



**PROPOSAL TO REDUCE FOOD
WASTE – NATIONAL INNOVATION
CHALLENGE (MRC)**

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INTRODUCTION

MRC- NATIONAL INNOVATION CHALLENGE 2017

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AIM



To inculcate and nurture an innovation culture amongst the Mauritian population whilst finding practical innovative solution to common life problems

THEMATIC PROBLEM AREAS

- Traffic & Road safety
- Crime & Violence
- Disaster management
- Public transportation
- **Food Security, safety & wastage**

INTRODUCTION

- The food waste issue is an emerging concern that has gone unnoticed for many years in Mauritius.
- Out of a total food production of 2,419,685 tons including imports, 5281 tons are wasted annually which is approximately 1.73 % (Government of Mauritius *PQ– B/445, 2016*)
- The island being a Small Island Developing State (SIDS) is known to be a net food importing country as it does not have the necessary resources to raise its food security level.

THE PROBLEM IN MAURITIUS I

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The problem of food waste in Mauritius is related to the following aspects:

- Economic
- Social
- Environment

The island faces peaks in food prices and frequent shortage in certain basic food commodities as it relies highly on the International

Despite that there are no cases of extreme poverty, several sources reported cases of poverty whereby many families do not have enough food to feed themselves in a healthy and nutritious way

The CSO of Mauritius revealed that there has been a sustained increase in the production of methane gas from 33.70 thousand tonnes in 2006 to 40.04 thousand tonnes in 2015 (CSO,2016)

THE PROBLEM IN MAURITIUS II

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- **Modernization**
- **Increasing population**
- **Changes in consumption patterns**
- **Increase in the demand of food**

Increase in the importation of food to meet the need of the population and this increase in food on the Mauritian Market can equate to an increase in the generation of food waste if no proper mechanism is put in place to manage the food being imported and marketed.

