





Bronwyn Hyland, Annashea Carlisle, Kate Petkov, Mila Edwards & Aamilah Khanu









## TEAM MEMBERS





Bronwyn Hyland Marketing & Finance



Annashea Carlisle Organizational Leadership & Marketing



Kate Petkov Marketing



Mila Edwards Marketing



Aamilah Khanu Marketing & Business Law

# MAIN PROBLEM

- The main problem that our project is looking to address is the significant amount of waste through plastic cups and non-recyclable packaging in the beverage industry.
- To learn the ways in which more sustainable practices would increase potential sales and influence college students to sway towards more sustainable brands.







## WHY SUSTAINABILITY?

- Most stores do not know the extent of waste that they produce on a daily basis, therefore we wanted to see if students are even aware of the amount of waste that occurs.
- We tend to see that college students are less likely to choose an eco-friendly option. Therefore we wanted to learn the reason behind this.

## RESEARCH OBJECTIVES

- We wanted to gain an understanding of student's awareness and knowledge of sustainable practices in coffee shops
- Learn ways in which coffee shops can adopt more sustainable practices.
- Understand college student's opinions on sustainability.
- Understand the effect that sustainability would have on college student's preferences when it comes to purchasing a cup of coffee.





## FOCUS GROUP DEMOGRAPHICS

- **1.** Actively enrolled students at the University of Miami.
- 2. The group consisted of six males and three females, with ages ranging from nineteen to twenty-two.
- 3. There were seven seniors and two freshmen, all with varying majors.
- **4.** Majors included two participants in finance, two in communications, and one in each of the following: business analytics, public relations, management/marketing, psychology and industrial engineering.

# KEY FINDINGS OF FOCUS GROUP

1. Most students are aware of sustainability but prioritize ease and affordability

2. Sustainable options (reusable cups, organic products) are often too expensive

- **a.** Many feel their individual actions have minimal environmental impact, lowering motivation to spend more
- 3. Messaging like "You saved X gallons of water" makes students feel their actions matter
- **4.** Students were open to "green memberships" but preferred simple, non-subscription models
- 5. Incentives like loyalty programs, free food items, and rewards boost participation





# SAMPLING PROCEDURE & SIZE

- Selected students from different academic schools within the University of Miami (ex: Herbert Business School, School of Communications, and Nursing School)
- We used Stratified sampling method by selecting samples from each school randomly. This allowed us to ensure representation from different academic majors.
- Total Sample Size was 87.

## QUESTIONARE

- 1. What is your current academic major?
- 2. How important is sustainability to you in your daily life?
- 3. On average, how often do you visit coffee shops?
- 4. Do you believe sustainable practices in coffee shops (e.g., reusable cups, sustainable packaging) are more expensive than conventional practices?
- 5. How often do you think about the environmental impact of the waste produced by your coffee shop choices (e.g., plastic cups, straws)?



## SURVEY

## DEMOGRAPHICS

- 1. Must be students actively enrolled in the University of Miami.
- 2. Categorized age range from 18-27
- **3.**Year in school: Undergraduate and Graduate students
- 4. Gender: Male or Female
- 5. Major/Academic school
- 6. Sustainably conscious consumers
- 7. Consumers who are not environmentally conscious





- 1. There is an association between students' major and their likelihood of participating in sustainability initiatives at coffee shops.
- 2. Students' frequency of coffee shop visits is positively correlated with their likelihood of participating in sustainability programs (rewards for using reusable cups).
- 3. The perceived cost of sustainable options is negatively correlated with students' willingness to choose eco-friendly practices in coffee shops.
- 4. There is a negative relationship between students' perceived inconvenience of using reusable cups and their participation in sustainability programs.



## HUPOTHESIS CONTINUED

- 5. Students' awareness of the environmental impact of waste is positively correlated with their preference for sustainable coffee shops.
- 6. The presence of marketing or visual reminders about sustainability in coffee shops is positively correlated with students' likelihood of choosing sustainable options.
- 7. There is a positive correlation between students' satisfaction with sustainability incentives (discounts, free items) and their long-term commitment to sustainable practices in coffee shops.
- 8. Students' environmental consciousness and awareness of sustainability initiatives predict their likelihood of using reusable cups at coffee shops.



