1S6a: A healthy soil as a basic enabling condition for the transition towards circular land management and land use

April 13th 9.00 (will continue at 11u)

dr. PJ (Peter) Kuikman	Wageningen Environmental Research
ir. JJ (Janjo) de Haan	Wageningen Plant Research
dr. SD (Saskia) Keesstra	Wageningen Environmental Research
dr. SM (Saskia) Visser	Corporate Strategy & Accounts

To complete the transition in agriculture towards a circular bio-economy we see benefits from taking a holistic approach. We propose to look beyond traditional disciplinary boundaries such as soil science, agronomy, biology, social science, economy, and beyond boundaries in land use systems (agriculture, nature and urban areas). In this session we examine how healthy soils play a decisive role in designing such holistic land management and land use approaches.

In a circular bio-economy a range of cycles relate to and utilize soils:

- Carbon cycle; biomass and organic matter in re-use and returns
- Nutrient cycle; relying on internal ecosystem sources
- Water cycle; providing and returning clean water

In contributions we invite abstracts that from a systems perspective study the processes in our soils, e.g. on soil carbon sequestration and/or retention of water or safe returns of wasted biomass. Besides, we are inviting studies in applied research addressing to what extent specific soil management strategies are impacting the different cycles as mentioned above and how they will contribute towards the transition towards a circular bio-economy. We aim to bring together scientists and practitioners working on different types of solutions that together enable and enhance a successful transition. In other words, we seek paradigm shifts in which healthy soils and healthy landscapes are key in successful climate smart and circular land management and land use.

In this session we invite all stakeholders working with soils to show their work and experiences when working on the transition towards circular land management. The role of soils should be highlighted.