

# Land wirt schafts report

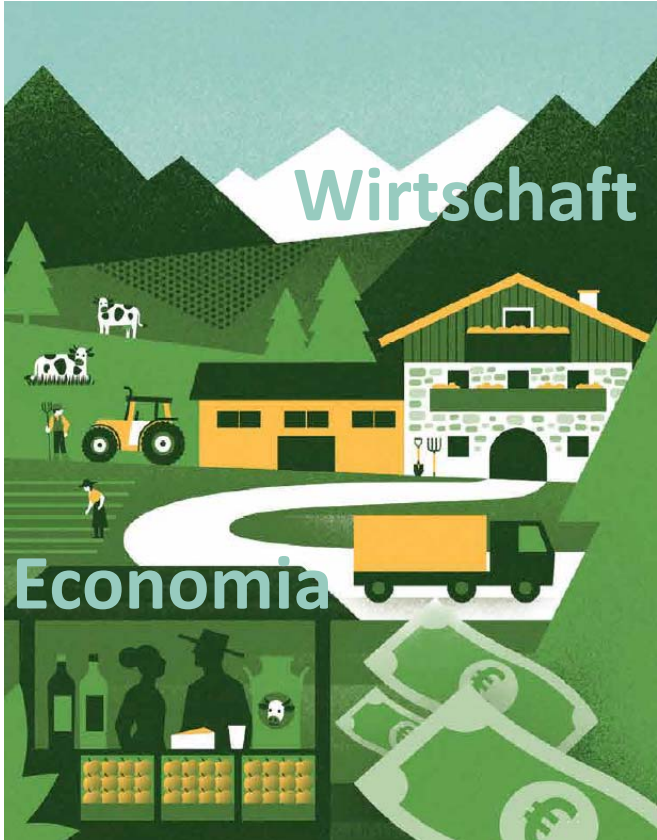
Südtirol 2020

# Rapporto agri col tura

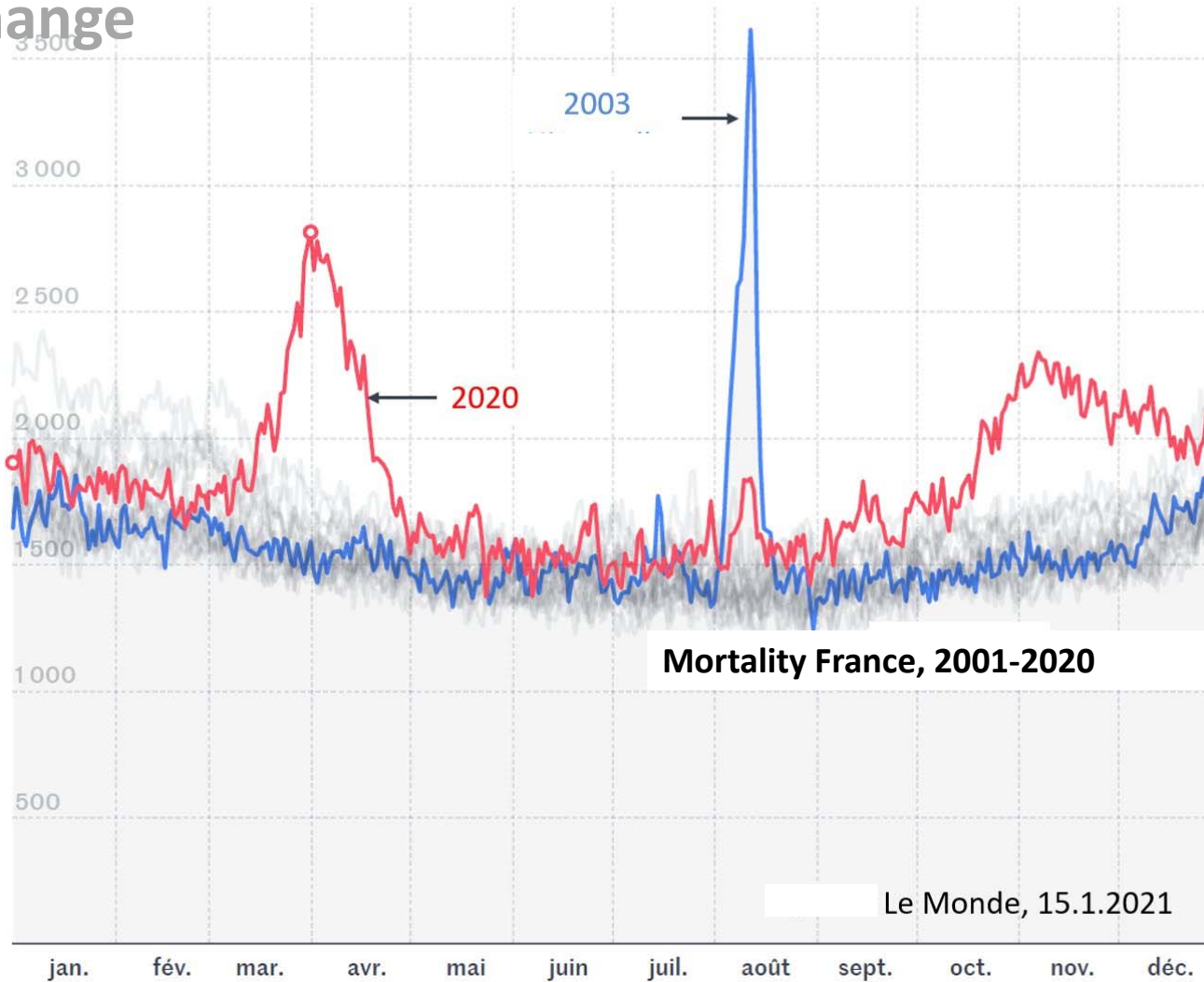
Alto Adige 2020

## Landwirtschaftsreport Südtirol/Alto