Chi-Square Tests					
	Value	alf	Asymptotic Significance		
	Value	df	(2-sided)		
Pearson Chi-Square	56.819 <sup>a</sup>	52	.300		
Likelihood Ratio	38.463	52	.919		
N of Valid Cases	85				

a. 66 cells (94.3%) have expected count less than 5. The minimum expected count is .05. HYPOTHESIS: THERE IS AN ASSOCIATION BETWEEN STUDENTS' MAJOR AND THEIR LIKELIHOOD OF PARTICIPATING IN SUSTAINABILITY INITIATIVES AT COFFEE SHOPS.

#### SURVEY QUESTIONS:

- 1. WHAT IS YOUR CURRENT ACADEMIC MAJOR?
- 2. HOW IMPORTANT IS SUSTAINABILITY TO YOU IN YOUR DAILY LIFE?

FINDINGS: NO STATISTICALLY SIGNIFICANT DIFFERENCE BETWEEN MAJORS

#### IMPLICATION:

• SUSTAINABILITY CAMPAIGNS SHOULD BE BROADLY TARGETED RATHER THAN FOCUSED ON SPECIFIC MAJORS.





Correlations						
		On average, how often do you visit coffee shops (ex: Peet's Coffee)?	How likely are you to engage with sustainability programs (e.g., reusable cups, recycling) when you visit a coffee shop?			
On average, how often do	Pearson Correlation	1	118			
you visit coffee shops (ex: Peet's Coffee)?	Sig. (2-tailed)		.282			
reets Collee)?	N	85	85			
How likely are you to engage with sustainability	Pearson Correlation	118	1			
programs (e.g., reusable	Sig. (2-tailed)	.282				
cups, recycling) when you visit a coffee shop?	Ν	85	85			

HYPOTHESIS: STUDENTS' FREQUENCY OF COFFEE SHOP VISITS IS POSITIVELY CORRELATED WITH THEIR LIKELIHOOD OF PARTICIPATING IN SUSTAINABILITY PROGRAMS (REWARDS FOR USING REUSABLE CUPS).

#### **SURVEY QUESTIONS:**

- 1. HOW OFTEN DO YOU VISIT COFFEE SHOPS?
- 2. HOW LIKELY ARE YOU TO USE SUSTAINABLE OPTIONS?

#### FINDINGS: WEAK BUT POSITIVE CORRELATION

• FREQUENT COFFEE DRINKERS WERE MORE LIKELY TO PARTICIPATE IN SUSTAINABILITY EFFORTS

#### **IMPLICATION**

 COFFEE SHOPS SHOULD TARGET REGULARS WITH LOYALTY REWARDS OR PUNCH CARDS FOR SUSTAINABLE CHOICES





Correlations Do you believe sustainable practices in How much coffee shops more would (e.g., reusable you be willing cups. to pay for ecosustainable packaging) are friendly options (e.g., using more expensive than reusable cups or sustainable conventional packaging)? practices? .277 Spearman's rho How much more would you 1.000 Correlation Coefficient be willing to pay for eco-Sig. (2-tailed) .010 friendly options (e.g., using reusable cups or 85 85 sustainable packaging)? Do you believe sustainable .277 Correlation Coefficient 1.000 practices in coffee shops (e.g., reusable cups, Sig. (2-tailed) .010 sustainable packaging) are more expensive than 85 N 85 conventional practices?

\*. Correlation is significant at the 0.05 level (2-tailed).



