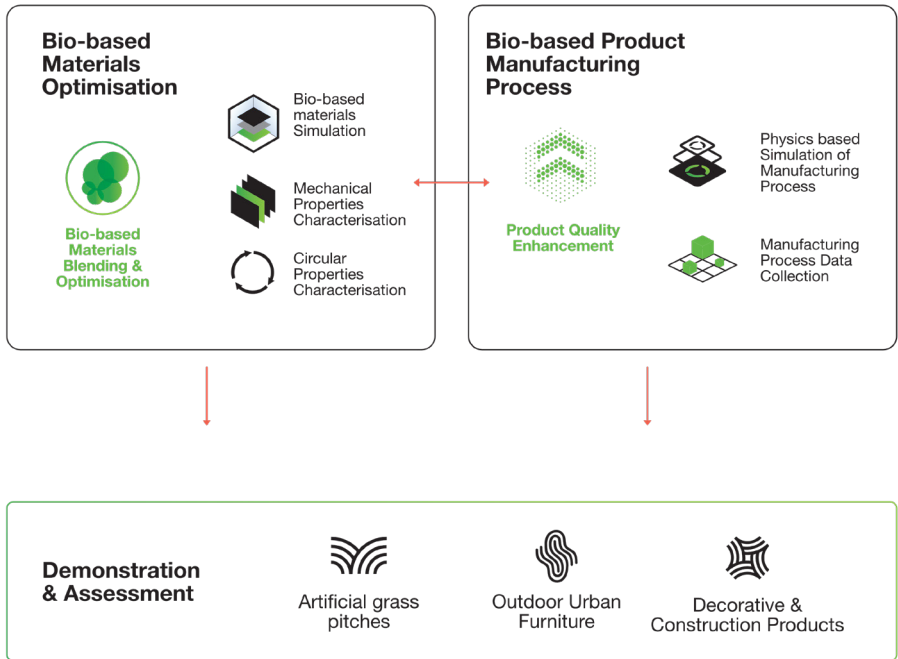




ambiance

Advanced Manufacturing of
Biobased products for urban
outdoor applications through
iNnovative CharactErisation,
digital technologies, and
circular approach.



Project.

AMBIANCE aims to reduce the environmental impact and make sustainable, recyclable products a norm in European cities, by promoting sustainable manufacturing models, optimising the manufacturing processes in the above applications, and ensuring the replicability of the results.

The project focuses on 3 manufacturing value chains: sports facilities, outdoor furniture as well as construction bricks and decorative panels. AMBIANCE deploys a mix of experimental activities and digital approaches to improve bio-based composite materials and manufacturing processes and create a life cycle model of each manufacturing value chain.



Impact.



More sustainable
urban areas



Smart shopfloor adaptation
for bio-based products
manufacturing



Recyclable bio-based
materials as an answer to
the Climate Emergency



Circular path of bio-
based products through
sustainable sourcing and
material recycling



3

Artificial Grass Pitch

This demonstrator aims to reduce the environmental impact of artificial turf, by using bio-based materials which are recyclable, compostable or can offer recirculation alternatives.



Urban Outdoor Furniture

SETGA will test the feasibility of large-scale 3D printing production of outdoor furniture, using recyclable biobased polymers optimised with additives for higher performance.





Use Cases.

Construction Bricks and Decorative Panels

PODCOMP aims to explore the manufacturing of bio-based construction bricks and decorative panels composed solely of agricultural side streams.



Partners.

The Consortium is composed by 10 partners across 6 European countries.

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