

Appendix 2: Survey Questionnaires and Tally Sheets

Center for Southeast Asian Studies (CSEAS), Indonesia

Survey Questionnaire on the Use of Single-Use Plastics in the Faculty of Social and Political Sciences, University of Indonesia

Foreword
<p>This survey was conducted to assess the reduction of the use of single-use plastics (straws and plastic cups) at the Faculty of Social and Political Sciences, University of Indonesia. The survey aimed to analyse: (a) knowledge about single-use plastics; (b) use of single-use plastics; (c) attitudes and awareness about plastic management; (d) attitudes and awareness about single-use plastic management; (e) attitudes towards reducing single-use plastics; (d) practices of reducing the use of single-use plastics in the FISIP UI area.</p> <p>We sincerely hope that you can participate and cooperate by filling out this questionnaire, as input for the reduction of single-use plastics in the FISIP UI area. We are fully committed to maintaining the confidentiality of the questionnaire that you provide. For your participation and cooperation, we thank you.</p>

1. IDENTITY OF RESPONDENT
1. Name:
2. Sex: Male / Female*)
3. Age: years old
4. Occupation: Students / Lecturers / Traditional Canteen Traders / Modern Canteen*)
5. Study Program:
6. Year/Semester:
7. Residence: Live with parents / relatives / host family / dormitory / boarding house*)
8. Education Level:
9. Phone Number:

*) Cross out the ones that are not appropriate

Instructions: Please fill in according to your actual condition by circling (O) in the column provided.

2. KNOWLEDGE OF SINGLE-USE PLASTICS			
Q2-1: Please fill in your condition regarding general knowledge about single-use plastics.	No	Yes	Not Sure
1. I know about single-use plastic products	1	2	3
2. I know that single-use plastics are harmful to marine ecosystems	1	2	3
3. I know that single-use plastics are harmful to terrestrial ecosystems	1	2	3

4. I know that single-use plastics are harmful to human health	1	2	3
5. I know that single-use plastics are difficult to decompose naturally	1	2	3
6. I know that single-use plastics can be recycled	1	2	3

Q2-2: Where do you get information about the dangers of single-use plastics? (Please select more than one)

- | | |
|-----------------------------------|------------------------------|
| 1. Social Media (mention: _____) | 6. Seminar/Public Discussion |
| 2. Television | 7. Workshop |
| 3. Radio | 8. Lectures |
| 4. Newspaper | 9. Friends |
| 5. Journal/Scientific Book | 10. Others: (_____) |

Q2-3: What do you know about the environmental consequences of single-use plastics? (Please select more than one)

- | | |
|---|--|
| 1. Pollution from littering | 6. Lowers the quality of soil fertility |
| 2. Pollution from burning garbage | 7. Deadly to marine life |
| 3. Leakage into water (river, sea, waterways) | 8. Damage to coastal ecosystems |
| 4. Clogging waterways and causing flooding | 9. Lowering the quality of the animal-human life chain, because animals can consume plastic. And then humans eat it. |
| 5. Not biodegradable | |

Q2-4: How long do you think it takes for one plastic straw to decompose?

- | | |
|-------------|--------------|
| 1. 2 weeks | 4. 20 years |
| 2. 2 months | 5. 200 years |
| 3. 2 years | |

Q2-5: How long do you think it takes for one plastic cup to decompose?

- | | |
|-------------|--------------|
| 1. 5 weeks | 4. 50 years |
| 2. 5 months | 5. 500 years |
| 3. 5 years | |

3. USE OF SINGLE-USE PLASTICS

Q3-1: What type of single-use plastic do you use most often in your daily life? (Please choose more than one)

- | | |
|--------------------|--|
| 1. Plastic bag | 5. Plastic bottle |
| 2. Plastic straw | 6. Plastic packaging for food (snacks, etc.) |
| 3. Plastic cup | 7. Plastic cup with plastic lid |
| 4. Plastic cutlery | 8. Others: (_____) |

Q3-2: Why do you use single-use plastics in your daily life? (Please choose more than one)

- | | |
|-------------------------|--------------------------------|
| 1. Cheap | 3. Easily affordable |
| 2. Lack of alternatives | 4. Light and convenient to use |
| | 5. Others: (_____) |

Q3-3: How many plastic straws do you use in one week?

1. Less than five plastic straws
2. 5-10 plastic straws
3. More than 10 plastic straws

Q3-4: How many plastic cups do you use in one week?

1. Less than five plastic cups
2. 5-10 plastic cups
3. More than 10 plastic cups

4. ATTITUDE AND AWARENESS ABOUT PLASTIC WASTE MANAGEMENT					
Q4-1: Fill in according to your condition regarding your attitude towards waste segregation and disposal.	Strongly disagree	Disagree	Not sure	Agree	Strongly agree
1. I think it is important to do waste segregation in FISIP UI.	1	2	3	4	5
2. The awareness of FISIP UI students in disposing of waste in its place is high	1	2	3	4	5
3. The task of keeping and cleaning the campus free of waste is the responsibility of all campus parties without exception	1	2	3	4	5
4. I will feel disturbed and try to reprimand if I see people who litter in the FISIP UI environment.	1	2	3	4	5
5. FISIP UI needs to apply rules and sanctions to the entire academic community who are not disciplined in waste management	1	2	3	4	5
6. In my opinion, the available trash bins are already located in strategic places	1	2	3	4	5
7. In my opinion, the number and design of trash bins in FISIP UI are very adequate according to the needs of the academic community.	1	2	3	4	5
8. In my opinion, it is necessary to sort the types of waste in the FISIP UI environment based on the categories: Plastic, Organic, Other (Paper/Can/Cardboard/Styrofoam)	1	2	3	4	5
9. I will bring my own drinking bottle (tumbler) if the cafeteria applies a discount	1	2	3	4	5

5. ATTITUDE TOWARDS REDUCING SINGLE-USE PLASTICS	
Q5-1: What type of plastic alternative would you choose to reduce single-use plastics? (Please choose more than one)	
1. Cardboard	4. Tumbler
2. Food container	5. Paper shopping bag
3. Bamboo/stainless straw	6. Cloth bag

