ecosystems and ecosystem services



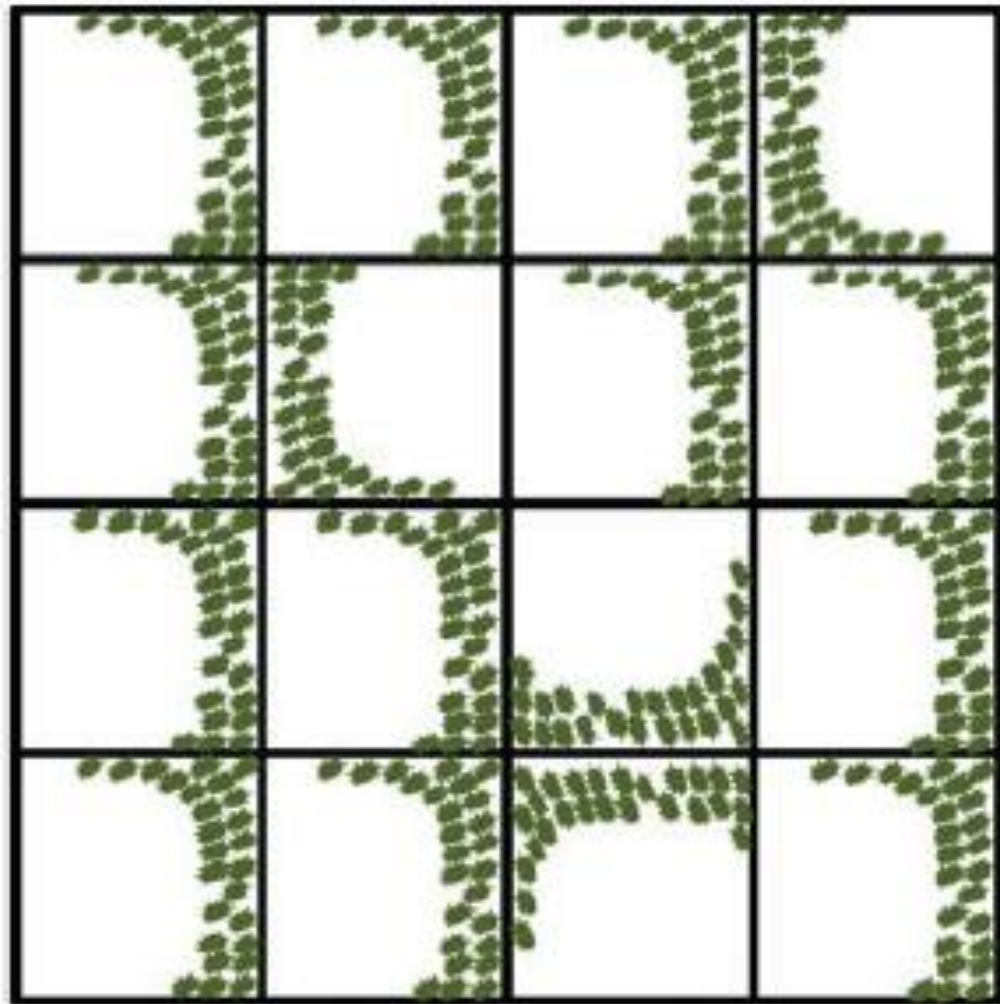


land sharing



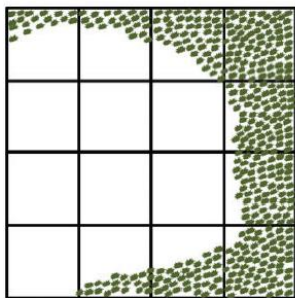


land sparing across multiple farms

