

# Objective

Development of a decision support tool (DSS) to define efficient and sustainable manure management strategies.

## KO #1

Create an updated inventory of manure management solutions.

## KO #2

Investigate innovative and circular solutions to reduce emissions.

## KO #3

Optimise management strategies to minimise environmental emissions.

## KO #4

Assess the sustainability of manure management in environmental, economic and social aspects.

## KO #5

Develop simplified life cycle assessment (LCA) models.

## KO #6

Integrate knowledge into a decision making tool (DSS).

## KO #7

Formulate technical guidelines and policy recommendations.

The NUTRITIVE project aims to address existing challenges by developing a decision-making tool capable of defining the most efficient and sustainable manure management strategy for a given livestock farm. This tool will consider environmental, economic, and social aspects to minimise atmospheric emissions and ensure soil and water quality. The results obtained will allow for the formulation of guidelines and technical recommendations focused on the development of future European policies on manure management.

## Our partners:

### EU Partners



### China Partners



iNnovative decision-making tool for defining the most sUitable manure management sTRategies to achieve a sustainable livestock farming system during the whole ValuE chain

## Our Top Priorities:

- ✓ Soil Fertility  
Provides essential nutrients avoiding biodiversity soil problems
- ✓ Odor Control  
Reduction of harmful gas contaminants emissions
- ✓ Prevent pollution  
Avoid contamination of surface and groundwater

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## Environmental Impact and Sustainability

### Work plan

**WP1:** Global inventory of current manure management practices in Europe.

**WP2:** Analysis of manure-derived pollutants and their impact on biodiversity.

**WP3:** Development of circular strategies and life cycle assessment models.

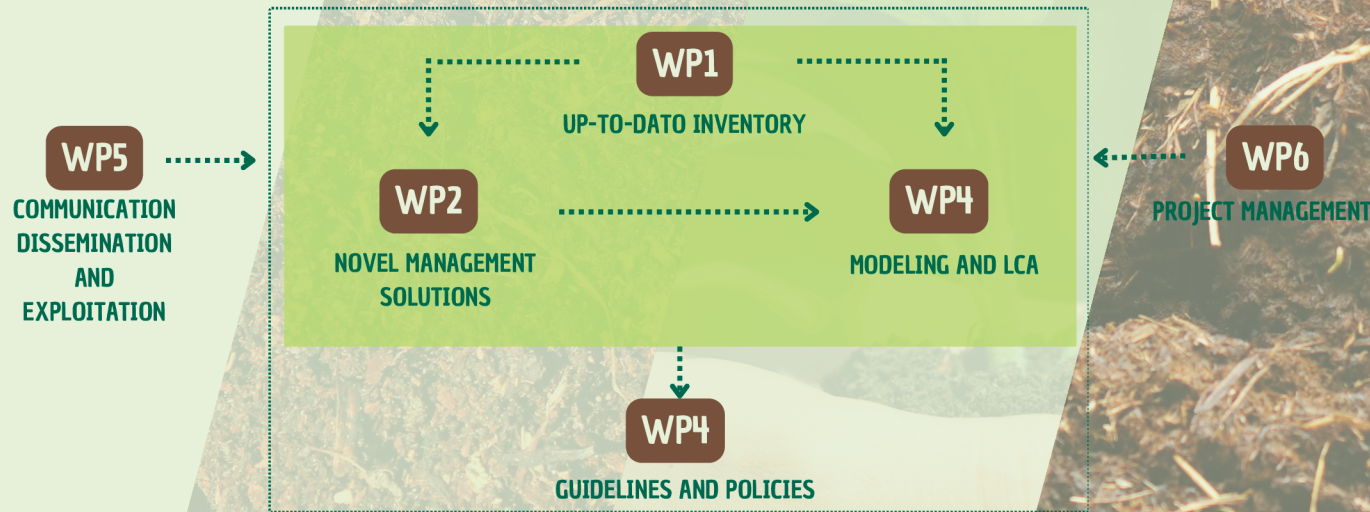
**WP4:** Creation of a decision-making tool to implement technical and policy recommendations.



**Current Impacts of Manure in Europe:** Generation of more than 1.4 billion tonnes of manure annually in the EU and its potential detrimental effects on soil.



**Environmental Benefits of the Project:** Improve soil fertility, control odours and prevent pollution of water bodies.



### Innovation and Technology Strategies

- **Soil and Water Sampling:** Methods to analyse the presence of pollutants.
- **Odour Control Technologies:** Reduction of pollutant gas emissions.
- **Pollution Prevention Strategies:** Measures to prevent surface and groundwater contamination.

## Background and Justification



- **European Policies:** Reference to the objectives of the Green Deal and its approach towards a sustainable agricultural system.



- **Challenges in Livestock:** Explanation of the environmental problems generated by the livestock sector, such as manure pollution.



## Environmental Impacts

More than 1.4 billion tons/year of manure are generated in the EU and UK and re-applied to soils with potential harmful effects