



## Designing strategies

to optimize young solo traveler's  
intra-city journey toward sustainability

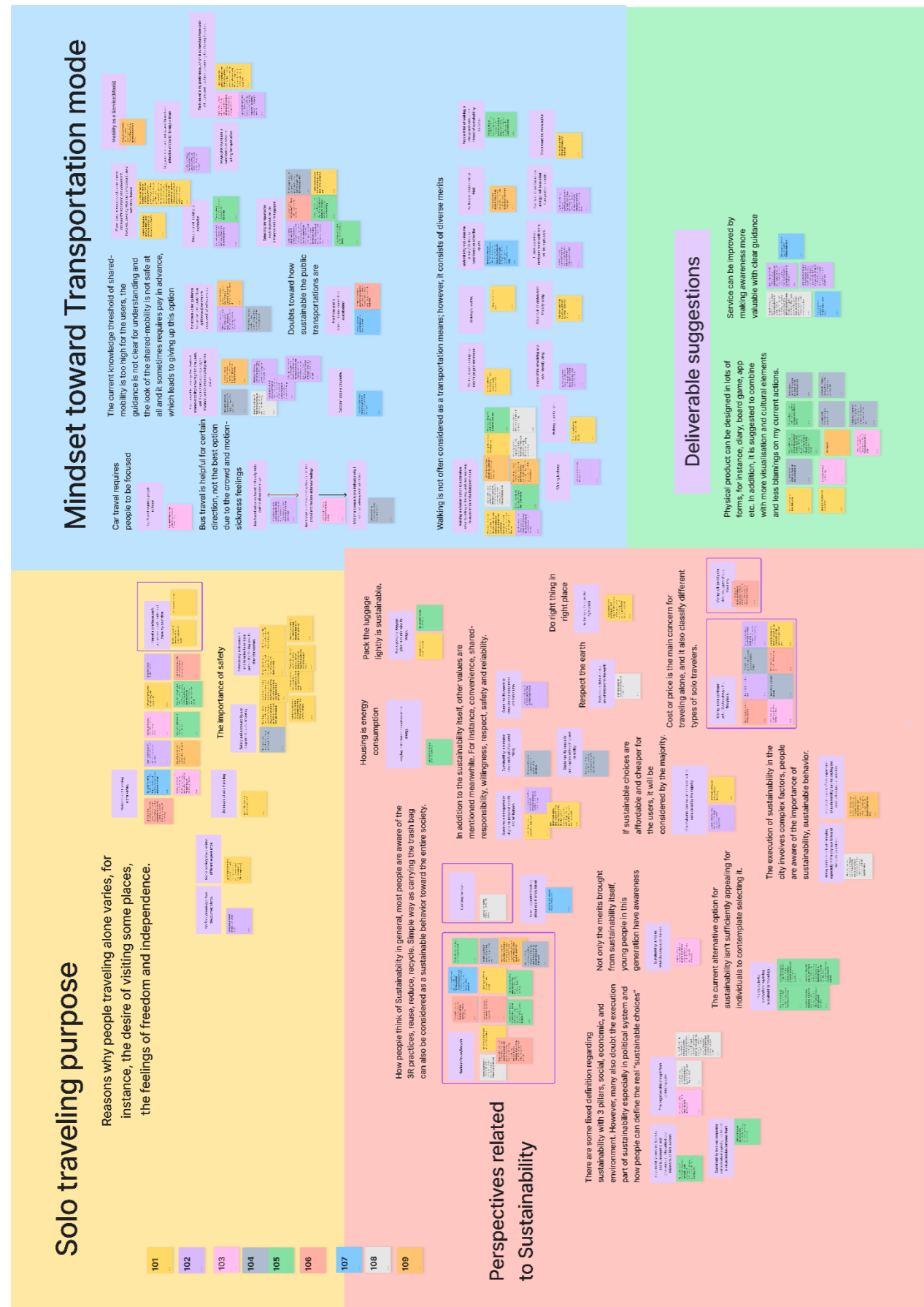


## Appendix

## Table of Content

Appendix 1- Informal Interview Coding process .....	3
Appendix 2- In-depth interview guide .....	3
Appendix 3- Thematic Coding Process .....	5
Appendix 4- Scale Visualization.....	6
Appendix 5- Persona .....	7
Type A: Life Explorer .....	7
Type B: Nature-Culture Enthusiast .....	7
Type C: Life Enjoyer .....	8
Type D: Silent Green Practitioner .....	8
Appendix 6: Solution-based direction .....	8
Appendix 7: Creative session .....	9
Appendix 8: Complete analysis of Harris Profile .....	10
Appendix 9: Validation testing questionnaires for users .....	11

# Appendix 1- Informal Interview Coding process



# Appendix 2- In-depth interview guide

## Interview Questions

Good day! I am Lori

I am currently working on my thesis, and the research question of the interviews is:

How can we encourage young solo travelers to choose more sustainable transportation options when traveling in the city?

During today's interview, I need to confirm if you are willing to sign the provided consent form for the further process. The consent form covers making audio recordings for data analysis, taking anonymous pictures of you, and using quotations from your interview in later reports and presentations.

(After the confirmation)

In today's interview session, I will ask additional questions to gain deeper insights into how you think about contributing to sustainable behaviors during traveling. Hence, I want to hear about your precious experiences.

There are no wrong answers; feel free to share your thoughts!

The interview is estimated to take around 40-60 minutes in total.

Feel free to share your personal and valuable experiences; please know that there are no wrong answers. In the interview, I will divide the questions into 4 phases, which are

Understand European Gen Z solo travelers' traveling habits.

How Gen Z see sustainability when it comes to traveling in the city

What is the reason behind for taking specific transportation?

Your ideal situation in traveling in the future

The first stage is about general questions, and I will go through more detailed questions in the following stages.

