

Harmonised Life Cycle Assessment methods for sustainable and circular **BIO**based systems

Webinar - LCA framework developments of bio-based materials: how to integrate them in new EU projects?

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PROJECT KEY INFORMATION



Topic ID: HORIZON-CL6-2023-ZEROPOLLUTION-01-4: Environmental sustainability and circularity criteria for industrial bio-based systems ID: 101135371 **Project starting date: 1 January 2024 Project end date: 31 December 2026 Project duration: 36 months 7 Work Packages** Total budget: € 3,464,061 **10 Partners** Coordinated by: Contactica

Kick-off meeting in Madrid, 18th of January 2024





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Asociación Española para a Sostenibilidad Forestal



UNIVERSITY

LUXEMBOURG Institute of science And technology







10 Partners:

- 2 Universities (AAU, NTNU)
- 3 Research Centres (LIST, INSA, CESEFOR)
- 2 SMEs (CTA, GO-UP)
- 1 Certification Scheme (PEFC)
- 1 Industry (SONAE)
- 1 Industrial Cluster (B4C).

CONSORTIUM





OBJECTIVE

MAIN OBJECTIVE

PROJECT MANAGEMENT AND MONITORING (WP1)

Develop and validate a new set of improved, harmonized, precise, reliable and applicable assessment methodologies to properly evaluate environmental impacts and circularity in biobased systems, that can be applied in certification schemes, thus enabling the international trade of this type of products and development of new prospective life cycle assessment methodologies





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OBJECTIVE

Improved methodology for environmental sustainability and circularity assessment of Bio-based Systems (WP2)



Development of a harmonized approach for dynamic carbon footprint (dynamic LCIA)



Improvement of circularityDerive a set of life cycleassessment methodologyimpact assessmentfor BbS identifying circularmethods for BbSstrategiesstrategies





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OBJECTIVE

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Understand potential socioeconomic trade-offs, synergies and substitution effects (WP4)

> Analysis of the substitution effect methodologies for bio-based products

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Analyse trade-offs and synergies between improved environmental performance and economic and social objectives of BbS

Accounting for competition for resources between BbS with adjacent economy sectors in the bioeconomy



Test the LCA framework on low-TRL case studies





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provide guidelines for applying the prospective LCA to low and high TRL BbS



Develop user-friendly tools to perform LCA of bio-based products and test them by engaged stakeholders





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Incorporate the BbS LCA standard in existing certification scheme



- and exploitation activities
- regulatory bodies





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Maximise the impact of the project and its results through communication, dissemination

Assess the exploitation potential of the technology to find candidates for acquiring the technology in early stages of the technology commercialization, and to find candidates interested in using partial results (certification schemes, pLCA guidelines, generated data, etc.)

Clustering activities and cooperation with projects, EU platforms, institutions and



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THANK YOU VERY **MUCH FOR YOUR ATTENTION!**

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