BENORI

CASE STUDY

Scouting Unique Technologies across Five Areas of Interest in India

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OBJECTIVE AND SCOPE

The client, a leading FMCG firm, planned to accelerate innovation in India through collaborations with academia, start-ups, and small and SMEs, particularly in the areas of interest related to sustainability, digitalization, and ingredients. They sought Benori to:

- Identify technologies that possess distinctive and valuable strengths in India in the past two years
- Analyzing market dynamics, technologies, products, collaborations, and partnerships
- Scoping the current landscape for further development in specific fields





APPROACH

We conducted secondary research, covering patents, scientific literature, clinical trials, products (with or without scientific evidence), and news sources to identify relevant technologies. The findings were further examined to derive insights of their claims, potential applications, research popularity, technology readiness level (TRL), and partnerships.



METHODOLOGY







IMPACT

The research helped the client in:

- Identify key companies, academic projects, and SMEs fit for potential collaboration based on the client's area of interest through their technological offerings
- Identify the company TRL by classifying them as conceptual stage, development stage, or the commercial stage projects





SAMPLE OUTPUT

Area o	f Interes	st							
	Research or conceptual stage			totype or development s	tage	Deployment and commercial stage			
Technologies		1-3			4-6			7-9	
	7		· · · · · · · · · · · · · · · · · · ·	7					
Waste/residue -based packaging	Academia			Academia		Startup/SME		Startup/SME	
Water Management Device	Academia			Academia		Startup/SME			
Sustainable alternative to raw material	Academia			Academia				Startup/SMI	
Microbe based packaging	Academia								
Reusable Products				Academia				Startup/SME	
Waste Utilization as.Renewable . Sources	Academia								
Devices/Products Based on Refilling				Academia		Startup/SME			
Paper-based packaging								Startup/SME	

		Technologies in-depth Analysis										
	Relevant Technologies- Identified sustainability technolog		summarized in detail below	v based on the selection done by P&G.	Back to Table of Contents							
	S.Mo. Company/Attiliation	Technology Group	Product/ Technology	Technology Summary	Collaboration/Partners Readiness	Application	Source 🗸 Start L 🔻		ors (Identified in Patents) 👻 Contact Nar			
1	1	Paper Based Packaging		Superplume has announced eco-friendly packaging with zero plastic	7-9	Fruit packaging	Yes					
1	2	Microbe Based	PHB based degradable	for their farm fresh grapes Polyhydroxy butyrate (PHB)-Based Biodegradable Polymer from	1-3			Yes				
	3	Packaging	nlastic PHB based degradable	Aeromyces indicus which. Enhanced Production. Characterization Characterization and Process Optimization for Enhanced Production	1-5		- <u></u>	Yes	0 0 0 1 ·····			
1			nlastic	of Polyhydraw huturate (PHR)-Based Biodegradable Polymer from Eco friendly PHB from pseudomonas aeruginosa utilizing chicken	1-3			Yes	the strategy of the strategy			
	•		bioplastics	feather waste				165				
	5	Waste/Residue based packaging	100% compostable delivery containers	Yash Pakka has come up with an initiative called Chuk, which makes a 100% compostable food packaging container. They are	7-9	Food packaging	Yes					
	6	packaging	Antimicrobial	Production of nanocellulose from corn husk for the development of	1-3			Yes				
	7		biodegradable Sustainable materials	antimicrohial hindegradable narkaging film ZeroPlast Labs is actively working on developing sustainable	7-9	Sustainable packaging	Yes		0 0 00 <u>2 11 11 1</u>			
	8		to replace plastics Cellulose wrapper for	materials to replace plastics. ZeroPlast collects and unovcles. Valorization of fruit peel bloactive into green synthesized silver	1-3	Bread Packaging		Yes				
			shelf-life extension of	nanoparticles to modify cellulose wrapper for shelf-life extension		- man and a second						
				Food packaging material with use of only agricultural waste like com cob or encoput husk	1-3	Food packaging		Yes				
	10		A novel bio-degradable wrapping paper and	Biodegradable wrapping paper from paddy straw from agricultural waste impregnated with seeds	1-3	Food packaging		Yes				
	11		Organic gelatin-coated	Organic gelatin-coated ZnNPs for the production of biodegradable	1-3			Yes				
1	12			hiopolymer films. The fish waste cartilate relatin-coated 7nNPs- The invention offers a method to produce 100% biodegradable	4-6	Packaging		Yes				
	15		Extraction of	bioplastic using agricultural waste and gelatin-based film. Sodium. Extraction of Microcrystalline Cellulose and Silica from Agriculture	1-5			Yes	· · · · · · · · · · · · · · · · · · ·			
1	14		Mirmovstalline Bread packaging	Waste and its Application in Sunthesis of Wheat Gluten and Fish Synthesis of lignin from waste leaves and its potential application	1-3	Bread Packaging		Yes	I and I and I and I and I and I and I			
			and the second sec	for bread nackaging: A waste valorization approach The current		bread Packaging						
	15		Active packaging film from sodium	Development of active packaging film from sodium algorate/carboxymethyl cellulose containing shallot waste extracts	1-5			Yes				
	16		Biodegradable packaging material	The utilization of Azadirachtin, a natural microbial/insect growth disputor (IGD) derived from neem extract, is incorporated in	1-3	Packaging		Yes				
1	17		Solid waste-based	Influence of preparation techniques of cellulose II nanocrystals as	1-3			Yes				
1	18		Biodegradable nano	reinforcement for tanners solid waste-based relatin composite Biodegradable nanocomposite reinforced with cellulose nanofiber	1-3	Food packaging		Yes				
	19		composite reinforced A bio-degradable paper	from coconut industry waste for replacing synthetic plastic food Biodegradable paper cup from banana peel without diminishing	4-6	Beverage containers	Yes					
	20		rup consisting of an in-	the taste and quality. The process may comprise adding a flavouring Plestizon has introduced a revolutionary approach to food	7-9	Food packaging	Yes					
			narkaging as	parkaging services in India by offering biodegradable packaging		rood packaging	Tes					
	21		Synthesis method of bioplastic materials	This invention resides within the field of bio-plastics and specifically focuses on a synthesis method for producine	4-6			Yes				
	22			The present invention discloses a method for synthesizing bioplastics using peel estracts from Citrus X Sinensis, Musa, and	1-3			Yes				
	25		Method and system for	This method involves preprocessing biodegradable waste,	1-5			Ves	1			
	24		extraction a cellulosic Method of preparing	hydrolyzing it with mineral acids under natural weathering. Preparing biodegradable film using mango kernel.	4-6	Packaging		Yes				
			bio-degradable film									

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