




Article

Experience-Sharing to Support Inclusive Travel for Blind and Partially Sighted People

Maryam Bandukda ^{*,†} , Aisha Azmi [†], Lan Xiao  and Catherine Holloway 

Computer Science Department, University College London, London WC1E 6BT, UK

* Correspondence: m.bandukda@ucl.ac.uk

† These authors contributed equally to this work.

Abstract: This research aimed to understand the challenges blind and partially sighted people experience in tourism and the travel information they need to plan their travel experiences effectively. To this end, we designed a mixed-methods study consisting of semi-structured interviews and co-design workshops, which were conducted to identify the needs of BPS people and the barriers experienced due to a lack of access to such information. The findings provide insights into the information-seeking process and highlight the role of experience sharing in cultivating a sense of agency, contribution, and interdependence. This study also contributes an accessible tourism ecosystem map based on our findings to highlight the different sources of travel information and their potential role in supporting inclusive travel for BPS people. The findings have implications for research and tourism service design and serve as a tool to motivate research on technologies to support inclusive leisure travel for BPS people and to inform the design of inclusive tourism services.

Keywords: accessible tourism; blind and partially sighted people; information-seeking; information access; experience sharing



check for updates

Citation: Bandukda, M.; Azmi, A.; Xiao, L.; Holloway, C. Experience-Sharing to Support Inclusive Travel for Blind and Partially Sighted People. *Sustainability* **2024**, *16*, 8827. <https://doi.org/10.3390/su16208827>

Academic Editors: Zygmunt Kruczek, Katarzyna Gmyrek, Karolina Korbiel and Jun (Justin) Li

Received: 2 August 2024

Revised: 24 September 2024

Accepted: 27 September 2024

Published: 12 October 2024



Copyright: © 2024 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

1. Introduction

Travel is a leisure activity where one visits new places in pursuit of exploration, relaxation, and learning about the cultural and historical aspects of places. It can be a tool to augment and build upon a sense of global consciousness through knowledge, engagement, and world experiences [1]. Travel is also subjective and influenced by the means and motivations of individuals [1–6], enabling the ability to shape the travel experience according to the individual, which offers benefits such as improved well-being [7,8] and quality of life [5,7,9] while also contributing to learning by honing navigational skills and the world view [5].

Disabled people may have a similar desire to engage in travel [10–13], yet there is still a disparity in how they experience tourism and leisure travel [14–16] due to interpersonal, intrapersonal and structural constraints [10,14,17] as well as environmental [10,15,18] and social challenges [19]. To address these challenges, accessible tourism solutions aim to give disabled people better access to travel by implementing universal design, enabling independent, equitable and dignified travel [20,21]. However, due to heterogeneous lived experiences of disability, it is crucial to recognize the different needs and barriers unique to each individual [19,22].

Recent studies on the travel and tourism experience of BPS people have focused on understanding their motivation [23,24], lived experiences [13,25–27] and common challenges encountered while travelling [13,16,28,29]. Across these studies, the themes of information access and wayfinding are common travel challenges for BPS people. Lack of access to information can exacerbate travel challenges for BPS due to not being able to plan travel experiences [10,20,22,30,31]. Therefore, the first research question addresses this gap: *RQ1: What are the processes, needs (information type and sources), and pain points of BPS people in seeking and accessing travel and tourism information?*

BPS people often turn to their travel companions to obtain travel information and plan trips [13,16,29]. Although this interaction can create a collaborative partnership, in some instances, it can also have a debilitating impact on their autonomy over contributing to decisions [13,32]. A better example of how planning a trip can reinforce an interdependent and collaborative relationship is when BPS people can both gain and contribute travel information through their community as the most reliable and helpful information source to support exploring their environment [32]. Hence, the second research question is as follows: RQ2: *How can experience sharing between BPS people facilitate information seeking and share access needs through information system technology?*

Through a mixed-methods approach, using semi-structured interviews and co-design workshops, we explore the challenges experienced by BPS people in travel planning, and we brainstorm ideas for improving access to travel and tourism for BPS people. This study uses a mixed-methods approach through semi-structured interviews and co-design workshops, exploring challenges and ideation with BPS people. The findings of this paper contribute to (1) a better understanding of the travel and tourism information-seeking and access needs of BPS people and (2) an accessible tourism ecosystem that highlights the needs of BPS people and the available tools that can be adapted to support these needs.

2. Literature Review

2.1. Understanding the Travel and Tourism Experiences of BPS People

BPS people are less likely to travel independently due to the inaccessibility of the travel and tourism infrastructure [15], leading to the misconception that travel is a sighted experience and BPS people do not want to or cannot benefit from recreational travel [16,19,25–27]. Additionally, the lack of understanding of BPS people's travel experience and stigma leads to negative attitudes and unfair treatment during travel, which further impacts their ability to travel independently [13,16,29]. Small et al. [13] discuss that the embodiment of the travel experience for BPS people goes beyond the visual gaze and should include other senses and the bodily experience. This is evident in an analysis by Qiao et al. [25] of BPS people's travel notes, resulting in seven types of travel experiences (compensatory, challenge, escape, educational, entertainment, empathy and accessible). So, embodiment is an important component of creating quality, accessible travel experiences as it influences inclusion for disabled people, especially BPS people [13].

To understand the tourism experience, Godovykh et al. [33] propose a framework to evaluate the pre-visit, on-visit and post-visit stages of travel. Research has discussed a similar approach to evaluating the travel experiences of disabled people and BPS people. For instance, Mothiravally et al. [29] describe the perceptions of BPS travellers in Malaysia through the stages of travel planning, in transit and at the destination. They also highlighted several challenges during each stage, including facilities, infrastructures, and social and information access. Another framework by Bandukda et al. [32] is especially detailed, breaking down the process of outdoor leisure into the "PLACES" (an acronym for Plan, Access, Contribute, Engage, and Share) framework, offering insight into the needs, challenges, and negotiations adopted by BPS people at each stage.

An essential process for BPS people to travel is detailed preparation and analysis of information such as accommodation, activities, transportation navigation and more to ensure that the journey will be accessible, safe and secure [13,16,31,32], as information access is the foundation to enable tourism experience among BPS people [13,32]. And yet, a common challenge before and during travel is finding and accessing relevant information, as content is usually inaccessible or unhelpful [13,34]. The PLACES framework describes planning as a collaborative process between BPS people and their sighted companion, which can be frustrating when they are excluded or left without autonomy over the decisions of outdoor activities [32].

Other challenges at the "on-visit" stage include wayfinding or navigating the environment, access to information, the ignorance of others, and travelling with a guide dog [13,16]. These challenges might stem from the lack of information for BPS people to be

fully prepared for their travels, creating dependency on information services that can be ignorant of their needs. However, the more extensive discourse for these challenges is on account of how the tourism industry does not design or develop its products and services to be accessible for disabled people [20,26,31]. Nevertheless, there is a lack of solutions to support information-seeking and accessing challenges despite it being a prominent barrier to travel. Therefore, this paper sheds light on the sensemaking and information needs of BPS people.

