

Back to the Future: Reintegrating Land and Livestock for Greenhouse Gas Mititgation and Circularity

B. Osborne, M. I. Khalil, K. Klumpp, B. Kruijt, P. Gottschalk, G. Moreno, O. Valta, A. Walkiewicz, L. Hallik, J. Herron, T. van der Weerden, J. Perez-Quezada and R. Kröbel

Correspondence: b.osborne@ucd.ie; i.khalil@prudencecollege.ie

The widespread reintroduction of crops and livestock could make a major contribution to the development of the wider EU circular (agricultural) economy and contribute to sustainable growth, through the more effective recycling of materials and resources, the minimization of waste, and a reduction in external supplies of feed and synthetic fertilizers, with potential biodiversity, environmental and soil health benefits.

However, this comes with significant challenges, particularly enteric methane emissions, land degradation due to over grazing and water pollution and the need to effectively substitute inorganic fertilizers with organic manures including the economic consequences of reintroducing livestock, which will be addressed.



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Objectives

Generate a systems-based understanding of the complex interactions among the different components of the livestock production system, together with the integration of alternative land use options for GHG offsetting and enhanced C storage with the appropriate grazing practices, contributing to enhanced farmland biodiversity and circular economy.

Collaborating institutes



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Work Packages

WP 1: Data Collection and Synthesis

WP 2: Livestock Management and Choice

WP 3: Manure and Amendment Management

WP 4: Farming Resources/Choice

WP 5: Systems-based Decision Suppor Tools

WP 6: Direct validation and verification of mitigation action

WP 7: Economic Impacts and Certification

WP 8: Dissemination and Communication

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