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### **Survey Site**



### Mount Takao (高尾山)

- 3 million visitors per year (increasing)
- 1,500 unique plant species
- 1.5 hours from Yotsuya Station
- National Park with 7 hiking trails



### **Survey Site**



### Mount Takao (高尾山)

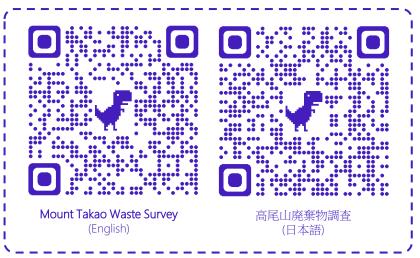
- 3 million visitors per year (increasing)
- 1,500 unique plant species
- 1.5 hours from Yotsuya Station
- National Park with 7 hiking trails



"There is a limit to how much volunteers can do" - Mount Takao Base Camp Interviewees

# **Survey Methodology (1)**

- 5-year time frame (2018 2022)
- 2<sup>nd</sup> Jan 10<sup>th</sup> Jan 2023
- Min. 40 data points per participant
- Best-Worst Scaling (BIBD Design)





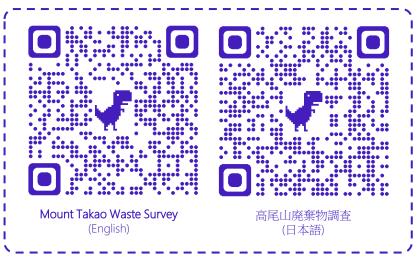




	Questions	Variable	Measurement
1	How many times have you visited Mount Takao within the last five years?	General	Numerical
2	Did you purchase any food or drinks before your hike(s)?	Individual Behavior	Binary
3	Throughout the hike, how much waste were you carrying with you?	Individual Behavior	Multiple Choice
4	Did you want to dispose of your trash at Mount Takao directly or take it home?	Individual Behavior	Binary
.1	Assuming you intended to take your trash home, were you less motivated to make purchases knowing you will be carrying the waste for a longer period of time?	Individual Behavior	Binary
	Assuming you intended to dispose of your waste, do you think more opportunities to dispose of trash will be useful to visitors?		
5	During your hike, did you see litter on the ground?	Waste experience	Binary
.1	If yes, please specify the quantity	Waste experience	Multiple Choice
6	Does the amount of waste at Mt. Takao negatively impact your experience?	Behavioral change	Binary
7	Would you be motivated to clean up existing trash left on the ground if you knew the next disposal opportunity was nearby?	Behavioral change	Binary
8	Would you be motivated to clean up other existing waste on the mountain for a discount at local stores?	Behavioral change	Binary
9	Would a reward or compensation motivate you to dispose of your trash properly?	Behavioral change	Binary

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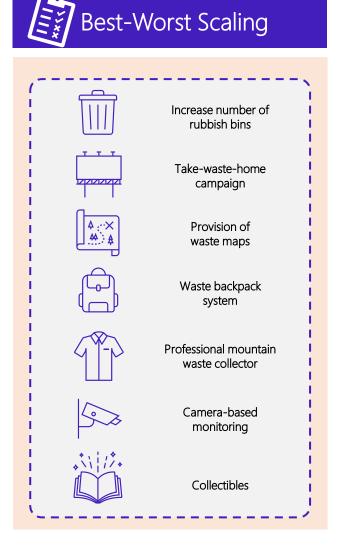


