



# I AM AN ISP SCIENTIST

**Created by:**  
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SI Mercury



**ASIA PACIFIC  
SCHOOLS**

Part of



**International  
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Powered by

**ellipsis**



elevating perspectives

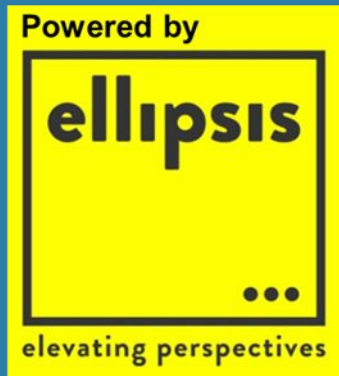
# ABOUT THE PROJECT

## Research Questions

1. How much trash are littered around the common area of my condominium.
2. To see which area has the most trash i.e the café, playground, pool or gym area.
3. To identify what types of trash are littered the most from the four transects of the survey.

**The research was conducted for 7 days at 6pm using Systematic Sampling**

# ABOUT ELLIPSIS



**Ellipsis Earth is an App that can** remotely identify, map and track plastic waste by harnessing the power of machine learning and aerial imagery.

# THE PROCESS



# TOTAL TRASH FOUND PER DAY



**WEDNESDAY**

TOTAL  
63 trash



**THURSDAY**

TOTAL  
65 trash



**FRIDAY**

TOTAL  
54 trash



**SATURDAY**

TOTAL  
56 trash

**SUNDAY**

TOTAL 52  
trash

**MONDAY**

TOTAL  
74 trash

**TUESDAY**

TOTAL  
121 trash

***TOTAL FOR 7 DAYS***

**485 TRASH**

# SURVEY PICTURES



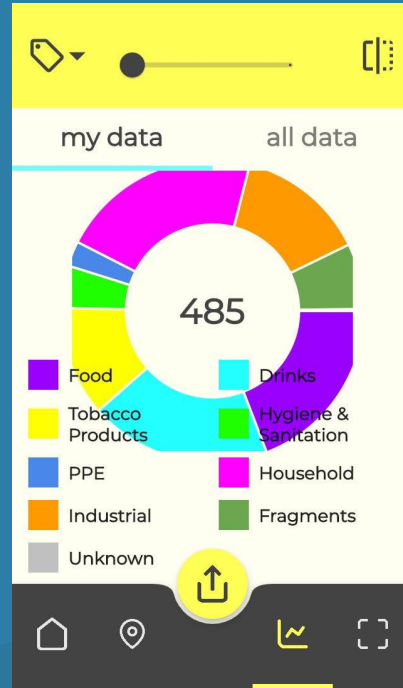




# DATA ANALYTICS



**Survey Map**



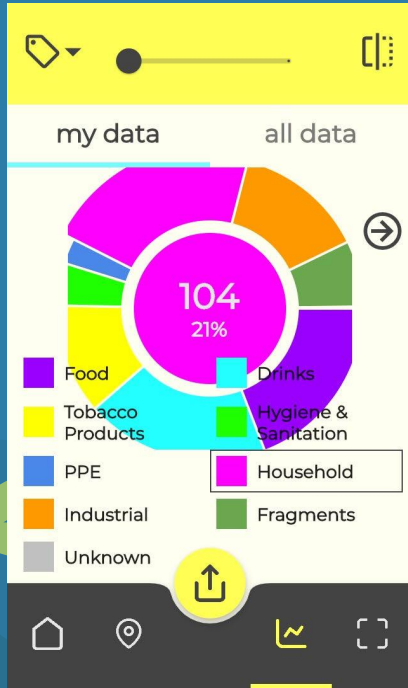
**Pie Chart  
Identified Litter**

## Identified Litter - 485

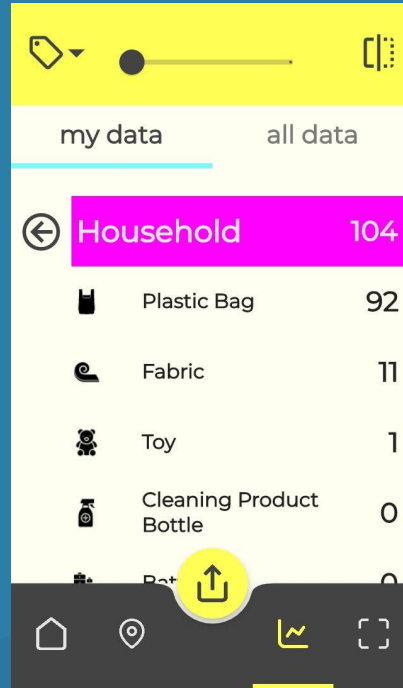
Household	104 (21.4%)
Drinks	94 (19.4%)
Food	93 (19.2%)
Industrial	67 (13.8%)
Tobacco	57 (11.8%)
Fragments	34 (7.0%)
Hygiene & Sanitation	22 (4.5%)
PPE	13 (2.7%)
Unknown	1 (0.2%)



