

Effershine

Effervescent tablets are especially unstable during production and storage due to its chemical composition, requiring both considerable energy during manufacturing to manage temperature and humidity, and a large volume of plastic waste during storage. Professor Anant Paradkar, with the support of the Healthcare Innovations Group and UKRI (UK Research and Innovation), aimed to solve this environmental and manufacturing problem.



ACTION & APPROACH

Beginning with a small £30,000 grant, the project was also funded by two Knowledge Transfer Partnerships and a Smart Grant.

The technical breakthrough of crystalline engineering technology from the University of Bradford has allowed for significant positive impacts across a number of markets.

IMPACT

Working with the Professor Anant Paradkar at the University of Bradford, Healthcare Innovations and Octopoda Innovations have enabled the expansion from lab-scale to market-scale production of this innovative technology.

In practical terms, this will save vast amounts of energy and carbon emissions during manufacturing and transport, reduces the amount of plastic packaging required for products, and significantly reduces the sodium content of supplements (potentially leading to better health outcomes).

QUOTES

“This is a major achievement for our university that has global significance in terms of turning the tide on the use of single-use plastics, and reducing the carbon footprint of products, both during manufacturing and transportation. It also enables manufacturers to drastically reduce the salt content of certain products.” Dr Anant Paradkar, Director of Centre of Pharmaceuticals Engineering (CEPS), University of Bradford.

“After five years of development we are thankful and appreciative of the support of Innovate UK, Professor Paradkar, the University of Bradford and the Health Innovations Group, and look forward to continuing to work with our partners to bring this technology to market.” Richard Doyle, Managing Director of Octopoda Innovations.

SOURCES

[University of Bradford Case Study - Effershine](#)

[LAward winning invention will do away with millions of single-use plastic bottles & cut Co2 emissions](#)