Adige 2020

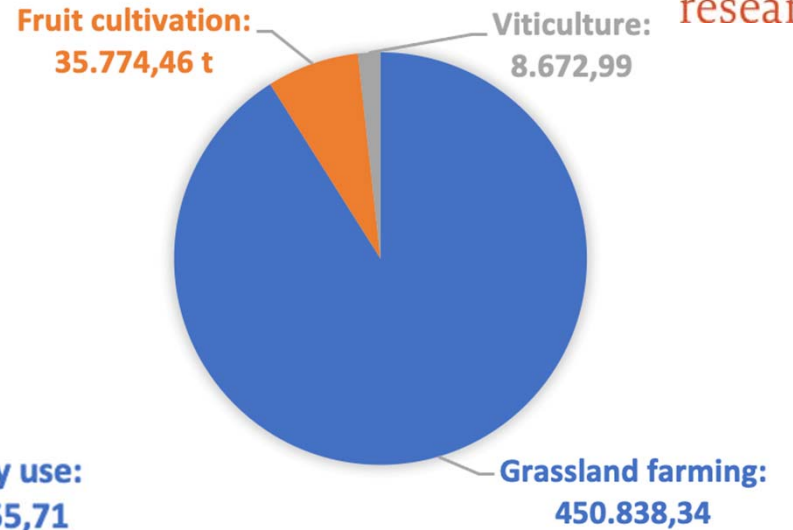
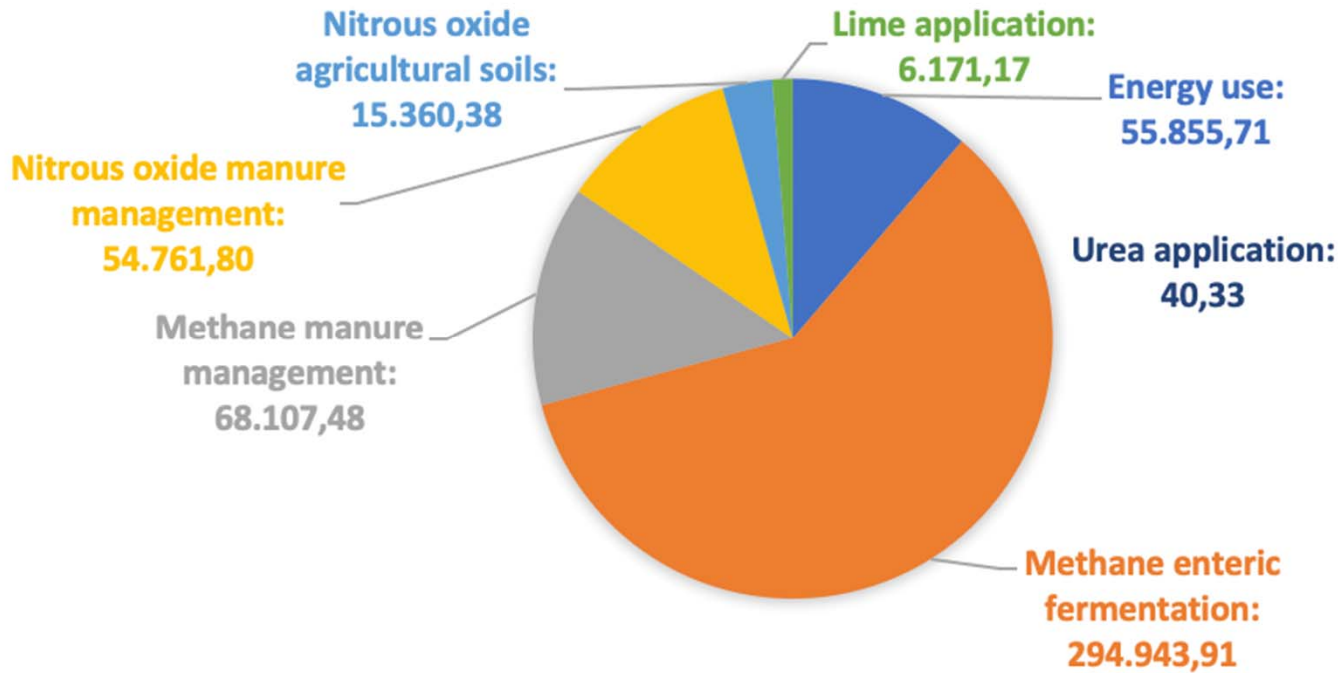
Georg Niedrist, Ulrike Tappeiner, Thomas Marsoner  
Institute for Alpine Environment, Eurac research