## Checklist

- Consent form
- (Online) Send Teams link
- Teams: Audio-recorder
- A laptop (to take notes)
- A scratch book/notebook and pens
- Pictures for Scenario

## Interview questions

### 1- The first phase is to Understand European Gen Z solo travelers' traveling habits.

1. What makes you travel alone?
  - Why this is important to you?
2. What are your travel habits?
  - What motivates you to travel in this way?
3. How important is flexibility for you when you are traveling?

### 2- The second part I want to understand is what is sustainability means to you and how you see sustainability when it comes to traveling

1. How do you perceive the word sustainability in general?
  - Why?
2. Do you consider sustainability to be part of your responsibility?
  - Why or why not?
3. What do you think of sustainability when it comes to traveling?
4. What do you perceive the word, Green travel?

Green travel means choosing eco-friendly ways to explore the world. It's about reducing harm to the environment and communities by doing things like cutting carbon emissions, managing waste, staying in eco-friendly places, and supporting local businesses.

5. What actions have you taken during your journey that you think relate to green travel?
  - Why do you think this relates to Green travel?

**3- Then, there's a scenario; I would like you to imagine yourself traveling alone in the big city**

**Imagining yourself traveling alone in European cities, Like Rotterdam, or Amsterdam; If you are from the Netherlands, imagine yourself traveling in a foreign city, like Florence, or Berlin**

**This may be the first day, the 2nd day you are staying in the city. You have transportation means, like bus, taxi, car, e-bike, e-scooter, scooter, bike, by foot, to choose**

1. What transportation mode will you use when this scenario comes to your mind?
  - Why do you think you will choose it?
2. What transportation means are sustainable for you?
  - Why do you think taking this is sustainable?
3. Most don't consider walking as a transportation mode, however, it is, indeed.
  - If taking walking this transportation mode into consideration, what will motivate you to walk more?
  - Why do you think this will motivate you?
4. What are the limitations/barriers of walking?
  - Why?
5. If you are not walking, what kind of transportation will you choose?
  - Why do you will choose this?
6. Which transportation means that you think is the most comfortable one?
  - Why?
7. Which transportation means that you think is the most convenience one?
  - Why?
8. The most sustainable, the most comfortable one or the most convenient one, which one you always go for?
  - Why?
9. What will convince you go for more sustainable choices?

**4- This is the last part which is about how you think of the ideal situation in the future**

**It's interesting to know your traveling habits and the reasons why you are choosing those transportation means. In the last part, I'm interested in knowing what and how you think the journeys you have done in the past and how sustainability this aspect will influence your travel habits in the future.**

1. As mentioned, what value will be the most important to you when it comes to traveling?
2. Which part do you think you can do to improve sustainability when you are traveling alone in the city in the future?
3. Why you think this is important to you?
  - Please specify the reasons

**Extra question:**

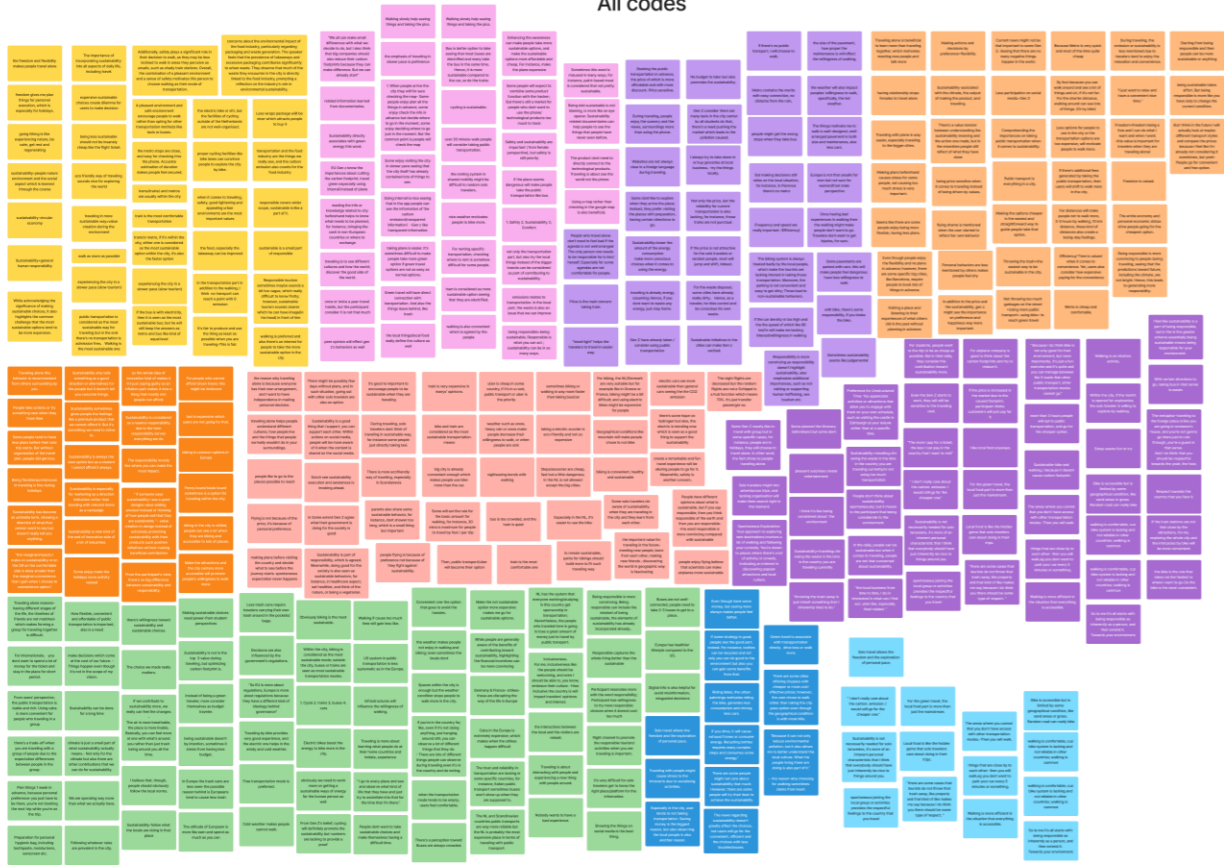
- Being sustainable or being responsible, which aspect will be more convincing to you?

