

Wageningen University & Research

Circularity in Integrated Systems: Resource recovery for Feed, Fuel and (Organic) Fertilizer Self-sufficiency **in Ethiopia**

Carlos Alho (WENR)



Circularity in Integrated Systems in Ethiopia

■ Project coordination

- Wageningen Environmental Research (WENR)

■ Project partners

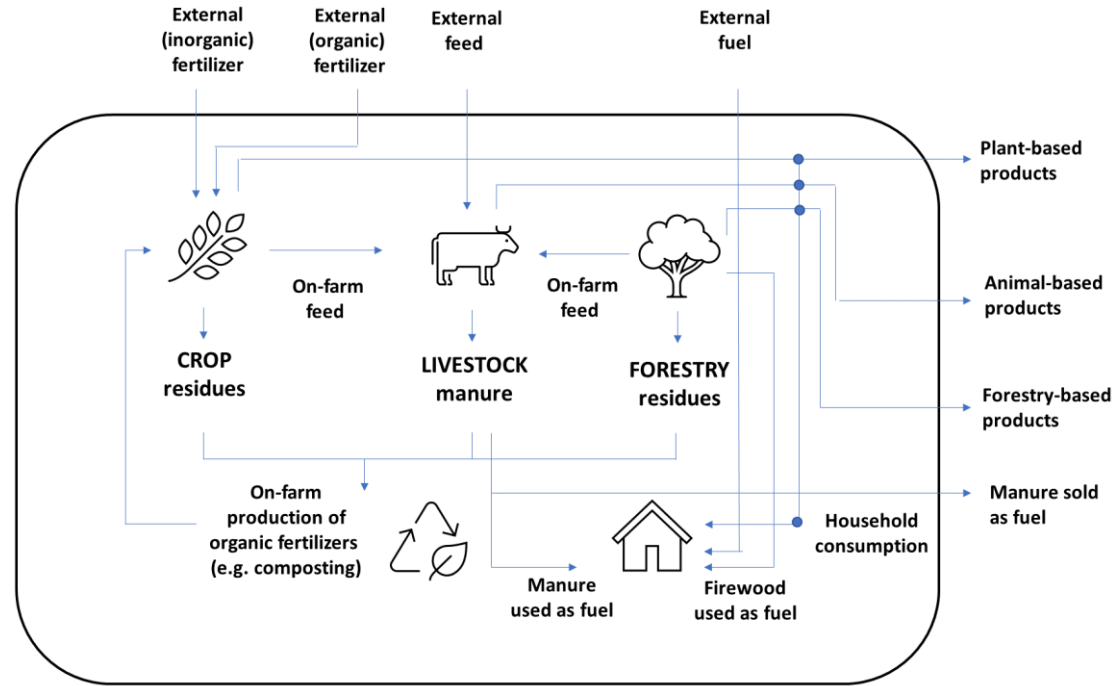
- Wageningen Livestock Research (WLR)
- Stichting Wageningen Research Ethiopia (SWRE)
 - Bahir Dar University (Case study 1: South Achefer)
 - Jimma University (Case study 2: Gera)

■ Project duration

- Start date: 01.03.2023
- End date: 28.02.2024

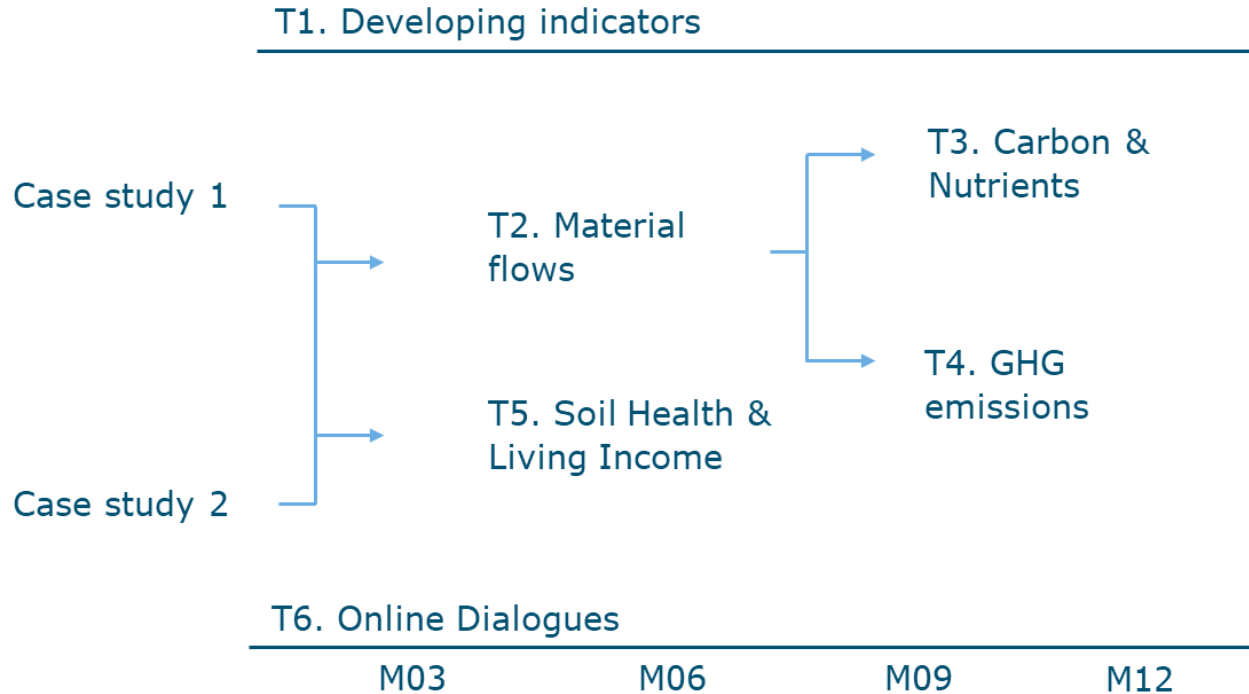
Circularity in Integrated Systems in Ethiopia

