



BIO4HUMAN

Identifying bio-based solutions for waste management applicable to humanitarian sector



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The circular economy and bio-economy sectors are developing rapidly, partly thanks to the strategic and legislative initiatives taken at the international and national levels. Humanitarian operations are one of the unexplored areas that could benefit from the application of bio-based products and bio-based systems. However, the challenge of SWM in humanitarian settings is posed by limited resources and infrastructures available that can result in litter, waste accumulation, and illegal dumping.

Horizon Europe funded project Bio4HUMAN aims to provide humanitarian aid operators and bio-based sector stakeholders with science-based information on the application potential, sustainable performances, and circularity of bio-based products and systems for humanitarian purposes.





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Bio4HUMAN will evaluate the socio-economic and governance aspects of identified bio-based solutions in South Sudan and the Democratic Republic of Congo (DRC), within three types of locations- big cities, smaller municipalities and communities/villages, and camps.

As well as providing a list of future solutions to the solid waste management challenge in two African locations, Bio4HUMAN aims to have a Europe-wide and international impact. A number of activities – including the creation of an openly accessible set of guidelines and recommendations and a replication roadmap of solutions identified– is anticipated to foster replication of the Bio4HUMAN solutions in other humanitarian settings that are willing to explore and later implement innovative bio-based solutions to perform sustainably.





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The Bio4HUMAN project runs from January 2024 to June 2026. The consortium consists of ten partners, coordinated by Enspire Science.



bio4human.eu



inquiries@bio4human.eu



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