# 1. Climate Change

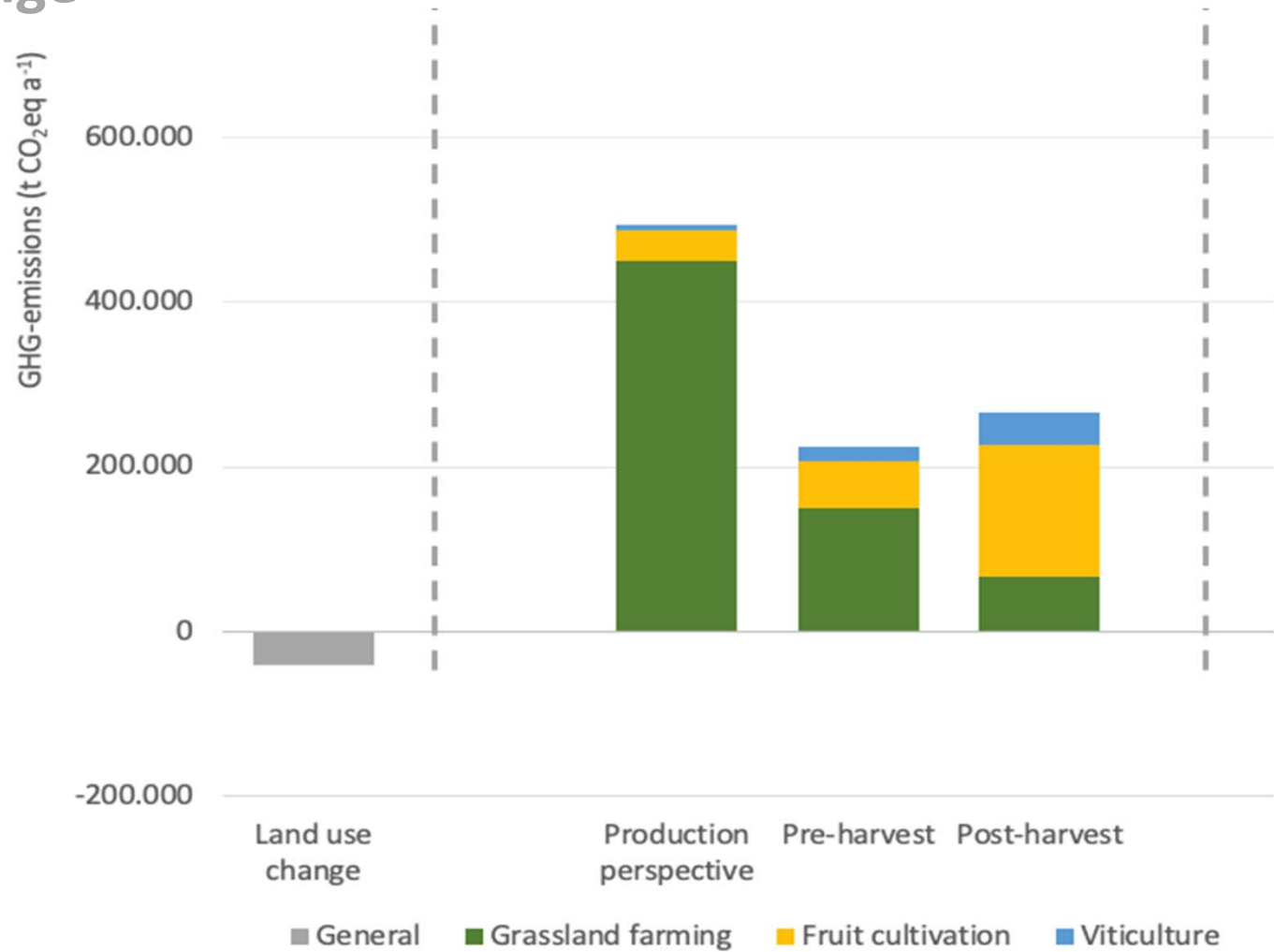


# 1. Climate Change



Production perspective  
(t CO<sub>2</sub>eq a<sup>-1</sup>)

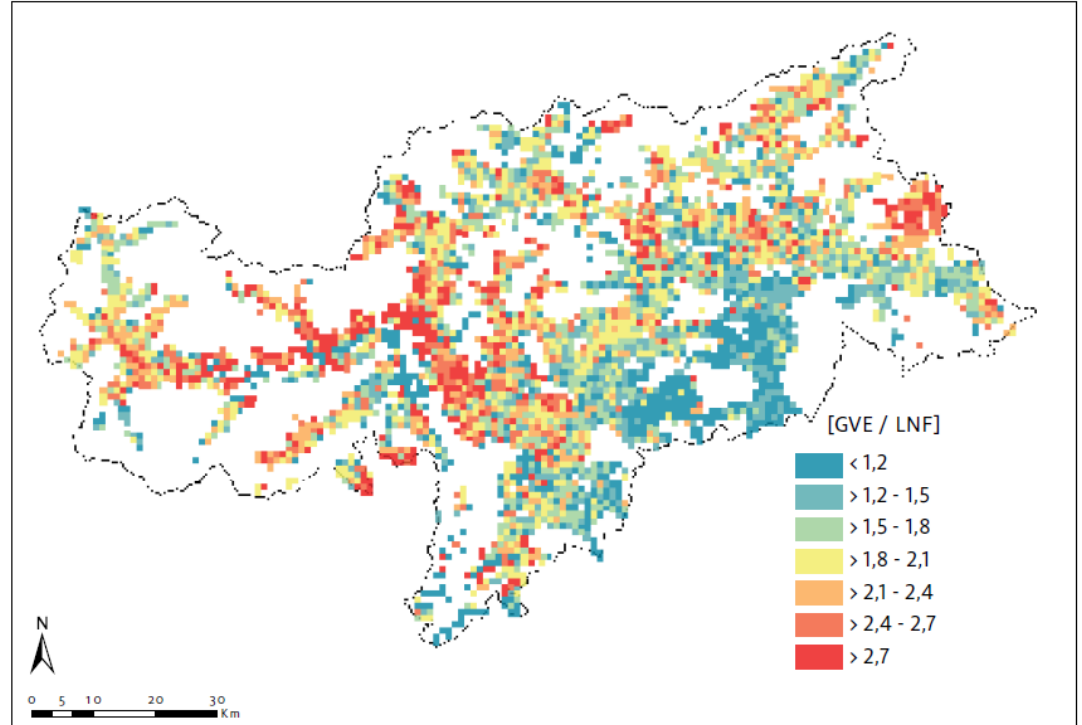
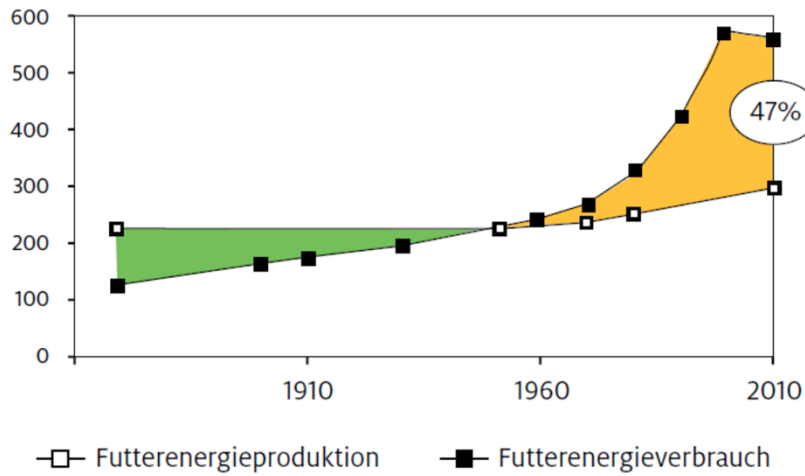
# 1. Climate Change