Q5-2: What actions will you take to reduce single-use plastics? (Please choose more than one)

1. Participate in public campaigns to reduce plastic waste and promote sustainable waste management.
2. Donate to campaigns to reduce plastic
3. Stop littering with plastic waste
4. Doing reduce, reuse, and recycle (3R) for plastic waste
5. Bring your own drinking bottle and cutlery
6. Writing for publications that encourage awareness and concern of the general public about the urgency and significance of reducing waste, as well as processing plastic waste by applying the 3R principles
7. Others: ()

6. SINGLE-USE PLASTIC REDUCTION PRACTICES

Q6-1: Fill in according to your condition regarding the practice of reducing single-use plastics	Strongly disagree	Disagree	Not sure	Agree	Strongly agree
1. I refuse to use disposable plastic cups when buying drinks	1	2	3	4	5
2. I use reusable cups more often than single-use plastic cups when buying drinks.	1	2	3	4	5
3. I bring my own water bottle (tumbler) when travelling, including when going to campus	1	2	3	4	5
4. Before buying, I check whether the product packaging is recyclable	1	2	3	4	5
5. I refuse plastic straws when buying drinks	1	2	3	4	5
6. I bring environmentally friendly straws (stainless steel, bamboo) when I travel	1	2	3	4	5
7. I separate organic and non-organic waste when disposing of garbage on campus	1	2	3	4	5
8. I practice 3R (Reduce, Reuse, Recycle) for plastic waste on campus	1	2	3	4	5
9. I collect plastic packaging bottles to take to the waste bank	1	2	3	4	5
10. To reduce plastic waste, I am willing to choose environmentally friendly packaging at twice the price	1	2	3	4	5
11. I am willing to use environmentally friendly packaging instead of single-use plastic if there is a reward	1	2	3	4	5
12. Reducing plastic waste in the FISIP UI area is very important to do	1	2	3	4	5
13. Bringing my own straw is too inconvenient	1	2	3	4	5

14. Bringing your own water bottle (tumbler) is too inconvenient	1	2	3	4	5
15. I feel guilty when I buy a drink and get two plastic wastes at once (glass and plastic straw)	1	2	3	4	5
16. I think it is important to campaign about the dangers of plastic waste in the campus environment	1	2	3	4	5
17. In my opinion, students are a very strategic group of campus residents in supporting the Plastic Waste Awareness Movement/Campaign	1	2	3	4	5
18. In my opinion, the FISIP UI Campus needs to have and develop waste and environmental regulations in the campus area.	1	2	3	4	5

University Philippines Diliman, the Philippines

Sample Tally Sheets Used Before Project Implementation, UP Diliman

Vendor:

DATE: _____ Time Open: _____ Time Close:

Number of Customers:

Customers with their own baunan (food container) and drinking bottle:

Baunan: _____ Drinking Bottle:

WASTE CHARACTERISTICS

- Number of Fork:
- Number of Spoon:
- Number of Canton Plates (7in):
- Number of Canton Plates (9in):
- Number of Plastic Cups (5 oz):
- Number of Plastic Cups (8 oz):
- Number of Straws:
- Number of Hotdog Plates:
- Number of Square Plates:
- Number of Plastic Labo:
- Number of Tetra Packs with Straw:
- Number of PET Bottles (1L):
- Number of PET Bottles manipis (500mL):
- Number of PET Bottles makapal (500mL):
- Number of Sandwich/Paper Bags:
- Number of Plastic Gloves:
- Number of Sando Bags:
- Others:

Sample Tally Sheet Used During Project Implementation, UP Diliman

Vendor:

DATE: _____ Time Open: _____ Time Close:

Number of Customers:

Customers with their own baunan (food container) and drinking bottle:

Baunan: _____ Drinking Bottle:

WASTE CHARACTERISTICS

- Number of Wooden Fork:
- Number of Wooden Spoon:
- Number of 6" Bagasse Plates:
- Number of 7" Bagasse Plates:
- Number of 9" Bagasse Plates:
- Number of 7" Cornstarch plates:

Number of 9" Cornstarch plates:
Number of Cornstarch Cups (5 oz):
Number of Cornstarch Cups (8 oz):
Number of Straws:
Number of Hotdog Plates:
Number of Plastic Labo:
Number of Tetra Packs with Straw:
Number of PET Bottles (1L):
Number of PET Bottles manipis (500mL):
Number of PET Bottles makapal (500mL):
Number of Sandwich/Paper Bags:
Number of Plastic Gloves:
Number of Sando Bags:
Others:

Customer Satisfaction Survey Questionnaire, UP Diliman

The food sector of the University of the Philippines Diliman (UPD) is one of the biggest contributors to the university's plastic wastes. Many food providers use single-use plastics such as plastic cups, bags, plates, and utensils to serve and/or pack food and drinks. To transition to a plastic-free and sustainable campus, this project seeks to partner with three (3) ambulant/informal food vendors (i.e., street vendors, kiosks, stalls) and at four (4) non-ambulant food vendors (i.e., restaurants, cafeteria) in UPD to implement our recommended plastic-free policies within a defined period of time (May 22-June 9, 2023). This will

(1) illustrate the feasibility of going plastic-free for campus vendors;
(2) provide insights on vendor and consumer behaviours toward plastic reduction; and aid in establishing model sites of good waste management practices in UPD for future expansion.

With this, we kindly request 5 minutes of your time to participate in our survey, which aims to assess the customers' understanding and acceptance of behavioural insights in reducing plastic usage at the pilot sites. Your responses will greatly assist us in our research.

Data Privacy

In accordance with RA 10173 or the Data Privacy Act of 2012, all personal and/or sensitive information solicited and disclosed from this questionnaire shall be only used by the Project team members for the evaluation of the project, documentation, and reporting to project funders.

Rest assured that your responses in this survey will be kept confidential.

- I fully understand and I would like to participate in the survey.
- I do not consent to answering this survey.

