

## **Enabling Carbon farming: a hands-on masterclass on soil carbon monitoring**

**Organiser:** Tessa van der Voort

**Institution:** NMI Wageningen

**Co-organisers:** Sven Verweij, Kees van den Dool, Yuki Fuijta, Matteo Poggio, Gerard Ros

### **Description:**

Additional carbon sequestration in soils is part of solutions for a more sustainable world: it mitigates climate change, can enhance water retention and support biodiversity. In order to facilitate this type of nature based solution it is crucial to determine soil organic carbon stocks rapidly, cost-effectively and robustly and at the farm level. In this masterclass we want to familiarise participants with soil carbon (sequestration) and give them hands-on experience with our Wageningen Soil Carbon STOCk pRotocol (SoilCASTOR, soilcastor.com).

This approach enables the determination of soil carbon in a rapid (~5-10 min/ha), scalable (>30-100 ha farms) and robust fashion (high accuracy). Participants will get hands-on experience with a NearInfra-Red scanner and get acquainted with measuring and evaluating properties relevant to soil carbon stock. We will also discuss soil carbon credits and associated considerations.

**Theme:** Soils for nature-based solutions

**Keywords:** carbon farming, soil carbon, nature based solutions, four permille

**Type of masterclass:** Tutorial