

RECYCLING & WASTE MANAGEMENT

March 05-06, 2018 | London, UK

Application of internet of things for food waste reduction in food supply chain

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The food sector is increasingly under pressure to improve its resource efficiency, with particular areas of focus on reduction of food waste, energy and water consumption. In order to achieve this, it is vital for the Food Supply Chain (FSC) actors to share and exchange information in a timely manner. The technology and tools associated with the concept Internet of Things (IoT) is capable of supporting numerous tasks in real-time such as tracking, locating, monitoring, measuring, analyzing, planning and managing and enhancing efficiency and transparency within FSCs. In this context, the application of IoT for reduction of

food waste is garnering lots of attention from researchers, politicians, and industrialists to achieve food security goals. But, the traditional methods of physically monitoring the food wastes in food supply chain is labour intensive, complex, and is often time consuming and costly. Therefore, there is a need to explore an innovative approach based on an automated real-time system to monitor and analyze the food waste and incorporate it in strategic planning of FSC which enables management to take better decisions and in turn make supply chain more sustainable and resilient.

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