HYPOTHESIS: THE PERCEIVED COST OF SUSTAINABLE OPTIONS IS NEGATIVELY CORRELATED WITH STUDENTS' WILLINGNESS TO CHOOSE ECO-FRIENDLY PRACTICES IN COFFEE SHOPS

#### **SURVEY QUESTIONS:**

- 1. HOW MUCH MORE WOULD YOU BE WILLING TO PAY FOR ECO-FRIENDLY OPTIONS (E.G., USING REUSABLE CUPS OR SUSTAINABLE PACKAGING)?
- 2. DO YOU BELIEVE SUSTAINABLE PRACTICES IN COFFEE SHOPS ARE MORE EXPENSIVE THAN CONVENTIONAL PRACTICES

#### **FINDINGS:**

- CONTRARY TO THE HYPOTHESIS, THE CORRELATION IS POSITIVE: THOSE WHO BELIEVE SUSTAINABLE OPTIONS ARE MORE EXPENSIVE ARE ALSO MORE WILLING TO PAY FOR THEM
- THIS SUGGESTS THAT STUDENTS WHO ACKNOWLEDGE THE HIGHER COST MAY ALSO BE MORE ENVIRONMENTALLY COMMITTED OR WILLING TO INVEST IN THEIR VALUES.

#### IMPLICATION

- COST ISN'T NECESSARILY A DETERRENT FOR ALL STUDENTS—SOME ARE WILLING TO PAY MORE IF THE SUSTAINABILITY MESSAGE IS STRONG.
- POSITION ECO-FRIENDLY PURCHASES AS A CONTRIBUTION TO A CAUSE, NOT JUST A PRODUCT



Model Summary					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	
1	.188ª	.035	.024	.731	

a. Predictors: (Constant), How convenient do you find it to bring a reusable cup to a coffee shop?

Coefficients <sup>a</sup>						
		Unstandardize	d Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.083	.320		3.384	.001
	How convenient do you find it to bring a reusable cup to a coffee shop?	.215	.123	.188	1.744	.085

a. Dependent Variable: Would you be more likely to use a reusable cup if it eas easier to clean or your coffee shop offered a cup-cleaning service?

ANOVA <sup>a</sup>						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1.625	1	1.625	3.042	.085 <sup>b</sup>
	Residual	44.328	83	.534		
	Total	45.953	84			

- a. Dependent Variable: Would you be more likely to use a reusable cup if it eas easier to clean or your coffee shop offered a cup-cleaning service?
- b. Predictors: (Constant), How convenient do you find it to bring a reusable cup to a coffee shop?

HYPOTHESIS: THERE IS A NEGATIVE RELATIONSHIP BETWEEN STUDENTS' PERCEIVED INCONVENIENCE OF USING REUSABLE CUPS AND THEIR PARTICIPATION IN SUSTAINABILITY PROGRAMS.

#### SURVEY QUESTIONS:

- 1. HOW CONVENIENT DO YOU FIND IT TO BRING A REUSABLE CUP TO A COFFEE SHOP?
- 2. WOULD YOU BE MORE LIKELY TO USE A REUSABLE CUP IF IT WAS EASIER TO CLEAN OR IF YOUR COFFEE SHOP OFFERED A CUP-CLEANING SERVICE?

#### FINDINGS:

- POSITIVE RELATIONSHIP BUT NOT STATISTICALLY SIGNIFICANT
- STUDENTS WHO FIND REUSABLE CUPS MORE CONVENIENT ARE MORE LIKELY TO USE THEM, BUT THE RESULT WASN'T STATISTICALLY STRONG ENOUGH TO CONFIRM THIS

#### IMPLICATION:

 ALTHOUGH NOT SIGNIFICANT, RESULTS SUGGEST A TREND: IMPROVING CONVENIENCE (CUP-CLEANING STATIONS) COULD HELP INCREASE PARTICIPATION



	Correlations		
		How often do you think about the environmental impact of the waste produced by your coffee shop choices (e.g., plastic cups, straws)?	How likely are you to choose a coffee shop that promotes sustainability (e.g., eco-friendly packaging, reusable cup discounts) over one that does not?
How often do you think about the environmental	Pearson Correlation	1	389**
impact of the waste produced by your coffee	Sig. (2-tailed)		<.001
shop choices (e.g., plastic cups, straws)?	N	85	85
How likely are you to choose a coffee shop that	Pearson Correlation	389**	1
promotes sustainability (e. g., eco-friendly packaging,	Sig. (2-tailed)	<.001	
reusable cup discounts) over one that does not?	N	85	85

<sup>\*\*.</sup> Correlation is significant at the 0.01 level (2-tailed).