The Unique landfill of the island is reaching its maximum capacity

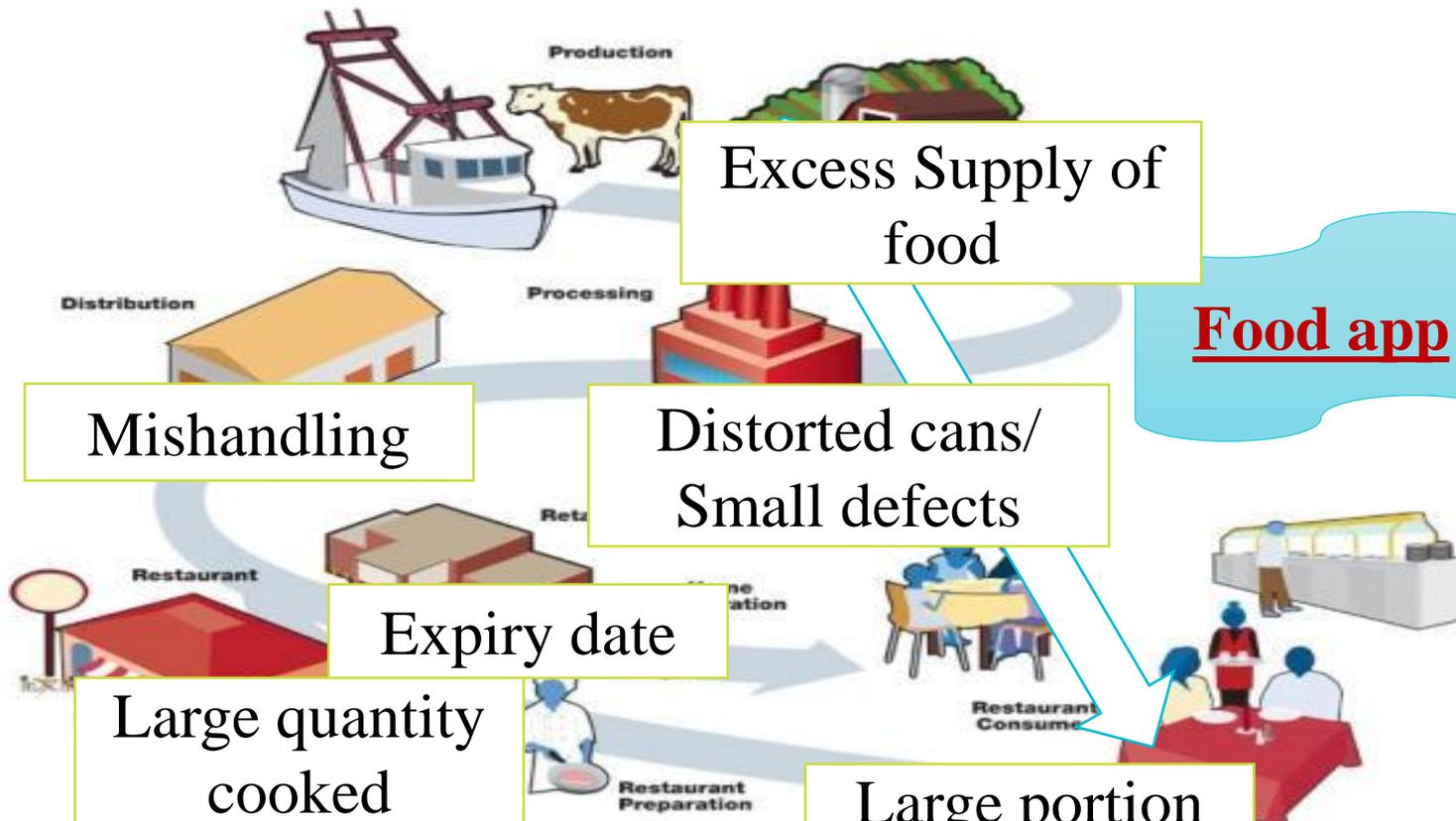
PROPOSED FOOD

APP

FOOD SUPPLY CHAIN

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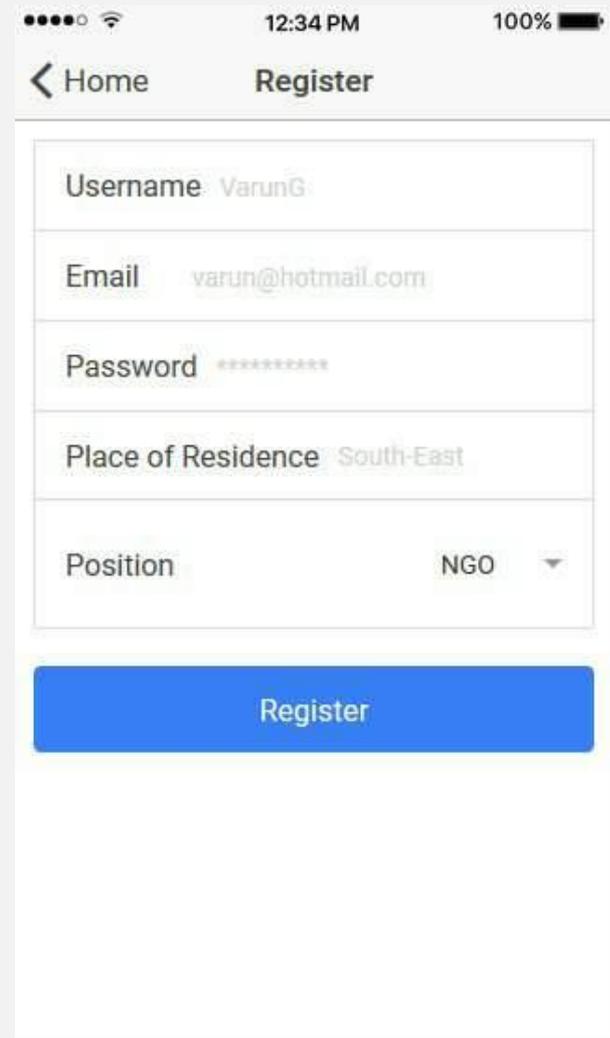
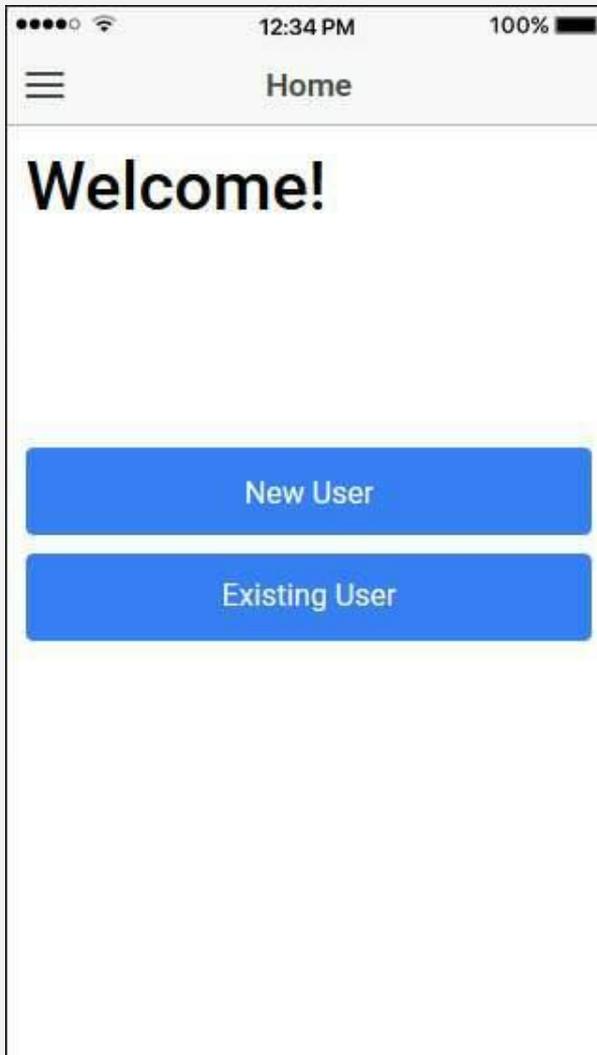
The Food Production Chain



