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Journalist:	Namrata Singh	Page No:	11

## **HUL taps AI to predict** trends & turnovers

## **FMCG Co's Innovation Hub Looks To Spot Big** Opportunities Before They Turn Mainstream

Namrata.Singh

In a different era, Steve Jobs famously said "figu-re out what customers are going to want before they do", and revolutionised the

Apple products.

Now, in an AI universe, an FMCG company is reading yothat you would want, and manufacturing it, without the need perhaps for factory trials.

ed pernapsior factory trials.

From picking up a signal
on a developing trend to the
inception of an idea to producing it, Hindustan Unilever (HUL) is using its agile
innovation hub to bring gode straight into consumer ods straight into consumer homes. According to HUL, the new age technology is not only cutting down the du-ration of the manufacturing process but also helping in

process but also helping in predicting the expected turnover from the product.

At HUL's head office in Mumbai, its agile innovation hub (AI hub) pivots around three axes—consumer, customer and operations. The hub, the facilities of which are also the facilities of which are also accessible by all locations in Unilever across its global markets, is part of the company's 'Reimagine HUL' jour-ney. It falls under the consu-mer ecosystem and is integra-ted into the company's busi-

ted into the company's business process and category innovation programmes.

Once consumer signals are picked up at the AI hub, they are quickly assessed for their merit in being converted into product ideas, said Vibhav Sanzgiri, executive director (R&D), HUL, and head, global skin cleansing R&D. "This AI-led digital transformation is an enabler. The nemation is an enabler. The ne mation is an enabler. The need has always been there. The approach has evolved, and we realise that in today's world, doing more of the same doesn't help, and therefore, we use data, technology, automation, and artificial intelligence to fast, track the product in ce to fast-track the product jo-

ce to fast-track the product jo-urney," he added.

But there was one pro-blem. The data available at one's fingertips is enormo-us. HUL realised the need for sense-making to cut through the noise. "Our teams filter the noise. "Our teams filter through the noise to stay on top of relevant data. We have created a pathway that links up the disjointed datasets to make sense. We then put an Albased analytical layer on AI-based analytical layer on top, creating value-added da-ta that helps teams unlock trends," said Sanzgiri.

If one has to truly predict the future, he added, one ne-eds the tools to do that. "By using AI and machine learning, we generate hundreds of concept ideas, beyond which a combination of machine and human intelligen chine and human intelligen-ce draws a comparison bet-ween past learnings on inno-vations by the company and competitors. We then fine-tune it to a list of smaller in-novations before taking con-sumer response through ra-pid always-on digital panels pid always-on digital panels to understand their purcha-se intent," said Sanzgiri. This helps HUL in targe-

ting the biggest opportunities before they become mainstream. "We can predict the expected turnover of a specific product if we were

in-house panel of sensory exmers who are on speed dial across India. After the formulations are perfected, HUL's AMC, which is also located at the headquarters, simulates manufacturing processes at the company's digital factori-es to rapidly scale up produc-tion without the need for actual factory trials. It is the only second such centre for Unilever globally and the first focused on soap bars.

The next part is scaling up the technology into something marketable. "We see the AMC as part of our 'labs of the future'. Once the scale-up happens, we pass them on to our nano and digital factori-es. This way, the 'always on' process keeps feeding into

## **CONSUMER SIGNALS TO PRODUCT IDEAS**

- > HUL is using an 'agile innovation (AI) hub' to shorten the manufacturing process & help predict the turnover from a product
- > Once consumer signals are picked up, they are assessed for their merit in being converted into product ideas
- Before producing these innovations, augmented reality is used to visualise packs on retail shelves and in consumer homes
- This helps HUL in targeting the biggest opportunities before they become mainstream
- Fragrance selection time has been reduced to hours

using a robot-assisted library with over 2,000 fragrances Digital design and 3D printing too are used for rapid prototyping and pack testing

HUL experiments with more products at the same time. It launched over 20 innovations, including certain direct-to-consumer (D2C) brands, last year alone — using its innovation hub capabilities

to take it to full fruition. We can map out the future opportunities five years down the line," he said.
"Through our interconnected network of next-gen capabilities, such as the AI hub and the advanced manufacturing centre (AMC), we have been successful in bringing down GTM (go to market) lead times by a third. In some cases, innovations hit the marketplace in a matter of weeks and months ver-

ter of weeks and months ver-sus years," said Sanzgiri. For instance, fragrance selection time has been reduced to hours using an in-house robot-assisted library with over 2,000 fragrances. On the other hand, digital design and 3D printing are used for rapid

prototyping and pack testing.

Before beginning the process of producing these innovations, augmented reality is used to visualise packs on re-tail shelves and in consumer homes. To gauge consumer response, HUL works with an this virtuous cycle of innova

this virtuous cycle of inmovation, scale-up, and digital operations," said Sanzgiri.
Scaling up a product—from a few grams in a laboratory beaker to a few kilos or tonnes in a factory—can be complex. "The ambition behind some of these digital and automation capabilities is how do we avoid factory trials altogether. The purpose of doaltogether. The purpose of do-ing that is to speed up the inno-vation process. What matters

vation process. What matters to consumers is whether the product meets their needs, delights them, and is available at the right price point," he said.

HUL now experiments with more products at the same time. It has launched over 20 innovations and new over 20 innovations and new launches, including certain direct-to-consumer (D2C) brands, in the last year alone. Additionally, multiple claims, e-commerce compliance of its packs, and key savings projects — all happened using AI hub capabilities in the past 12 months. es in the past 12 months.

