

Hands-on Bioeconomy Measurement Workshop

ICABR 2024

How to Register

1. Log into your ConfTool Account (or create one): <https://www.conftool.com/icabr2024/>
2. Register for the Post-conference Workshop. If you have already registered for the Conference and have not already been registered for the Post-Conference Workshop, email us asking to be registered in the Workshop.
3. Pay for the Workshop Fees (€ 100).

Workshop Agenda

- 09:30 am – 10:00 am Welcome Coffee and Workshop Registration
- 10:00 am - 10:45 am
 - Introduction by *Justus Wesseler* and *David Zilberman*
 - * Topic: Importance of the Bioeconomy in the Circular Economy: Opportunities and Challenges
- 10:45 am - 12:30 pm
 - Presenter: *Kutay Cingiz*
 - * Session 1: Input-Output Analysis and the Measurement of Bioeconomy Value Added
 - * One of the important advances in economic measurement in production is value added by industry. In this session, we focus on a consistent methodology for assessing the value added of the bioeconomy by using Input-Output tables. Although value added approach has been firmly established for national accounting and associated sectors, calculating the value added of the bioeconomy becomes intricate due to its encompassing multiple sectors and sub-sectors, with some being only partially accounted for. The objective of this session is to provide a cross-country measure of the value added of the bioeconomy.
- 12:30 pm - 1:30 pm Lunch Break
- 1:30 pm - 3:00 pm Session 2: Bioeconomy Indicators and Dynamics
 - Presenter: *Kutay Cingiz*
 - * In this session, we present a conceptual framework for assessing and quantifying the progress of the EU bioeconomy by Kardung and Drabik (2021). Measuring the progress of the circular bioeconomy requires the quantification of a number of indicators. We learn to apply a framework that allows for any number of well-defined quantitative indicators and analyze them empirically. We examine their distribution to find patterns in the development of the circular bioeconomy in the EU. Our aim is to investigate whether progress has been made in a wide range of bioeconomy indicators and whether the indicators have maintained their relative positions throughout the period under study.

- 3:00 pm – 3:15 pm Coffee Break
- 3:15 pm - 4:00 pm Wrap-Up Lecture by *Justus Wesseler*
- Summarizing Key Points from the Day’s Workshops Q&A Session

Workshop Mandatory Readings:

- Wesseler, J., & von Braun, J. (2017). Measuring the bioeconomy: Economics and policies. *Annual Review of Resource Economics*, 9, 275-298. <https://doi.org/10.1146/annurev-resource-100516-053701>
- Cingiz, K., Gonzalez-Hermoso, H., Heijman, W., & Wesseler, J. (2021). A cross-country measurement of the EU bioeconomy: An input-output approach. *Sustainability*, 13(6), 3033.<https://doi.org/10.3390/su13063033>
- Cingiz, K., Gonzalez-Hermosa, H., Heijman, W. & Wesseler, J. (2023), Measurement of the EU Bioeconomy and the Inclusion of Downstream and Upstream Linkages. *EuroChoices*, 22: 26-27. <https://doi.org/10.1111/1746-692X.12407>
- Kardung, M., and Drabik, D. (2021). Full speed ahead or floating around? Dynamics of selected circular bioeconomies in Europe. *Ecological Economics*, 188, 107146.<https://doi.org/10.1016/j.ecolecon.2021.107146>
- Zilberman, D., Reardon, T., Silver, J., Lu, L., and Heiman, A. (2022). From the laboratory to the consumer: Innovation, supply chain, and adoption with applications to natural resources. *PNAS* 119 (23): e2115880119. <https://doi.org/10.1073/pnas.2115880119>