# DATA ANALYTICS



**Most Litter Identified**  
**Household**  
**21.4%**



**Most Household Litter**  
**Plastic Bag**  
**92/104 = 88.5%**

**Most Litter Identified**  
**HOUSEHOLD (104 pieces = 21.4%)**

**Most Household Litter**  
**PLASTIC BAG (92 pieces = 88.5%)**

<b>Plastic Bag</b>	<b>92/104 = 88.5%</b>
<b>Fabric</b>	<b>11/104 = 10.5%</b>
<b>Toy</b>	<b>1/104 = 1.0%</b>
<b>Cleaning Product Bottle</b>	<b>0%</b>
<b>Battery</b>	<b>0%</b>

# PLASTIC BAG – HIGHEST PERCENTAGE OF HOUSEHOLD WASTE

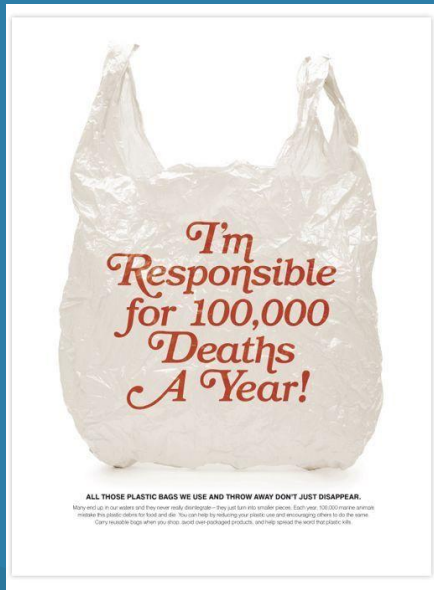
The Malaysian Plastics Manufacturers Association (MPMA) has estimated that the average Malaysian uses 300 plastic bags per year. With a population of 30million, it comes to about nine billion plastic bags used in a year. What an alarming figure!!!



So, why do people still use single use plastic bags?

- It is convenient
- It is more durable than paper bags
- It is less prone to tearing
- It is easier to carry
- It is cheaper than buying the recycled bags
- It is easier to transport groceries and take-out meals
- It is used to line small waste baskets

The only way to encourage people not to use plastic bags is to make the shops provide non-woven or cloth bags at an affordable price or give discounts for bringing their own recycled bags.



# PLASTIC KILLS!!!

When rubbish is being transported to the landfill, plastic will be blown away since it is lightweight. Plastic will fly everywhere including drains, and enter rivers and then the sea thus killing marine lives. Animals on land are also affected thinking the plastic as their source of food.





**DON'T CONTRIBUTE TO PLASTIC POLLUTION**





# CONCLUSION – WE MUST DO OUR PART

**REFUSE**

**REDUCE**

**REUSE**

**RECYCLE**

**RESTORE**



“Love the Earth as You  
Would Love Yourself”

—JOHN DENVER





# THANKS!



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