Source: Local Nexus Network, 2016

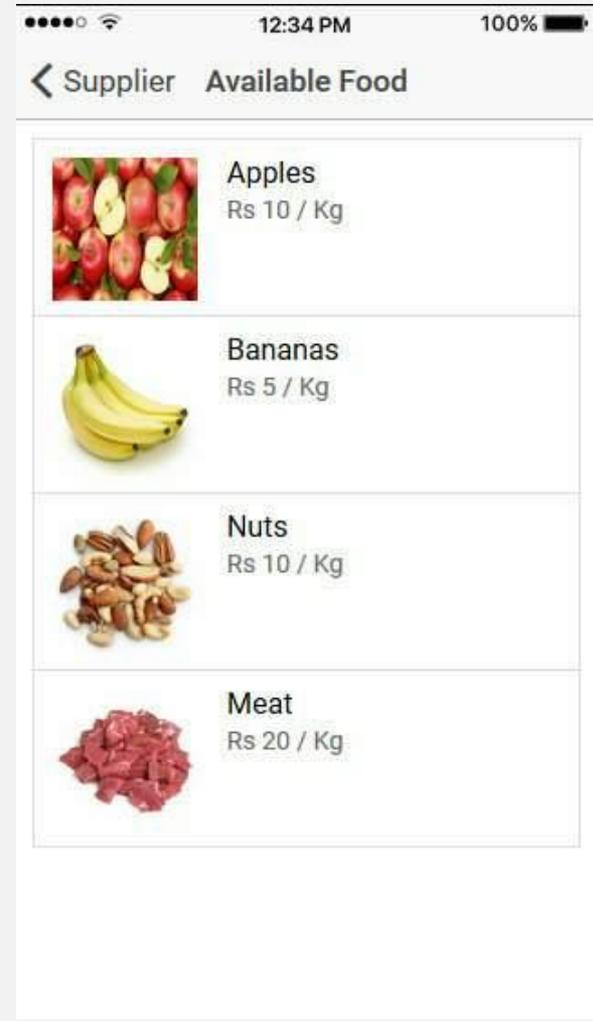
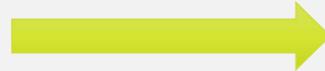
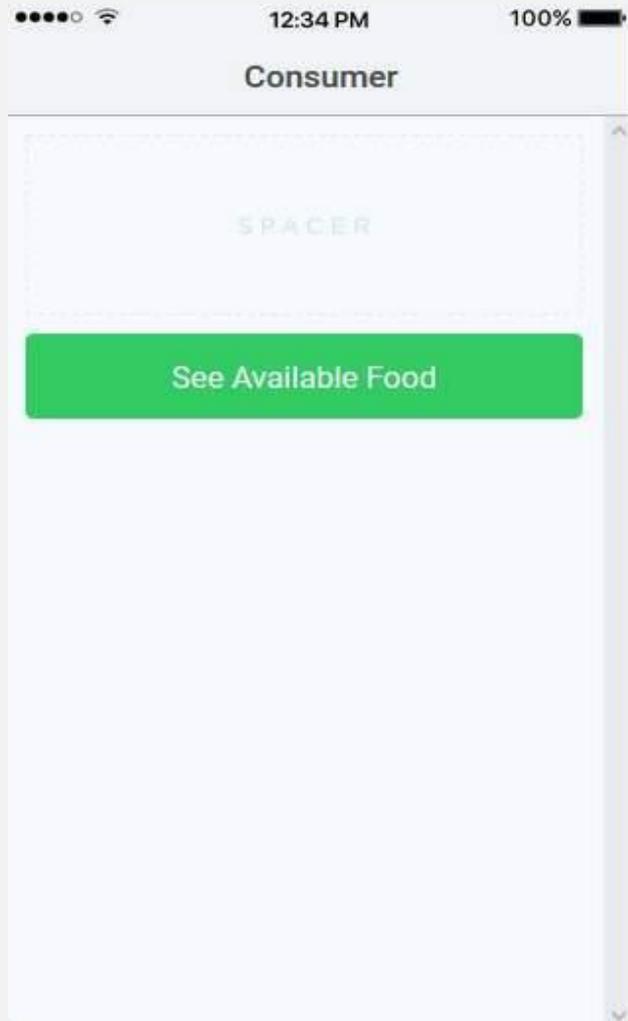
PROCESS I