This is all about the interview questions. I am about to wrap up the interviews.

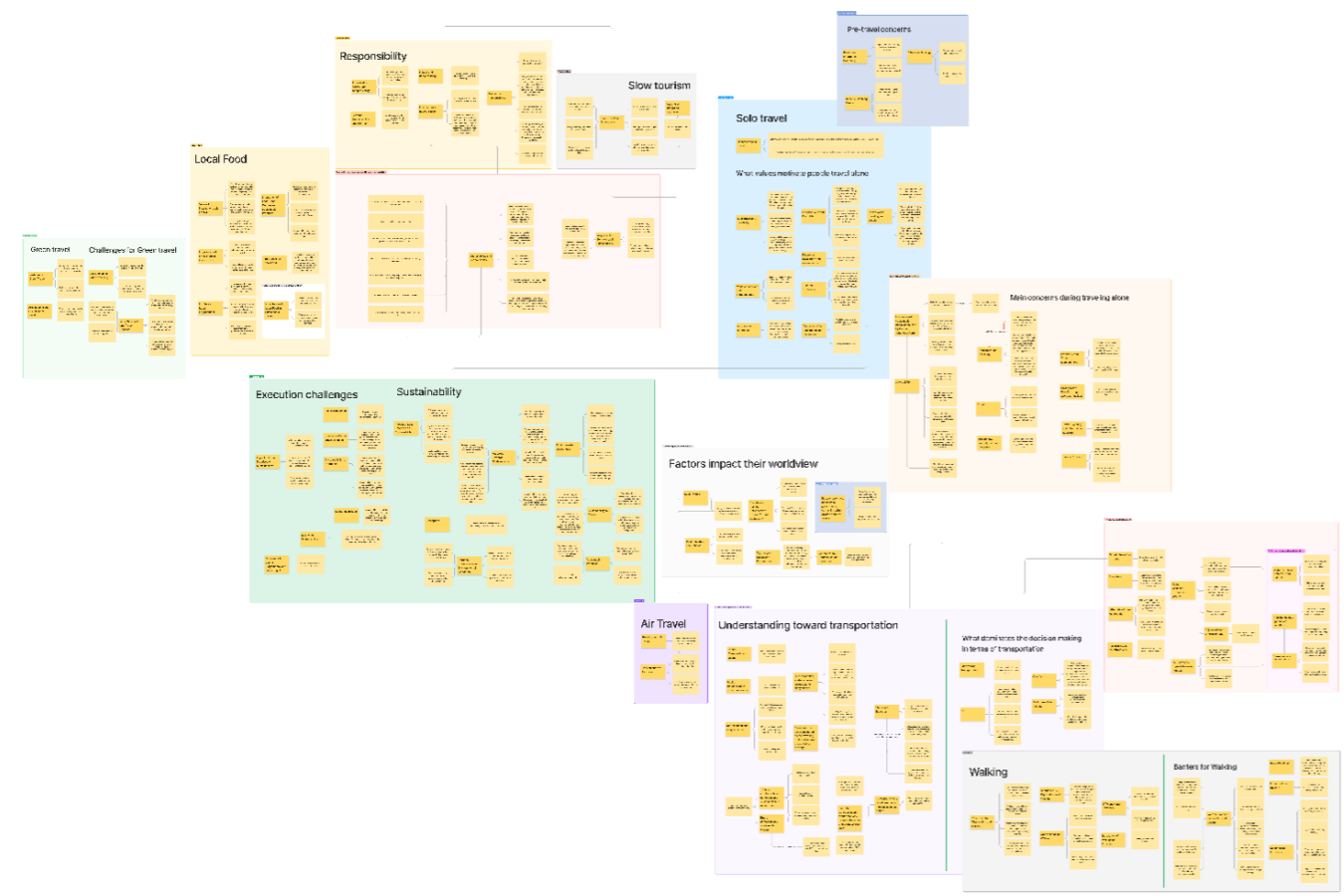
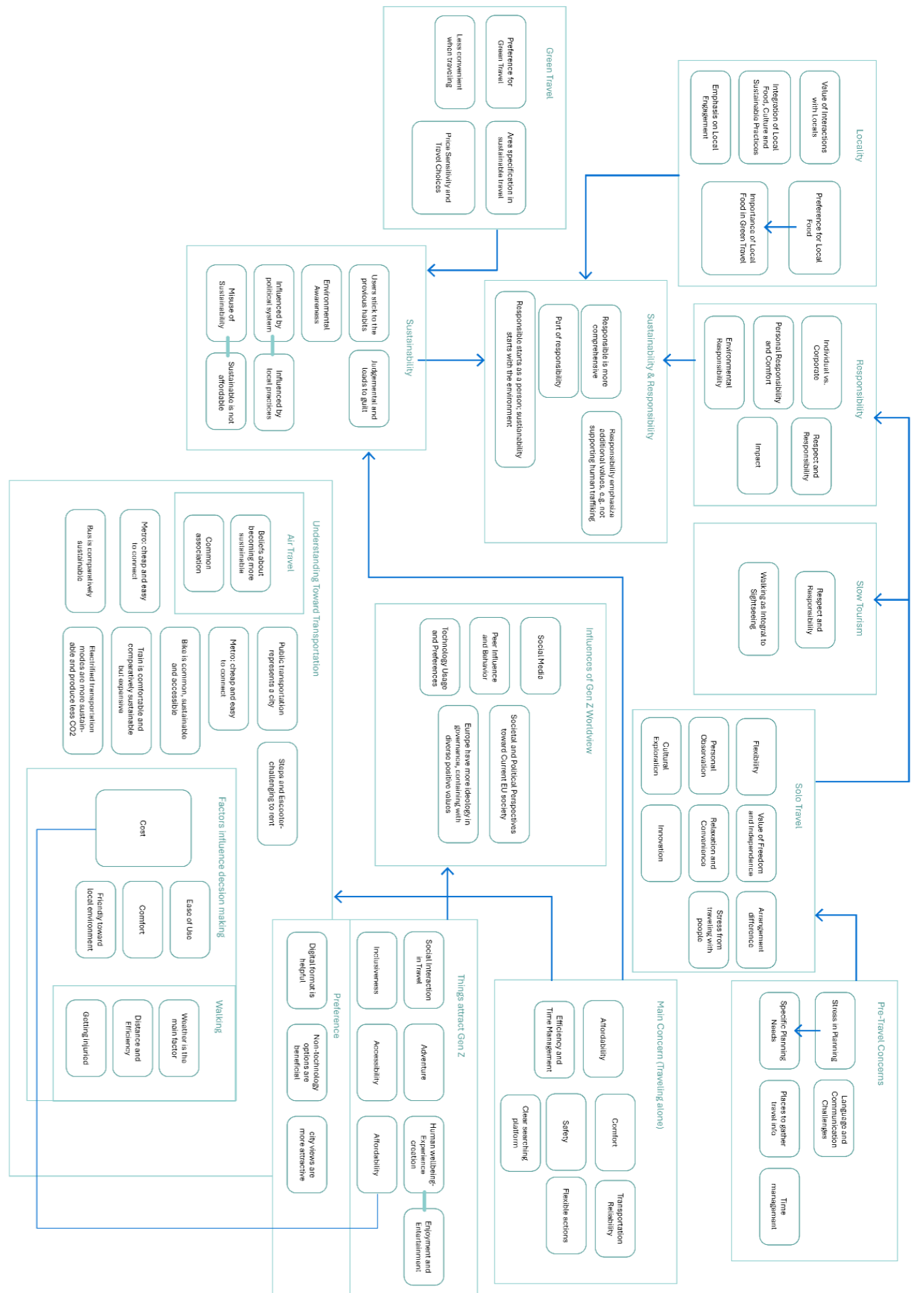
Is there anything interesting you want to share?

