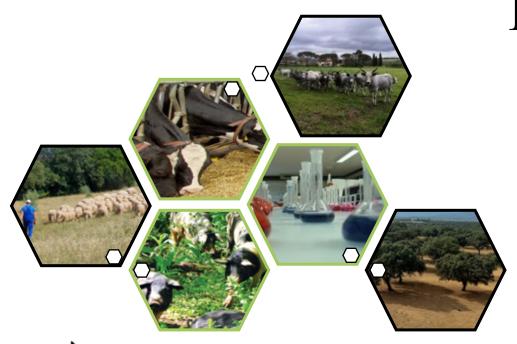


EAAP - WAAP - Interbull Congress 2023

Lyon, France - August 26th / September 1st, 2023



Mapping of value chains in the Italian bovine sector

*Matteo Finocchi*¹, Michele Moretti¹, Alberto Mantino^{1,2}, Alice Ripamonti¹, Giuseppe Conte¹, Marcello Mele^{1,2}

¹Department of Agriculture, Food and Environment, University of Pisa, Italy ²Centre of Agro-Environmental Research "Enrico Avanzi", University of Pisa, Italy















About PATHWAYS Project

Horizon 2020 project with the following **Objectives**:



- To develop innovative holistic sustainability assessment methodologies to enable livestock systems assessment from farm to fork
- To identify and evaluate innovations within livestock systems through practice hubs and stakeholder engagement
- To co-design scenarios and associated transition pathways with multi actors for a sustainable European livestock sector
- To support a timely effective transition to sustainable livestock systems in Europe



The aim of our work inside *PATWAYS*Project

 Mapping the value chain of beef and dairy cows in Italy

Understand the general picture of national production, from farm to processing industry, distribution, and final consumption

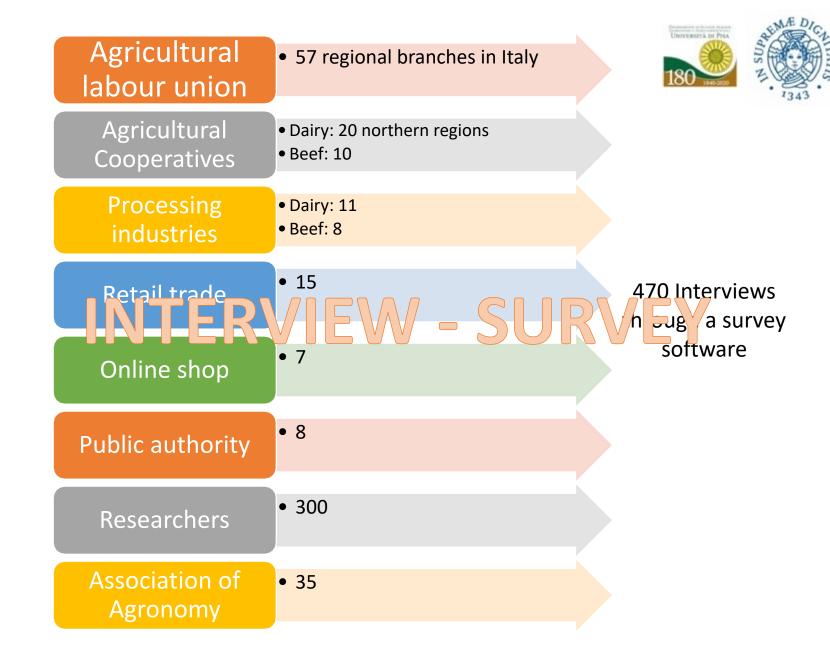
Identify the leverage points along the value chain to promote sustainable transformation in the Italian dairy and beef cattle sector.





Materials and method

- **1. Data collection** for the structure of the chains in Italy
- 2. The analysis of the governance structure of dairy and beef cattle value chains in Italy was investigated through surveys and semistructured interview with various actors of the chains aimed at describing the power dynamics.