2.2. Information-Seeking in Travel and Tourism

It is challenging for BPS people to access information on the services and environment of their travel, such as attractions, accommodation, transportation, and safety information [16]. The information needs of BPS people vary according to the type and nature of travel as well as the level of disability [28,32,35]. For example, for indoor navigation, Engel et al. [28] find that people with blindness and low vision seek and prioritise information (building features, landmarks, access to service) differently and implement strategies according to their skills and capabilities. Conversely, in outdoor environments, route information and mode of transit are essential to build a mental map of the environment, as highlighted by Kameswaran et al. [36]. Additionally, Banovic et al. [35] find that BPS people seek high-level information, such as safety and navigation, as well as places and activities of interest, while for recreational activities, while Bandukda et al. [32] also emphasise the importance of accessible information for sustained use of public spaces by BPS people.

Studies [27,35] have also highlighted the information required by BPS people during travel or arrival at the destination. For example, Stephens et al. [27] examined their experience travelling on a cruise where they required daily and incidental information on the cruise that was not clear nor accessible. Navigation information, such as landmarks and entrance information, is also important for wayfinding purposes, especially in new environments [32,35,37]. Since the tourism experience could be a combination of various environments and activities, the information needs might be even more complex as BPS people could be travelling for different destinations and purposes. For example, some activities or attractions require information for engagement, such as accommodation, museum exhibits, theme parks and even restaurants [16,29,37]. This shows that the process for any travel is still challenging as there are gaps highlighted in fulfilling BPS people's information needs for different activities. The internet is one of the main sources of travel information for BPS people during travel planning, in addition to friends and relatives, and travel agents [13,27,29,37]. Lam et al. [37] also find social media sites, recommendations, multimedia sources (TV, radio, magazines, etc.), tourism hotline and Non-profit Organisations (NGOs) as other useful sources of information. There are also different formats of information that BPS people prefer, such as textual descriptions, digital maps, photos or personal contacts with less interest in photos, printed or tactile maps, depending on their preferences and level of sight loss [28].

While the type of information BPS people look for on the internet is not thoroughly discussed, the online information-seeking and booking process are perceived as negative by BPS people as most websites are inaccessible for their use [38–44]. Additionally, most online sites do not include accessible content and information that are relevant to the needs of BPS people [32,37], and there is also no mainstream platform for BPS people to engage in experience-sharing processes that might help provide accessibility content for each other [32]. Small et al. [13] discuss that the information format needs to be accessible for BPS people with content relevant to disability needs and requirements for them to find and access travel information.

Gaining first-hand information from travel services can also be unreliable or discouraging when service providers react negatively towards BPS people [29] or when access to new or incidental information is not prepared in accessible formats [13,16,27,37]. Because of this, BPS people rely on their travel companions, such as friends or families, to seek the

information they require [13,16,28,32]. While this might be a reliable way to overcome the barrier, as previously discussed, it can still be a frustrating experience when BPS people do not have autonomy and ability to contribute to travel planning activities [13,16,32]. Additionally, not all information could be offered by sighted users due to the differences in lived experiences [45–47]. For example, Lam et al. [37] find that BPS people sometimes wish to have direct access to information at destinations such as museums, as interacting with tactile information might be faster than relying on their travel companion.

2.3. Interdependence in Accessible Tourism

Although independence and autonomy are essential for well-being and access to travel. A study by Lee et al. [43] found that BPS people have a positive perception of travel if they are able to exercise autonomy in travel decisions. Beyond independence, Bennet et al. [48] argue that 'interdependence' as a frame is important in accessibility research for the empowerment of disabled people not only as recipients of assistance but also as contributors to other people's experiences. In this paper, we discuss how BPS people exercise interdependence within their travel experience and the role of technology in solving their need to collaborate and contribute, especially towards bridging the travel information gap. Lee et al. [43] highlight the importance of community integration, specifically the inclusion and participation of disabled people, while educating and training relevant stakeholders to create a positive influence towards inclusive and accessible tourism. However, as previously discussed, BPS people's tourism experiences traditionally only consider the relationship between BPS people and sighted people (such as travel companions and service assistants) to negotiate the challenges of accessing information, with little opportunity to contribute or collaborate with others [13,32]. To align with the interdependence framework, this paper draws upon the sense of the contribution of BPS people as highlighted by the PLACES framework [32], providing opportunities for BPS people to contribute at each stage of the outdoor leisure experience through participation, collaboration and sharing.

A study by Small [49], investigating the role of interdependence in travel, highlights the interdependence between BPS people and sighted people when travelling together, where the sighted travellers act as guides to the environment to ensure safety, comfort, and accessibility, while BPS travellers share effective sighted guiding techniques and their embodied travel experience through sensory activities. The study suggests how a form of interdependence that allows BPS people to participate or contribute to the experience can create a positive travel outlook to interact with others. Bandukda et al. [32] further explore the interdependence concept in their PLACES framework, which illustrates the need for BPS people to have an equitable contribution to social interactions and opportunities to share their experiences with fellow travellers but also the BPS community at large to promote collective agency and a sense of belonging. This aligns with a recommendation by Banovic et al. [35] for building an online community for BPS people to share and gain insight from one another can become a valuable information resource to support planning and learning about new environments, thus creating a cyclical relationship between information-seeking and experience-sharing to address the travel information gap.

The literature reviewed in the previous sections has emphasised the need for appropriate information-sharing to support positive travel experiences for BPS people. Yet, limited research so far has explored the information-seeking behaviours and the challenges BPS people face when planning travel for leisure. Stephens et al. [27] presents an autoethnography of a BPS independent leisure traveller, which highlights the challenges and opportunities for technology design to support meaningful leisure travel and tourism experiences for BPS people. However, the study does not delve deeper into online information-seeking behaviours. Bandukda et al. [50] give in-depth insight into the perceptions and behaviour of BPS people in engaging with natural environments when travelling for leisure, yet do not investigate pre-travel information-seeking. Therefore, our study seeks to address this gap

in the literature by exploring the information needs and information-seeking behaviours of BPS people during leisure travel.

3. Method

3.1. Study Design

We conducted a mixed-methods study, including online semi-structured interviews and co-design workshops with BPS people between June and August 2023. The interviews were conducted via Microsoft Teams (version: 24244.507.3125.3475), and the co-design workshops were conducted at UCL East Pool St in East London, UK.

3.2. Participants

Twelve participants were recruited to participate in the online semi-structured interviews (P1–P4) and co-design workshops (P5–P12). The participants were split into two groups to participate in the co-design workshops: workshop 1 (P5–P7) and Workshop 2 (P8–P12), based on their availability. Table 1 showcases the demographic information that was collected for this study. All participants were recruited through Beyond Sight Loss (<https://beyondsightloss.org.uk/>), a disabled people’s organisation based in East London, using a purposive sampling approach based on the below inclusion and exclusion criteria:

- Blind or partially sighted people;
- Above 18 years old;
- Have an interest in leisure travel and tourism;
- No other disability that may impact their ability to travel.