# Appendix 3-Thematic Coding Process

All codes

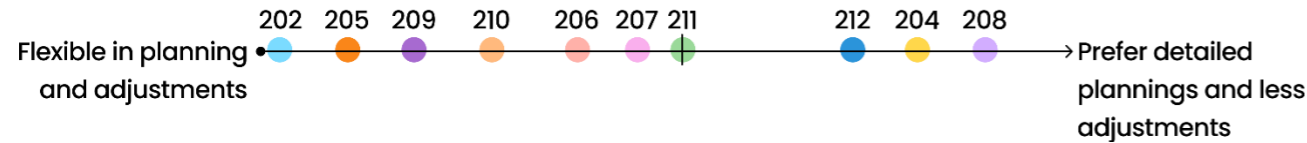


- 202
- 204
- 205
- 206
- 207
- 208
- 209
- 210
- 211
- 212



## Appendix 4- Scale Visualization

- 1- **Flexibility of planning:** This scale compares their flexibility in adhering to their original travel plans versus making adjustments during their individual journeys. This helps understand their adaptability and willingness to modify their plans based on real-time experiences and circumstances encountered during travel.



202 and 208 were positioned on opposite sides of the scale because they have very different concerns, which are captured from the quotes they stated during the interview.

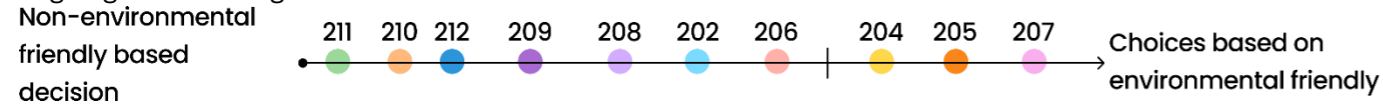
202 mentioned, "I'm a very stressless person, and only when it needs to happen is when it's going to happen. So yeah, I'm a terrible planner, so I like to do it like a data event, maybe." From 202's quote, she tends to travel without detailed planning due to enjoying the trip without the stress. For her, the more detailed the planning is, the more stress produced, which doesn't align with her expectations when traveling alone.

208 quoted "Like every script with it was convenient because they work with dynamic pricing for the tray. So if you book in advance, it can be more affordable" In his quote, the favor in planning is evident due to getting affordable price. "I like to plan, obviously, but not a way to in advance and obviously I'm not too rigid about the plans."

Through the description, 211 himself mentioned that he likes to plan but doesn't plan too far in advance. Additionally, he mentioned that he is not rigid about sticking to the plan, which indicates that he is, in turn, open to changes. Therefore, he is placed in the middle of this scale.

Overall, we observe that the majority of them present high flexibility in planning and adjusting their travel plans, showing their great adaptability during vacations.

- 2- **Decision-based on environmentally friendly:** This compares whether their decisions were influenced by environmental concerns, presenting their commitment to sustainable practices in their real-life journeys aligning with their high awareness as stated in the Literature.

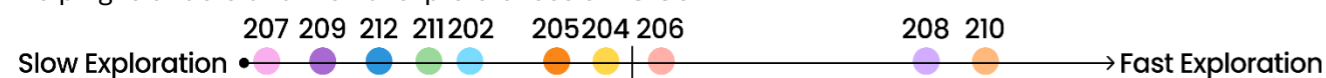


From the 211's quote, "I think that I don't think too much about the emission or sustainability while I'm traveling because I just want to relax and have a convenient nice time." we can understand that her decision is not based on caring for the environment.

However, the quote from 207, "(Being sustainable) It's not a blame, it's more of an eye opener. I guess I think also really sustainable documentaries can really help you to see the things that you didn't see before." This sentence reveals how her current decision and awareness are impacted by her past experience, watching sustainable documentaries while traveling.

