



KEY-WORDS:
PRODUCTIVITY · DATA ENVELOPMENT
ANALYSIS · DAIRY FARMS

PROFILE

I am a second-year PhD student in Agricultural and Food Economics specialized in Policy Analysis and Dairy Farming Sustainability.

AFFILIATION

Department of Agricultural and Food Economics.
Università Cattolica del Sacro Cuore

LANGUAGES



Mother language



Mother language



Level C1



Level B2



Level B2

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PROJECT TITLE

Dairy Farm sustainability under Changing Climatic Conditions: A Business and Policy Analysis

Steps of the research

Objective 1: Productivity Analysis of Italian Dairy Farms under changing climatic conditions

- Estimation of total factor productivity and the impact of climatic factors using Stochastic Frontier Analysis (SFA) and Data Envelopment Analysis (DEA)
- Implementation of bad outputs (emissions) using DEA techniques and exploring SFA models
- Comparison of differences within Italian Farms using meta-frontier techniques
- Policy recommendations and improved practices presentation

Objective 2: Analysis of Italian Dairy farmers' willingness to innovate in the reduction of harmful environmental emissions - Primary data collection through Survey.

Main Results

FADN-RICA data will be employed to measure efficiency and productivity of Italian Dairy Farms and the role of climatic factors.

Primary Data collected through Survey will define the main limitations in investing in more sustainable practices.

Research Contribution

When validated, this information would permit to understand the interaction between economic, environmental, and social aspects in order to find a balance between enhanced productivity and sustainability in Italian Dairy Farming

Collaborations

Nutristar S.p.A. - Reggio Emilia (RE)

Why should you care?

Livestock sector and Dairy Farming are major contributors to climate change and Italy is one of the largest cow milk producers in Europe. Yet, its geographical location and heterogeneity makes it susceptible to climatic shocks (e.g., heat waves, erratic rainfall). There is a urge to prevent additional harm on national agriculture and sustainable productivity growth becomes crucial.