

Unlocking the potential of soils through improved circularity in integrated systems

Introduction

The SENSE project (Synergies in integrated systems: Improving resource use efficiency while mitigating GHG emissions through well-informed decisions about circularity) officially started in March with an online kick-off meeting to discuss the implementation of the project.

The SENSE Project

In early June, Carlos Alho from Wageningen University & Research (co-lead WP5 – Project management) met with the project coordinator Jagadesh Yeluripati at the James Hutton Institute to discuss the project structure and to visit the case study farm Glensaugh in Scotland, which included a demonstration of the soil sensors implemented on the farm for near-real time monitoring of soil data that is used for the modelling of greenhouse gas emissions (Figure 1).



Figure 1: Donald Barrie (Farm manager) demonstrating the use of soil sensors at the case study in Glensaugh, the United Kingdom.

Similar sensors will be implemented in other benchmark case studies in the Netherlands, Germany, Italy, Brazil, Argentina and Uruguay. Later in June, the consortium met online again to discuss the planning of the activities across work packages and the website, and the twitter account of the project were launched. The consortium met online again in September to discuss progress across work packages: Standardized data collection (WP1); Circularity metrics (WP2); Alternate scenarios and Optimization to improve circularity (WP3) and Multidimensional Assessment and Optimization with Farmers (WP4), including specific deliverables such as the Consortium Agreement and the Data Management Plan. The next meeting will be the SENSE General Meeting 2022, which will take place in Brazil from 11 to 18 December and will be hosted by Embrapa. Representatives from all countries partners in the consortium will attend the meeting, which will include field visits to all three case studies in Brazil.

Relevant links:

- Website: <https://sense-eranet.hutton.ac.uk/>
- Twitter account: [@sense_eranet](https://twitter.com/sense_eranet)

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