## 2. Nitrogen



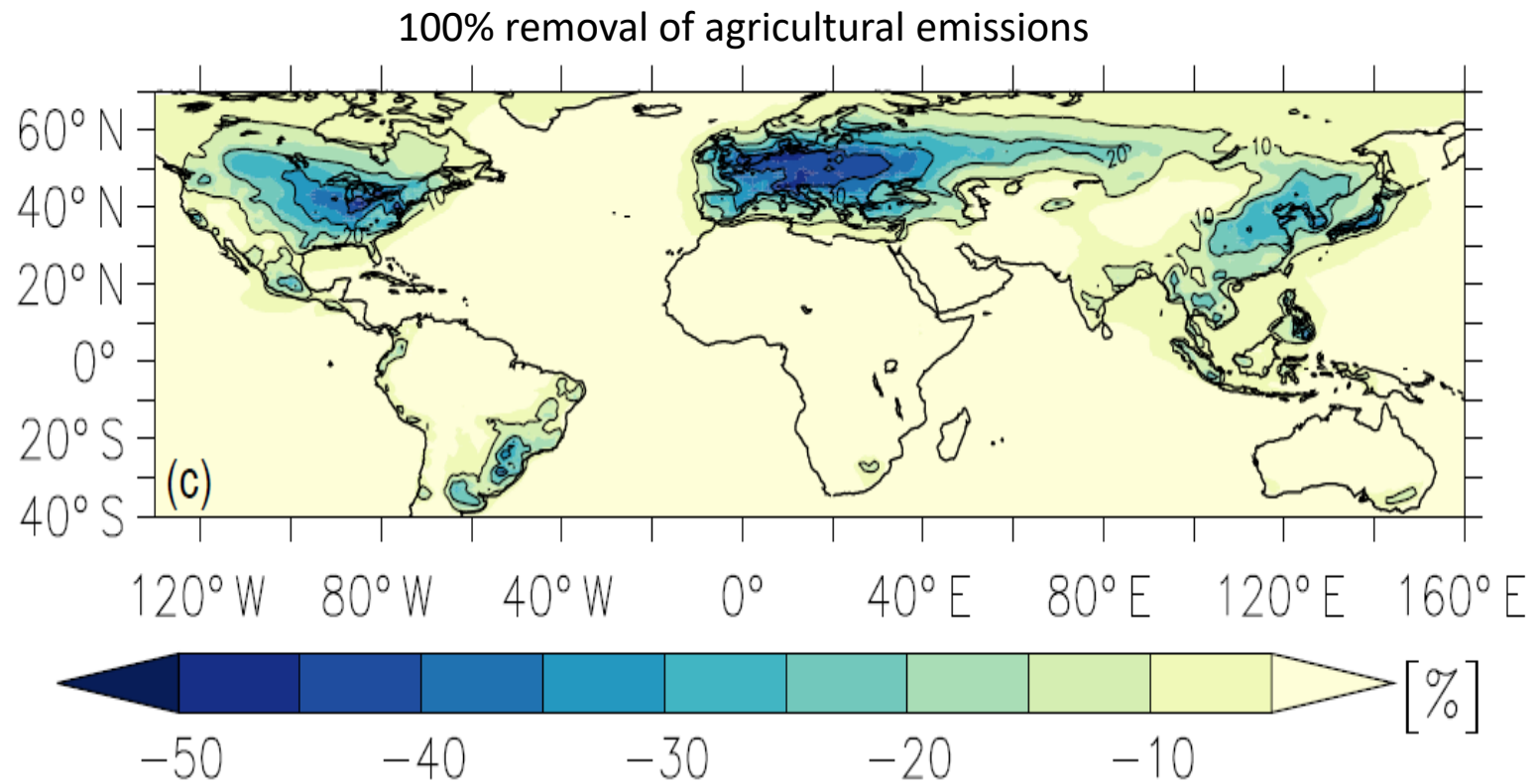
Forage Energy



Number of cattle [GVE] per hectare



## 2. Nitrogen

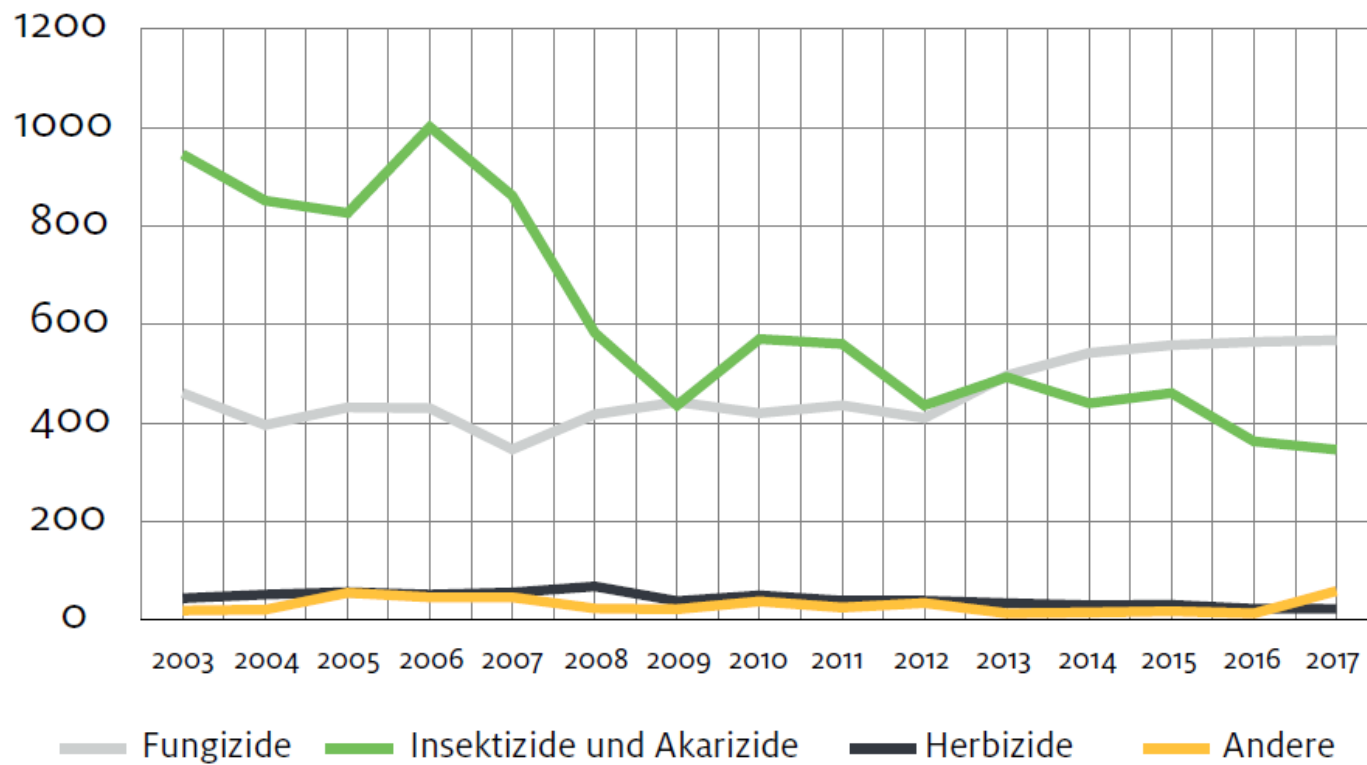


Pozzer et al. (2017): most important source for  $PM_{2.5}$  for Europe & N-America

### 3. Pesticides



Pesticides sold in South Tyrol (active substances, [t])