HYPOTHESIS: STUDENTS' AWARENESS OF THE ENVIRONMENTAL IMPACT OF WASTE IS POSITIVELY CORRELATED WITH THEIR PREFERENCE FOR SUSTAINABLE COFFEE SHOPS.

#### SURVEY QUESTIONS:

- 1. HOW OFTEN DO YOU THINK ABOUT THE ENVIRONMENTAL IMPACT OF THE WASTE PRODUCED BY YOUR COFFEE SHOP CHOICES (E.G., PLASTIC CUPS, STRAWS)?
- 2. HOW LIKELY ARE YOU TO CHOOSE A COFFEE SHOP THAT PROMOTES SUSTAINABILITY (E.G., ECO-FRIENDLY PACKAGING, REUSABLE CUP DISCOUNTS) OVER ONE THAT DOES NOT?

#### FINDINGS:

- MODERATE NEGATIVE CORRELATION
- AS STUDENTS THINK MORE ABOUT WASTE, THEY ARE LESS LIKELY TO SAY THEY'D CHOOSE A SUSTAINABLE COFFEE SHOP

#### IMPLICATION:

- AWARENESS ALONE DOESN'T GUARANTEE ACTION
- STUDENTS MAY UNDERSTAND SUSTAINABILITY'S IMPORTANCE, BUT THEIR CHOICES ARE STILL DRIVEN BY OTHER FACTORS (COST, CONVENIENCE, TASTE)



Chi-Square Tests					
	Value	df	Asymptotic Significance (2-sided)		
Pearson Chi-Square	30.677ª	6	<.001		
Likelihood Ratio	28.045	6	<.001		
Linear-by-Linear Association	20.744	1	<.001		
N of Valid Cases	85				

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is 1.88.

## REMINDERS ABOUT SUSTAINABILITY IN COFFEE SHOPS IS POSITIVELY CORRELATED WITH STUDENTS' LIKELIHOOD OF CHOOSING SUSTAINABLE OPTIONS.

HYPOTHESIS: THE PRESENCE OF MARKETING OR VISUAL

#### **SURVEY QUESTIONS:**

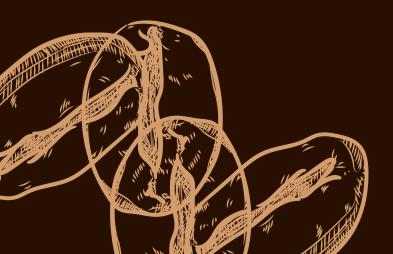
- 1. HOW OFTEN DO YOU NOTICE SUSTAINABILITY-RELATED MESSAGES (E.G., RECYCLING REMINDERS, ECO-FRIENDLY SIGNAGE) AT COFFEE SHOPS?
- 2. DO YOU THINK VISUAL REMINDERS (E.G., ON CUPS OR POSTERS) INFLUENCE YOUR CHOICE TO USE SUSTAINABLE PRACTICES AT COFFEE SHOPS?

#### FINDINGS: STRONG CORRELATION

• SUSTAINABILITY MESSAGING IN COFFEE SHOPS INCREASES STUDENTS' LIKELIHOOD OF CHOOSING SUSTAINABLE OPTIONS

#### **IMPLICATION**

 STRATEGIC SUSTAINABILITY MESSAGING SHOULD BE IMPLEMENTED IN STORES TO PROMOTE ECO-FRIENDLY CHOICES





HYPOTHESIS: THERE IS A POSITIVE CORRELATION BETWEEN STUDENTS'
SATISFACTION WITH SUSTAINABILITY INCENTIVES (DISCOUNTS, FREE ITEMS)
AND THEIR LONG-TERM COMMITMENT TO SUSTAINABLE PRACTICES IN
COFFEE