Table 1. Demographic information of participants.

ID	Age Group	Gender	Degree of Sight Loss
P1	30–45	Male	Severely Sight Impaired
P2	46–60	Female	Partially sighted
P3	61–70	Male	Blind
P4	30–45	Male	Blind
P5	30–45	Male	Blind
P6	30–45	Male	Blind
P7	30–45	Male	Blind
P8	46–60	Female	Partially sighted
P9	18–29	Female	Partially sighted
P10	30–45	Female	Partially sighted
P11	30–45	Male	Partially sighted
P12	30–45	Male	Partially sighted

3.2.1. Online Semi-Structured Interviews

The main goal of the interview was to understand the process of how BPS people seek, access, and share travel information. At the start, the participants were asked to share their most recent travel experiences, including the method of travel and what they enjoyed about the experience. The interviews then explore in detail the type and sources of travel information that are useful for BPS people, such as the information the participants seek, the digital platforms and services they use, and the strategies they adopt to access information when inaccessible. The interview also explored challenges and pain points related to information-seeking and access, as well as the overall travel ecosystem and experiences.

3.2.2. Co-Design Workshops

The findings from the interviews highlighted the challenges experienced by BPS people in travelling and the strategies they use to overcome these challenges and improve access to travel information. Next, we conducted two co-design workshops to develop ideas with BPS people and explore the inclusive travel ecosystem in greater depth.

The workshops built on the interview findings and explored the technology design and tourism ecosystem in more detail than the interviews. Additionally, the nature of the workshops allowed the participants to add to each others' responses, helping to develop an enriched understanding of their lived experiences.

The workshops were organised based on the availability of the participants with varying activities. The first workshop focused on exploring the ecosystem and processes related to BPS people travel through two activities: (1) a journey mapping activity held one-on-one between participant and note-taker on their experiences with the tourism industry, and (2) an exploratory focus group to dive into the ecosystem surrounding BPS people travel. The second workshop focuses more on the role of technology in supporting travel experiences through two activities: (1) a "think aloud" activity between two participants and a note-taker for BPS people to describe the process of using technology (including challenges and negotiations) to support their travels, and (2) an ideation activity to explore design recommendations for technology to support experience-sharing processes. Both workshops focused on exploring the role of interdependence, either within the travel ecosystem or the use of technology. These activities aim to map the user journey and ecosystem, define the problem statement and design recommendations towards accessible tourism.

3.3. Data Analysis

The interviews and workshops were audio recorded and transcribed using Microsoft Teams. Subsequently, the transcriptions were manually reviewed for errors and were corrected and anonymised prior to analysis.

A thematic analysis approach was used following the six-step process outlined by Braun et al. [51]. The first author conducted open coding and grouping of relevant codes into sub-themes in collaboration with the second author, who advised on the analysis approach and thematic grouping of the codes. Figure 1 shows the emergent themes found in the study.

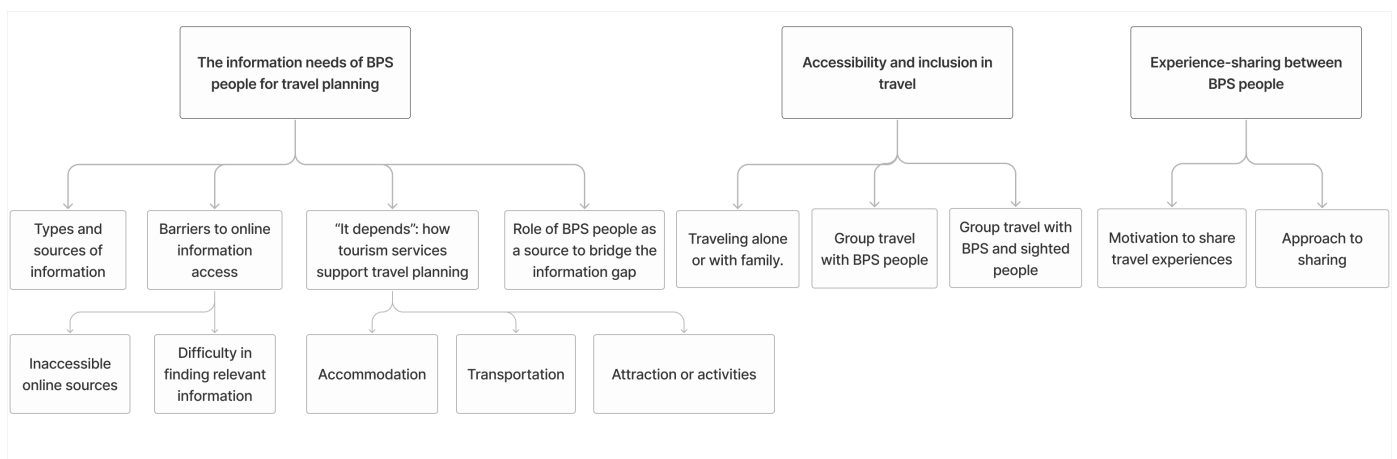


Figure 1. Thematic map of qualitative data Thematic map of qualitative data from semi-structured interviews and co-design workshops.

4. Findings

The findings explore three themes: (1) *the information needs of BPS people for travel planning*, which includes the information type and sources that BPS people look for during planning and the challenges associated with it, (2) *accessibility and inclusion in travel* describes how travel arrangement affects interdependence during travel, and (3) *experience-sharing*

between BPS people explores how and where BPS people tend to share information to contribute and support travel for their community.

4.1. The Information Needs of BPS People for Travel Planning

4.1.1. Types and Sources of Information

Planning travel experiences for BPS people requires high-level information on the trip logistics, such as the location they are going to, the cost of travel, and the method of travel as well as detailed preparation, such as finding and booking accommodation, activities, transportation, navigation route and support services. Additionally, BPS people seek out information made by others, such as travel experiences, recommendations, and accessibility reviews, as a way to prepare for their trip. For each of these information types, accessibility and safety are the most important components that BPS people check for, but it is challenging to find as depicted throughout the study on the various challenges to finding and accessing information.

Table 2 shows the type of information that each participant mentions for their travel preparation throughout the mixed-method study.

Table 2. Type of information needed for BPS people to plan their travel.

Study	Semi-Structured Interviews				Workshop 1			Workshop 2				
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
Trip logistics												
Location	x		x	x			x	x	x			x
Cost			x		x	x						
Method of travel		x	x			x	x	x		x	x	x
Preparation												
Accommodation			x		x	x	x					
Activities		x		x		x		x			x	
Booking transportation		x			x	x	x			x	x	
Navigation route			x					x	x		x	x
Support services	x	x			x	x		x		x	x	x
Other people												
Experiences	x		x	x			x		x	x	x	
Recommendation		x	x		x							
Accessibility review	x		x	x			x				x	

BPS people collected this information from a variety of sources, which were consolidated to create an overall understanding of their travel experiences. The most reported information sources are online, such as Google searches and mobile travel applications. Other mentioned information sources were collected from other people such as family, friends, travel agencies (or services) and other BPS people in their community. Table 3 summarises the information sources mentioned or discussed by each participant.

