



# LANDWORM

Impact of land use and management on earthworm communities

**PRINCIPAL INVESTIGATORS:**

**Daniel CLUZEAU**, Université de Rennes (FR) / **Céline PELOSI**, INRAE (FR)

**START AND FINISH:**

2022-2025

**CO-FUNDING:**



**11 PARTICIPANTS:**

**Maria BRIONES**, University of Vigo (ES) / **Kevin BUTT**, University of Central Lancashire (UK) / **Thibaud DECAËNS**, Université de Montpellier (FR) / **Michaël HEDDE**, INRAE (FR) / **Claire LE BAYON**, Université de Neuchâtel (CH) / **Bart MUYS**, KU Leuven (BE) / **Alberto ORGIAZZI**, European Commission's Joint Research Centre (IT) / **Guénola PERES**, Institut Agro (FR) / **Helen PHILLIPS**, Netherlands Institute of Ecology (NL)

The biogeography (i.e., discipline of biology that studies the present and past distribution patterns of biological diversity and their underlying environmental and historical causes) as well as the anthropogenic and natural factors impacting earthworm communities (composition, structure and functional traits) remain largely unknown. **Yet, earthworms are ecosystem engineers involved in key soil functions and associated ecosystem services.**

LANDWORM aims to quantify the current and past (less than 50 years) effects of land use and management on earthworm communities, considering the heterogeneity of soil and climatic contexts at the national scale, in order to:

- understand and predict earthworm community assembly
- identify favorable land management practices.

LANDWORM also aims to produce reference and threshold values to contribute to the bio-monitoring of the French territory. The data collected by this working group covers agricultural, forestry, semi-natural and artificial land uses and the main land management practices associated with these uses.

**CESAB**

*CESAB (Centre for the Synthesis and Analysis of Biodiversity) is FRB's flagship program and an internationally renowned research center whose objective is to implement innovative work to synthesize and analyze existing data sets in biodiversity research.*