#### Correlations

Correlation Coefficient

Sig. (2-tailed)

N

	If coffee shops offered more incentives for sustainable behaviors (e.g., discounts, free food items), would you be more likely to adopt sustainable practices?	How likely are you to continue practicing sustainability in coffee shops if you receive long-term rewards (e.g., ongoing discounts for using reusable cups)?
Correlation Coefficient	1.000	526 <sup>**</sup>
Sig. (2-tailed)		<.001
N	84	84

-.526

<.001

84

1.000

\*\*. Correlation is significant at the 0.01 level (2-tailed).

more incentives for

How likely are you to

sustainability in coffee

ongoing discounts for using reusable cups)?

shops if you receive long-

continue practicing

term rewards (e.g.,

sustainable behaviors (e. g., discounts, free food

items), would you be more likely to adopt sustainable



Spearman's rho If coffee shops offered

practices?

#### **SURVEY QUESTIONS:**

- 1. IF COFFEE SHOPS OFFERED MORE INCENTIVES FOR SUSTAINABLE BEHAVIORS (E.G., DISCOUNTS, FREE FOOD ITEMS), WOULD YOU BE MORE LIKELY TO ADOPT SUSTAINABLE PRACTICES?
- 2. HOW LIKELY ARE YOU TO CONTINUE PRACTICING SUSTAINABILITY IN COFFEE SHOPS IF YOU RECEIVE LONG-TERM REWARDS (E.G., ONGOING DISCOUNTS FOR USING REUSABLE CUPS)?

#### FINDINGS: SIGNIFICANT NEGATIVE CORRELATION.

• THERE IS A MEANINGFUL AND SIGNIFICANT RELATIONSHIP BETWEEN STUDENT INTEREST IN INCENTIVES AND THEIR LIKELIHOOD OF MAINTAINING SUSTAINABLE HABITS, BUT THE WORDING OR SCALING MAY HAVE FLIPPED THE DIRECTION OF THE CORRELATION

#### **IMPLICATION**

- REWARD-BASED SYSTEMS MATTER: DISCOUNTS, FREEBIES, OR PUNCH CARDS CAN DRIVE REPEAT SUSTAINABLE BEHAVIORS.
- USE ONGOING REINFORCEMENT TO BUILD SUSTAINABILITY INTO STUDENTS' COFFEE ROUTINES.



Model Summary					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	
1	.392ª	.154	.143	1.129	

a. Predictors: (Constant), How concerned are you about the environmental impact of your daily habits (e.g., waste, plastic usage)?

	Coefficients <sup>a</sup>						
	Standardized Unstandardized Coefficients Coefficients						
Model		В	Std. Error	Beta	t	Sig.	
1	(Constant)	4.202	.342		12.300	<.001	
	How concerned are you about the environmental impact of your daily habits (e.g., waste, plastic usage)?	440	.113	392	-3.880	<.001	

a. Dependent Variable: How likely are you to use a reusable cup when purchasing coffee at a coffee shop?

ANOVA <sup>a</sup>						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	19.173	1	19.173	15.052	<.001 b
	Residual	105.721	83	1.274		
	Total	124.894	84			

- a. Dependent Variable: How likely are you to use a reusable cup when purchasing coffee at a coffee shop?
- b. Predictors: (Constant), How concerned are you about the environmental impact of your daily habits (e.g., waste, plastic usage)?

HYPOTHESIS: STUDENTS' ENVIRONMENTAL CONSCIOUSNESS AND AWARENESS OF SUSTAINABILITY INITIATIVES PREDICT THEIR LIKELIHOOD OF USING REUSABLE CUPS AT COFFEE SHOPS.

