Food for thought

A Dunman High Project on Food Wastage
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Area of concern - Increasing amount of food wastage

790,000 tonnes of food wasted in 2014; 2 bowls of rice per day

Lack of awareness about food wastage
Culture of wasting food in school

5. Why do you think Dunmanians waste food? (104 responses)

- A - They did not like the food
- B - The amount of ordered food was too much for them to finish
- C - They were not hungry at that time
- D - They are not able to eat certain types of food due to dietary restrictions
- E - They are not aware of the consequence of wasting food
- F - They do not think that wasting food is an inappropriate behaviour
- G - Other reasons

Bar chart showing the distribution of responses:

- A: 72 (69.2%)
- B: 93 (89.4%)
- C: 63 (60.6%)
- D: 24 (23.1%)
- E: 38 (36.5%)
- F: 50 (48.1%)
- G: 7 (6.7%)
Area of Concern

Culture of wasting food in school

3. What are some factors which may have caused you to be unable to finish your food during recess / events?

(100 responses)

A - I did not like the food
B - The amount of ordered food was too much for me to finish
C - I was not hungry at that time
D - I am not able to eat certain types of food due to dietary restrictions
E - Other reasons

A: 46 (46%)
B: 67 (67%)
C: 49 (49%)
D: 12 (12%)
E: 16 (16%)
(Electrolux Food Waste at Home Survey)

41% of Singaporeans only think about food waste occasionally despite households contributing to the 788,600 tonnes of food waste generated in Singapore each year.

Unwillingness to donate food / adhere to proper donation etiquette
1 in 10 Singaporeans are food insecure.
How does food waste affect the environment?

1) Land Scarcity
   Landfills used for burying food waste

2) Greenhouse Gas Production
   Methane produced when food decomposes/
   CO₂ produced when waste is burnt
Our Solutions
Solution 1: Public Outreach

Spread awareness  
Change mindsets  
Reduce food waste

Outreach through Social Media

foodforthoughtdhs
Joo Chiat Community Centre

We took part in the Going Green Environment Movement 2016 at Joo Chiat Community Centre for public outreach opportunity. Here's a picture of us with the Marine Parade MP Mr Tong. Try to catch us on Channel News Asia! 😄
Solution 2: Foodbank Volunteer
Solution 3: Prototyping

- Improve design of bank box
- Attract more people to donate
- Reduce food waste & food insecurity
- Bank Boxes around Singapore & School(s)
Prototypes

Initial prototype

Actual sized prototype

Current prototype
Gamification Elements: Prototype Box
Gamification Elements: Prototype Box

A happy family with words “Making a family smile is that simple”

Thank you, you have just helped __ families

Box for larger items like rice

Box for smaller items

Pictures of food that are accepted
Solution 4: Food Redistribution System

96.47 kg!!
Solution 4: Food Redistribution System

Food Redistribution Committee

Distribute leftovers from school events

Reduce food waste + Discourage the culture of wasting food
The System

Contact Person
- 1 person

Contact committee 1 hour before food expires

Repackaging
- 2-3 people

Mobilise students who are free

Distribution
- 3-5 people
Thank you!

LOVE
FOOD
hate waste