Table 3. Sources to find and access travel information.

Stages	Semi-Structured Interview				Journey Mapping Workshop			Prototype Interaction and Testing Workshop				
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
Online sources	x	x	x	x		x	x	x	x			x
Friends and family	x			x	x		x			x	x	
Travel services		x			x	x	x	x	x	x		
Travel group					x	x						
Other BPS people	x	x	x	x	x		x			x	x	

4.1.2. Barriers to Online Information Access

Participants described using online information sources such as search engines, official destination and tourism websites or, as described by P1: “any informational sites”, they could find additional insights and recommendations related to their trip, which might include local or hotel guides (P2: “You can actually try to find information from local visitors, guides, or local hotels that onto their site. So, see what others are writing. Or Tripadvisor sometimes, so it is just like getting the information. When you get there, it’s knowing you do have to plan”). Other online resources that were mentioned included official train and airline websites, mobile apps, and community review platforms such as [booking.com](#), [tripadvisor.com](#), and [AccessAble.com](#).

Inaccessible online sources. Almost all participants sought travel information via online sources, which was challenging as many websites and mobile apps that the participants attempted to use were not accessible via screen readers (P2: “The navigation keys are not mapped. There’s no focus mapping with the apps or with the websites. They sometimes carry AAA accessibility features. But these tests have been carried out using a [computer] mouse, and not using the navigation keys like tab, and up and down arrows”). The inaccessibility of the websites not only marred the participants’ browsing experience but also deterred them from continuous use (P1: “I would say that. I don’t think it (the website information) was really helpful, because if it was, I would have continued visiting the site of making use of the sites”).

Difficulty in finding relevant information. Another issue experienced by the participants was the lack of sources to access information relevant and useful for BPS people when planning travels. As P3 described, “I most times hardly know where to get resources because most of the time I always rely on Google”. This lack of clarity, combined with the abundance of official and unofficial information sources, affected the participant agency and negatively impacted their tourism experience as participants commented they often had to seek help from a sighted volunteer (P6: “So, we change the plan, and then we hire the volunteer so they can come in with us, and they guide us”) to access the information needed and sift through the online sources to find relevant information (P5: “I find it too much information. The thing is if you can see, you can directly go to the link. Unless you cannot see”).

4.1.3. “It Depends”: How Tourism Services Support Travel Planning

Most participants report that they plan their own travels, either through online sources or, when inaccessible, through offline travel agencies and services. When online information is not accessible, the result of this study shows that BPS people prefer to seek information through travel agencies and services first as a means to ease their information-seeking process, as BPS people find it is a faster way to receive first-hand information and make relevant bookings. And yet, there are still challenges that could be frustrating to the travel experience which are further explored through sub-themes of information type examples such as accommodation, transportation and attraction or services.

Accommodation. For accommodation, information about the rooms, such as layout, size, and facilities, is not always accessible online for decision-making processes, which then requires BPS people to interact with the accommodation staff to rely on information

about the room (P5: *“Well, when I go to the hotel, usually when I, go to the reception. Somebody came with me to the room, and I explained to myself that I think they are. Like just go basic things like facilities and wardrobes and bed and layout of the rooms”*). However, it can become a frustrating experience when BPS people have to seek assistance at the venue but the staff that are unhelpful or ignorant to their needs (P7: *“I’ve been in a situation where I have gone there, and I’m like, yeah, look, obviously I’m blind and need help. Like, what kind of help do you need? I need. This this this and then waiting around now. Yeah, they have to see each other, they’re talking to each other. But we need you to sign this. We need you to fill out this form. I’m like you. But I cannot see how to fill out the form. if you had given it to me online, Google form or something, I could do it straight away”*).

Transportation. Finding information for transportation can be challenging as BPS people have to go through a complex process when it is online, navigating through multiple steps just for a simple answer (P5: *“Because you see if you go to (online) journey planner, say, where do you start your journey from? Put from like a form, journey from London Euston to Blackpool. Then you choose, are you going by rail or by walking or by this? By that, by bike or, you know, all kinds of options and when you cannot see, it’s quite a task to get anywhere and even then, I struggle. I spent hours and then now don’t bother very much. I will. And if I do by National Rail telephone. Within 10 min, I can do all that business and be very satisfied with an easier reply response”*), which might be followed by an even more difficult process to book tickets online (P2: *“I need assistance to book a flight because the iPhone and the iPad they are up for booking the flights are pretty hopeless. They just are not disability friendly, for if you’ve got a sight problem. I don’t use a PC anymore. It might be it’s the length of time it takes you to get through it, where, if you’ve got your sight, you can check things in the screen and do that, whereas if you’re paragliding around the screen with a touch screen, reader, you’d miss something quite easily”*). So, it seems that for transportation information and booking, BPS people prefer to have direct contact with the line or support services instead to ease their process, especially in booking tickets. Nevertheless, this comes at a cost as it is not always as reliable as it used to be, as services are only available at inconvenient times (P5: *“I used to, see before all these telephone services were available. Now it’s a nightmare. You will get through. like for example, Transport for London there are days to have 24-h service before. Now you get from 9:00 to 5:00, Monday to Friday. I’m out most of the time”*), or it can be a complicated process to contact travel agencies virtually (P2: *“trying to get somebody to speak to book the flight is virtually impossible”*), especially when BPS people can only get access to recorded messages instead of a direct line to support services.

Attractions and activities. There were limited discussions on finding information for attractions or activities, mostly as there are often no available services or information for BPS people to plan their journey for these types of activities, especially if they are travelling alone (P7: *“As far as service providers for any recreational measures or activities, no there is not any. You know, in the country, you just have to do your own thing. If I wanna go to a theme park, for example, there’s nothing that gives me any accessible information to look at, theme park or anywhere where I can just enjoy it by myself”*).

So overall, using tourism services might be better to mitigate inaccessible online information challenges, yet it can still be challenging when the tourism services are unreliable, difficult to obtain to or even expensive. There are also situations when the tourism agencies were rude or discriminatory to BPS people by refusing service (P6: *“I want to find out the agency for blind, but they close down. So I’m difficult to find because the other tour group and well they, they always ask if the disabled person to talk with them then they will not give a proper answer. For example, if I call, it won’t find out information about the place I call them, and they are not answering me properly. They put down (end) my phone calls”*) which creates a negative travel experience that can discourage BPS people from participating in tourism.

In these cases, only then would BPS people turn to their family for support as they prefer to plan on their own first (P1: *“Mostly I do that (plan travel) on my own, at times my brother helps me”*) especially as they prefer to gain first-hand knowledge to plan their journey (P6: *“I want) information for myself now because I want to go there”*). However, this is not the case for all BPS people as some participants report that they would only do so if it were

in emergencies as they do not want to bother their family, especially on travel trips that they take on alone (P5: *"I got my brother now, but I won't ask unless if it's like emergency as I got like what I like to do myself because I don't like you know likes to be disturbed. So yeah, I have to be careful"*). Instead, they prefer to ask friends and families for recommendations of travel destinations and the experiences of visiting those places (P4: *"I'll travel based on recommendations from my friends and family"*) that showcases an interdependent relationship as the interactions allow them autonomy over their own choices.