1. Name (optional):

2. I am a:

- Student
- UP Faculty member
- UP Staff member
- Visitor/guest

Other:

3. Age:

4. Sex assigned at birth:

- Male
- Female

5. Average Household Monthly Income:

- Less than Php 9,100
- Php 9,100 to Php 18,200
- Php 18,200 to Php 36,400
- Php 36,400 to Php 63,700
- Php 63,700 to Php 109,200
- Php 109,200 to Php 182,000
- Greater than Php 182,000

6. I usually buy (check all that apply):

- Food
- Drinks
- Snacks/Chips
- Others:

7. From:

- University Food Service
- Melchor Hall - KKL
- Inst. of Civil Eng'g - KKL
- Inst. of Civil Eng'g - Ala Marge
- ArkiVickie
- Diliman Brew
- Vinzon's - Tess Store

8. How often do you buy drinks/food in your chosen location:

- Often (once or more than once a week)
- Sometimes (Once to twice a month)
- Rarely (Once a semester)
- It's my first time.

9. What is the typical price range for orders (meals, drinks, etc.) in the location?

- Less than Php 40
- 40php-60php
- 60php-80php
- 80php-100php
- 100php-120php
- More than 120php

10. How often do you bring your own baunan/food container to UP?

- Always (100% of the time)

- Often (75% of the time)
- Sometimes (50% of the time)
- Rarely (25% of the time)
- Never (0% of the time)

11. How often do you bring your own tumbler/water container to UP?

- Always (100% of the time)
- Often (75% of the time)
- Sometimes (50% of the time)
- Rarely (25% of the time)
- Never (0% of the time)

12. Before May 22, foodwares were not completely compostable. Did you notice the change in foodware provided?

- Yes
- No - skip question 13

13. What made you notice the change in foodware? Check all that apply.

- The posters communicated the foodware transformation.
- The foodware looked and felt different
- The foodware is sturdier.
- The foodware is more fragile.
- The foodware appears interesting.
- Others:

14. In terms of ease of use, please indicate your level of satisfaction with the provided foodware by checking the items you have used and rating them on a scale of 1 to 5, with 5 being 'very satisfied'

15. Please share any comments or feedback you have regarding the provided foodware:

16. Considering ONLY the foodware, would you buy again and/or recommend the store/canteen to your friends? Check all that apply.

- I will buy again
- I will recommend my friends to buy
- I don't like the foodware

17. During the implementation phase, the foodware was provided to the vendors without any cost. After this implementation period, would you be willing to cover the additional cost for the foodware, to support the plastic-free foodware/vending initiative inside the campus?

- Yes
- No

18. If yes, by how much?

- Plate : Php
- Cup with lid : Php
- Straw : Php
- Bowl : Php
- Spoon and Fork : Php
- Takeout box : Php

19. Do you practice waste segregation at home and in school?

- Always (100% of the time)
- Often (75% of the time)
- Sometimes (50% of the time)
- Rarely (25% of the time)
- Never (0% of the time)

20. Did the provided segregation posters and trash bin labels assist you in segregating your waste effectively?

- Yes
- No

Additional comments about the posters and bin labels:

21. What additional measures do you think can be taken to facilitate the transition of the UP Community into a plastic-free community?

Survey Questionnaire on Measures on Plastic Waste Reduction and Changes in Consumer behaviour at the CU flea market

We would like to thank you for your participation in the “**Survey of Measures on Plastic Waste Reduction and Shop Owners’ Tendency to Waste Management**”. The questionnaire consists of 6 pages and takes about 5 minutes to complete. Your participation in the survey is entirely voluntary. The opinions can be expressed freely, and the identity of the informants will remain confidential. The responses acquired from the survey are used only for academic purposes. You can skip any questions you might find inappropriate or irrelevant. Your direct answers are instrumental in analysing and creating effective measures on plastic waste reduction. The measures resulting from this procedure are expected to lead to the improvement of the living standards of the people in the Bangkok Metropolitan Region.

The Research Team
CHULA UNISEARCH
February 2023

Part 1: Personal Information

1. Sex Male Female
2. Age _____ years old
3. Are you working/studying at Chulalongkorn University (student, staff, researcher, or professor)?
 Yes No

If you select “Yes”, please specify your status/occupation.

- Undergraduate student
- Master/PhD student
- Official/University staff
- Researcher
- Professor
- Others.

Please specify. _____ If you select “No”, please specify your status/occupation.

- Company employee
- Civil servant/Government employee/State enterprise employee
- Freelancer/Business owner
- Employee
- Part time employee
- Farmer/Fisherman
- Housewife
- Student (University/College, etc.)
- Unemployed/Retired/Pensioner
- Others. Please specify.

4. Income per month
 - Less than 10,000 Baht
 - 10,001-20,000 Baht
 - 20,001-30,000 Baht
 - 30,001-40,000 Baht
 - 40,001-50,000 Baht
 - More than 50,000 Baht

Part 2: Consumer Shopping behaviour

1. How frequently do you shop at these shopping places in the table below? Please give your answer in every line.

Place	Never	0-1 time/week	1-3 time/week	4-6 time/week	Every day
Fresh market					
Flea market					
Supermarket					
Convenience store					
Grocery					
Cooperative store					
Street stall					
Online shopping					

2. How important are these factors to your decision to shop at particular places?

Factor	Not important	Least important	Moderate	Important	Very important
Price	1	2	3	4	5
Quality	1	2	3	4	5
Cleanliness	1	2	3	4	5
Distance from home/office	1	2	3	4	5
Convenience of travel	1	2	3	4	5
Security	1	2	3	4	5
Parking availability	1	2	3	4	5

3. Please specify your behaviour that will help reduce plastic waste caused by your consumer behaviour.

- 1) Bring your own bag from home when shopping
- 2) Inform the shop that you do not want any unnecessary packaging
- 3) Use your reused plastic bag
- 4) Put all items in one bag
- 5) Cut down the online shopping
- 6) Others. Please specify:

Part 3: Consumer Shopping Behavior at the CU flea market

1. How frequently do you shop at the CU flea market?

- First time
- 1 time/month
- 2-3 time/month
- Every week
- More than 1 time/week

2. Please give your top 3 reasons that you shop at the CU flea market.

- 1) Food and other items are cheaper than elsewhere.
- 2) Good quality of food and other items
- 3) The market is not far from the office/school/residence.
- 4) There are a variety of shops, foodstuffs, and other merchandise.
- 5) Good PR and management of the market (clean, well-organised)
- 6) Many different payment methods (cash, QR Code)
- 7) Others. Please specify:

3. In your opinion, what types of waste from the flea market cause the most serious environmental problems in terms of quantity and management? Please select the top 3 types.