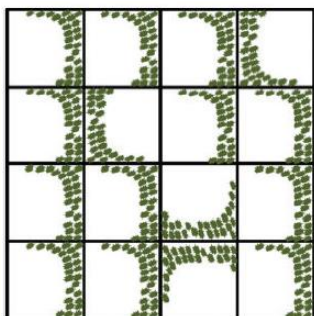


land sparing within each farm

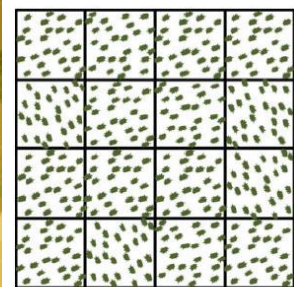
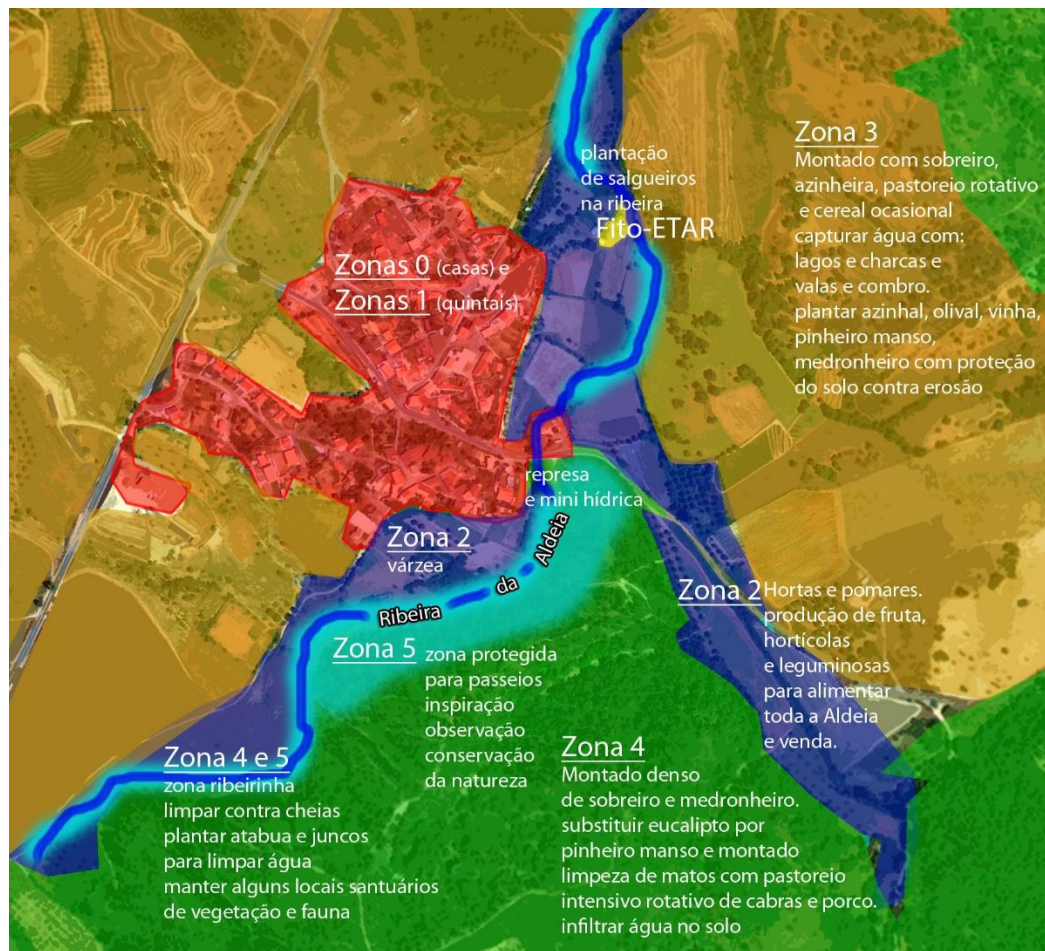




