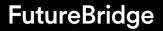
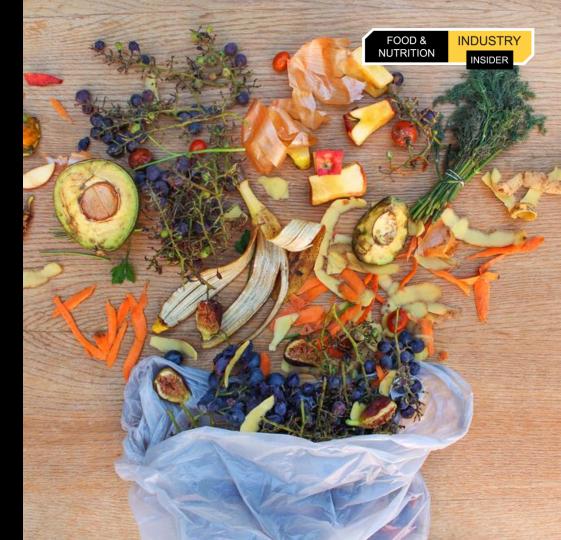
Food & Nutrition Insider

Special Bulletin: Upcycling Food Waste







Food waste & food loss occur along the entire food chain



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Start-ups innovating in the upcycling of food waste, collaboration is key to move forward in this field



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Greencovery: Helping food and beverage companies discover what's valuable in their waste streams

Country: Netherlands

Funding: €85K

Technology: Greencovery have developed a new technology that helps food manufacturers recover valuable products from their side-streams



They will identify which products can be recovered from your side-streams and in which quantities.

JEE

trials to understand the recovery

process needed and make the

techno-economical analysis to

bring the products to market.

They will make the required



Greencovery will work with the client designing the industrial process and the required capacity to start production.

Waste Ingredient Discovery



Banana flavor (natural isoamyl acetate) is recovered from the side-stream of vinegar production, and their client is ready for the first commercialization batches



Organic and vegan ingredient for the **plant-based meat** industry, designed to **improve the texture** of these products

Explanatory Video







Creating sustainable packaging materials from food- and agri-waste is a growing segment in the industry

START-UPS INNOVATING WITH WASTE

)Apeel



Apeel uses materials that exist in the peels, seeds, and pulp of all fruits and vegetables to create a protective extra peel that seals moisture in and keeps oxygen out. This peel is tasteless, odorless, plant-based protection on the surface of fruits and vegetables.



W-Cycle, an Israeli food tech start-up has developed SupraPulp, plastic-free packaging made of sugar cane waste that is fully compostable, safe, yet durable enough to be used for greasy, wet, or hot food. SupraPulp is compostable, noncoated, toxin and metal free.

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CARGILL LINKS UP WITH VIRENT TO UPCYCLE **AGRI-WASTE**



The two companies are working together to evaluate the use of Cargill's corn dextrose as a feedstock for Virent's BioFarming technology, producing raw material for packaging solutions

MANGOMATERIALS[™]

Mango Materials' technology uses waste biogas (methane) to produce polyhydroxyalkanoate (PHA) powder, a biopolymer that is converted into a variety of eco-friendly, plastic products.



Varden has developed a process to take the waste material from sugarcane and convert it into a paper-like packaging product with the functional attributes of plastic.





Thank you

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