- 1) Food waste
- 2) Plastic tote bag for carrying food
- 3) Hard plastic packaging for food
- 4) Other types of packaging, such as cardboard boxes
- 5) Transparent plastic bag for hot and cold food
- 6) Plastic straw
- 7) Plastic spoon and fork
- 8) Staple
- 9) Bag or other types of packaging for seasonings
- 10) Rubber band
- 11) Toothpick
- 12) Chopsticks
- 13) Others. Please specify:

4. Do you agree with the campaign for the ban of single-use plastic bags introduced by the Office of Physical Resources Management, Chulalongkorn University?

- Strongly agree
- Agree
- Disagree
- Strongly disagree

5. What method can you choose to help reduce waste in response to the ban of single-use plastic waste?

- Bring bags from home
- Use free reused plastic bags
- Buy a biodegradable bag from the shop, costing 2 Baht
- Carry food or items without using a bag
- No shopping at the flea market
- Others. Please specify:

6. Please give the reason(s) you choose the method above to help reduce waste in response to the ban of single-use plastic waste.

Reason(s)

7. Do you think the ban of single-use plastic bags affects your frequency of shopping at the flea market?

- Yes
- A little
- Not much
- No

8. Do you think the price of a single-use plastic bag (2 Baht) is appropriate? How?

- Too expensive
- Reasonable
- Too cheap

9. In your opinion, what other measures should the Office of Physical Resources Management adopt to reduce plastic waste from the CU flea market? You can give more than 1 answer.
- No use of plastic packaging for food and other items
 - No free plastic spoon and fork
 - No use of plastic straw
 - No free bag or other types of packaging for seasonings
 - Others. Please specify.
10. Please give your suggestions on sustainable measures regarding single-use plastic waste reduction in Chulalongkorn University.

Survey Questionnaire on Measures on Plastic Waste Reduction and Shop Owners' Tendency to Waste Management at CU Flea Market

We would like to thank you for your participation in the “**Survey of Measures on Plastic Waste Reduction and Shop Owners' Tendency to Waste Management**”. The questionnaire consists of 5 pages and takes about 5 minutes to complete. Your participation in the survey is entirely voluntary. The opinions can be expressed freely, and the identity of the informants will remain confidential. The responses acquired from the survey are used only for academic purposes. You can skip any questions you might find inappropriate or irrelevant. Your direct answers are instrumental in analysing and creating effective measures on plastic waste reduction. The measures resulting from this procedure are expected to lead to the improvement of the living standards of the people in the Bangkok Metropolitan Region.

The Research Team
CHULA UNISEARCH

Part 1: Shop's Information

1. Shop Name
2. Merchandise/food sold at the shop
3. How frequently do you keep your shop open at the flea market in Chulalongkorn University?
 - 2 times a week
 - 1 time a week
 - 2 times a month
 - 1 time a month
 - No specific schedule
 - Others. Please specify:
4. How long have you opened the shop at the flea market in Chulalongkorn University? (Excluding the period during the Covid-19 pandemic when the flea market was temporarily closed.)
 - More than 2 years
 - 1–2 years
 - 6 months –1 year
 - Less than 6 months
5. Please rate your satisfaction in many aspects of the flea market in Chulalongkorn University

Aspect	Strongly dissatisfied	Dissatisfied	Moderate	Satisfied	Strongly satisfied
Number of customers	1	2	3	4	5
Cleanliness of the market	1	2	3	4	5
Security of the market	1	2	3	4	5
Convenience of travel to the market	1	2	3	4	5

Parking availability	1	2	3	4	5
Variety of shops	1	2	3	4	5

Aspect	Strongly dissatisfied	Dissatisfied	Moderate	Satisfied	Strongly satisfied
Rental fee	1	2	3	4	5
Overall management (such as waste management and PR)	1	2	3	4	5

Part 2: Measures on Plastic Waste Reduction in Chulalongkorn University

1. In your opinion, what types of waste from the flea market cause the most serious environmental problems in terms of quantity and management? Please select the top 3 types.
 - 1) Food waste
 - 2) Plastic tote bag for carrying food
 - 3) Hard plastic packaging for food
 - 4) Other types of packaging, such as cardboard box
 - 5) Transparent plastic bag for hot and cold food
 - 6) Plastic straw
 - 7) Plastic spoon and fork
 - 8) Staple
 - 9) Bag or other types of packaging for seasonings
 - 10) Rubber band
 - 11) Toothpick
 - 12) Chopsticks
 - 13) Others. Please specify:

2. Do you agree with the campaign for the ban of single-use plastic bags introduced by the Office of Physical Resources Management, Chulalongkorn University?
 - Strongly agree
 - Agree
 - Disagree
 - Strongly disagree

3. Based on your experiences, what are the top 3 methods do you think customers who shop at the flea market will choose to help reduce plastic waste?
 - 1) Bring their own bags from home
 - 2) Inform the shop that they do not want any unnecessary packaging (including packaging for seasonings and plastic spoon and fork)
 - 3) Put all items in one bag
 - 4) Choose to put takeaways in plastic bag for hot and cold food, instead of putting them in plastic bowls
 - 5) Use free reused plastic bags
 - 6) Buy a biodegradable bag from the shop, costing 2 Baht
 - 7) Others. Please specify.