land sparing across multiple farms

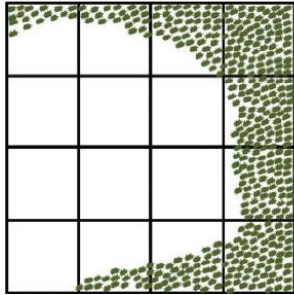


land sparing within each farm

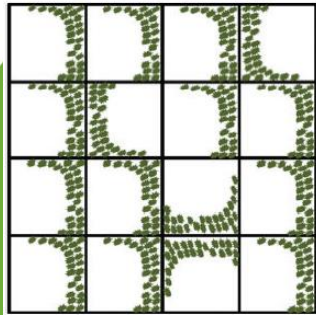


land sharing

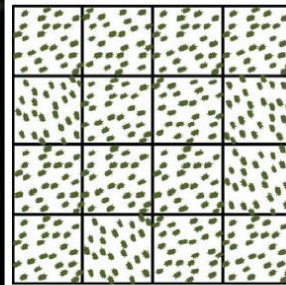
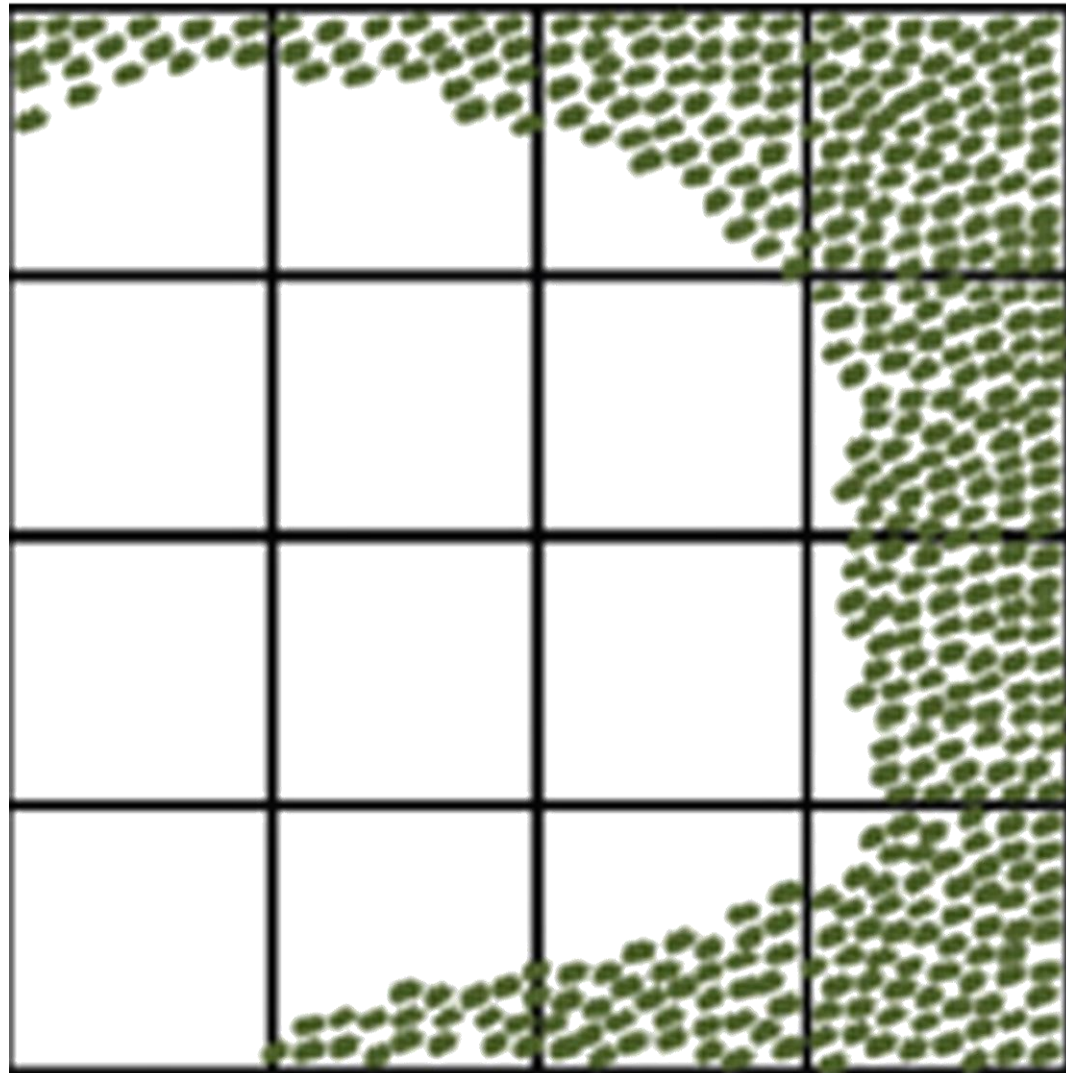




land sparing across multiple farms



land sparing within each farm



land sharing



- Wild and Cultivated biodiversity
Complement each other
- Agro ecology can:
 - Create a more biodiversity-friendly agricultural matrix
 - Develop complex multilayered habitats
 - Improve connectivity
 - “both-and” solution to the biodiversity-food-trade-off



Farmers need business models
for biodiversity and
the provision of
ecosystem services