■ Conceptual Framework



Circularity in Integrated Systems in Ethiopia

■ Project structure



Circularity in Integrated Systems in Ethiopia

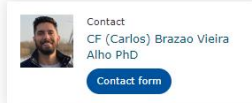
- **Project website:** <https://www.wur.nl/en/show/circularity-in-integrated-systems-in-ethiopia.htm>



The screenshot shows the top navigation bar of the project website. It includes the Wageningen University & Research logo, menu items for 'Education & Programmes', 'Research & Results', and 'Value Creation & Cooperation', and a search bar. Below the navigation is a green header with 'Home' and 'Circularity in Integrated Systems in Ethiopia'. The main content area features a large photograph of a rural landscape with a field and a haystack. A green box at the bottom of the image contains the text 'Project' and 'Circularity in Integrated Systems in Ethiopia'.

'Circularity in Integrated Systems: Resource Recovery for Feed, Fuel and (Organic) Fertilizer Self-sufficiency in Ethiopia' is a one-year project funded by the Circular Food Systems Network.

The overall aim of the project is to develop circularity indicators (Task 1). The project operates in two case studies in Ethiopia, which are characterized by the integration of crop, livestock and forestry systems. In each case study, we analyze the material flows (Task 2) and the associated carbon and nutrient contents (Task 3) as well as the GHG emissions associated with selected farm activities (Task 4). In addition, we investigate the contribution of circularity to other environmental (Soil Health) and socioeconomic (Living Income) goals (Task 5). Furthermore, we organize a series of Online Dialogues to promote the exchange of knowledge and experiences in the development of circularity indicators (Task 6).



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Project information
Circularity in Integrated Systems in Ethiopia
Project code: 5200047929
Status: In progress
Start project: Mar 1, 2023
End project: Feb 24, 2024
Partners: [Wageningen Environmental Research](#), [Wageningen Livestock Research](#)
Stichting Wageningen Research Ethiopia, Bahir Dar University and Jimma University
Donor: [Circular Food Systems Network](#)



The screenshot shows the 'Online Dialogues' page. It features the same navigation bar as the home page. Below the header, there is a sub-header 'Online Dialogues' and a paragraph explaining the purpose of the dialogues. A list of links for 'Session 1' and 'Session 2' is provided, along with a list of related resources like 'CFS Network' and 'WP2 SENSE'.

Online Dialogues

Exchange of knowledge and experiences in the development of circularity indicators will be promoted through a series of Online Dialogues. In each session, we invite speakers to talk about specific topics within the domain of circularity to set the scene for an open dialogue with the participants. Besides the exchange of knowledge and experiences, we hope to create opportunities for future collaborations among the scientific community working in the topic of circularity across different scales and geographical contexts. Documentation of each Online Dialogue will become available on this website.

Session 1

Session 1 took place on 02.03.2023 and was officially the kick-off meeting of the project. In this session, we invited Flavia Casu (WLR) to talk about the CFS Network and Elena Testani (CREA) to talk about her experiences leading WP2 of the SENSE project (ERA-NET), where they are developing circularity indicators for integrated systems in Europe and South America. In addition, Carlos Alho (WENR) presented the project while Prof. Yihene Selassie (Bahir Dar University) and Prof. Gezahegn Berecha (Jimma University) presented our case studies in Ethiopia. Presentations can be found on the right.

- [CFS Network](#) (Casu)
- [WP2 SENSE](#) (Testani)
- [Circularity Indicators in Ethiopia](#) (Alho)
- [Case study 1](#) (Selassie)
- [Case study 2](#) (Berecha)

Session 2

Session 2 will take place on 26.09.2023. In this session, we invited Marloes van Loon and Wytze Vonk (PPS Group) as speakers. Marloes and Wytze, who is also involved in the MI BICYCLE project (ERA-NET), will talk about their recent paper in the Journal Agricultural Systems: 'Circularity indicators and their relation with nutrient use efficiency in agriculture and food systems' (pdf on the right).

- [Van Loon et al.](#) (2023)

Project deliverables



Thank you for your attention!

Questions?


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Join our Online Dialogues

 Tue, 26 Sep, 1-2 PM (CET)

 Marloes and Wytze (Van Loon et al. 2023)

 Nutrient use efficiency



To explore
the potential
of nature to
improve the
quality of life