4. In your opinion, what should customers do most in response to the ban of single-use plastic bags?
 - Bring their own bags from home
 - Use free reused plastic bags

- Buy a biodegradable bag from the shop, costing 2 Baht
 - Carry food or items without using a bag
 - Others. Please specify.
5. Do you think the ban of single-use plastic bags affects the number of customers who shop at the flea market?
- Yes
 - A little
 - Not much
 - No
6. Do you think the price of a single-use plastic bag (2 Baht) is appropriate? How?
- Too expensive
 - Reasonable
 - Too cheap
7. According to Chulalongkorn University's announcement "Measures on single-use plastic waste reduction in Chulalongkorn University 2018", which measure(s) can you adopt to help reduce plastic waste? You can select more than one answer.
- No use of plastic packaging for food and other items
 - No free plastic spoon and fork
 - No free chopsticks sealed in plastic
 - No use of plastic straw
 - No free bag or other types of packaging for seasonings
 - Use of biodegradable garbage bags to store food waste before disposal
 - Others. Please specify.
8. Do you agree that Chulalongkorn University should impose a regulation that urges every shop owner to use eco-friendly and biodegradable packaging, such as paper packaging, sugarcane packaging, paper straw, and zero-waste paper cups sealed in bioplastic?
- Strongly agree
 - Agree
 - Disagree
 - Strongly disagree
9. If Chulalongkorn University requires every shop owner to use eco-friendly and biodegradable packaging, such as paper packaging, sugarcane packaging, paper straw, and zero-waste paper cups sealed in bioplastic, do you think prices of food or products should be increased? And how much?
- No
 - Yes. Please give more details.
10. Please give your suggestions on sustainable measures regarding single-use plastic waste reduction in Chulalongkorn University.

Southern Institute of Ecology (SIE), Viet Nam

Survey questionnaire, Southern Institute of Ecology (SIE)

Type	Intervention	Without intervention
Name	Thanh Loc High School	Hiep Binh High School
Location	District 12 of Ho chi minh City	Hiep Binh Phuoc Ward, Thu Duc District of Hochi minh City
Area	1.4 ha	1.6 ha
Total student number	1,700	1,810
Classes	40	41
Grade	45211	45211
KAP survey sampling numbers	SETM club members (20 students and 2 teachers)	SETM club members (20 students and 2 teachers)
(At least 120 people)	Teachers who did (will) not receive direct training (10)	Teachers (10)
	one class with 30-40 students who did (will) not receive direct training from each grade (30- 40*3= 90-120 students)	one class with 30-40 students from each grade (30-40*3= 120 students)

Objectives: to assess the intervention by comparing the change in knowledge, attitude, and practice (KAP) of the students from two high schools at similar academic level and similar income area in Ho Chi Minh city; one with intervention and other without intervention

Methodology:

- Conduct two types of survey: 1) KAP survey, 2) Waste Audit (5 consecutive days, total waste amount, waste composition, plastic composition)
 - Time of survey (twice): before and after the intervention (Feb and the end of May 2023)
 - KAP survey sampling numbers: see the table above (consider the gender balance)
 - Method: paper form for those who have access to internet and paper for those who do not
1. Pre-test should be given to a couple of students to see if predicted answers can be obtained with the prepared questionnaire
 2. Finalise the questionnaire
 3. Implement the survey
 4. For the second survey, it is necessary to select the same students but respect the conditions in the table above

Tick only one box per question unless a question allows multiple answers.

(always: >80%, often: 51-80%, sometimes: 21-50%, rarely: <20%)

A. General information

A-1 student ID ()

A-2 Grade

- 10
- 11
- 12

A-3 Gender

- female
- male

A-4 Type of residence

- house
- apartment
- shop house (1st floor is shop)
- other

A-5 Number of employed people living in your home

- 1-3 people
- 4-6 people
- more than 7 people

A-6 Who usually takes care of the trash at home

- maid
- myself
- mother
- other

A-7 Total household income per month

- less than 5 million VND
- 6-10 million VND
- 11-15 million VND
- 16-20 million VND
- more than 20 million VND
- I do not know

B. Waste from Breakfast

B-1 How often do you take breakfast that is made at home to the school

- less than once a week
- 1-3 times/week
- 4-5 times/week

B-2 What is the type of your breakfast container most of the case?

- SUP
- reusable
- other (specify:

B-3 How often do you buy breakfast

- less than once a week
- 1-3 times/week
- 4-5 times/week

B-4 How is your breakfast served most of the case?

- SUP container
- reusable container
- other (

B-5 How often do you buy breakfast in the school

- less than once a week
- 1-3 times/week
- 4-5 times/week

B-6 How is your breakfast served most of the case?

- SUP container/plate
- reusable container/plate
- other ()

C. Waste from Lunch

C-1 How often do you bring lunch that is made at home to the school

- less than once a week
- 1-3 times/week
- 4-5 times/week

C-2 What is the type of your lunch box container most of the case?

- SUP
- reusable
- other (specify:

C-3 How often do you buy lunch outside and bring it to the school

- less than once a week
- 1-3 times/week
- 4-5 times/week

C-4 How is your lunch served most of the case?

- SUP container
- reusable container

- other ()

C-5 How often do you buy lunch in the school

- less than once a week
- 1-3 times/week
- 4-5 times/week

C-6 How is your lunch served most of the case?

- SUP container/plate
- reusable container/plate
- other ()

C-7 How often do you bring beverages to the school?

- less than once a week
- 1-3 times/week
- 4-5 times/week

C-8 What is the bottle made of most of the case?

- plastic sachet
- PET
- paper, metal
- other (specify:)

D. Waste from Dinner

D-1 How often do you eat dinner that is made at home?

- less than once a week
- 1-4 times/week
- 5-7 times/week

D-2 Do you waste food served at home?

- less than once a week
- 1-4 times/week
- 5-7 times/week

D-3 How often do you eat out for dinner?

- less than once a week
- 1-4 times/week
- 5-7 times/week

D-4 Do you waste food served at restaurants or cafes?

- less than once a week
- 1-4 times/week
- 5-7 times/week

D-5 How is your dinner served most of the case?

- SUP container/plate
- reusable container/plate
- other (specify:

D-6 How often do you eat ready-made food purchased outside, including delivery service?

- less than once a week
- 1-4 times/week
- 5-7 times/week

D-7 Do you waste ready-made or delivered food?