#### SURVEY QUESTIONS:

- 1. HOW CONCERNED ARE YOU ABOUT THE ENVIRONMENTAL IMPACT OF YOUR DAILY HABITS (E.G., WASTE, PLASTIC USAGE)?
- 2. HOW LIKELY ARE YOU TO USE A REUSABLE CUP WHEN PURCHASING COFFEE AT A COFFEE SHOP?

#### FINDINGS: SIGNIFICANT NEGATIVE RELATIONSHIP

• EVEN WHEN STUDENTS ARE CONCERENED ABOUT THE ENVIRONMENTAL IMPACTS OF THEIR DAILY HABITS, THEY ARE STILL NOT LIKELY TO USE REUSABLE CUPS

#### **IMPLICATION:**

- STUDENTS CARE, BUT DON'T ALWAYS ACT
- AWARENESS ≠ BEHAVIOR
- BARRIERS: CONVENIENCE, HABITS
- NEED: INCENTIVES, EASE, VISUAL PROMPTS

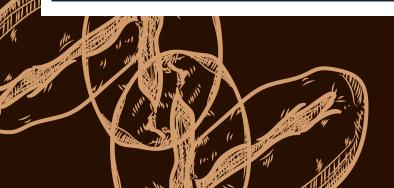


## MAIN FINDINGS

#### Statistics

		How much more would you be willing to pay for eco-friendly options (e.g., using reusable cups or sustainable packaging)?	How often do you think about the environmenta I impact of the waste produced by your coffee shop choices (e.g., plastic cups, straws)?	How likely are you to use a reusable cup when purchasing coffee shop?
N	Valid	85	85	85
	Missing	2	2	2
Mean		2.09	2.54	2.96
Std. De	viation	.881	.920	1.219

	Variable	Percent
Major	Business	10
		48
	Engineering Arts	17
	Social Sciences	8
	Health Sciences	5
	Other (please specify)	16
Age	18-20	33
	21-23	51
	24-26	9
	27+	5
Gender	Male	29
	Female	66
	Non-binary / third gender	3





# MAIN FINDINGS THROUGH SPSS

- STUDENTS' MAJOR HAS NO SIGNIFICANT EFFECT ON SUSTAINABILITY PARTICIPATION
- SUSTAINABILITY MESSAGING AND MARKETING EFFORTS IN COFFEE SHOPS INCREASES STUDENTS' SUSTAINABLE CHOICES
- COSTS AREN'T SEEN AS A MAJOR DETERRENT WHEN IT COMES TO PAYING MORE FOR SUSTAINABLE PRODUCTS
- ENVIRONMENTAL AWARNESS DRIVES SUSTAINABLE CHOICES
- EDUCATION AND VISIBILITY ARE CRITICAL DRIVERS FOR SUSTAINABLE BEHAVIOR ADOPTION
- INCENTIVES BOOST SUSTAINABLE HABITS

## SUSTAINABLE PRACTICE EXAMPLE

## **VIDEO**



## RECOMMENDATIONS

#### 1. Green Incentives

a. Provide discounts for using reusable cups and make reusable items more accessible

#### 2. Student Engagement

a. Recruit student volunteers or interns to help promote and manage sustainability initiatives

#### 3. Customer Rewards

a. Use punch cards or app-based trackers, share leaderboards or weekly winners

# RECOMMENDATIONS CONTINUED...

#### 1. Increase Brand Loyalty

a. Develop a clear tagline that aligns with the brand's sustainable practices

#### 2. Specific Target Audience

a. Use survey demographics to determine which students were most intrigued by the sustainable practices and tailor your message to them

#### 3. Refine Packaging

a. Determine which sustainable product features are most important to consumers; fit packaging to customer's preferences.



## MARKETING STRATEGIES

### **Environmental Impact Messaging**

- Take a marketing approach with a catchy punchline
- o Include infographics on cups, napkins, or menus
- Use Visual Reminders
  - Post signage or digital displays
  - Install recycling guides or waste sorting visuals
- Run Sustainability Awareness Campaigns
  - Collaborate with campus organizations or sustainability clubs
  - o Include challenges, freebies, or giveaways









## THANK BOU

Any questions?