The points they prioritize while traveling reflect contrasting visions. One focuses on enjoying the time at the moment instead of caring about too much while traveling; the other values sustainability and finds satisfaction in learning from positive surprises brought by sustainability that teaches her. However, the overall majority tends to make decisions without taking environmental consideration.

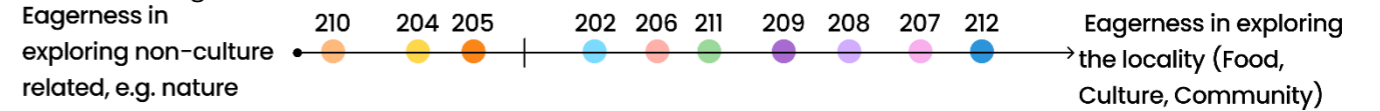
- 3- **Exploration pace (in the city):** This part outlines their preferred traveling style and pace during their vacations, helping to understand the travel preferences of EU Gen Z.



In the interviews, 207 stated, "That's when you're already in the city. It's nice to just slow down and see the things and take that for everything." She frequently mentioned that spending time in the city is a joyful thing. Especially in the transportation-related questions in the interviews, the opposition against slow exploration was mostly found in that part. For instance, 208 mentioned that searching for transportation options during travel takes extra time, which he dislikes. He said, "So I like to do my homework and plan ahead, so I don't waste time when I'm actually traveling. I don't like to look into this while on the move." Furthermore, 210 mentioned "efficiency" frequently in the interviews. Similarly in a transportation-related question, she directly expressed her values when making travel decisions: "Because it's very efficient, it's very quick, and most of the time it's not too expensive."

The overall trend leans towards a preference for leisurely exploration within the city. This scale also elicits one interesting finding: individuals tend to conduct research in advance to enhance efficiency and reduce unfamiliarity while traveling within the city.

- 4- **Traveling motivators (in the city):** This part highlights which aspects of the city are perceived as more attractive by EU Gen Z. The discussion outlines two main directions: one emphasizing authentic city experiences, and the other focusing on nature-oriented attractions.

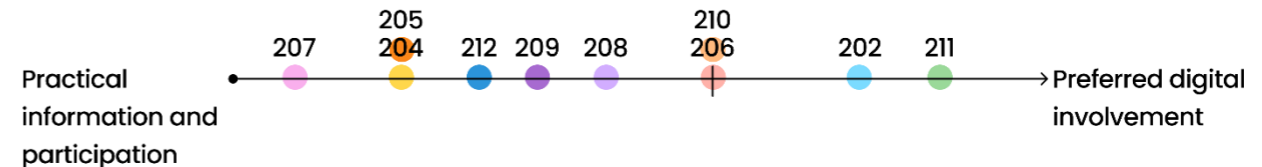


Participant 204 mentioned that "Hiking is more about just experiencing nature. Just the calm spaces and getting some rest. It's really regenerating." Thus, 204 is positioned on the left side of the scale, indicating a preference for nature over local cultural elements. In contrast, participant 212 expressed a deep interest in immersing himself in local life. He stated, "I like to observe the people who live there, the locals, the whole feeling of life," and emphasized, "I want to explore with the feeling of being a local. I don't want to have the feeling of just touring, where you're constantly taking transportation from one site to another." This places 212 on the rightmost end of the scale, highlighting a strong desire to understand and live like a local.

Other participants also resonated with the importance of local experiences. For instance, participant 207 mentioned, "The local things, local food really define the culture as well," while participant 211 noted, "For me, inclusiveness means the people should be welcoming, and I should be able to embrace their culture." Participant 211's perspective highlights how inclusive experiences with locals can help solo travelers feel integrated into the city.

These statements collectively highlight a clear trend: while most participants prioritize exploring and understanding local aspects such as food, residents, and the city environment during their journeys, there remains a market for purely natural activities as well. This reflects their preference for immersive cultural experiences over activities solely focused on nature or tourism.

- 5- **Digital involvement (during the journey):** This part is beneficial for understanding if digital involvement is vital for Gen Z when they are considered as a group of people who are familiar with technology related tools.



Palley (2012) claims that no previous generation has demonstrated such a high degree of proficiency and ease with technology from a young age as Generation Z.

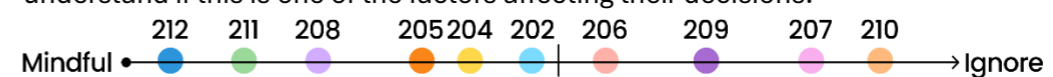
However, the interview results show that digital involvement seems to be not that important for EU Gen Z. 207 indicated, "I would say for some people, you could use a tracker that would motivate you, but it wouldn't work for me because I don't like to use my phone too much and to track everything."

However, 211 claimed he prefers digital information: "If it's in the digital format, the information is out in the open. It's much easier to deal with." Meanwhile, he also shared his preference for sharing it on social media, "Yeah, I would like to show it on my Instagram. Right. If it comes in my Instagram, it's the best thing ever."

Through his description, the digital involvement not only limits during the trip but also projects in sharing on his personal social media.

Both 210 and 206 remained neutral attitudes toward the digital involvement part. Nevertheless, there's a tendency for practical participation compared to digital or technical involvement during their journey for EU Gen Z.

- 6- **Crowd:** The overtourism brings negative impacts, which are described in the literature review session. In the interviews, the crowd also being mentioned in the interviews by a few participants. Thus, this part is interesting to be selected to see how EU Gen Z perceived the crowd during their vacation and journey which is useful to understand if this is one of the factors affecting their decisions.



Measuring participants' mindfulness of crowds is challenging, as their opinions vary among them. For instance, participant 212 shows awareness of crowd levels when choosing transportation within the city, noting, "Metros

are mostly empty, but buses can be quite crowded.” In contrast, participant 210 holds a different view, stating, “When I travel alone, I prefer flying. It’s easier to navigate in bigger cities.” While larger cities generally have more people, they also offer convenient transportation options. Thus, participant 210 is perceived as less concerned about crowds in this context. This scale shows that while crowd awareness matters to some participants, it may not be a priority for others.