Having access to skilled support services that understand the needs of BPS people without being discriminatory, ignorant, or rude will create a positive experience for BPS people as they are better prepared and can contribute to their travel groups. Hence, it is the responsibility of agencies and services in the tourism industry to create specialised services for diverse disability needs while ensuring that their staff are professionally trained and educated for this endeavour.

4.1.4. Role of BPS People as a Source to Bridge the Information Gap

This leads to other BPS people being reliable information sources to mitigate the mentioned challenges. This source can be accessed through their local BPS people community (that could also be their relatives or friends) or through social media groups made by and for the BPS community to connect. Some participants share that they turn to the BPS community as a strategy to fill in the information gap, which acts as a foundation for BPS people to even start looking at other information sources to navigate through the abundance of information online (P3: *"That's why I was, I also need the referral (to find information). And that's where my group comes in because I rely on them that they could be of help to me"*). This insight depicts the role of BPS people in the tourism ecosystem to bridge the information gap where they seek or ask for reliable and relevant information from one another on experiences, recommendations, and accessibility reviews (as shown in Table 2), which could be either carried out physically through people they know in real life or online through social media and online communities.

The participants share that generally, they will ask for other BPS people's experiences of travelling to a destination as a method to prepare for their trip, especially how other BPS people find the accessibility of their travel experiences (P7: *"It's personal experiences from other the VI people is also, for example, sometimes on Facebook or WhatsApp, we got groups specific to VI. And so, we'll share our experiences. There will be like, look, I'm trying to get there does anybody know if there's anything accessible? So that is part of the community as well. I'll say other VI people"*), as they have a shared experience of understanding the needs and challenges of travelling (P3: *"I think the most times I think it's good to know this, the experience of people you have a similar challenge with. And sometimes I ask, and sometimes I could check online to see reviews these people (other BPS people) were making. And it's also helps me to know what I should expect"*).

However, a participant shared that P2: *"Everyone's different. And the way they travel and how they travel"*, and so, instead of asking for strategies to travel, they ask for technology or mobile application recommendations (P2: *"I would get a few recommendations of apps and things to use like passenger line and things like that for a passenger assist from some of the computer associations that I'm a member of. There's one there called T. A. VIP. It's a technical association for visually impaired people, and they have a discussion forum. you can find it a helpful tip if you stick to somebody (ask somebody) and say, Okay, I get from there to there"*), while another participant shared that they want to know about social situations (P4: *"I think their experience, to know if they were actually welcome on the experience and how people received them"*) from other BPS people.

Despite that, any type of information shared by other BPS people seems to always be useful, relevant, and reliable for BPS people to prepare for their trip such that the majority of the participants reported this as a source of information, as shown in Table 3, without any mention of challenges related to it, other than P7: *"there is no natural platform"* to find or share their travel experiences. It seems that information sources and interactions

with other BPS people allow both independence and interdependence in a way that supports their information-seeking needs, proving to be an important component of the BPS tourism ecosystem.

4.2. Accessibility and Inclusion in Travel

During the study, travel arrangements were briefly discussed with some participants to further understand the travel experience of BPS people and how it influences accessing information while at the travel destination. Three participants (P1, P2, P5) reported that they enjoy travelling alone, three (P3, P4, P7) reported that they travel with family, five (P5, P6, P10, P11, P12) reported that they often travel with other BPS people as a group and only one participant (P5) shared their experience travelling with a tourism tour group.

4.2.1. Travelling Alone or with Family

It is found that detailed information and preparation are especially important for solo travelling endeavours to ensure a positive experience (P4: *"I travelled alone. I wanted to go meet my family over there, I feel that I would be able to find my way around there. But it was actually more (challenging) than I expected"*) especially when BPS people do not want to rely on their family for something they wish to do independently (P5: *"I'm independent person. I travel independently. If I ask my brother, he will come. But I feel I'm putting him under pressure. He would do it only as a sense of duty, so I prefer to do it mostly by myself"*). Otherwise, travelling with family can be an enjoyable experience if the participants have the opportunity to collaborate or contribute to the planning process.

4.2.2. Group Travel with BPS People

Participants reported that when BPS people travel in groups (with one another), information is collaboratively shared throughout the trip, and they can choose the activities that they want to participate in rather than following a set itinerary. For example, the individual can either choose to explore a certain area independently or join leisurely pursuit planned by others (P5: *"if I feel that I want to walk and the others don't like walking, then I do myself. So it's up to you. You're not forced to do anything. You do whatever you like"*). The participant also shared that travelling with other BPS people is especially enjoyable as the group can do activities together without needing to worry about challenges to participate in social interactions (P5: *"I find it difficult if I go with not my own community. Then I won't have too much in common. Sometimes, we [BPS people] can play games together like dominoes to pass the time. If you are on holiday or 3–4 nights, sometimes you can organise the things which usually the people who are without sight can do, and so you've got more things in common"*). This insight illustrates the positive impact of accessible travel experiences where BPS people are empowered to plan activities, exercise their agency, and foster interdependence through common interests and shared experiences.

4.2.3. Group Travel with BPS and Sighted People

Otherwise, the only account of travelling with a tour group was mentioned as a strategy to access historical or cultural information when visiting new places, as recounted by P5: *"Ohh, because when I if I want to do that way (cultural activities) I normally go with the organised tour. So they're good tour leader who explains to you everything about wherever you are visiting, they've got a specific programme that I've been with, two organised tours"*. The agency provides a "specialised" service for BPS people by pairing the BPS travellers with sighted volunteers that guide them around cultural sites and share information about the attractions. However, another participant emphasises that for a positive travel experience, BPS people need to let the sighted volunteers know how to guide them (P10: *"I think they (BPS people) need to let people know how to be guided"*). Hence, travelling with a companion or tour group is not always favourable because it is crucial to have compatibility with the sighted volunteer, especially in some cases where the tourism company would not allow BPS people to travel alone (*"P5: See for example, I want to go to a cruise until I find somebody*

compatible. Whether they are comfortable with me and I'm comfortable with them (. . .), but if I could see, I would just go; I would not worry because I remember to do everything by myself because I cannot see, they won't let me"). This might be due to how the tourism company itself do not offer specialised support services (P6: "I call one agency and say I'm disabled. I would like to go on this place, and they said no. You have to bring one person with you. Then you can come. Otherwise, they don't have anyone to guide a disabled person"), which might also be difficult when BPS people (P6: "have to pay the full amount for a carer as well").

