

WHAT IS BioRADAR?

BioRADAR is a research project funded and supported by the EU's Horizon Europe programme and the Circular Bio-based Europe Joint Undertaking (CBE JU) which aims to help organisations policymakers, and investors with essential insights for transitioning towards a sustainable, bio-based economic model.

BioRADAR adopts a holistic approach to address the indicator gap concerning material circularity, environmental, economic and social impacts within industrial bio-based systems, while also pioneering the development of digital monitoring tools.



PARTNERS

YAGHMA



MONITORING SYSTEM OF THE ENVIRONMENTAL AND SOCIAL SUSTAINABILITY AND CIRCULARITY OF INDUSTRIAL BIO-BASED SYSTEMS

WWW.BIORADAR.ORG

CALL: HORIZON-JU-CBE-2022

OVERALL PROJECT BUDGET: € 2 873 165,00

START DATE: 1 JULY 2023

END DATE: 30 JUNE 2026

TOTAL MONTHS: 36 MONTHS

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Bio-based Industries Consortium



The project is supported by the Circular Bio-based Europe Joint Undertaking and its members. Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CBE JU. Neither the European Union nor the CBE JU can be held responsible for them.

OBJECTIVES

- Enhance sustainability assessment metrics and frameworks for industrial bio-based systems.
- Define circularity indicators and establish a circularity assessment framework for industrial bio-based systems.
- Evaluate the economic benefits and climate change mitigation potential of circularity.
- Address social implications within industrial bio-based systems.
- Identify patterns, best practices, and up scaling opportunities for policy recommendations.
- Develop integrated digital tools considering interconnected impacts.
- Demonstrate digital tools effectiveness in bio based sectors: textiles, packaging, and fertilisers.



DIGITAL TOOLS FOR INDUSTRIAL BIO-BASED SYSTEMS

The project will develop a one-stop digital solution for industries, investors, and policy-makers to assess the sustainability and circularity aspects of bio-based products and services. This framework will include:

- 1 AI-benchmarking and analytics platform.
- 2 A flexible and user-friendly self-assessment tool.
- 3 A regulatory tracker tool.
- 4 An innovative multidimensional performance measurement scorecard.



ENVIRONMENTAL
IMPACTS, RISKS,
AND COSTS



BIO-BASED
SYSTEMS
MONITORING



BENCHMARKS
INDICATORS



BEST
PRACTICES



SOCIAL
IMPLICATIONS



INSTRUCTION AND
SELF-ASSESSMENT



REGULATION
MONITORING