

**MANDALA. The transition of Multilayer/multipolymer packagiNg into more sustainable multilayer/single polymer products for the food and phArma sectors through the develOpment of innovative functional Adhesives**

MANDALA is a European project that presents a sustainable solution for the plastic packaging sector focusing on 3 pillars: eco-design, dual functionality & end-of-life; with the aim to find a final solution based on multilayer monomaterial packaging with functionalities compared to multimaterial ones and fully produced with biobased & recycled polymers in order to reach a full circularity of resources.

The project will develop new adhesives with dual functionality (easy to split and barrier properties) by incorporating thermoreversible covalent bonds and radiation absorbing nanoparticles, which at the same time will generate a tortuous path enhancing barrier properties that are critical for end-user.

Mandala will be executed by a consortium of 12 institutions of five European countries, Italy, Norway, Greece, Croatia and Spain with a budget of over four million euros, co-financed by the Bio-Based Industries Joint Undertaking (BBI JU) under the European Union's Horizon 2020 Research and Innovation Program. The project started on 1 June 2019 and is expected to end on 30 November 2022.

More information available at: <https://cordis.europa.eu/project/rcn/222677/factsheet/en>



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Consortium partners:



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