The scales above provide detailed explanations of why those participants were placed on opposite sides in each scale. To simply provide a clear overview for readers to gain a basic understanding of the main insights in each scale, the key circumstances are given as brief bullet points below.

1. Flexibility in planning and adjustments is critical for target users because the importance of which was pointed out by 8 out of 10 participants.
2. EU Gen Z has the highest awareness regarding sustainability, but the decisions made during the solo journey are mostly not based on taking care of environmentally friendly aspects.
3. Exploring the city at a slower pace is favored by most EU Gen Z during the vacation.
4. Regarding EU Gen Z preference during traveling, there is a high eagerness to explore the authenticity of local elements, such as food, culture, and connections with the community. There is also a tendency toward non-local parts, such as nature or personal freedom in decision, things that may not necessarily be rooted in either authenticity or locality.
5. In literature, the digital literacy of Gen Z is high. Nevertheless, during traveling, practical information and participation are more considered and preferred.
6. In terms of the crowd, the interview results didn’t present a specific difference between people who felt mindful or not, which means experiencing the crowds could be one of the factors influencing their decisions but not the primary one for all of them.

Next, the scales generated in this section are then applied to plot on two axes to create coordinates and compare the differences between quadrants.

## Appendix 5- Persona

### Type A: Life Explorer

- Name: Max
- Age: 23 years old
- Job: Master student in Marketing
- Education: Currently pursuing a degree in Marketing
- Personal economic status: Low-medium income, mostly rely on parents
- Characteristics: Energetic and creative, with a strong sense of individuality and a commitment to social and environmental causes
  - Socially Conscious: Actively engaged in discussions about social justice and environmental sustainability, but less convert the sustainability awareness into actions.
  - Innovative: Constantly experimenting with new ideas and technologies.
  - Entrepreneurial: Has a keen eye for opportunities and isn’t afraid to take risks to achieve their goals.
  - Willingness to experience and try the things with great initiatives
- Current goal of life: Finish master degree
- Travel habits: Flexible about the plans but ensure the efficiency in traveling, will at least search up what kind of transportation to take when traveling in the city
- Low tendency for sustainability-driven choices; High eagerness in locality exploration  
Affordability is highly valued
- Description:  
Max is a 23-year-old master’s student with a vibrant and forward thinking who is always connected and up-to-date with the latest trends. He’s socially conscious, innovative, and entrepreneurial, balancing studies with a love for travel. Max seeks authenticity in his journeys, preferring local experiences over tourist trails, and is always ready for new adventures. His travels are not just about sightseeing but about engaging with local cultures.
- Quotes:  
“For me, inclusiveness like the people should be welcoming, and even I should be able to, you know, embrace their culture. ”  
”I don't know foods, you could say, because that was always like these hidden gems that I care about doing my travels. ”

### Type B: Nature-Culture Enthusiast

- Name: Tom
- Age: 22 years old
- Job: Prepared for the employment
- Education: Bachelor’s degree in Political science
- Personal Economic Status: Despite being financially stable and living in a middle-class family, he is committed to saving money while also being willing to pay a little extra for initiatives that benefit society as a whole.
- Characteristics:
  - Nature Lover: Finds peace and inspiration in natural settings. High Culturally Engaged: Actively seeks out cultural experiences and local traditions.
  - Environmentally Conscious: Practices sustainability and promotes eco-friendly habits.
  - Adaptable: Comfortable with spontaneity and adapting to new situations.
- Current Goal of life: Preparing for work and explore personal interest
- Travel Habits: Prefers eco-friendly travel options and enjoys slow travel to fully immerse in the local atmosphere.
- Description:  
Alex is an easygoing individual who has a deep appreciation for the natural world and diverse cultures. With a background in environmental studies, Alex travels not just for leisure but to learn and contribute to the places visited. Whether it’s volunteering in reforestation projects or participating in community-led cultural events, Alex is always ready to lend a hand and share knowledge. Embracing the journey as much as the destination, Alex’s travel stories are filled with insights about sustainable living and the beauty of human diversity.

- Quotes:  
“ Sustainability is like an eye opener, I guess I think also really sustainable documentaries can really help you to see the things that you didn't see before.”  
“ I also think it's nice to really slow down and really see it, but it's also nice to take the bus because then you travel more quickly and you can also get a few of the city and decide where what the specific part you want to see more. ”

### **Type C: Life Enjoyer**

- Name: Molly
- Age: 20
- Education: Bachelor in Nursing
- Job: student
- Personal Economic status: working but expenses still highly rely one parents
- Characteristics:
  - Prioritizes personal happiness and growth
  - Living in the moment, don't like the have stress
  - Less participation in social media
  - Values personal benefits and thoughts over societal norms, does not follow the news
  - Prefers to book preferred attractions in advance when traveling.
- Current goal of life: To achieve personal fulfillment and self-improvement. Have freedom to achieve personal fulfillment
- Travel habits: Don't plan a lot, focus on personal enjoyment, have relaxation rather than following tourist trends.
- Description: Molly is currently as a working student who is currently studying in Nursing. Her worldview is prioritizing personal happiness and growth, valuing her own needs and thoughts over external influences. Despite understanding the impacts might brought from personal behaviors, she still values personal happiness is important. She prefers to live in the moment and doesn't keep up with current trends. She only follows her heart and what she wants to do.
- Quotes:  
“For me flexible is very important because I don't like to plan too much. I get too much stress and so for me it's very important.”  
“News gives me too much stress, I don't like it. There are so many negative things happening. Also, I'm not really too much on social media as well.”  
“I think that I don't think too much about the emission or sustainability while I'm traveling because I just want to relax and have a convenient nice time.”  
“I can also not go, but on the other hand I'm thinking you only live once and I want to go there and it's only one hour by plane, so I don't know, but I I feel that I feel sorry that I fly so much, but still I my own like happiness.”

