Cofinanciado por:

Dados do projeto	
Identificação do projeto	**RUMMUNITY** Project. Reduction of perinatal mortality and morbidity due to failure in transfer of passive immunity in free-range cattle, based on plasma administration
Entidade Proponente	Instituto Politécnico de Portalegre
Código do projeto	POCI-01-0145-FEDER-023757
Data de início	11-09-2017
Data de conclusão	03-03-2019
Investimento	157.257,14€
Elegível	131.231,93€
Incentivo	111.215,34€
Copromotores	Project leader Polytechnic Institute of Portalegre; Other entities involved: Polytechnic Institute of Viseu, Sociedade Agrícola da Herdade da Granja do Peral, Lda, Visacampo – Sociedade Agropecuária, Lda, Herdade de Mareares – Sociedade Agropecuária, Lda (beneficiaries); University of Extremadura, AADP – Associação de Agricultores do Distrito de Portalegre, ACOS – Associação de Criadores de Bovinos do Sul, ACBRA – Associação de Criadores de Bovinos de Raça Alentejana, ACBM – Associação de Criadores de Bovinos Mertolengos, ACL – Associação Portuguesa de Criadores de Bovinos da Raça Limousine (partners
Síntese do projeto	
Objetivos	Testing the efficiency of hyper-immune plasma transfusion in the treatment of failure in the transfer of passive immunity (FTP) in free-range beef calves; Investigating the prevalence of FTP in beef cattle herds bred in extensive systems; Knowledge transfer concerning FTP risk factor and treatment alternatives
Atividades	Goal 1 - Testing the efficiency of hyper-immune plasma transfusion in the treatment of failure in the transfer of passive immunity (FTP) in free range beef calves Goal 2 - Investigating the prevalence of FTP in beef cattle herds bred in extensive systems Goal 3 - Knowledge transfer concerning FTP risk factors and treatment alternatives. For these purposes, the project proposes a multidisciplinary collaborative approach, with the research team being involved in a set of tasks, designed to fulfill the identified goals: Task 1 - Selection and maintenance of plasma donors, vaccination protocol and blood collection (Goal 1) Task 2 - Laboratory analysis and blood processing, freezing and storage (Goal 1) Task 3 - Selection of beef cattle farms, contacts with assisting veterinarians (Goals 1 and 2) Task 4 - Identification and clinical and laboratorial diagnosis of calves with failure in the transfer of passive immunity (FTP); hyper-immune plasma transfer to calves, clinical and laboratorial monitoring of FTP cases and evolution recording (Goal 1) Task 5 - Implementation of epidemiological surveys to beef cattle farms (Goal 2) Task 6 - Periodical meetings of the research team (Goals 1, 2 and 3) Task 7 - Data analysis and publication of research results in peer reviewed journals (Goal 3) Task 8 - Elaboration of a technical brochure concerning FTP and current available solutions (Goal 3) Task 9 - Internet and social media release of project goals, main results and technical information (Goal 3)
Resultados esperados	The RUMMUNITY Project's goals focus on finding an alternative, sustainable solution for treating failure in transfer of passive immunity, a problem that is known to affect beef cattle livestock farms and interfere with their profitability. These goals position themselves in the framework of sustainable, high quality and safe food production, hence suiting one of the axes of the National Strategy for Intelligent Specialization. On the other hand, the fact that the projects aims to improve the sustainability of extensive livestock production systems, with the inherent benefits for the environment, and, on the other hand, to a potential reduction of the use of antibiotics in animals meant for human consumption, hence reducing the risk of antibiotics resistance and antibiotic residues both in meat and in the environment, are contributions to the societal challenges identified in the framework of Horizon2020. B2. Potential for the enhancement of knowledge To the research team's best knowledge, this is a pioneer study in beef cattle livestock farms in Portugal, and therefore a broad knowledge transfer plan has been established. This plan involves producing several reports, two peer-reviewed papers, a technical brochure and a Master's thesis (from a graduate in the MSc in Sustainable Agriculture of the Polytechnic Institute of Portalegre). Additionally, several public sessions, meetings and seminars and communications in congresses or similar events are planned. For more information on the knowledge transfer plan, please refer to the Specifications file. B3. Project additionality effect The RUMMUNITY Project involves partnerships between two Polytechnic Institutes (Portalegre and Viseu) and three small enterprises (livestock farms). Additionally, it involves the cooperation of several non beneficiary partners, listed in the Specifications file. B4 - Contribution of the project to results of OPs and the remaining thematic domains of Portugal2020. The innovative application to be tested successfully during the RUMMUNITY Project is the transfusion of fresh frozen hyper-immune plasma to beef calves diagnosed with failure in the transfer of passive immunity in free range farms.
Galeria de fotos/vídeos do projeto	