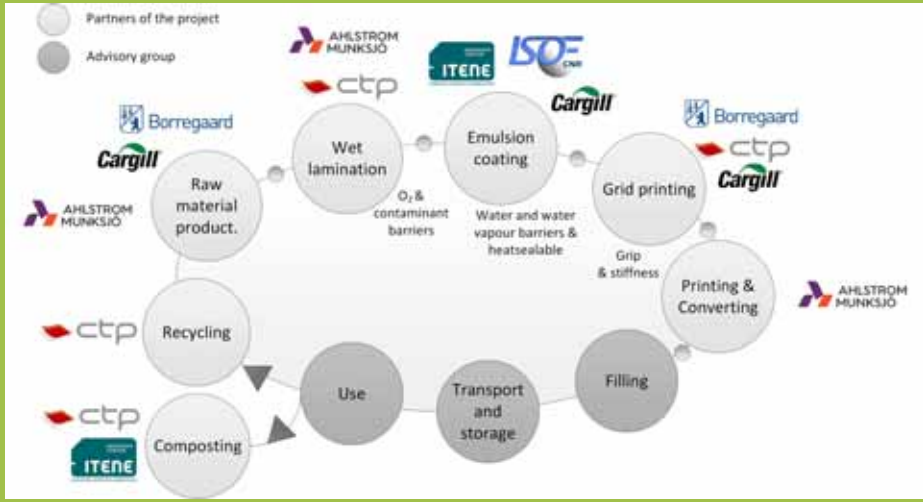
Nowadays, end market users expect advanced, user friendly packaging with added functionalities to help increase the shelf-life of food, and improved end-of-life options. SHERPACK's ambition is to develop a renewable, biodegradable, and recyclable flexible paper-based packaging material to replace plastics or aluminium foil currently used on the market to manufacture Form Fill Seal packaging. This material will be easily converted by heat-sealing and folding, and benefit from improved stiffness and grip.



To reach these goals, the flexible packaging material developed in SHERPACK will rely on three major innovations that will be assembled to form two proofs of concept. These are: wet-lamination of a thin layer of fibre specialty on the cellulosic substrate, formulation and coating of a biodegradable polymer waterborne emulsion, and specific design, formulation and printing of a polysaccharides grid to improve the grip and stiffness.

As SHERPACK covers the whole value chain, an advisory group of industrialists will offer valuable input on constraints such as packaging converting, transportation and store restocking. Last but not least, dissemination and training activities are also planned, in order to maximise the impact of the project, to ensure that knowledge is well transferred and that the innovations developed in SHERPACK spread well beyond the project.

sherpack

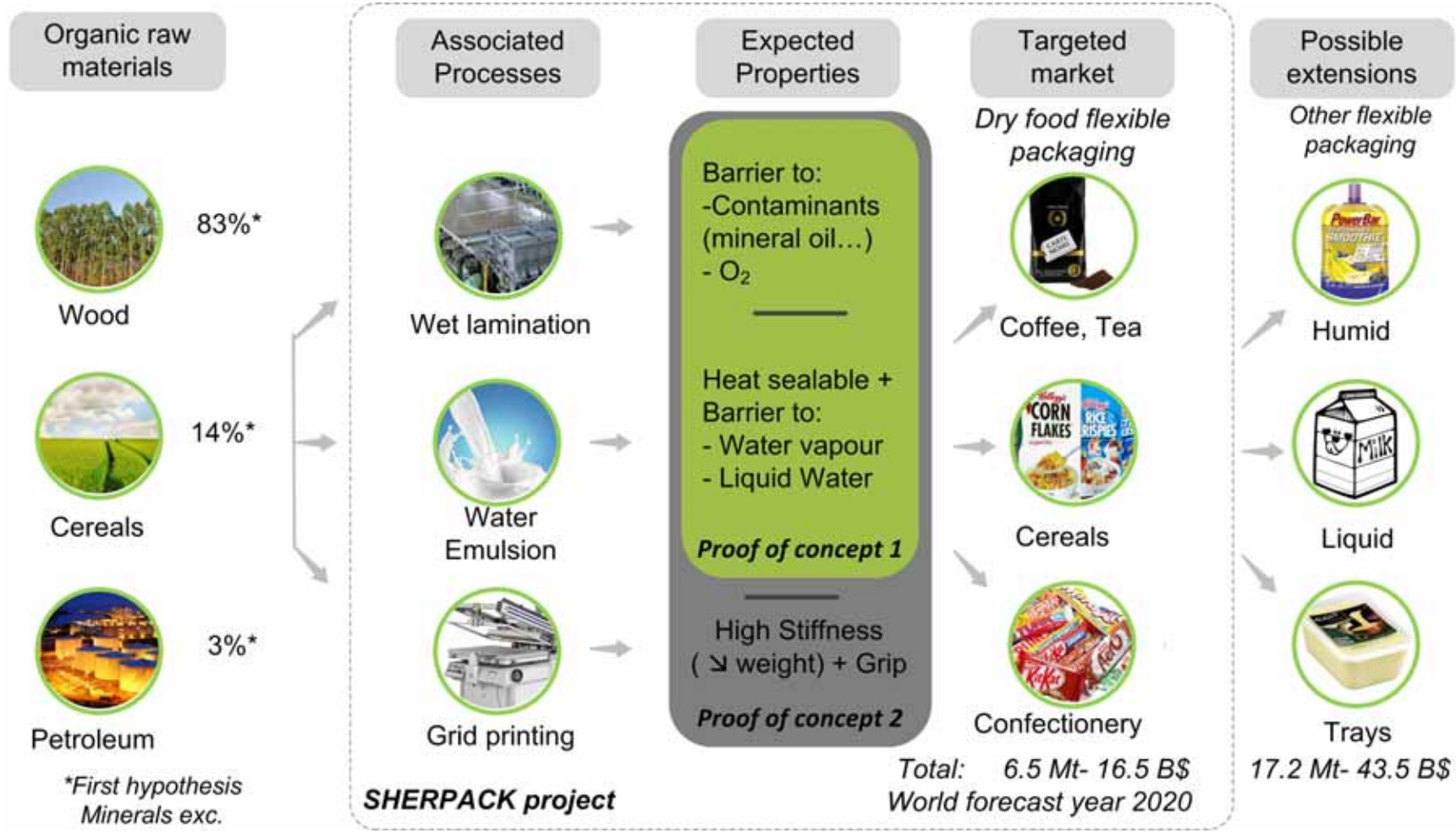
www.sherpack.eu

Six European partners together to imagine the packaging material of the future

For more information please contact Sherpack Coordination
Caroline Locre: +33 4 76 15 40 39
Sandrine Pappini: +33 4 76 15 40 83 / *communication@webCTP.com*

Bio-based Industries Consortium
Horizon 2020 European Union Funding for Research & Innovation
BBI JU

Innovative structured polysaccharides-based materials for recyclable and biodegradable flexible packaging



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