4.3. Experience-Sharing between BPS People

4.3.1. Motivation to Share Travel Experiences

BPS people often choose to share experiences with others either in real life with their community or online through social media such as Facebook or WhatsApp groups. They do so to discuss and support one another in navigating the challenges they face ("P1: We have a little bit of a community on Facebook where we get to chat and share our differences online mostly for the disabled community. And then we also have them for visually impaired people as well. Yeah, we come to discuss a couple of things that burdens since and things that would actually be of help"). However, there is no unified platform of a web-based information system for BPS people to find a collective knowledge of the travel experiences of the BPS community (P7: "At the moment, there is no natural platform where you can actually see this type of information, but there are groups so WhatsApp groups there are Facebook groups for VI travellers. VI. You know? Yeah, travelling sort of groups. Ohh, where you share your experiences, and you could tell other people what was accessible and what was not that accessible").

Additionally, sharing experiences also brings feelings of inspiration as BPS people can learn from one another (P5: "Sometimes I like this, where I with other people in the same situation so I can learn from them what kind of difficulties they are confronting every day, and how they enjoy their life, and it gives me inspiration"), whereas for travel purposes, it gives them ideas and expectations of the travel experiences (P1: "A couple of people that might want to inspire, to visit where you just travel back from, and yeah, we get to share. And others, how it went, what to expect and what to go eat as well").

4.3.2. Approach to Sharing

Two approaches were discovered when it comes to BPS people sharing their travel experiences. The first are those that are happy to share their experience and choose to do so on their own initiative as a way to encourage and inspire others (P1: "It gives us an much of an encouragement to just know that you're not actually in these alone. That we are together"). The second are those who only do so when there are questions or requests in their community for assistance as a way to help others ("P2: I would share with other blind people and to some of the groups that I'm with. If somebody asked me how I would get to such a place, Or if I have not been there, I would say. you know so and so, but that would be more of an answer to a request for help rather than sharing that I do on the web"). However, not every BPS person has good experience navigating social media, which deters them from sharing their experience online ("P6: I don't have a good experience with website and social media, so I don't tell anyone to do that or I just tell them you can call and find out"). Either way, BPS people are still eager to help others with the support they need as they have a shared experience in navigating different challenges. This insight shows that there should be a way for BPS people to freely share their experiences or respond to requests as they like to support both approaches as a way to bridge the travel information-seeking gap.

5. Discussion

5.1. Mapping the Accessible Tourism Ecosystem

Building on the previous works related to accessible tourism [15,17,20,23,26,30] and BPS people travel processes [13,16,25,29,32], we introduce the accessible tourism ecosystem (Figure 2), which (1) identifies the sources of information to assist BPS people in travel planning including community members, technologies, and service providers, and

(2) highlights the interaction points and information-seeking behaviours of BPS depending information need in travel planning.

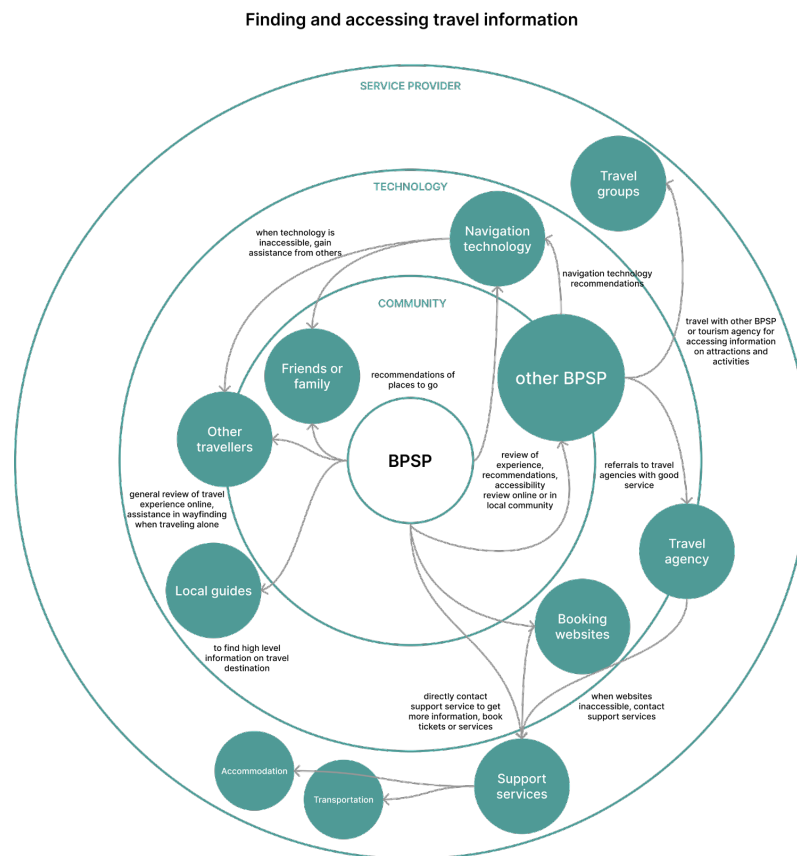


Figure 2. Ecosystem map for BPS people to find and access travel information.

5.1.1. Community

The participants showcase various information sources to gain a collective understanding of their travel experiences, such as accessible online sources, their community, including family and friends, as well as travel agencies and services. When these sources become unreliable, BPS people turn to online or local communities of other BPS people to fill the information gap and use knowledge from other BPS people as a foundation to guide their information information-seeking processes, which is insightful as the role of BPS people has not been discussed in other sources as a reliable source in the tourism industry. It has, however, been discussed through the lens of navigation, showcasing how BPS people can support one another with shared knowledge, strategies and experiences [32,35,52]. This means that there is an opportunity to further uncover diverse ways to improve travel information systems according to the interactions already fostered within the BPS community.

5.1.2. Technology

The participant mentions local guides, booking and travel agency websites as their source for high-level information on travel destinations. However, as most online sources can be inaccessible or unreliable, recommendations from other BPS people of online sources, navigation technology and travel agencies support BPS people in navigating the abundant resource of information to find the most reliable technology to support their needs and expectations. This showcases the intersection between community and technology that enables interdependence in supporting travel information needs. Hence, instead of going through different online sources, a unified information-based system for BPS people to find and share travel information would greatly reduce the effort in finding reliable and accessi-

ble information while fostering a sense of community. This aligns with the suggestion made by [22,30] as a means to use information system technology to support accessible tourism.

5.1.3. Service Providers

Similarly, with technology, participants gain insight into reliable travel agencies from other BPS people to mitigate challenges related to discriminatory practices. Only when BPS travellers want to practice independence from their community or their interaction with technology fails, would BPS travellers seek out support services for more travel information and ticket booking services for transportation and accommodation. Even then, some participants prefer to directly contact support services to mitigate challenges associated with technology. An important component of the travel ecosystem is the opportunity to travel with groups either with other BPS people or as part of the tourism industry to practice both independence and interdependence. It was discussed that this method would often support their travel information needs as they could have the necessary resources, knowledge and support from their travel group.