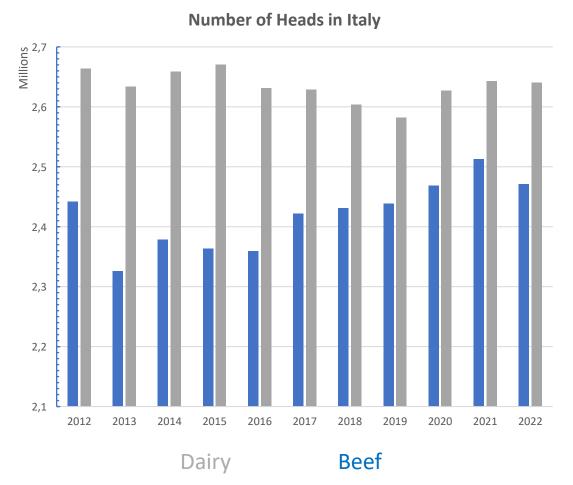


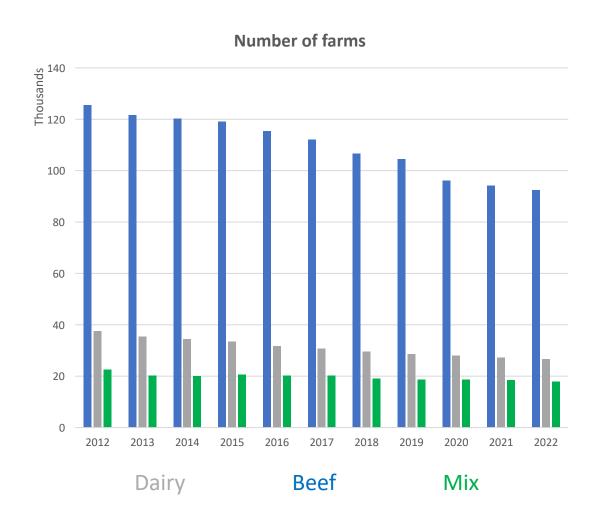






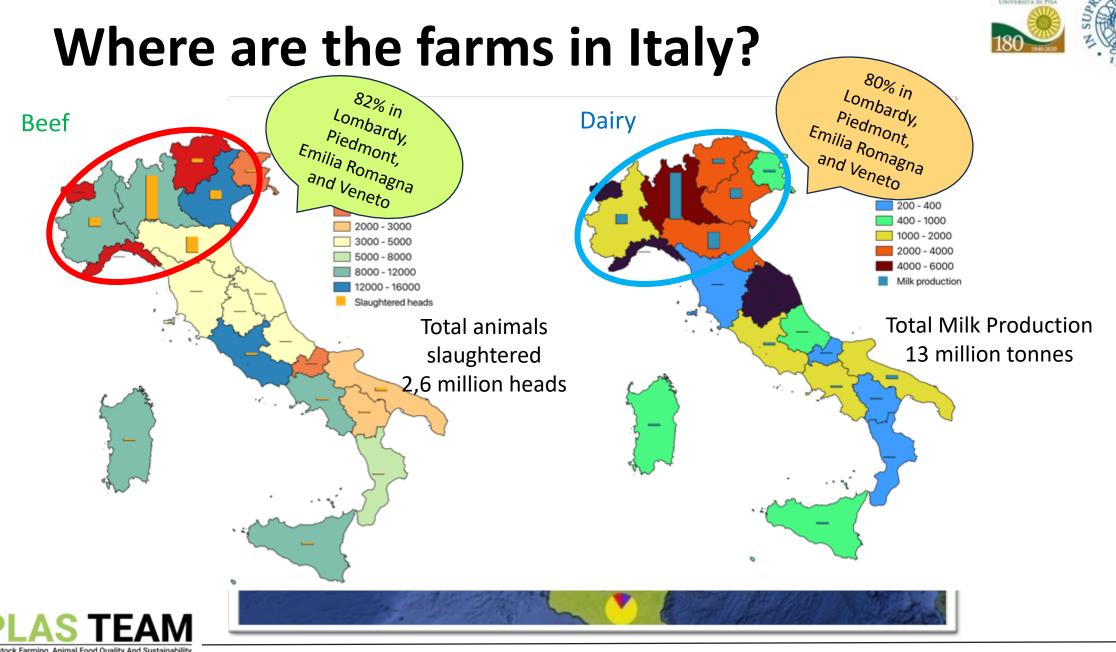








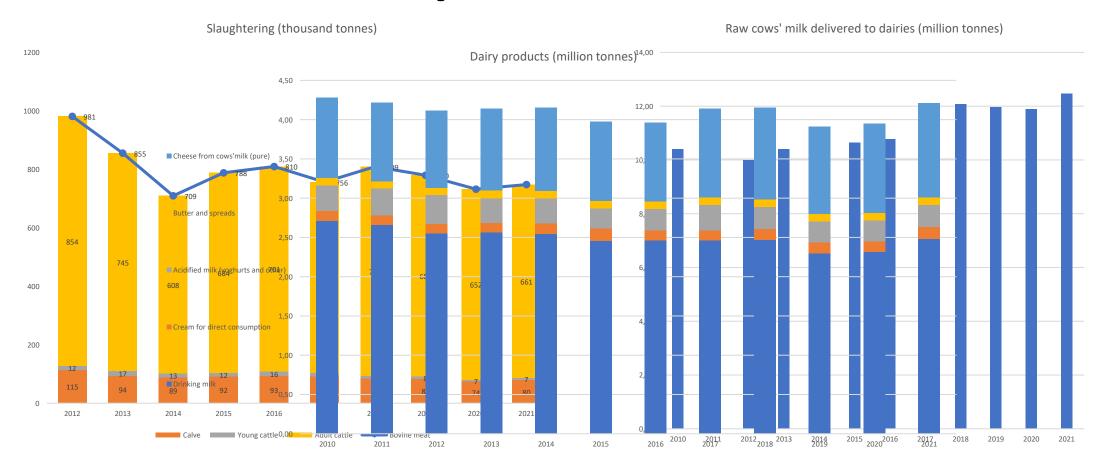
Source: Eurosta Data







Meat and milk production





46% of milk is used to produce PDO and PGI products