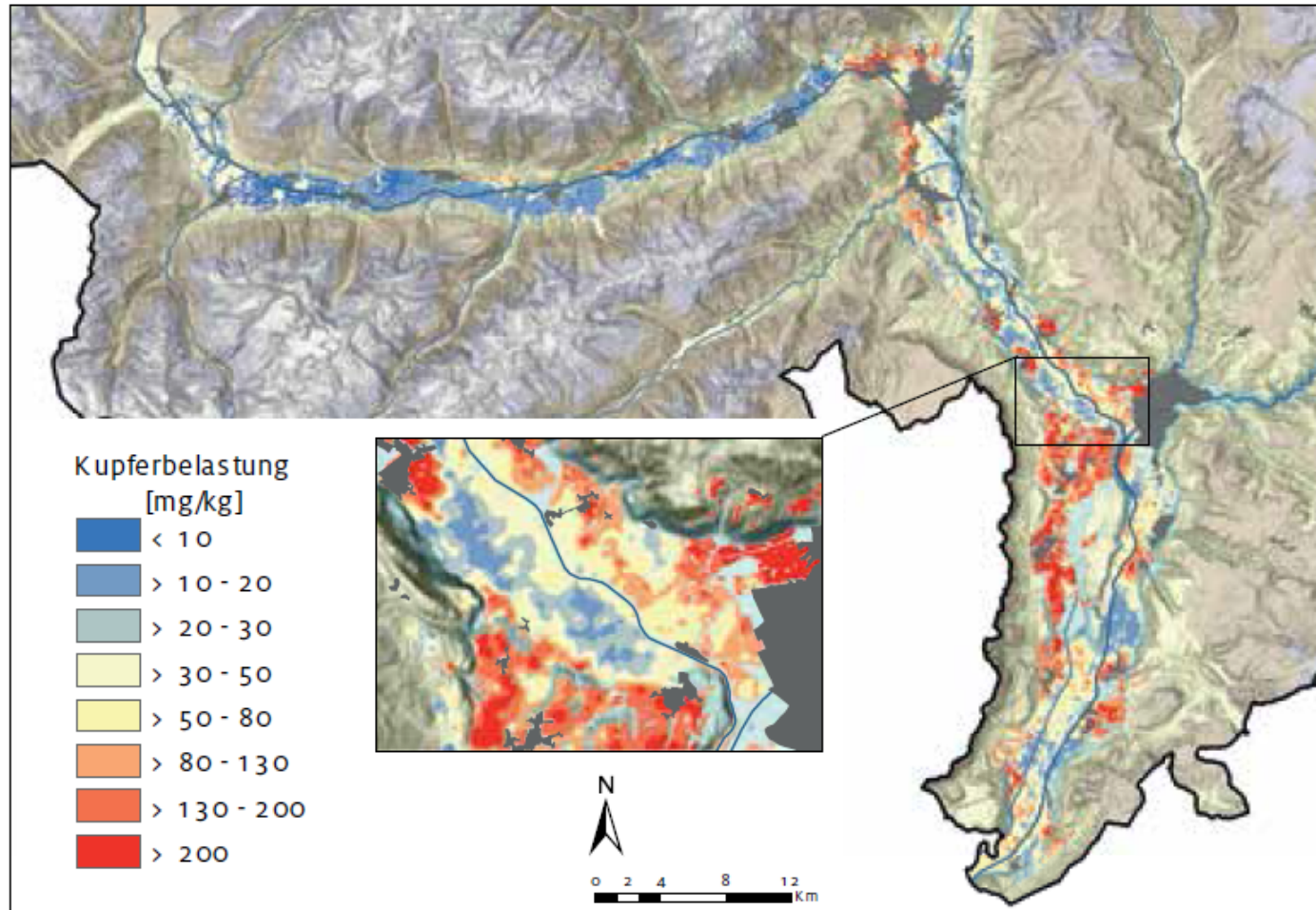




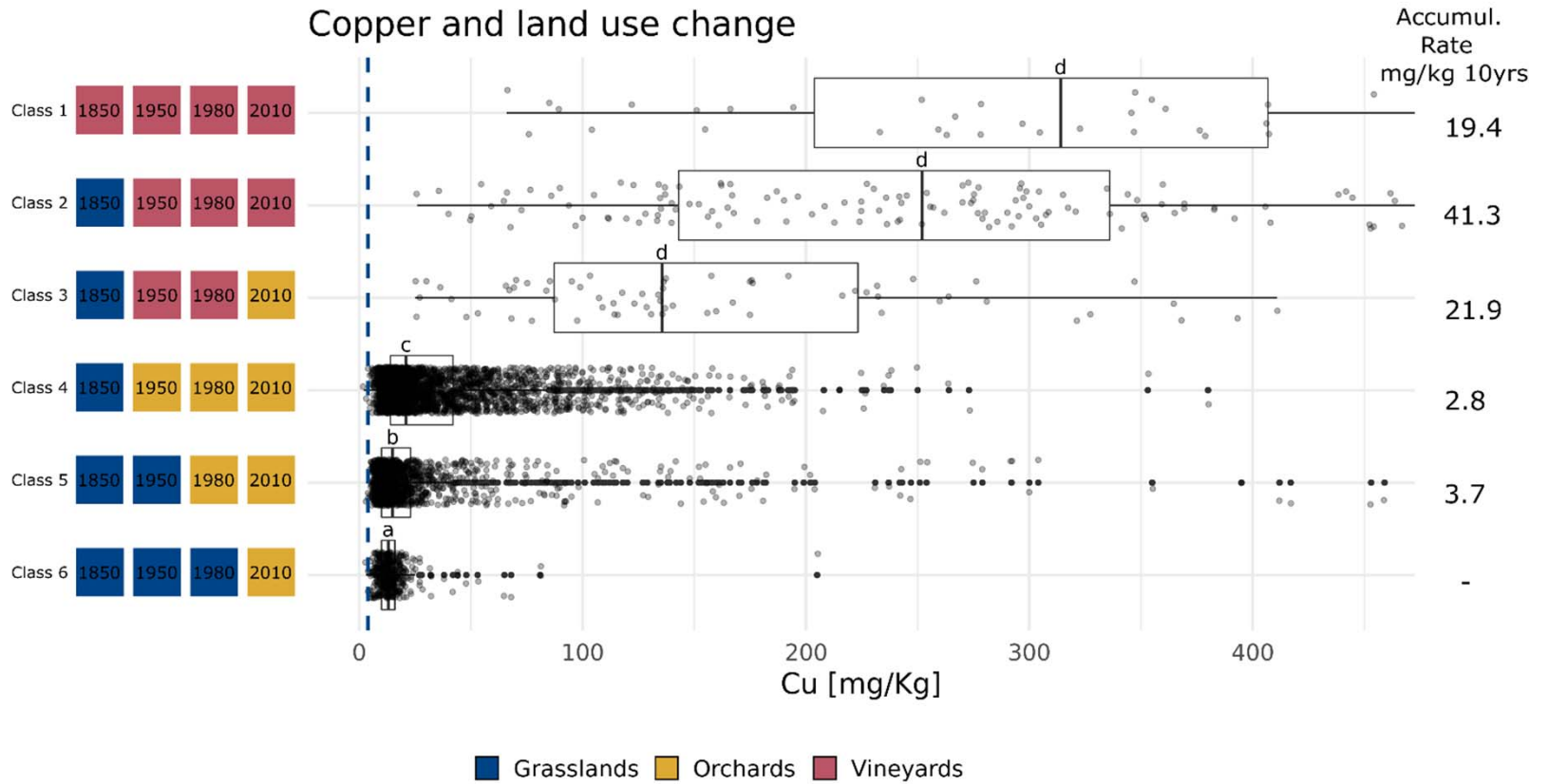
# 3. Pesticides



### Copper concentration in South Tyrolean Soils

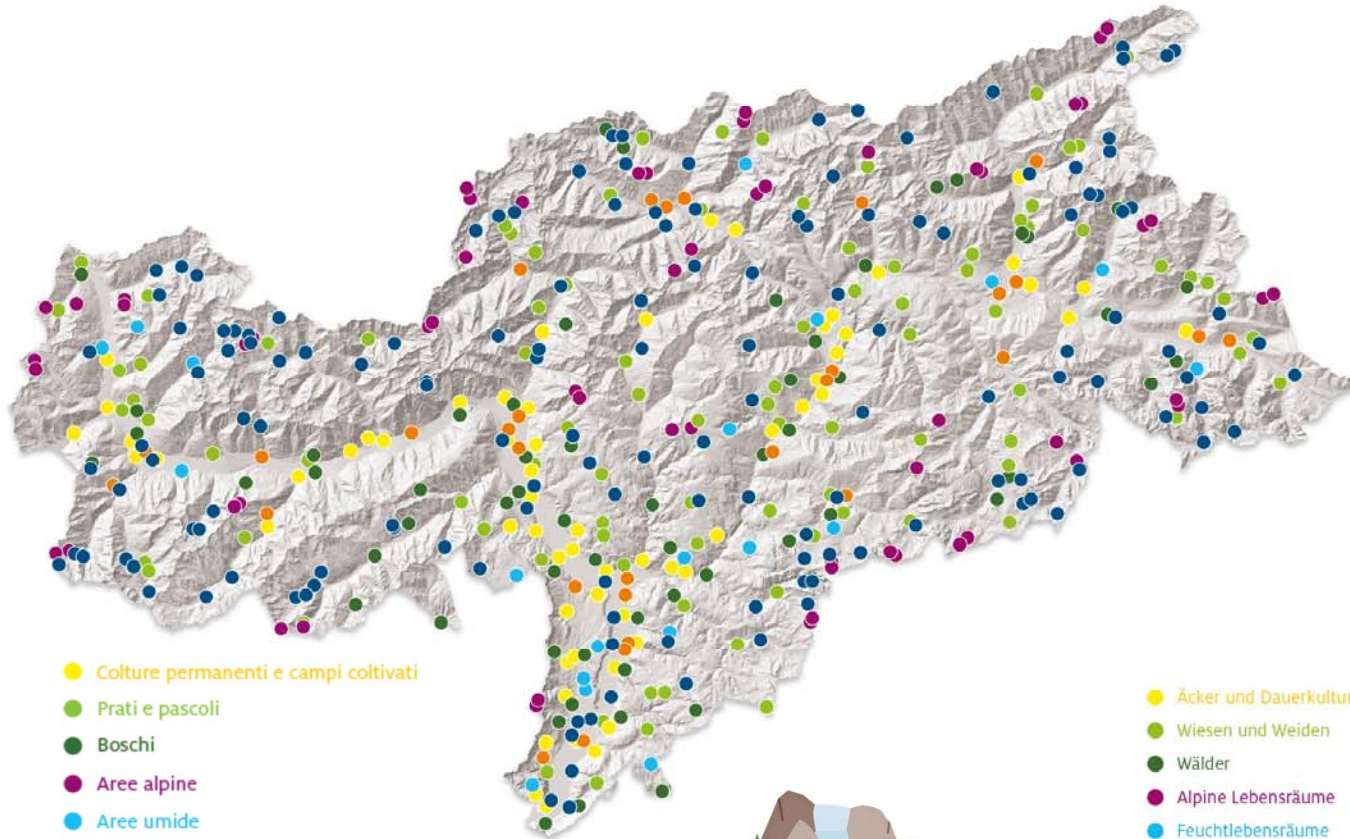