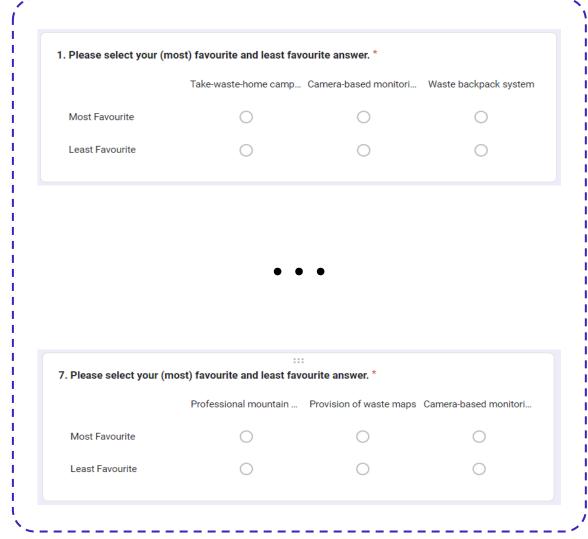




	Questions	Variable	Measurement
1	How many times have you visited Mount Takao within the last five years?	General	Numerical
2	Did you purchase any food or drinks before your hike(s)?	Individual Behavior	Binary
10	What is your gender? Please select the appropriate answer	Gender	Multiple Choice
11	What is your country of origin?	Origin	Textual
12	Which age range do you belong to? Please select the appropriate answer	Age	Multiple Choice
13	Please select your highest completed educational achievement	Education	Multiple Choice
14	Do you currently pursue a job?	Occupation	Multiple Choice
15	What is your gross annual income? Please select one of the following ranges	Income	Multiple Choice
16	Please insert the name of the city or town you currently reside in and the number of	Geography	Textual
16	years or months that you have been staying there		Numerical
17	Do you regularly engage in one or more of any of these free time activities?	Hobby	Multiple Selection
18	Did you participate in any kind of environmental volunteer activities during the last five years?	Volunteer	Binary
8.1	How many days per year do you participate in those volunteer activities? Please insert a numerical value only (e.g., 4 in case of 4 days)	VolunteerTime	Numerical
19	Did you make any monetary contribution to any environmental volunteer activities during the last five years?	Contribution	Binary
9.1	How high were your monetary contributions to environmental volunteer activities during the last five years?  discount at local stores?	ContributionAmount	Textual Numerical
9	Would a reward or compensation motivate you to dispose of your trash properly?	Behavioral change	Binary