Source: Eurosta Data

Import:

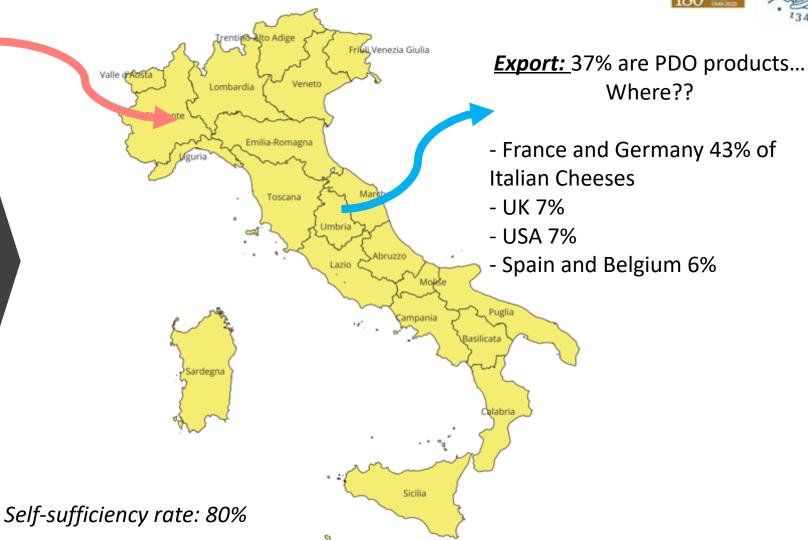
Milk 19% of production





Trade relation with other countries:

DAIRY sector





Source: ISMEA, CREA, ISTAT, EUROSTAT

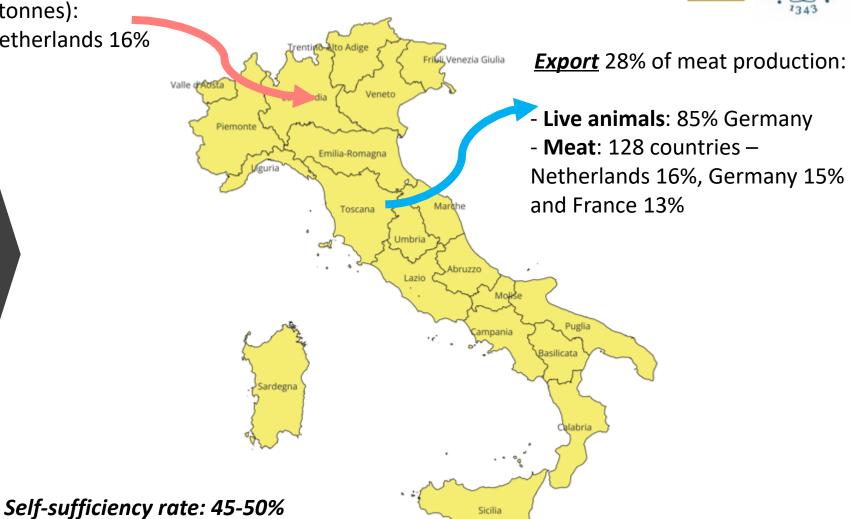
Import:

