

RAIZ



Forest and Paper Research Institute

TECHNOLOGICAL
SCOUTING NEWSLETTER

May 2021

Highlights

- The packaging segment continues to be highlighted with new solutions presented by several start-ups and P&P companies for food, cosmetics and e-commerce packaging.



Contents

- _ Stora Enso & Pulpex: fiber-based bottles on industrial scale
- _ Paboco: new paper bottle prototype
- _ Sulapac: packaging for water-based formulations
- _ Paptic: new packaging grade for carrier bags and e-commerce mailers
- _ BillerudKorsnäs: collaboration for packaging paper tubes
- _ Dunn Paper: new sustainable coated paper
- _ Stora Enso: new lignin-based binder
- _ Spinnova & Suzano: wood spin scaling ambition

Services Provided by RAIZ Technological Scouting:

Technological Scouting Newsletter (monthly)

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

Industrial Property (IP) Survey (quarterly)

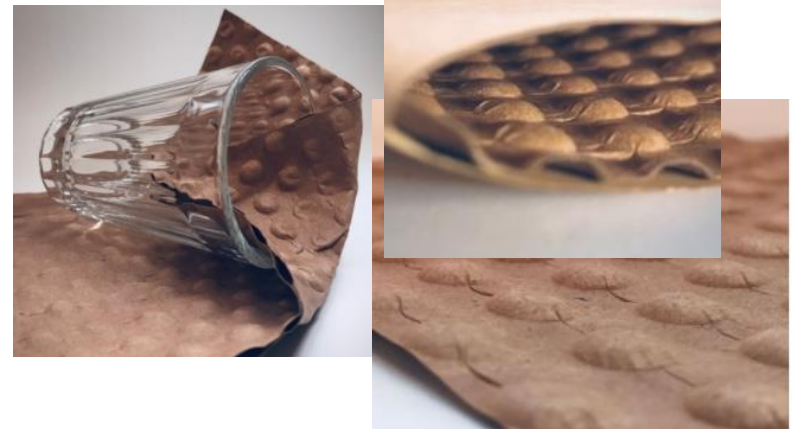
For further information please contact: mariana.oliveira@thenavigatorcompany.com

START-UP OF THE MONTH



Germany based Papair start-up has developed a paper bubble wrap made of 100% recycled paper which does not use any plastics or adhesives. The innovation high cushioning effect is created by the special geometric shape of the bubbles in combination with a two-layer processing of the paper. Several products have been developed by the team based on the paper bubble wrap: the PapairWrap, the PapairBag and the PapairBox. The team has recently secured a 10.000 € voucher for the services of the German Papiertechnische Stiftung (PTS) Research Center for helping accelerating the product development process.

Read more > [Papair](#) | [Video](#)



PACKAGING



Cision

Stora Enso & Pulpex: fiber-based bottles on industrial scale

Pulpex, a new sustainable packaging technology company, has developed a patented, “first of its kind” pulp packaging solution and process involving moldable pulp.

Now the company is collaborating with Stora Enso for the large-scale industrial production of renewable and recyclable paper bottles and containers, with applications from homecare and personal care products to alcohol- and non-alcohol beverages and liquid foods.

Read more ➤ [Cision](#)

● Technological
● Product Development



Pabaco

Paboco: new paper bottle prototype

Previous TS Newsletters have been documenting several results by the joint venture Paboco, created for the development and scaling-up of the production of paper bottles. Now Paboco has announced a new important milestone: they have managed to fully integrate the barrier separating the liquid from the paper into the paper bottle itself. The plastic barrier film was replaced with a new fully integrated bio-based barrier coating. Paboco further states that, now that the barrier can be integrated, different biobased coatings, including bioplastics, will be tested.

Read more ➤ [Pabaco](#) | [paperadvance](#)

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PACKAGING



bioplasticsmagazine

Sulapac: packaging for water-based formulations

This Finish start-up has developed packaging products made from wood chips and natural and biodegradable binders. Now Sulapac has created jars for water-based cosmetics with a new bio-based barrier that biodegrades without leaving permanent microplastics behind.

This new range of products was already brought to market by international beauty packaging manufacturer and provider Quadpack through its 50ml cosmetics jars for skincare, anti-ageing treatments, moisturizing creams, haircare, lip care and men's grooming products.

Read more > [Sulapac](#) | [bioplasticsmagazine](#)

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Paptic

Paptic: new packaging grade for carrier bags and e-commerce mailers

Paptic has announced the development of a new packaging range for carrier bags and e-commerce mailers. The new 100 gsm packaging range is renewable and recyclable, combines strength (wet + tear), lightweight, softness, humidity and water resistance and foldability characteristics at a competitive price. It is said to be thicker and stronger than a 120gsm kraft paper and its unique two layers structure allows optimum printability and improved convertibility.

Read more > [packagingeurope](#) | [Paptic](#)

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PACKAGING



BillerudKorsnäs

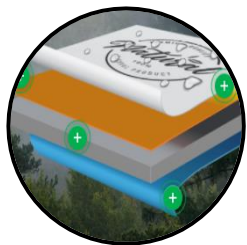
BillerudKorsnäs: collaboration for packaging paper tubes

Along with AISA, a Swiss plastic tube packaging producer, BillerudKorsnäs is using its 3D-formable paper FibreForm® for the development of tube packaging made of paper.

FibreForm can replace plastics on the tube shoulders and sleeves, allowing the tube to keep its shape when squeezed and without leaving any traces.

Read more > [BillerudKorsnäs](#)

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Dunn Paper

Dunn Paper: new sustainable coated paper

USA's Dunn Paper, a supplier of high performance, advanced paper and tissue for use in food, medical, and specialty markets, has launched BiOrigin™, a polyfluorocarbon-free product platform employing innovative barrier and containment technologies without the use of harmful chemicals. The new paper range combines Dunn's latest technology in barrier-coated paper with their state-of-the-art grease, moisture and oxygen barrier coatings. Mentioned applications are in the food service and retail/grocery industries, for products like sandwich wraps, clamshell paper food containers, stand up pouches and retail bags.

Read more > [bioriginpaper](#) | [Dunn Paper](#)

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BIOREFINERY



Stora Enso

Stora Enso: new lignin-based binder

Stora Enso is launching a new bio-based binder as an alternative for industries currently using fossil-based binders or hazardous chemicals. Free from formaldehyde and isocyanate, the new binder, NeoLigno™, is a lignin-based alternative for healthier indoor and working environments, made from Stora own lignin production. Expected applications are in particleboards and insulation materials used in building and construction industries.

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Spinnova

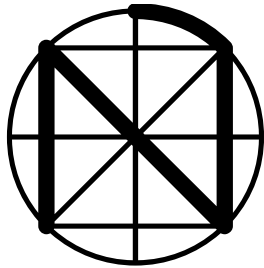
Spinnova & Suzano: wood spin scaling ambition

Finish start-up Spinnova, which has developed a patented technology for turning wood fibers directly into yarn is, along with Suzano, scaling up its commercial scale production facility in Finland to 1 million tonnes of annual capacity by 2031.

This step is considered to be a major pace towards a more sustainable textile industry.

Read more > [Spinnova](#)

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RAIZ – Forest and Paper Research Institute

Quinta de S. Francisco, Apartado 15, 3801-501 Eixo

Tel: +351 234 920 130, Fax: +351 234 931 359

mariana.oliveira@thenavigatorcompany.com

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