- rarely
- sometimes
- often
- always

D-8 How is your dinner served most of the time?

- SUP container
- reusable container
- other (specify:

D-9 What is the main reason for wasting food? (rank 1-3: #1 as major reason)

- because I do not like the taste
- because they served more than I can eat
- because leaving food is my habit
- because the food contains what I cannot eat
- other (specify:)

D-10 Are you concerned about wasting SUP?

- never
- sometimes
- often
- always

D-11 Are you concerned about wasting food?

- never
- sometimes
- often
- always

E. Waste Handling

E-1 Is waste littered in and around your neighbourhood?

- yes
- no

- I do not know

E-2 If yes, what waste is littered?

- food waste
- garden waste
- PET bottle
- metal
- paper
- other plastics
- other (specify:)

E-3 Do you or your family litter waste in an open area nearby?

- never
- sometimes
- often
- always

E-4 Why or why not?

- because it is a habit
- because there is no collection service
- because it pollutes the environment
- because it is bad/good for the health
- because it is good/bad for the animals and plants
- because there is no strict rule
- because it is the way to reduce the waste
- because it is the way to maintain good hygiene
- other (specify:)

E-5 Is waste burnt in and around your neighbourhood?

- yes
- no
- I do not know

E-6 If yes, what waste is burnt?

- food waste
- garden waste
- plastic
- metal
- paper
- other (specify:)

E-7 Do you or your family burn waste in an open area nearby?

- never

- sometimes
- often
- always

E-8 Why or why not?

- because it is a habit
- because there is no collection service
- because it pollutes the environment
- because it is bad/good for the health
- because it is good/bad for the animals and plants
- because there is no strict rule
- because it is the way to reduce the waste
- because it is the way to maintain good hygiene
- other (specify:)

E-9 Who do you think should clean the littered waste in the open areas?

- city
- community
- waste generator
- altogether
- other (specify:)

E-10 Who do you think should separate the waste?

- city community
- waste generator
- altogether
- other (specify:)

Plastic Waste related questions:

PK-1 What is Single-use-plastic (SUP) (multiple answer)

- a plastic with single material
- b plastic that is disposed after single usage
- c plastic that is used by only one person
- d plastic that is made by a single company
- e other (specify:)

PK-2 What is SUP made from? (multiple answer)

- a petroleum
- b coal
- c plants
- d animals

e other (specify:)

PI-1 Do you believe that SUP is a problem?

- yes
- no
- I do not know

PK-3 Why do you need to reduce SUP? (multiple answer)

- because people/teachers say so
- because I believe SUP stays in the environment for long time after disposal
- because I believe SUP pollutes the environment
- because I believe SUP is bad for the health
- because I believe SUP is bad for the animals and plants
- because I believe SUP causes clog of drainage
- because I believe that wasting SUP means wasting energy and resources to manufacture SUP
- because there is a rule
- because I will be punished or disapproved if I do not reduce SUP waste
- other (specify:)
- I do not know

PP-12 I have taken the following practice in the past month

a Sort out plastic waste at source

- never
- sometimes
- often
- always

b Avoid taking plastic shopping bags at markets

- never
- sometimes
- often
- always

c Bring my reusable bag

- never
- sometimes
- often
- always

d Tell my friends and family not to use SUP

- never
- sometimes
- often

- always

e Tell city to promote recycling of SUP

- never
- sometimes
- often
- always

f Avoid taking plastic cutlery

- never
- sometimes
- often
- always

g Bring my reusable cutlery

- never
- sometimes
- often
- always

h Bring my bottle

- never
- sometimes
- often
- always

i Bury the SUP waste underground

- never
- sometimes
- often
- always

j Burn the SUP waste at backyard

- never
- sometimes
- often
- always

k Participate in a clean-up activity

- never
- sometimes
- often
- always

l other (specify:)

- never
- sometimes
- often
- always

PK-4 How does SUP affects the environment (air, water, soil)

- describe ()
- I do not know

PK-5 How SUP affects animals and plants

- describe ()
- I do not know

PK-6 How does SUP affect human health?

- describe ()
- I do not know

PK-7 Which do you think would contribute to the reduction of SUP? (multiple answer)

- waste separation at source
- avoid taking plastic shopping bags at markets
- bring my reusable bag
- Tell my friends and family not to use SUP
- Tell city to promote recycling of SUP
- avoid taking plastic cutlery
- bring my reusable cutlery
- bring my bottle
- bury the SUP waste underground
- burn the SUP waste at backyard
- Participate in a clean-up activity
- other (specify:)
- I do not know

PK-8 How should SUP be treated after being collected? (multiple answer)

- to be burnt
- to be recycled
- to be exported
- other (specify:)

PI. Intention / Acceptance

PI-2 Do you believe that littered SUP will negatively affect soil, water, and air?

- yes
- no

I do not know

PI-3 Do you believe that burnt SUP will negatively affect soil, water, and air?

yes

no

I do not know

PI-4 Do you believe that littered SUP will negatively affect the ecosystem (plants and animals)?

yes

no

I do not know

PI-5 Do you believe that burnt SUP will negatively affect the ecosystem (plants and animals)?

yes

no

I do not know

PI-6 Do you believe that littered SUP will negatively affect your health?

yes

no

I do not know

PI-7 Do you believe that burnt SUP will negatively affect your health?

yes

no

I do not know

PI-8 I am able to take following reduction method from tomorrow

Sort out plastic waste at source

strongly agree

agree

disagree

strongly disagree

Avoid taking plastic shopping bags at markets

strongly agree

agree

disagree

strongly disagree

Bring my reusable bag

strongly agree

agree

disagree

strongly disagree

Tell my friends and family not to use SUP

- strongly agree
- agree
- disagree
- strongly disagree

Tell city to promote recycling of SUP

- strongly agree
- agree
- disagree
- strongly disagree

Avoid taking plastic cutlery

- strongly agree
- agree
- disagree
- strongly disagree

Bring my reusable cutlery

- strongly agree
- agree
- disagree
- strongly disagree

Bring my bottle

- strongly agree
- agree
- disagree
- strongly disagree

Bury the SUP waste under the ground

- strongly agree
- agree
- disagree
- strongly disagree

Burn the SUP waste in the backyard

- strongly agree
- agree
- disagree
- strongly disagree

Participate in a clean-up activity

- strongly agree

- agree
- disagree
- strongly disagree

Other (specify:)