# 3. Pesticides



Genova et al. (2021), Journal of Hazardous Materials

# 4. Biodiversity



- Colture permanenti e campi coltivati
- Prati e pascoli
- Boschi
- Aree alpine
- Aree umide
- Acque correnti
- Aree urbane

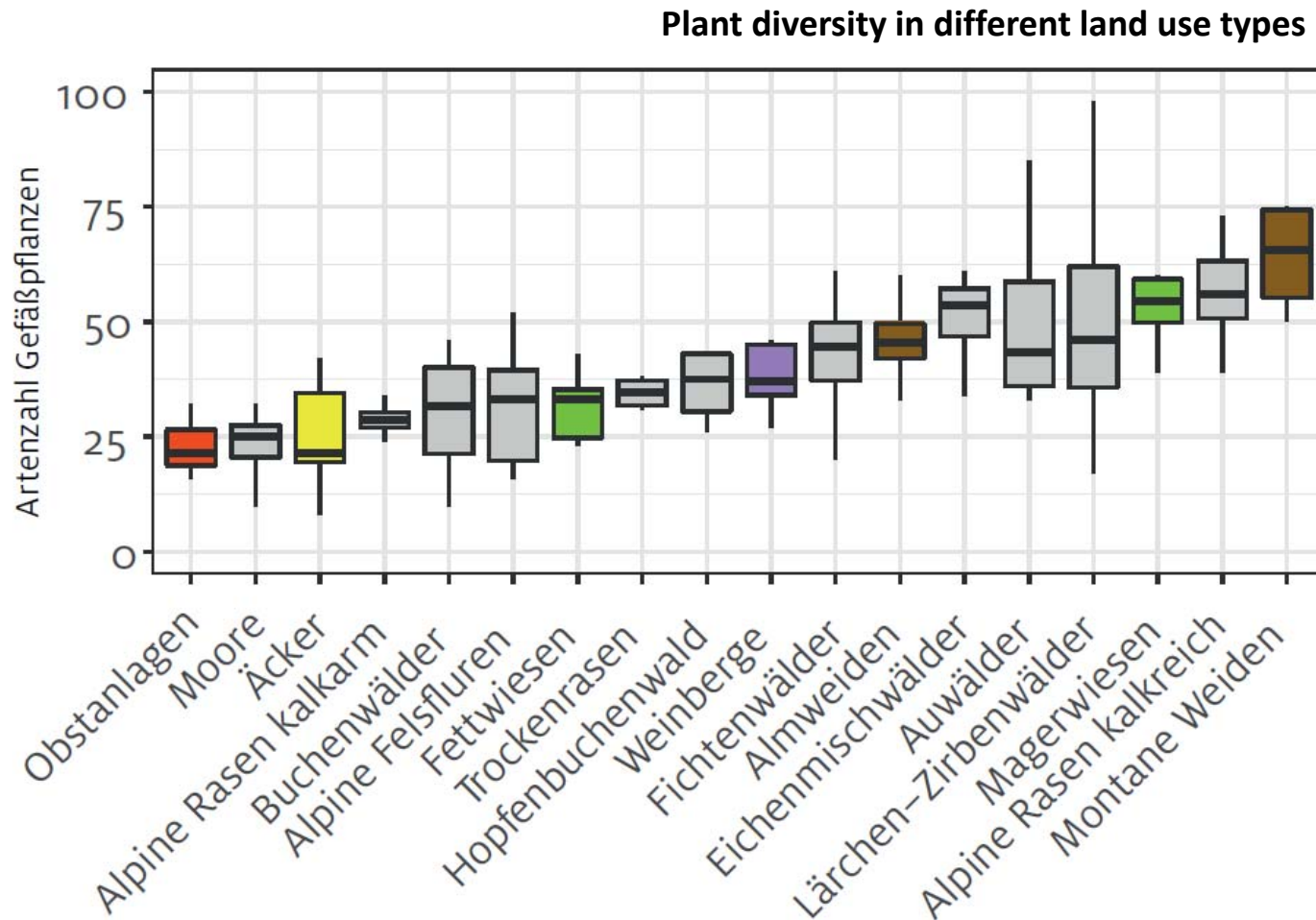
- Äcker und Dauerkulturen
- Wiesen und Weiden
- Wälder
- Alpine Lebensräume
- Feuchtlebensräume
- Fliessgewässer
- Siedlungsbereiche