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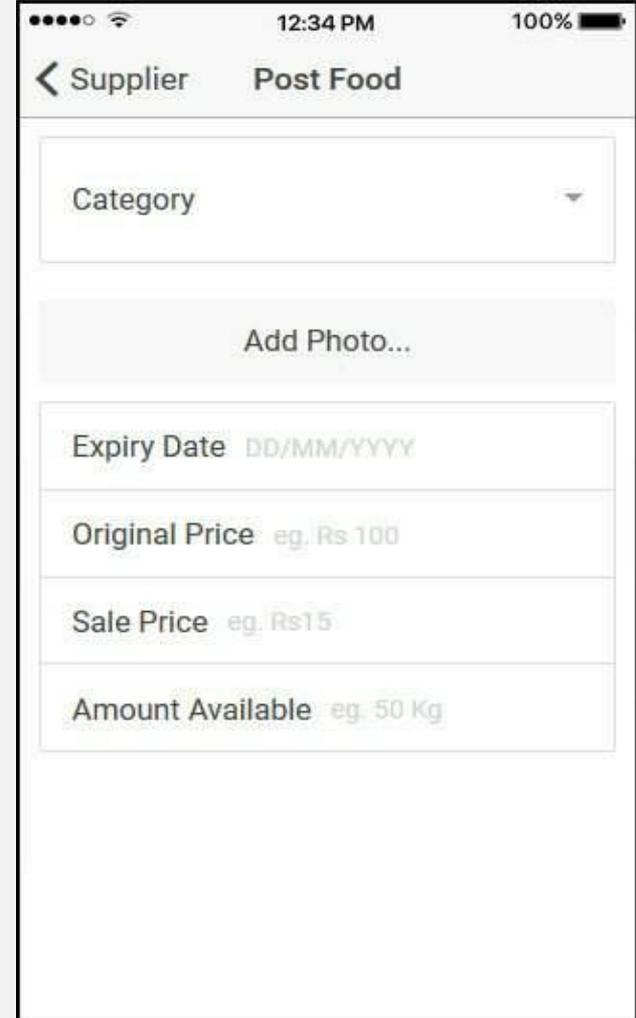
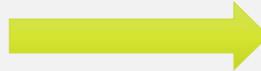
PROCESS I

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PROCESS I

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**FOOD APPS IN
OTHER
COUNTRIES**

