

RAIZ



Forest and Paper Research Institute

TECHNOLOGICAL
SCOUTING NEWSLETTER

May 2022

Highlights

- The packaging segment continues to be of major interest, particularly within the molded pulp segment, with the development of paper based bottles, the operation start of new production sites and projects for novel water and grease barriers solutions



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Services Provided by RAIZ Technological Scouting:

Technological Scouting Newsletter (monthly)

Technological Scouting On Demand (specific technological issues, upon request)

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START-UP OF THE MONTH



Dolea is a Finnish startup producing recyclable and biodegradable straws, which contain no additional chemicals such as glue. Recyclable as paper waste, Dolea's straws are repulpable and reusable, and suitable for all drinks, including hot drinks and alcoholic beverages.

Dolea additionally manufactures patented machinery for the straw production.

Read more ➤ [dolea](#)



PACKAGING



Pulpex

Heinz & Pulpex: new paper based ketchup bottle

The Kraft Heinz Company has announced plans to partner with Pulpex to develop a prototype paper-based bottle for its HEINZ Tomato Ketchup range. The paper-based bottle is planned to be renewable and recyclable and made from 100 % sustainably sourced wood pulp. They plan to eventually test it with consumers and then roll it out to the marketplace.

Read more ➤ [Pulpex](#)

● Technological
● Product Development



Metsä

Metsä & Valmet: 3D fibre product demo plant is now operating

At 2020, Metsä Group's innovation company Metsä Spring and Valmet announced investing a total of 20 million euros in a demo plant for 3D fibre products. The produced molded fibre-based packaging is expected to replace plastic in food packaging. The companies have now announced that the operations at the demo plant have begun, with a testing and development phase that will last a few years.

Read more ➤ [Metsa](#)

● Technological
● Product Development

PACKAGING



Smurfit Kappa



Smurfit Kappa : new water-resistant paper

Smurfit Kappa has developed an innovative and sustainable water-resistant paper, the AquaStop™. The AquaStop™ paper is water-resistant due to a special coating which is added to it during the manufacturing process. The coating does not compromise the recyclability of the product, as it can be recycled in the same way as standard paper-based packaging.

Read more > [Smurfit Kappa](#)

● Technological
● Product Development



Pulpac



PulPac, Nordic barrier coating & OrganoClick : financial support for the development of water and grease barriers

PulPac, Nordic Barrier Coating and OrganoClick have been granted financial support for the development of 100 % biobased, plastic- and PFAS-free barriers and materials for demanding food packaging applications. The development project is funded from the Swedish strategic innovation program BioInnovation financed by the Swedish innovation agency Vinnova. The project will focused on the integration of commercially scalable environmentally friendly water and/or grease resistant barriers.

Read more > [Pulpac](#)

● Technological
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PACKAGING



Stora Enso

Stora Enso: new AvantForte WhiteTop kraftliner commercially available

Stora Enso has announced that its new 100% virgin fiber-based kraftliner, the AvantForte WhiteTop, is now commercially available. The white top kraftliner has applications in demanding premium segments, such as fresh food, e-commerce, and shelf-ready packaging. The new product has Stora Enso's patent-pending technology, Tri-Ply™, with three fiber layers to maximize its strength and for helping converters and brand owners to use less material than with traditional kraftliners.

Read more ➤ [Stora Enso](#)

● Technological
● Product Development



Walki

Walki & Dolea: new recyclable and printable paper straws

Walki, an international packaging manufacturing group, has invested in the Finnish start-up Dolea, for the production of recyclable and printable paper straws in Ylöjärvi, Finland and in Garstang in the UK.

Dolea has developed a recyclable and durable fibre-based straw, that uses 25% less material and stays intact in all sorts of drinks including hot beverages. Dolea has also developed a proprietary machine technology for producing the straws in an efficient manner that also enables the manufacturing of printed straws based on end customers design.

Read more ➤ [Walki](#)

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PACKAGING



Pulpac



BIO-LUTIONS & PULPAC: large-scale dry molded fiber production

BIO-LUTIONS is a German based startup which has developed a patented method for mechanically converting agricultural residues into self-binding and durable fibcro® natural fibers, without the need for binding agents or chemical cellulose isolation, as the fiber itself is used. From these fibers and using Pulpac's Dry Moulding Technology, BIO-LUTIONS will produce a variety of sustainable single-use disposable products such as service food items (cutlery and tableware) as well as protein, fruit and vegetable packaging. The 2 companies have developed a Dry Molded Fiber production line, set to start production in the new BIO-LUTIONS factory in Schwedt/Oder, Germany, by the summer of 2022.

Read more > [Pulpac](#)

● Technological
● Product Development



Woody



Woody & Amerplast: alternatives to single-use plastic packaging

Woody, a Finnish technology company, and Amerplast, a sustainable packaging company, have commercialized a novel cellulose-based film made of 100% carbon-neutral and recyclable Woody® bio-based plastic. The Woody® film is an alternative solution to the traditional cellophane. The Woody® film can also prevent moisture condensation and preserve the quality of fresh food products for longer. In addition to food packaging, Woody® film can be used for labels and to wrap flowers and presents.

Read more > [Woody](#)

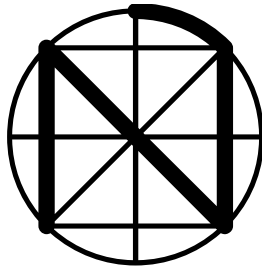
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