The insights from the ecosystem map define the problems statements for BPS people in their travel experience as follows: (1) BPS people need a natural platform of information system that is reliable, relevant and accessible so that they can find and access information to plan, access, contribute and engage in their travel experiences, and (2) BPS people need an easy and accessible way to share their travel experiences as a guide so that they can create a sense of community and help others. These problem statements shape the direction of the design space and ensure that the study is focused on solving the needs of BPS people to support information-seeking and access processes.

5.2. Information-Seeking in and for Travel

The findings show that information-seeking and access are important components of travel, especially in planning, collaborating, wayfinding, and engaging in travel experiences, which influences the motivation of BPS people towards travel and tourism. The information needs of BPS people vary as per the individual's own sociocultural values and circumstances, previous experiences and interests, which might depend upon the complexity of travel, the level of vision loss, technical knowledge and the arrangement of the trip, which aligns with several studies discussing information needs of BPS people related to travel [13,32,35]. Our findings also emphasise that BPS people require various information at different travel stages [32] where they collect information on trip logistics, preparation and knowledge from other people for travel planning. Since travel planning is essential for disabled people to make travel decisions, frustrating experiences in this process can lead to the abandonment of travel [16,31].

As evident from the participants' accounts, equal information access is crucial to accessible tourism [35] and yet is still unattainable for BPS people as online sources are either inaccessible or irrelevant towards their needs [14,32,48,53], and tourism services are either ignorant or helpful in assisting travel planning processes [48,53]. Although online information sources are relatively convenient to use, the abundance of information (not always accurate or useful) can lead to further challenges in negotiating ways around finding information that might be simple otherwise for sighted tourists. While friends and family can be helpful, BPS people prefer to gain first-hand information about their travel experiences, especially if they are travelling alone. Therefore, it is incumbent upon travel agencies and service providers to provide inclusive services and information to support BPS travellers.

5.3. Interdependence and Experience-Sharing in Travel

The PLACES framework [32] discusses the motivation of BPS people to contribute to their outdoor leisure experience at every stage, by collaborative planning and decision-making, co-creating engaging outdoor activities, and experience sharing to promote access to outdoor leisure for the BPS community. This study uncovers the role that BPS people play

for one another in the tourism industry by supporting and contributing to a positive travel experience. Not only do the experience and knowledge shared by other BPS people bridge the information gap that other information sources could not provide, but the arrangement of BPS people travelling as a group is even more engaging and enjoyable as they are able to participate in activities accessible to them while bonding over shared experiences. This finding is consistent with [52], highlighting the interdependence and information-sharing between BPS people when travelling together. However, this area of research remains under-explored due to the perception of BPS people as receivers of information and not as active contributors. Through our findings, we seek to challenge this perception and call for a shift towards designing for well-being, and social inclusion, and focus on abilities rather than disabilities [54,55]. This study undertook an ability-based design approach with the blind or partially sighted participants involved in the co-design study.

The only mention of BPS people as contributors can be found in the PLACES framework [32] for outdoor leisure, where BPS people discuss the importance of collecting accessibility information from the perspective of BPS people as a means to understand their environment and a need to share their experience. Another study [35] also discusses how BPS people want to share their knowledge and experiences with others, showcasing the need to build an information system for BPS people to both seek and contribute to their travel experiences.

The findings also emphasised the importance of experience sharing to promote relatedness and a sense of belonging within BPS communities. With online experience sharing on social media becoming more pervasive, previous research has explored the influence of experience sharing via social media and the impact of such on motivating travel for social media consumers [56,57]. User-generated multimodal content sharing (termed as e-Word of Mouth or eWOM) on social media has surged in the last decade, and the travel experiences shared on social media are vital in shaping tourists' awareness, expectations, perceptions, attitudes, and behaviours [56,58]. While there are several risks to sharing personal experiences on social media for the sharer and viewers [59], eWOM is perceived by social media users as more trustworthy compared to content shared through official channels and travel agencies [58]. Particularly, during the travel planning stage, tourists actively engage with eWOM on social media before making a travel decision [60].

5.4. Designing Technology for Accessible Travel

This study highlights the prominent role of online information sources (website and mobile apps) in BPS people's information-seeking about travel, yet the accessibility of travel and tourism websites [38–44] and more importantly social media platforms remains poor [61–63]. The findings show that even when online sources are designed to meet Web Content Accessibility Guidelines (WCAG) requirements and are often tested to ensure that they are accessible, development efforts still fall short of ensuring that BPS people can navigate through websites using keyboard navigation or assistive technology. This can be seen across studies [41,53,64,65] focused on evaluating the accessibility of technology for BPS people. However, the findings suggest that accessibility of online platforms and content is seen as an afterthought; thus, involving BPS people throughout the platform and content design process is critical to ensure the availability of information that is clear, accessible, reliable, and relevant.

The study uncovers the role of BPS people in contributing towards a positive travel experience to support the processes of BPS people seeking information created by other BPS people while sharing their own knowledge and experiences. As BPS people can only find this information through online sources and social media, the information might be scattered across various databases with no easy or accessible way to navigate and filter for relevant travel information [30] that BPS people need for the different stages of travel. So, it is then crucial to have a consistent platform that offers information that shows cooperation between information creators and seekers, allowing direct response

and guidance to improve efficiency while meeting the needs of the diverse needs of disability [30].

5.5. Limitations and Future Work

We encountered some limitations in achieving the outcome of this study which should be acknowledged. Firstly, not all demographic information, such as exact age, details of visual impairment and occupation of the participants, were collected during the study. Second, the sample size of this study was small, with the majority of the participants being partially sighted and from a group of participants who knew each other and belonged to the same sociocultural background (as observed by the authors). It should also be noted that the purpose of this research was exploratory, as this is an under-researched area, and not to reach theoretical saturation. Despite this, some of the participants' experiences were similar in nature due to their geographical location and interests. Hence, future work with a more diverse group of participants with varied travel experiences and cultural backgrounds may produce more meaningful and richer insights that could address the needs of a larger BPS population. Finally, in this study, we present insights from the information-seeking needs and behaviours of BPS people to inform and motivate future research on accessible content creation and sharing by and for BPS people. Doing this using an ability-focused, participatory design approach can lead to better design improved adoption of technologies and increased engagement in travel and leisure activities.

6. Conclusions

This paper presented a mixed-methods exploration of BPS people's information needs and the challenges experienced in the pursuit of leisure travel. We conducted a semi-structured interview study and co-design workshops with 12 BPS people who shared rich insights about their information-seeking behaviours. Through the interaction with the participants, we identified various information sources utilised by BPS people to access information and to aid in travel planning. Aligning with prior research, our findings emphasise the need for BPS people to have agency in travel and contribute to other people's travel experiences. To inform future research and design of inclusive travel and tourism services, we contribute to the inclusive tourism ecosystem space, identifying the interaction of BPS people with different sources of information, technologies, and service providers to access travel planning information.