### **Type D: Silent Green Practitioner**

- Name: Nora
- Age: 25
- Education: Master degree in Built environment
- Job: Consultant
- Personal Economic status: Middle-class
- Characteristics:
  - Passionate about nature and the environment regardless of location
  - Values sustainability in daily life already
  - Finds well-maintained natural landscapes alluring
  - Sees exotic experiences as plus points during travel.
  - Usually make plans beforehand
- Current goal of life: To promote environmental conservation and sustainability in daily actions.
- Travel habits: Prefers destinations with well-maintained natural environments and prioritizes sustainability in travel choices, seeking out experiences that connect mainly with nature.

Often take sustainable choices but suffer expensive payment

- Description: Nora is a consultant with Built environment master degree. She is deeply passionate about nature and the environment, regardless of where she is. In her daily life, she is committed to concrete and practical sustainable actions. When traveling, Nora always keeps a detailed plan with a little flexibility beforehand but she usually follows her plan. Generally, she enjoys visiting well-preserved natural landscapes and prioritizes experiences that allow her to connect with nature. While local and exotic experiences are not her primary focus, she appreciates them as added bonuses during her journeys.
- Quotes:  
“I think sustainability should be a general human responsibility to take care about our environment.”  
“I like to plan a lot before I go traveling. To know exactly where I will go and how I want to plan it, I have like quite a full schedule when I'm both the city trips and hiking as well.”  
“When traveling is important to take the choice that is more sustainable and to get somewhere while on the other hand, I of course also experienced that usually the most sustainable choice is also the most expensive choice.”

## **Appendix 6: Solution-based direction**

### **Solution-based Direction: Type A Persona- Life Explorer**

- How can travelers easily connect with locals through food during their trips?
- How can travelers find budget-friendly local options that also support the community?
- How can travelers uncover authentic experiences known by the locals in a city?

### **Type B Persona- Nature-Culture Enthusiast**

- How can we provide resources to help travelers find sustainable experiences during their journey?
- How can this group of users share the joy of practicing sustainable actions?
- What can enhance their experience as they explore the city more slowly?

### **Type C Persona- Life Enjoyer**

- How can we enhance the happiness of Life Enjoyers in the city while benefiting the local community?
- How can we design solo travel experiences for Traditional Enjoyers that are both sustainable and enjoyable, reducing stress?
- How can we increase the visibility and attractiveness of sustainable options in the city to encourage their selection?

### **Type D Persona- Silent Green Practitioner**

- How can we develop travel experiences that prioritize sustainability while remaining affordable for individuals committed to environmental conservation?
- How can we assist Silent Green Practitioners in discovering eco-friendly options that resonate with their preferences while traveling?
- What platform can we offer to provide comprehensive information for Silent Green Practitioners before embarking on their journey?

# Appendix 7: Creative session

## Brainwriting

Design for Solo Travelers aka Life Explorer-Max



**LORI LO**  
Organiser of today's creative session

21th of May, 2024 @ 10:00 A.M.  
B-1-420 Vergaderruimte VERGADERRUIMTE



## What We're Doing Today

Here are the process we will go on today

- Describe the task-5 min
- First step: Write down the ideas-5 min
- Second step: Write down 3 innovative ideas on the sheet-5 min
- Third step: Pass around the sheet
- Last step: Share the Brainwriting

## Today's Task Design for Max



**MAX**

Hi! **My name is Max.** I'm a student, currently pursuing a degree in Marketing.

**Characteristics:** Energetic and creative / Socially Conscious/ Innovative/ Curious and Fearless/ Kindhearted

### Life Explorer

Actively engaged in discussions about social justice and environmental sustainability, but less convert the sustainability awareness into actions.

"For me, inclusiveness like the people should be welcoming, and even I should be able to, you know, embrace their culture."

"I don't know foods, you could say, because that was always like these hidden gems that I care about during my travels."



## Design Direction

- 1- How can solo travelers easily connect with locals through local food during their trips?
- 2- How can solo travelers find budget-friendly local options that also support the community?
- 3- How can solo travelers find local, authentic experiences in a city?




## First step. Write down your ideas

- 1- How can solo travelers easily connect with locals through local food during their trips?
- 2- How can solo travelers find budget-friendly local options that also support the community?
- 3- How can solo travelers find local, authentic experiences in a city?



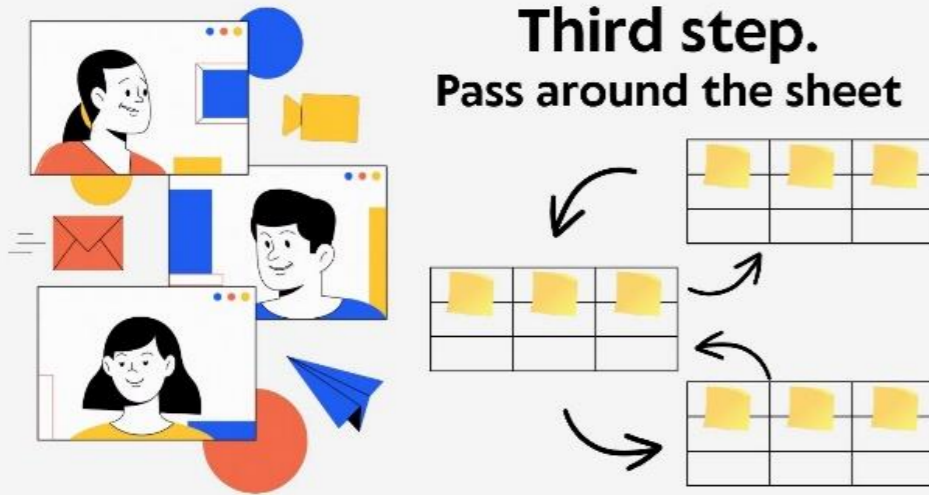
## Second step.