## Biodiversity Monitoring

eurac research



# 4. Biodiversity

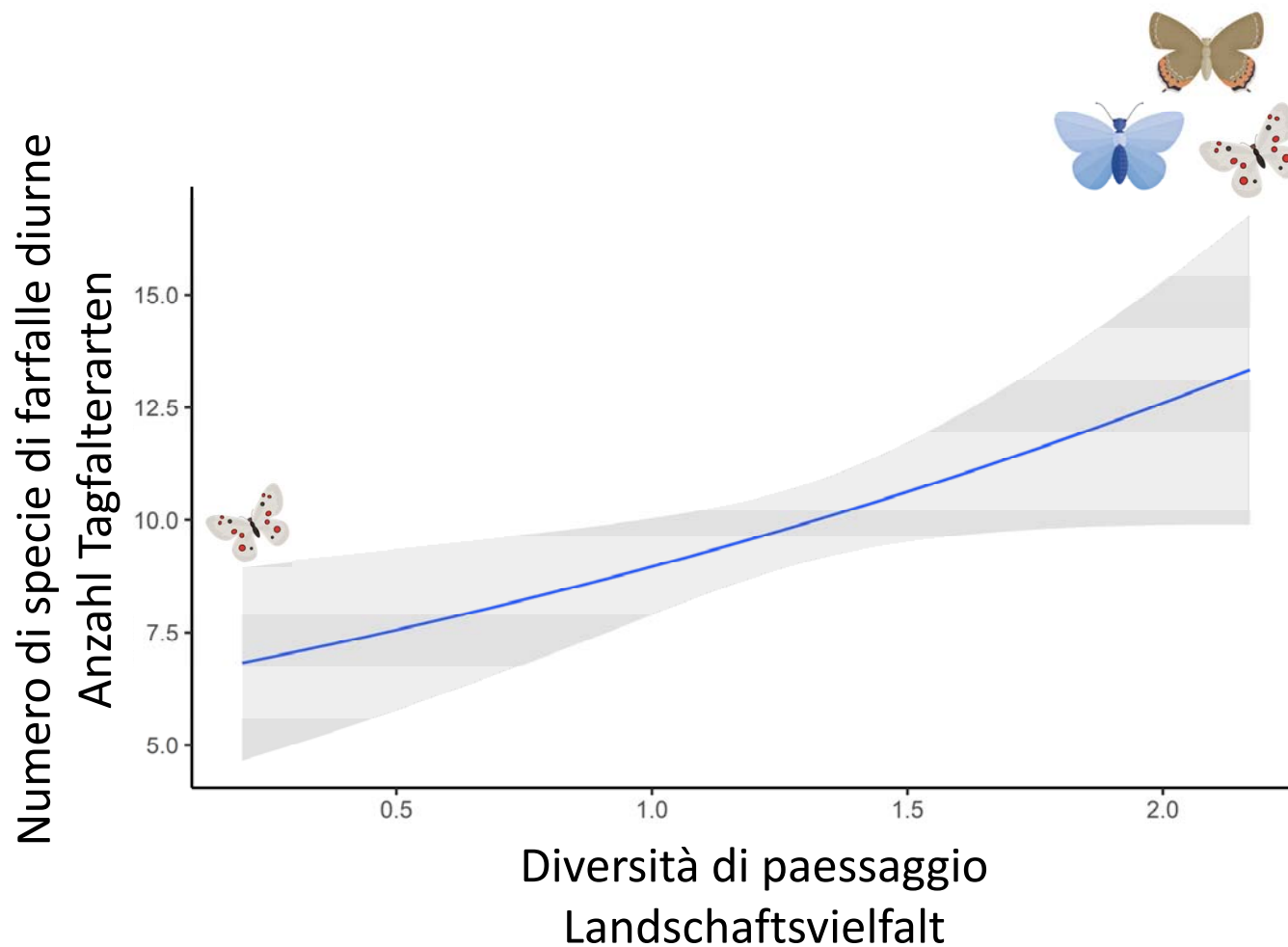




## 4. Biodiversity



## 4. Biodiversity





## 4. Biodiversity



<https://biodiversity.eurac.edu>



# Sum up: What is Sustainable Agriculture?





# politics

agriculture

Pesticide reduction	Legislative control	Targeted subsidies
Milk reduction	Science: Research & Mediation	Reduced food waste
Biodiversity-oriented	Fair price	Acceptance of not perfect products

society