

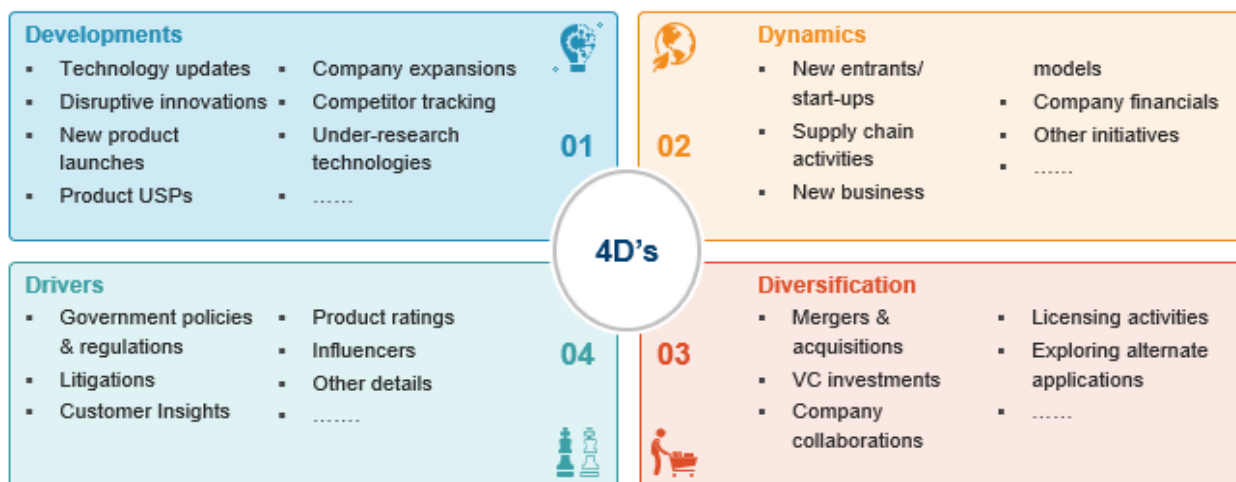
# INTELLOTRACKER

## Plant-based Renewable Materials for Packaging

April 2023



### ARANCA'S QUARTERLY SECTORIAL UPDATE ACROSS FOUR DIMENSIONS....





## DEVELOPMENTS

Technology/ Innovations	one•five	One • five in collaboration with Flinders University has developed a new seaweed-based coating material designed to replace conventional fossil-based plastic coatings used in grease-resistant fast-food packaging. Source: <a href="#">Mongabay News</a>
Technology/ Innovations		Researchers have developed plant-derived PLA-based flame-retardant bioplastics compatible with additive manufacturing and suitable for packaging applications and 3D printing. Source: <a href="#">3D Natives</a>
Technology/ Innovations		The researchers have developed a bioplastic sheet comprised of lignin, potato starch or plant-derived polyvinyl alcohol (PVA) and citric acid and prepared a non-soggy and biodegradable drinking straw out of it. Source: <a href="#">ACS</a>
Technology/ Innovations		The innovation focusses on developing plant-based compostable and biodegradable bioplastic resin and its manufacturing method. Source: <a href="#">Patent</a>
New Manufacturing Set-ups		Melodea inaugurated a new pilot center in Rehovot, equipped with advanced equipment and analytics tools to develop plant-based barrier coatings VBSel to line the packaging for cereals, biscuits, ice cream and other fresh foods. Source: <a href="#">Bakery &amp; Snacks</a>
New Manufacturing Set-ups		Braskem is exploring the opportunities of establishing world's 1st industrial plant to produce bio-polypropylene from bioethanol in the United States. Source: <a href="#">Plastic Today</a>
New Manufacturing Set-ups		SCG Chemicals Plc is preparing to jointly develop a bio-based ethylene factory in Thailand to produce plastic materials made from plants. Source: <a href="#">Bangkok Post</a>



## DIVERSIFICATION




VC Investments		The UKRI Smart Sustainable Plastic Packaging (SSPP) II competition has announced a funding of £3.2M for 17 innovative projects focusing on reuse, recycling and reduction of plastic in packaging. Source: <a href="#">Resource</a>
Company Collaboration		Jaguar The Fresh Company have eliminated plastic packaging from Jaguar's Chinese pomelo program by replacing individual wrapping on fruit with Citrosol's PlantSeal range of plant-based coatings. Source: <a href="#">Company news</a>
Company Collaboration		Dow has collaborated with beauty brand LVMH Beauty and will use its biobased SURLYN™ Ionomers to manufacture perfume caps and cosmetic cream jars. Source: <a href="#">Packaging Europe</a>
Company Collaboration		Spring Creek Quail Farms has collaborated with Good Natured Products and will use its plant-based PET for its line of naturally raised quail eggs to grocery stores in the U.S. and Canada, including Kroger, Costco, Loblaws and Sobeys. Source: <a href="#">Plastics Technology</a>
Company Collaboration		Origin Materials and Avantium have collaborated to develop FDCA by using Avantium's YXY® Technology, to convert derivatives of Origin's CMF into FDCA. Further, FDCA will be used to develop polymer polyethylene furanoate (PEF) for packaging applications. Source: <a href="#">Business Wire</a>
Company Collaboration		The Fashion For Good in collaboration with Levi Strauss and C & A has initiated a six- month pilot project to launch home compostable polymer bags that are used to protect and ship merchandise in the apparel and footwear sectors. Source: <a href="#">Sourcing Journal</a>



## DRIVERS

Government Policies		DEFRA confirmed the imposition of ban on single-use plastics such as plates, trays, bowls, cutlery, balloon sticks, and expanded and extruded polystyrene (EPS) food and beverage containers (including cups) in England w.e.f October 2023. Source: <a href="#">Resource</a>
Government Policies		France has imposed a ban on single-use plates, cups, and cutlery for meals consumed on-site in restaurants with 20 seats or more, in a bid to cut down on packaging waste w.e.f Jan 1st, 2023. Source: <a href="#">Impakter</a>
Government Policies		The Industry and Finance ministries in Thailand are using new corporate income tax reduction program to encourage businesses to use more biodegradable plastic products. Source: <a href="#">Bangkok Post</a>

## SOLUTION PORTFOLIO – TECHNOLOGY RESEARCH & ADVISORY

		
IP Strategy	Technology Intelligence	Growth & Strategy
<p>How best can we proactively manage and monetise our technical knowhow / intellectual property?</p>	<p>How best can we keep abreast of technology trends, competitor activity and headwinds / tailwinds in our domain?</p>	<p>Which technologies do we invest in? How do we ensure quick wins? Speed to market?</p>
<ul style="list-style-type: none"> <li>IP Portfolio Analysis</li> </ul>	<ul style="list-style-type: none"> <li>Competitor Benchmarking</li> </ul>	<ul style="list-style-type: none"> <li>R&amp;D Strategy Roadmaps</li> </ul>
<ul style="list-style-type: none"> <li>IP Monetisation</li> </ul>	<ul style="list-style-type: none"> <li>Tech / IP Landscapes</li> </ul>	<ul style="list-style-type: none"> <li>Technology Scouting</li> </ul>
<ul style="list-style-type: none"> <li>IP Valuation</li> </ul>	<ul style="list-style-type: none"> <li>Technology Watch</li> </ul>	<ul style="list-style-type: none"> <li>Open Innovation</li> </ul>
<ul style="list-style-type: none"> <li>Prior Art Searches</li> </ul>	<ul style="list-style-type: none"> <li>Market Analysis / Trends</li> </ul>	<ul style="list-style-type: none"> <li>Product Development</li> </ul>



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