Write down 3 innovative ideas on the sheet

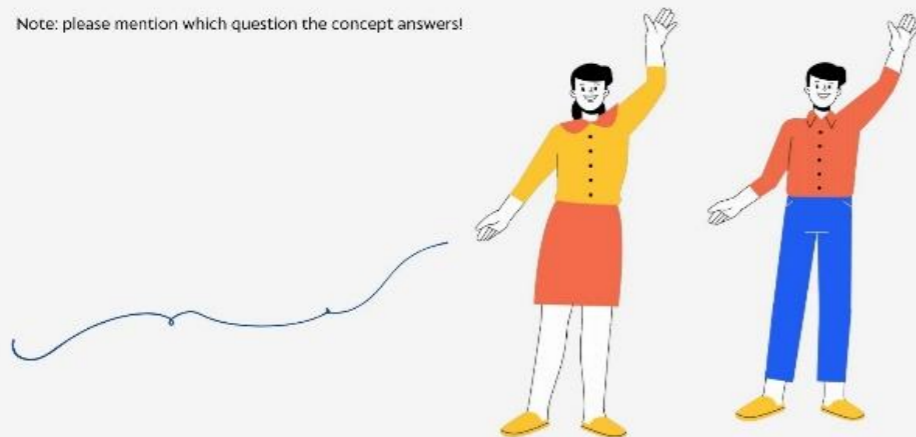
## Third step.

Pass around the sheet



## Time to share the Brainwriting!

Note: please mention which question the concept answers!



## Appendix 8: Complete analysis of Harris Profile

**Local Bingo Game!:** This concept excels in promoting locality, authenticity, and safety. It supports local businesses by promoting and marketing their products by selling a particular postcard, boosting income for the community. The card features graphics of regional specialties, particularly food, which helps solo travelers explore and appreciate local cuisine, enhancing their city experience. Travelers find it convenient and flexible to use throughout their journey, with rewards adding an element of joy. Safety is a priority, as the concept involves no physical risk or privacy concerns.

**Tamagotchi Digital Guide:** This concept helps solo travelers discover authentic experiences through designated A, B, and C routes and their corresponding locations. However, implementing this wearable device requires opening a new production line or developing additional physical products that are not environmentally friendly. The impact on locality, comfort, and safety is moderate. Selling this product can boost income for local shops, and its lightweight design makes it convenient to carry. An added advantage of this concept is its ability to evoke nostalgia among solo travelers, further immersing them in exploring the authentic experience in the city.

**Dine & Meet:** This design facilitates local families in efficiently utilizing local food, thereby reducing food waste and promoting environmentally friendly behavior within the local area. Additionally, it benefits those who contribute to hosting solo travelers for dining experiences to earn extra income. However, this concept may offer less comfort for guests staying in someone's home, and the authenticity of the experience can vary depending on whether the local host prepares genuine local cuisine. Safety concerns may also arise from dining in the homes of strangers, especially during initial encounters. Nevertheless, the dining experiences might provide surprises and increase the opportunities for solo travelers to make local friends.

**Hidden Gem Collection:** This concept aims to raise awareness and foster interest in exploring local features such as food and history within the city. By encouraging deep immersion in the city's attractions, solo travelers can discover and contribute to local shops and specialties, thereby supporting the consumption of local products.

However, the use of physical paper as the primary material detracts from its environmental friendliness. Moreover, the game format of this design may pose challenges for some participants, as solving puzzles requires time and effort to comprehend the content and find answers. Additionally, participants may need to navigate unfamiliar areas, which raises safety concerns.

**Travel Mingle Pins:** Producing the pins requires using metal materials, which are less environmentally friendly. However, when solo travelers see the pins from local shops and volunteers, this interaction can increase the visibility of these shops, promoting and marketing their business. If you encounter confusion with the pin, the pins' collaborators, including local shops and residents, can help you, providing the comfort of bonding connections with local people. Despite these benefits, this design offers less authenticity in conveying local knowledge and is less helpful in learning new local information, as it emphasizes human interactions. Additionally, even design purpose of this concept is to increase the interaction between the travelers and the locals, it is less safe since solo travelers wearing the pins can be easily identified, potentially leading to unwanted attention or stalking by shady individuals.

**Meetup & Go:** This concept offers an opportunity to boost the local economy by providing detailed information about local shops, including store history and seasonal discounts. It helps solo travelers better understand what and where to visit within the city, with must-visit spots highlighted on the map to enhance the overall experience. Therefore, this concept is highly rated for its emphasis on locality and authenticity. Additionally, with many solo travelers meeting each other at this hub, feelings of loneliness decrease, and there is an opportunity to pair up with other solo travelers to explore the city. Nevertheless, using pins and printed papers might not contribute to environmental sustainability. The primary purpose of this concept is to provide gathered or crowdsourced information rather than comfort, making the comfort level comparatively lower. However, it somewhat offers a sense of reliability, as it provides various information from many sources, including previous solo travelers and residents.

## Appendix 9: Validation testing questionnaires for users

### Task Understanding and Execution

1. Did you encounter any confusion when reading the bingo card categories?
2. How clear is understanding bingo cards and the icons on the bingo cards?
3. How clear is the bingo card and route map information?

### User Experience and Satisfaction (specifically for users)

1. How is the overall experience with the local bingo game concept?
2. Did the game concept enhance your exploration of local specialties and attractions?
3. Were there any aspects of the game concept that you particularly enjoyed or found beneficial?

### User Interface and Interaction

1. What did you think of the design and layout of the bingo card and route maps?
2. Were there any specific features or functionalities of the concept that you found particularly useful or frustrating?

### Feedback and Suggestions

1. Based on your experience, what improvements or changes would you suggest to enhance the usability and enjoyment of the local bingo game?
2. How likely would you be to recommend this concept to other solo travelers, and why?
3. Are there any additional features or functionalities you want added to this concept?

### Follow-Up and Further Insights

1. Do you want to share anything about your experience with the local bingo game concept?
2. Can you describe any memorable moments or challenges you encountered while participating in the game concept?
3. How does this experience compare to other travel-related activities or postcards you have purchased?