- strongly agree
- agree
- disagree
- strongly disagree

PI-8 Choose up to three main reasons why you do not/cannot take the above mentioned reduction methods (three answers)

- because it is not my habit
- because there is no strict rule or norms
- because SUP is more convenient than alternative
- because SUP is cheaper than alternative
- because there is no alternative
- because there is no treatment facility nearby for plastic waste
- because I do not want to bring my cups, bottles, and cutlery every time
- other (specify:)

PI-9 I believe that collected SUP is currently treated at school as below
to be burnt

- strongly agree
- agree
- disagree
- strongly disagree

to be recycled

- strongly agree
- agree
- disagree
- strongly disagree

to be exported

- strongly agree
- agree
- disagree
- strongly disagree

other (specify:)

- strongly agree
- agree

- disagree
- strongly disagree

SUP is NOT separately collected currently

- strongly agree
- agree
- disagree
- strongly disagree

PI-10 Will you separate your waste at source from tomorrow?

- yes
- no
- I do not know
- I want but I cannot because ()

PS. Sharing of knowledge

Have you talked about it with your family or friends for the last three months?

PS-1 What is Single use plastic (SUP)

- yes
- no

PS-2 Why SUP needs to be reduced

- yes
- no

PS-3 How SUP affects environment (soil, air, water)

- yes
- no

PS-4 How SUP affects plants and animals

- yes
- no

PS-5 How SUP affects human health

- yes
- no

PS-6 How to reduce SUP

- yes
- no

PS-7 How SUP treated after being collected

- yes
- no

PS-8 Why waste separation at source is important

- yes
- no

PS-9 What is 3Rs

- yes
- no

PP. Practice / Habit

Food Waste related questions

FI-1 Do you believe that food waste is a problem?

- yes
- no
- I do not know

FK-3 Why do you need to reduce/avoid food waste? (multiple answer)

- because people/teachers say so
- because I believe food waste generates bad odour and nuisance
- because I believe food waste pollutes the environment (air, soil, water)
- because I believe food waste is bad for the health
- because I believe food waste is bad for the animals and plants
- because I need to appreciate farmers and those who make food for us
- because I believe avoiding/reducing food waste saves energy and resources
- because there are starving people in the world due to lack of access to food
- because I believe there is a rule
- because I will receive punishment if I do not sort out plastic waste
- other (specify:)
- I do not know

FP-12 I have taken the following practice for the past month

a Sort out food waste at source

- never
- sometimes
- often
- always

b Avoid ordering/cook more food than I can eat

- never
- sometimes
- often
- always

c Check the refrigerator before going shopping

- never
- sometimes
- often
- always

d Tell my friends and family not to waste food

- never
- sometimes
- often
- always

e Tell city to make more composting facilities in the city

- never
- sometimes
- often
- always

f Eat food or use ingredients before it is expired

- never
- sometimes
- often
- always

g Share the exceed food with others

- never
- sometimes
- often
- always

h Bury the wasted food underground or make compost at home never

- sometimes
- often
- always

i Burn the wasted food at backyard

- never
- sometimes
- often
- always

j Cook with or eat what you have including leftovers before buying new ingredients/ foods

- never
- sometimes
- often

- always

k Plan your purchases before buying food and ingredients

- never
- sometimes
- often
- always

l Donate the edible food to the poor

- never
- sometimes
- often
- always

m Donate the leftover to farmers for animal feeding

- never
- sometimes
- often
- always

n other (specify:)

- never
- sometimes
- often
- always

FK-4 How does food waste affects the environment (air, water, soil)

- describe ()
- I do not know

FK-5 How food waste affects animals and plants

- describe ()
- I do not know

FK-6 How food waste affects human health?

- describe ()
- I do not know

FK-7 Which do you think would contribute to reduction of food waste? (multiple answer)

- waste separation at source
- avoid ordering/cook more food than I can eat
- Check the refrigerator before going shopping
- Tell my friends and family not to waste food
- Tell city to make more composting/biodigester facilities in the city
- Eat food or use ingredients before it is expired

- Share the exceed food with others
- bury the food waste underground or make compost at home
- burn the food waste at backyard
- Cook with or eat what you have including leftovers before buying new ingredients/ foods
- Plan your purchases before buying food and ingredients
- Donate the edible food to the poor
- Donate the leftover to farmers for animal feeding
- other (specify:
- I do not know

FK-8 How should food waste be treated after being collected? (multiple answer)

- to be burnt
- to be fed to animals
- to be composted
- other (specify:)

FI. Intention / Acceptance

FI-2 Do you believe that littered food waste will negatively affect soil, water, and air?

- yes
- no
- I do not know

FI-3 Do you believe that burnt food waste will negatively affect soil, water, and air?

- yes
- no
- I do not know

FI-4 Do you believe that littered food waste will negatively affect the ecosystem (plants and animals)?

- yes
- no
- I do not know

FI-5 Do you believe that burnt food waste will negatively affect the ecosystem (plants and animals)?

- yes
- no
- I do not know

FI-6 Do you believe that littered food waste will negatively affect your health?

- yes
- no
- I do not know

FI-7 Do you believe that burnt food waste will negatively affect your health?

