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**IF I COULD INVENT SOMETHING NEW**

Food waste is a serious problem which is significant in both developing and developed country. It is suddening that this has really affected the economy of so many countries leading to economic inefficiency and environmental degradation. This has led me to think of inventing something that manages food and reduce waste globally. According to food and Agriculture organization of the United Nations, almost one third of food produced for human consumption is wasted per year. The wastage occurs from the point of production and distribution to consumption and disposal. This is a very wide way in which food is opened to wastage.

The device I want to invent is a smart, food management system. It is designed to be usable in households, restaurants, stores and where food items are being manufactured. The device will contain a combination of parts which serves as a means of communication between human being and the device, and a connection to a platform that stores information.

Firstly, sensors which makes up the system are constituted and placed in a refrigerator and food storage areas to monitor the food items collected into the food storage devices at different time. The sensors will detect the temperature of the food, when it expires and other factors necessary to ensure the food is properly stored and parent spoilage. The system will be connected to the uses phone to alert them about the condition of the stored food, notifying them before the food get spoilt. It also indicates the period of expiration of the food with the use of artificial intelligence. The system will suggest meals to purchase based on the individuals habit it has stored overtime. It could also suggest meal plans based on the food types present in the storage areas. All these prevents over purchasing and frequent waste by serving as a guide. In some areas, excess food can be donated, the systems gives information about these food items which takes longer time than usual in some storage areas. Through partnerships with food bank and non-profit organization, users who identify excess food with the system will find it easy to tackle food insecurity in local communities. This will also help those involving in business. To know how to go about their activities most especially the demand and supply chain in order to avoid food wastage.

The introduction of food waste management system which helps people and business owners to make proper decisions about food consumption and waste will lead to leaving a sustainable life. With these, food will be valued, resources are managed and everyone has access to nutritious meals.