

25-26 June 2019 in Lisieux, Normandy - France



Thematic Session 1: How to reduce the use of inputs as a way to increase the self-sufficiency of farms?

Workshop 1.1: Feed self-sufficiency and animal health

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https://www.reseaurural.fr/Sommet-agri-innovation-2019 https://ec.europa.eu/eip/agriculture/en/event/agri-innovation-summit-2019









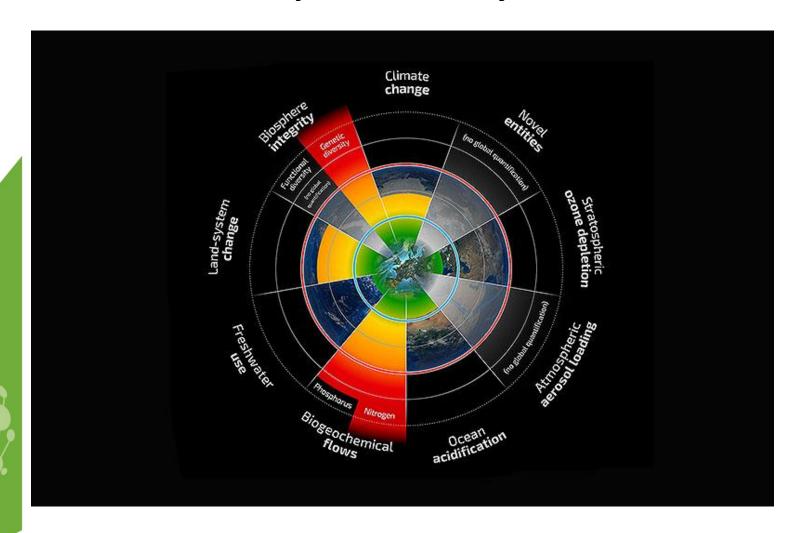


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## Livestock and planetary boundaries



Source: The Stockholm Resilience Centre, 2015. Planetary Boundaries



## Relation with agroecology











Culture and food traditions

- Less but better meat
- Add less reactive nitrogen and phosphorous to the agroecosystem
- Rigorous closing of nutrient cycles





### What are the most promising innovations?

- Cultivating duckweed on animal manure
- Protein extraction from grass-clover
- Again using by-products and food waste
  - Whey
  - Beer yeast
  - Bakery waste
- Feeding grass to cattle
- Robust animal breeds fit for outdoor rearing
- Better design of housing and outdoor areas





#### What will it take to implement the innovations?

- Change in consumer attitude new marketing
- Better regulation (animal welfare, food safety, nutrients)
- Attractive conversion pathways for intensive livestock producers
- Address competition between animal production and bioeconomy





# Have a good discussion!

