



Integrating innovative TECHnologies along the value Chain
to improve small ruminant welfARE management



Abinsula platform: an integrated web tool for Precision Livestock Farming and Early Warning Systems in small ruminant management

The Abinsula platform is a web-based Decision Support System (DSS) developed in collaboration with Agris Italian pilot farm, in the context of TechCare, to enhance the management of small ruminant farming. The platform integrates data from various sources, including experimental sensors, farmer inputs, and monitoring systems, offering a centralized solution for comprehensive data management. To ensure compatibility, Abinsula also supports ad hoc integration of non-standard data collection systems, enhancing flexibility and accessibility for diverse farm setups.



Designed with a focus on Precision Livestock Farming (PLF), the platform enables real-time monitoring of flock and individual animal parameters such as welfare, health and productivity. It includes Early Warning Systems (EWS) that detect undesirable conditions, low production levels, or welfare issues. These alerts are communicated through automated reports and email notifications, ensuring timely intervention.

The platform's user-friendly interface supports rule-based analyses, historical trend tracking, and customizable thresholds, empowering farmers to make informed decisions that improve economic sustainability and animal welfare. By integrating advanced monitoring and alert systems, the Abinsula platform streamlines farm management, helping farmers save time and labor while achieving optimal outcomes for their flocks.



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