



SEBASTIEN

Smarter livestock Breeding through Advanced Services Tailoring Innovative and multi-source data to users' Needs

CMCC Foundation (Euro-Mediterranean Centre on Climate Change)

Advanced Scientific Computing – ASC / Impacts on Agriculture Forests and Ecosystem Services – IAFES / Regional Models and geo-Hydrological Impacts - REMHI

Partners

SEBASTIEN wishes to implement large-scale ICT-based services to support smart livestock farming and management, while reducing risks and taking opportunities posed by climate change and its variability, as well as by other concurrent environmental stressors and anthropogenic pressures.



Services Exploitation Web Portal



COPING WITH ENVIRONMENTAL STRESSORS FOR BREEDS

Supporting livestock farming towards breed adaptation to environmental conditions and production needs.

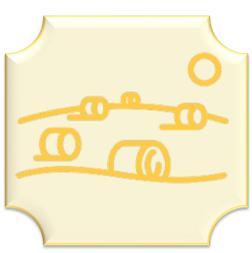
- Species/Breeds: cattle (Italian Simmental)
- Areas: various, across Italy



INTENSIVE FARMING RISK MANAGEMENT UNDER CLIMATE EXTREMES

Alerting about approaching or projected dangerous environmental circumstances for cattle.

- Species/Breeds: cattle (Italian Simmental)
- Areas: various, across Italy



EXTENSIVE FARMING MANAGEMENT AND FEED AVAILABILITY

Indicators about the phenological stage and greening of the naturally vegetated or managed areas used to feed livestock heads when conducted outdoor.

- Species/Breeds: sheep and cattle
- Areas: central Italy



LIVESTOCK FARMING UNDER RISKS FROM COMBINED ABIOTIC AND BIOTIC FACTORS

Providing updated risk maps of parasites and diseases' spread.

- Species/Breeds: sheep
- Areas: Sardinia and other potential sites across Italy

DATASETS

- Climate simulations
- In situ sensors
- Satellite images

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Linked Projects

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