Food Supply Chain

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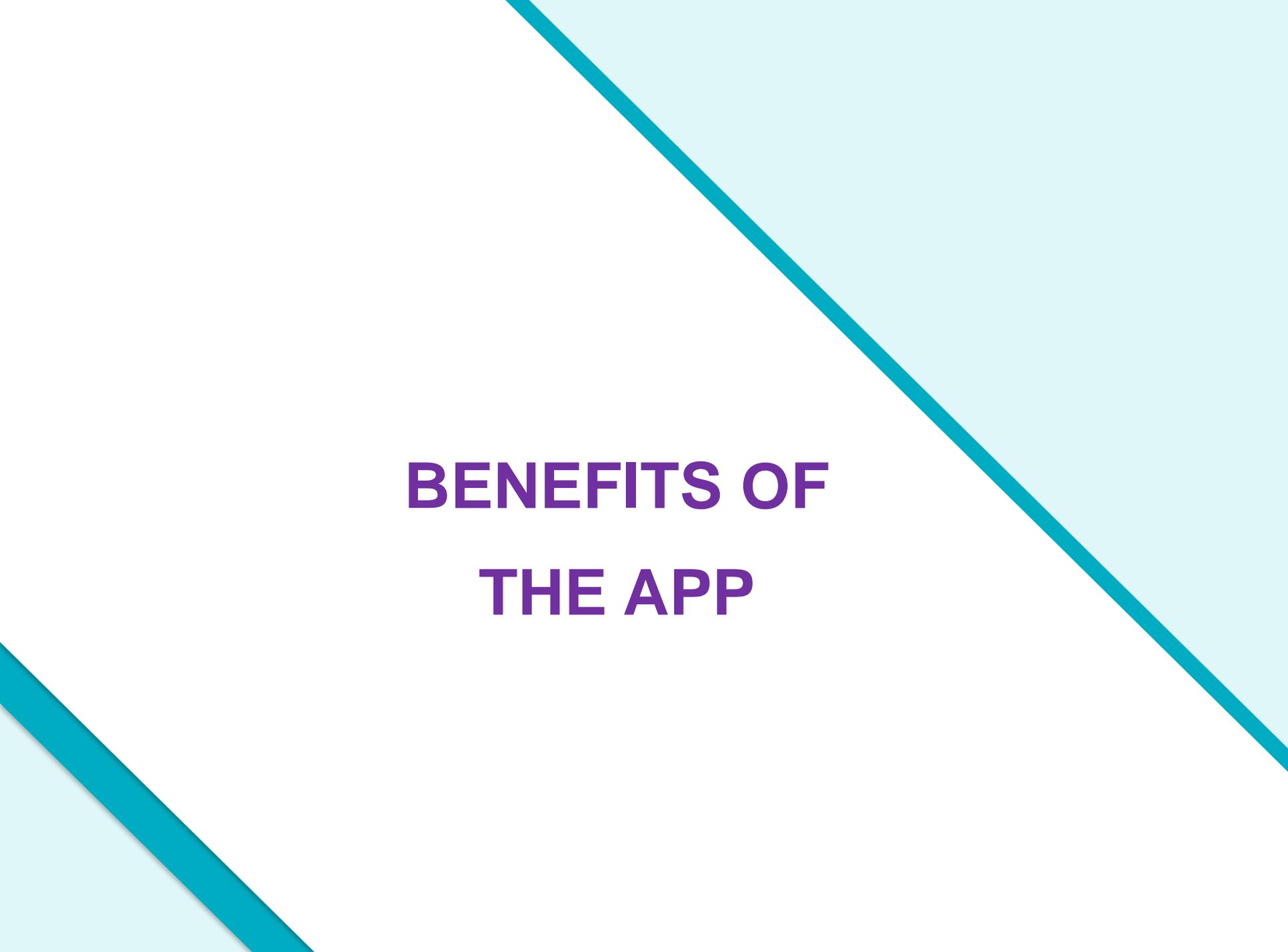
Food App	Country	How it works?	Success
<i>Too good to go</i>	Denmark, UK, France, Belgium, Germany, Norway	Instead of stores throwing their delicious food- sell them at a very reduced price	over 13,000 meals have been saved and 27 tonnes of CO2 emissions have been avoided.
<i>OLIO</i>	38 countries including across Europe, and in the USA, South Africa and Australia	Users upload picture of their unwanted item and other users arranged to collect them.	- prevented 100,000 food items from being sent to landfill - been used more than 300,000 times since its establishment

Source: Rob Cole, 2017

Food Supply Chain

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Food App	Country	How it works?	Success
<i>Justnow</i>	Africa	Different applications for consumers, merchandisers where they can buy food and promote their food	<ul style="list-style-type: none">- launch of its Application in 3 pilot sites around Sandton- Integrate many more stores within the next 6 months
<i>Nofoodwasted</i>	Netherlands	products in shops nearby are marked down because they are close to their best before date	used by 188 supermarkets; over 40,000 users

The background features two thick teal diagonal lines that intersect at the top center and bottom center, creating a white central area. The top-right and bottom-left corners are filled with a light teal color.

BENEFITS OF THE APP

ADVANTAGES

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- Unattractive produce is usually overlooked and does not make it to the shelf, however, they are just as delicious and nutritious as the rest
- Reduce waste caused by expired food
- Consumers/ suppliers: shoppers to save money, increases revenue for the vendors and lessens our environmental impact as a whole!
- Feed more mouths

CONCLUSION

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- Mobile users spend **86%** of their time on mobile apps and thus creating a food app will be an ideal link between different actors of the food supply chain – thereby, contributing more in reducing the food wastage.



Any sufficiently advanced technology is
indistinguishable from magic.

(Arthur C. Clarke)

REFERENCE

1. CSO, 2016. *Digest Environment Statistics 2015*. Port Louis: *Statistics Mauritius, Vol. 14*.

2. GOVERNMENT OF MAURITIUS, Legislative Assembly 2016, *Parliamentary Question – B/445 [online], 17 May, p.1-3*.

Available at:

<http://agriculture.govmu.org/English/Documents/PQs/PQ%20B%20445%20FOOD%20WASTE.pdf> [Accessed 22 January 2017]



Thank You