

PRACTICE ABSTRACT 1

Re-Livestock a project to Re-design livestock farming systems

AUTHORS:

*David Yañez-Ruiz, Consejo Superior de Investigaciones Científicas (CSIC), Spain

*david.yanez@eez.csic.es

WP9: Project Coordination and Management

Building Resilience in Livestock Farming

Despite the extensive research of farming practices to enhance mitigation and adaptation to climate change, livestock farming systems continue to move on unsustainable trajectories through a focus on “highly tangible, but essentially weak, leverage points” caused by several **technical and adoption-related limitations**. There are, however, numerous **opportunities** to increase livestock farming resilience through better knowledge on:

- i) C footprint of feed materials and alternative sources (i.e. by-products),
- ii) Efficacy of mitigation feed additives across different production systems,
- iii) How climate change is affecting growth and utilization of grasslands,
- iv) The impact of integrating mitigation and adaptation goals in livestock breeding programs across a range of breeds,
- v) The impact of combining different farm level practices with support of modern technologies in different production systems,
- vi) The impact of the innovations across scales/levels (temporal, spatial and organizational), and
- vii) How to operationalize the transition to a more resilient livestock sector.

Re-Livestock’s actions towards resilience

The ambitious studies in **Re-Livestock** will serve to address and exploit these opportunities through:

- Regional-specific integrated assessment of mitigation and adaptation practices
- Refining existing tools and models for a holistic evaluation of current and future livestock systems

- Assessing livestock system resilience
- Determining the role of livestock in supporting circularity

37-Partner Consortium Driving Re-Livestock Advances

To address the above tasks a big interdisciplinary consortium with 37 partners from 14 countries (Figure 1) has been developed that includes **farmers associations** (AEANI, PFLA, PROVAC), livestock **feeding companies** (DSM, AGRI), **seed company** (BH), **breeding companies** (CRV, PIC, ANAS), **precision livestock company** (PCH), advisors (L&F, CONSULAI, BH), who will work closely with fourteen universities (UNIBO, UPV, UREAD, WU, SLU, AU, UCD, UNIPI, QUB, AERES, UEX, BOKU, UQ) and nine applied research and technology institutes (CSIC, WR, SRUC, FIBL, PIK, MVARC, ORC, AGROS, IRIAF) leading the field in stakeholders engagement, extension technology transfer, feeding and nutrition, animal breeding, GHG measurements, climate change scenarios development, grassland management and agroforestry, on-farm sustainability assessment, ecosystem services, animal welfare and precision livestock farming. Re-Livestock will also benefit from expertise in knowledge exchange, communication and outreach through communications and training agencies (CONSULAI, CIHEAM- IAMZ).



Figure 1. Re-Livestock Consortium