- Live animals (1million heads): >80% from France

- **Meat** (400 thousands tonnes):

Poland 19% France 18% and Netherlands 16%

Trade relation with other countries: BEEF sector

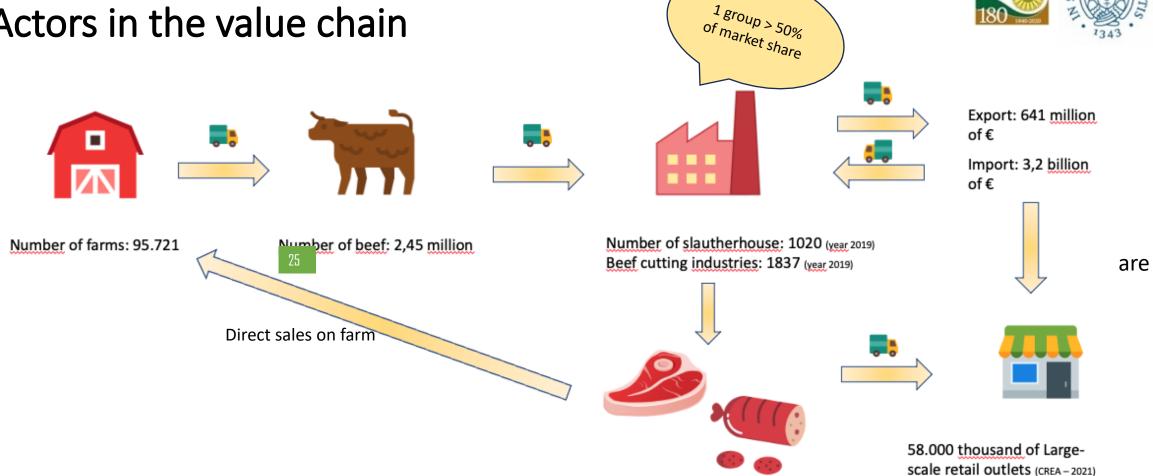


Sicilia



Source: ISMEA, CREA, ISTAT, EUROSTAT

Actors in the value chain



Processed beef: 744.000 tonn = 2,9 billion of €



Source: ISMEA, CREA, ISTAT, EUROSTAT





Results of Interviews

1

Actors with the greatest bargaining power

- 73% Industries and retail sector
- 21% Consumers
- 6% Farmers

2

Who is the main actor that determines the price formation

- 65% Retail sector and industries
- 18% farms cooperative
- 12% politicians
- Others

3

Who are the main actors in the supply chain

- Farms
- Industries
- Wholesalers
- Supermarket

4

How many are the main processing industries

- Dairy: Lactalis, Newlat Granarolo > 60% of market share
- Beef: Cremoni > 50% of market share

5

How agricultural policy influences price developments

- 35% through indirect instruments of agricultural policy: farmers' association
- 20% contract economy at fixed price
- Others







Power relations in the value chain

Farmers: more than 200.000

Cooperatives – Farmers associations: **few**

Industries: thousands

Big Industries: **3 for milk and 1 for beef**

Retail sector: 5 big supermarket

Consumers: tens of millions









Strengths and weaknesses of the supply м









- 1. Hight quality production
- 2. Maintenance of landscape with pasture
- 3. the high competitiveness of the sector
- 1. Low self-sufficiency
- 2. Lack of farm structures
- 3. High import of animals and meat
- 4. lack of associations between breeders
- 5. Low bargaining power of farmers



- 1. High investments in farm structures
- 2. high levels of specialisation
- 3. Economic importance of the sector
- 4. high associationism
- 5. Export
- 1. Existence of restrictive legislative constraints: animal welfare, wastewater management and nitrates
- 2. High production costs
- 3. Strong territorial location
- 4. Pulverization of the processing system
- 5. Low bargaining power of farmers

GHGs and Nitrogen...







Conclusions

The Italian case study within the PATHWAYS project aims to set an example to European countries to develop future actions aimed at the environmental and economic sustainability of animal production.

- 1. Modelling for environmental impact assessment: LCA Tier 2
- 2. Further development of **producer groups** to increase the **bargaining power** of the agricultural phase
- 3. Working with industries to find solutions















THANK YOU FOR YOUR ATTENTION

matteo.finocchi@phd.unipi.it

