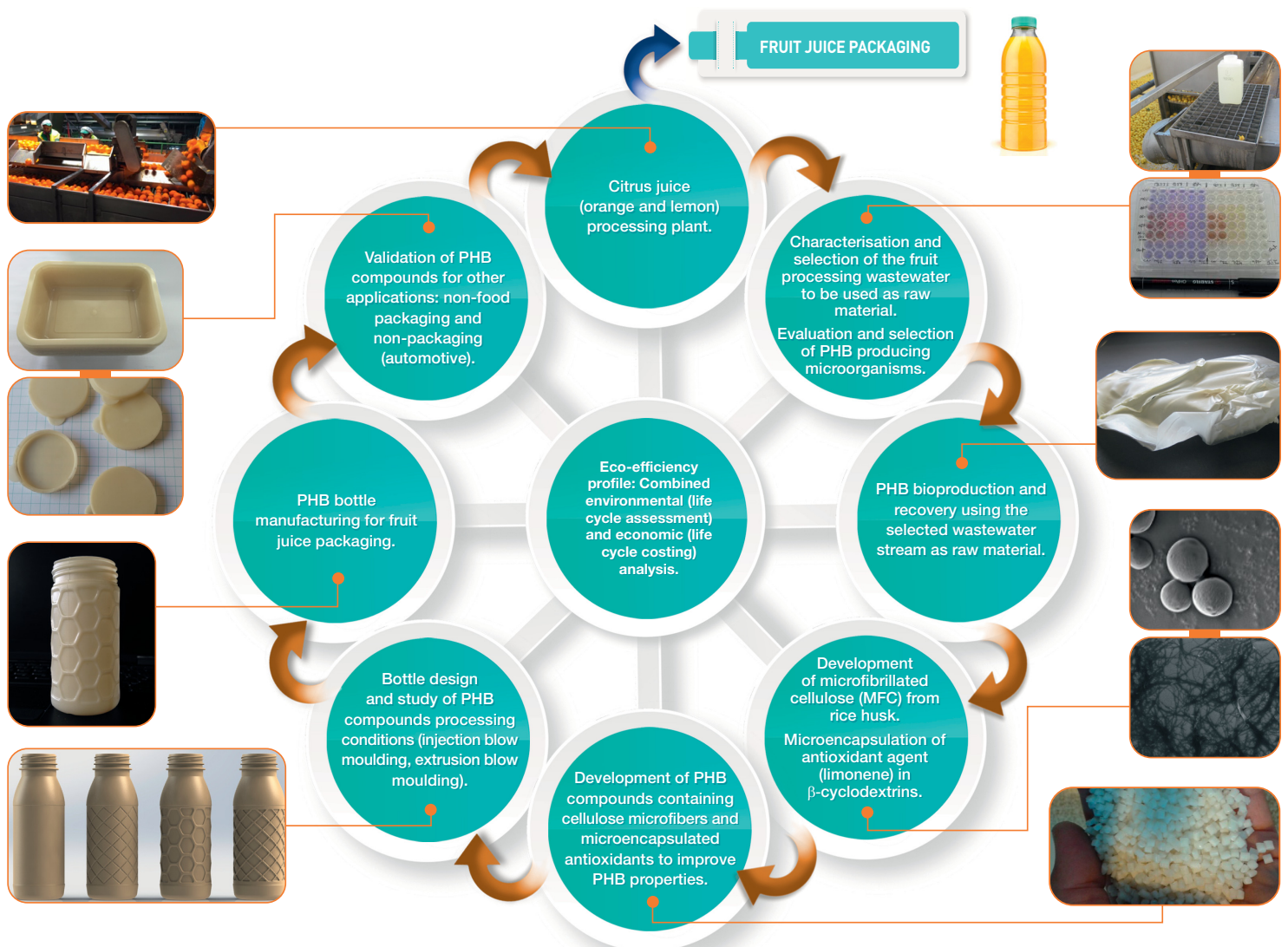


New sustainable, functionalized and competitive PHB material based in fruit-by products getting advanced solutions for packaging and non-packaging applications

PHBOTTLE project aims to produce a new packaging for fruit juices, which is biodegradable and has antioxidant properties; a packaging made from sugars and other residues rich in carbon, nitrogen and oxygen present in the wastewater from the fruit juice industry. The project applies the latest advances in microencapsulation, biotechnology and packaging technologies.

THE WASTEWATER GENERATOR BECOMES THE BENEFICIARY OF THE NEW PHB BOTTLE

Some microorganisms have converted organic residues from wastewater into a biodegradable polymeric material, the PHB (polyhydroxybutyrate). This biopolymer has been improved with incorporation of cellulose fibres and microencapsulated antioxidants. The improved PHB has been processed to produce bottles for packaging the fruit juice from the wastewater generator industry.



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