## **Survey Methodology (2)**



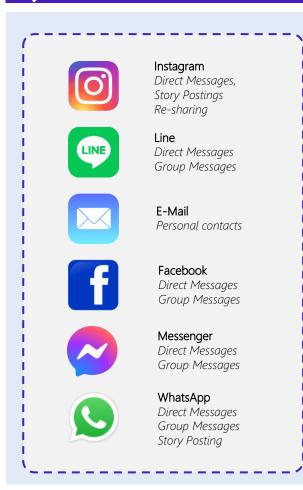


Classic BWS Pre-set replies

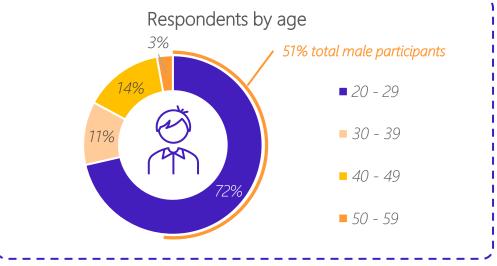
BIBD Design 7x iterations à 3 options

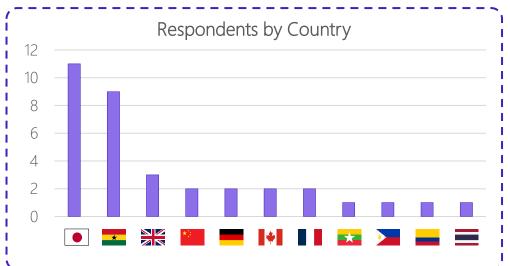
### **Survey Process**

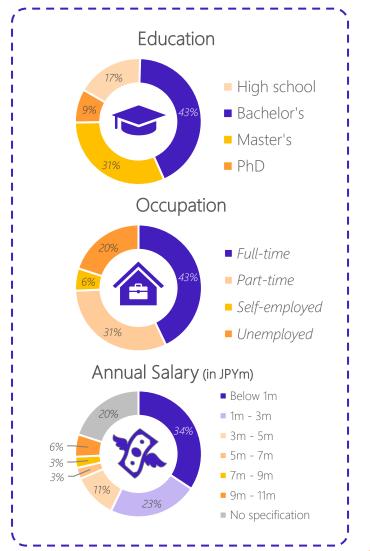
# Snowball sampling



#### Respondent Structure (N = 35)







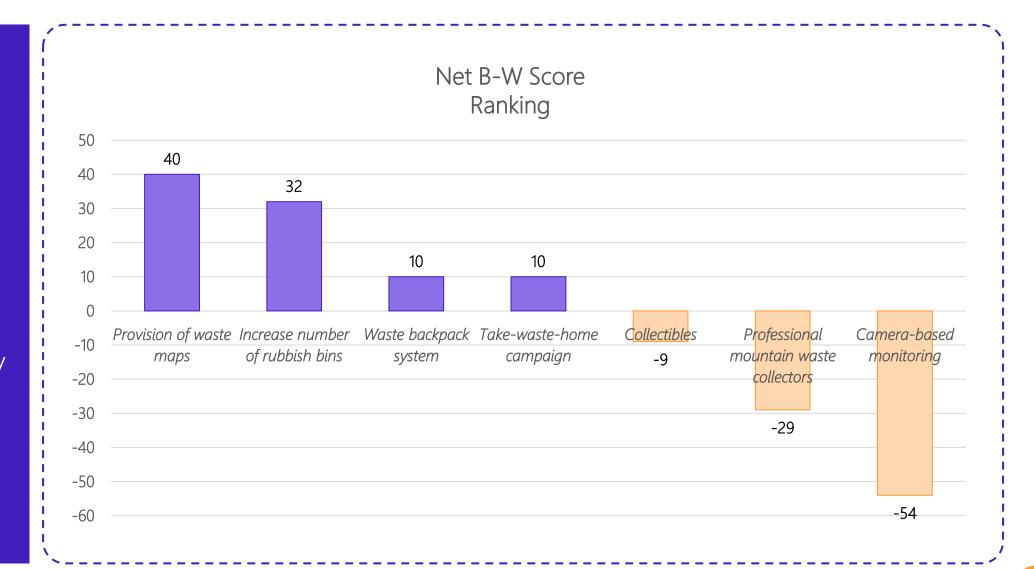
### **Results**

0.37 visits per year

60% witness waste

only 40% affected negatively

46% take waste home



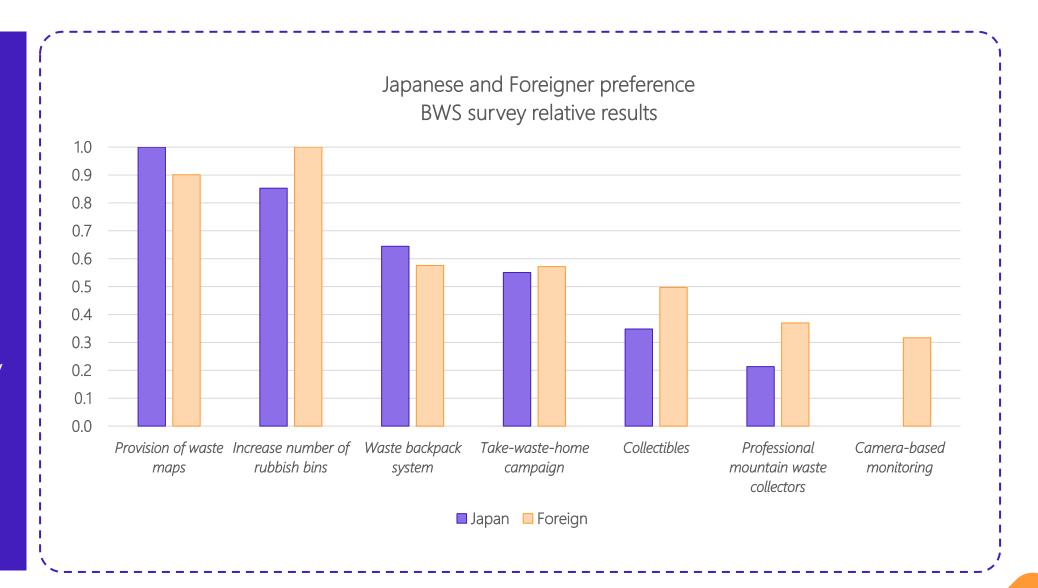
### **Results**

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### **Conclusion**



- Exploratory results indicate expected cultural differences
- Yet significant similarity in sub-set results
- High rate of first-time visitors and foreigners



- Limited sample diversification and small size
- Interpretation restricted



#### **Sources:**

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https://pixabay.com/photos/mt-fuii-iapan-mt-takao-mount-takao-4751462/\_

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Map excerpt from G

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Thank you for your attention!

Any comment, question or criticism would be highly appreciated!