- yes
- no
- I do not know

FI-8 I am able to take each reduction method from tomorrow

- a. Sort out food waste at source
 - strongly agree
 - agree
 - disagree
 - strongly disagree
- b. Avoid ordering/cook more food than I can eat
 - strongly agree
 - agree
 - disagree
 - strongly disagree
- c. Check the refrigerator before going shopping
 - strongly agree
 - agree
 - disagree
 - strongly disagree
- d. Tell my friends and family not to waste food
 - strongly agree
 - agree
 - disagree
 - strongly disagree
- e. Tell city to make more composting facilities in the city
 - strongly agree
 - agree
 - disagree
 - strongly disagree
- f. Eat food or use ingredients before it is expired
 - strongly agree
 - agree
 - disagree
 - strongly disagree
- g. Share the exceed food with others
 - strongly agree
 - agree

- disagree
- strongly disagree

h. Bury the food waste under the ground

- strongly agree
- agree
- disagree
- strongly disagree

i. Burn the food waste at backyard

- strongly agree
- agree
- disagree
- strongly disagree

j. Cook with or eat what you have including leftovers before buying new ingredients/ foods

- strongly agree
- agree
- disagree
- strongly disagree

k. Plan your purchases before buying food and ingredients

- strongly agree
- agree
- disagree
- strongly disagree

l. Donate the edible food to the poor

- strongly agree
- agree
- disagree
- strongly disagree

m. Donate the leftover to farmers for animal feeding

- strongly agree
- agree
- disagree
- strongly disagree

other (specify:)

- strongly agree
- agree
- disagree
- strongly disagree

FI-9 Choose up to three main reasons why you do not/cannot take the above mentioned reduction methods (three answers)

- because leaving food is my habit
- because there is no strict rule or norms
- because I cannot eat what I do not like/want (the food is not good)
- because I do not have time to eat all
- because there is no treatment facility (composting, biodigestor) for food waste
- other (specify:)

FI-10 I believe that collected food waste is treated at school as below

to be burnt

- strongly agree
- agree
- disagree
- strongly disagree

to be fed to animals

- strongly agree
- agree
- disagree
- strongly disagree

to be composted

- strongly agree
- agree
- disagree
- strongly disagree

other (specify:)

- strongly agree
- agree
- disagree
- strongly disagree

food waste is not currently collected

- strongly agree
- agree
- disagree
- strongly disagree

FS. Sharing of knowledge

Have you talked about it with your family or friends for the last three months?

FS-2 Why food waste needs to be reduced

- yes
- no

FS-3 How food waste affects environment (soil, air, water)

- yes
- no

FS-4 How food waste affects plants and animals

- yes
- no

FS-5 How food waste affects human health

- yes
- no

FS-6 How to reduce food waste

- yes
- no

FS-7 How food waste treated after being collected

- yes
- no

FP. Practice / Habit

Source Separation

PK-9 Why waste separation at source is important (multiple answer)

- because people/teachers say so
- because I believe waste separation contributes to waste reduction
- because I believe waste separation will reduce the environmental pollution
- because I believe waste separation will reduce the impact on health
- because I believe waste separation will reduce the impact on animals and plants
- because I believe waste separation will bring about economic benefits
- because city does not separate the waste
- because value of waste is higher if the waste is sorted out
- because there is such rule and regulation
- because I will be punished when I do not separate the waste at source
- I do not know
- other (specify:

SK-7 I know how to separate the waste at home

- strongly disagree
- disagree

- agree
- strongly agree
- not relevant

SK-8 I know how to separate the waste at school

- strongly disagree
- disagree
- agree
- strongly agree
- not relevant

PK-10 What is 3Rs?

PK-11 put Rs in priority order:

- refuse, reduce, recycle
- reuse, recycle, recover
- rethink, refuse, repair
- I do not know
- other (specify: _____)

PP-7 I have separated the waste at school for the past month

- never
- sometimes
- often
- always

PP-8 if yes, what do you sort out? (multiple answer)

- food waste
- garden waste
- PET
- other plastic
- metal
- paper/cardboard
- textile (used clothes)
- glass
- hazardous waste
- other (specify: _____)

PP-9 If yes, who separates the waste at school? (multiple answer)

- me (waste generator)
- local government
- school

- janitor
- waste collection company
- other ()

SI-7 I plan to continue waste separation at school

- strongly agree
- agree
- disagree
- strongly disagree
- not relevant

SI-8 I will recommend my friends to separate waste at school

- strongly disagree
- disagree
- agree
- strongly agree
- not relevant

PP-11 if you do not separate, why do you NOT separate the waste at school? (multiple answers)

- because it is not my habit
- because there is no collection service for segregated waste
- because I am lazy
- because there are not adequate trash bins (quality) for sorted waste nearby
- because there are not enough trash bins (capacity) for sorted waste nearby
- because there is no space to store them
- because there is no strict rule
- because there is no time to separate the waste
- because I do not know how to separate the waste
- because the collectors mix all the waste even if I separate the waste
- other (specify:

SP. Practice / Habit

PP-2 I have separated the waste at home for the past month

- never
- sometimes
- often
- always

PP-3 if yes, what do you sort out? (multiple answer)

- food waste
- garden waste

- PET
- other plastic
- metal
- paper/cardboard
- textile (used clothes)
- glass
- hazardous waste
- other (specify:)

Who separates the waste at home? (multiple answer)

- me (waste generator)
- local government
- community
- maid
- mother
- other ()

SI-5 I plan to continue waste separation at home

- strongly disagree
- disagree
- agree
- strongly agree
- not relevant

SI-6 I will recommend my family members to separate waste at source at home

- strongly disagree
- disagree
- agree
- strongly agree
- not relevant

PP-6 if no, why do you NOT separate the waste at home? (multiple answers)

- because it is not a habit
- because there is no sorted-waste collection service
- because I am lazy
- because there is no adequate trash bins (quality) for sorted waste
- because there is no enough trash bins (capacity) for sorted waste
- because there is no space to store them g because there is no strict rule
- because there is no time to separate the waste
- because I do not know how to separate the waste
- because the collectors mix all the waste even if I separate the waste

other (specify:)

<At Thanh Loc High School after intervention>

Which activity did you participate in? (List up all activities that are implemented)

Which activity gave you more knowledge and information about SUP?

Which activity has motivated you more to reduce SUP waste? Why?

Which activity has motivated you more to reduce food waste? Why?

Which activity/teaching method would you recommend or suggest to raise knowledge and reduce SUP waste?

Which activity/teaching method would you recommend or suggest to raise knowledge and reduce food waste?

What did you learn from the activities?