6.1. Theoretical Contribution:

The current research makes several contributions to the inclusive travel literature including:

- Sharing information and experiences between disabled people can foster a sense of community and enable independence and travel.
- The research contributes towards strengthening the understanding of the needs of BPS people in the tourism context.
- While travel experiences of BPS people have been previously investigated, the psychosocial competencies of BPS people, including agency, self-esteem and self-efficacy, have often been overlooked. Building psychosocial competency is crucial to developing confidence and motivation for travel.

6.2. Implications for Inclusive Travel and SDGs

- Our findings highlight that travel information and tourism services are often not inclusive and accessible for BPS people. Therefore, the inclusive travel ecosystem map helps identify the current gaps in the tourism industry. Particularly, the lack of accessible information and suitable sources of information for BPS people highlights the injustice and challenges experienced by BPS people when planning travel.
- Our findings also highlight the need and potential for technologies to support experience sharing between disabled people to ensure the appropriate information is shared

in a timely manner. Particularly, as many BPS people are motivated to share their experiences and insights about places visited with others in the community. However, due to the lack of appropriate platforms and services, BPS people are unable to share such information. Additionally, the psychosocial competencies of BPs including agency, self-esteem and self-efficacy, have often been overlooked.

- Our findings can help design better tourism resources for BPS people to be able to plan their own tourism experiences rather than depending on sighted people to plan for them.
- This research will inspire tourism service providers to bring disabled people's voices and experiences to promote inclusive tourism.
- This research will encourage governments to improve the accessibility of locations and tourism information services for disabled people in order to improve universal access to travel and tourism for disabled people and better align with UN SDGs.

Author Contributions: Conceptualization, M.B., A.A. and C.H.; Methodology, M.B. and A.A.; Formal analysis, A.A.; Investigation, A.A. and M.B.; Writing—original draft, A.A. and M.B.; Writing—review & editing, M.B. and L.X.; Supervision, M.B. and C.H.; Project administration, M.B.; Funding acquisition, C.H. All authors have read and agreed to the published version of the manuscript.

Funding: This research was funded by the Engineering and Physical Sciences Research Council (EPSRC) Doctoral Training Program EP/N509577/1.

Institutional Review Board Statement: The study was conducted in accordance with UK GDPR and approved by the Ethics Committee of University College London (UCL Ethics Project ID Number: 16149/001 Dated: 16 December 2022).

Informed Consent Statement: Informed consent was obtained from all subjects involved in the study.

Data Availability Statement: The original contributions presented in the study are included in the article, further inquiries can be directed to the corresponding author.

Acknowledgments: We would like to acknowledge the research participants who shared their lived experiences and stories with us. We are grateful to the members of Beyond Sight Loss for their engagement in this research.

Conflicts of Interest: The authors declare no conflicts of interest.

References

1. Lew, A.A. Why travel?—Travel, tourism, and global consciousness. *Tour. Geogr.* **2018**, *20*, 742–749. [[CrossRef](#)]
2. Crandall, R. Motivations for Leisure. *J. Leis. Res.* **1980**, *12*, 45–54. [[CrossRef](#)]
3. Crompton, J.L. Motivations for pleasure vacation. *Ann. Tour. Res.* **1979**, *6*, 408–424. [[CrossRef](#)]
4. Epperson, A. Why People Travel. *J. Phys. Educ. Recreat. Danc.* **1983**, *54*, 53–55. [[CrossRef](#)]
5. Falk, J.H.; Ballantyne, R.; Packer, J.; Benckendorff, P. Travel and Learning: A Neglected Tourism Research Area. *Ann. Tour. Res.* **2012**, *39*, 908–927. [[CrossRef](#)]
6. Kim, K.Y.; Jogaratnam, G. Travel Motivations. *J. Travel Tour. Mark.* **2003**, *13*, 61–82. [[CrossRef](#)]
7. Chen, C.C.; Petrick, J. Health and Wellness Benefits of Travel Experiences A Literature Review. *J. Travel Res.* **2013**, *52*, 709–719. [[CrossRef](#)]
8. Sthapit, E.; Björk, P.; Coudounaris, D.N. Towards a better understanding of memorable wellness tourism experience. *Int. J. Spa Wellness* **2023**, *6*, 1–27. [[CrossRef](#)]
9. Luo, Y.; Lanlung (Luke), C.; Kim, E.; Tang, L.R.; Song, S.M. Towards quality of life: The effects of the wellness tourism experience. *J. Travel Tour. Mark.* **2018**, *35*, 410–424. [[CrossRef](#)]
10. Daniels, M.J.; Drogin Rodgers, E.B.; Wiggins, B.P. "Travel Tales": An interpretive analysis of constraints and negotiations to pleasure travel as experienced by persons with physical disabilities. *Tour. Manag.* **2005**, *26*, 919–930. [[CrossRef](#)]
11. Moura, A.; Eusébio, C.; Devile, E. The 'why' and 'what for' of participation in tourism activities: Travel motivations of people with disabilities. *Curr. Issues Tour.* **2023**, *26*, 941–957. [[CrossRef](#)]
12. Qiao, G.; Cao, Y.; Zhang, J. Accessible Tourism—Understanding blind and vision-impaired tourists' behaviour towards inclusion. *Tour. Rev.* **2022**, *78*, 531–560. [[CrossRef](#)]
13. Small, J.; Darcy, S.; Packer, T. The embodied tourist experiences of people with vision impairment: Management implications beyond the visual gaze. *Tour. Manag.* **2012**, *33*, 941–950. [[CrossRef](#)]
14. Blichfeldt, B.S.; Nicolaisen, J. Disabled travel: Not easy, but doable. *Curr. Issues Tour.* **2011**, *14*, 79–102. [[CrossRef](#)]

15. Darcy, S. Disabling Journeys: The tourism patterns of people with impairments in Australia. In *CAUTHE 2003: Riding the Wave of Tourism and Hospitality Research*; Southern Cross University: Lismore, Australia, 2003; pp. 271–279.
16. Packer, T.; Small, J.; Darcy, S. *Tourist Experiences of Individuals with Vision Impairment*; CRC for Sustainable Tourism Pty Ltd.: Gold Coast, Australia, 2007; pp. 18–21.
17. Packer, T.L.; Packer, T.L.; Mckercher, B.; Yau, M.K. Understanding the complex interplay between tourism, disability and environmental contexts. *Disabil. Rehabil.* **2007**, *29*, 281–292. [[CrossRef](#)]
18. Damiasih, D.; Palestho, A.B.; Raka, A.A.G.; Kurniawan, H.; Pebriani, P.; Suhendroyono, S.; Gunawarman, A.A.G.R.; Maulidimas, P. Comprehensive Analysis of Accessible Tourism and Its Case Study in Indonesia. *J. Environ. Manag. Tour.* **2022**, *13*, 995–1015. [[CrossRef](#)]
19. McKercher, B.; Darcy, S. Re-conceptualizing barriers to travel by people with disabilities. *Tour. Manag. Perspect.* **2018**, *26*, 59–66. [[CrossRef](#)]
20. Buhalis, D.; Darcy, S. *Accessible Tourism: Concepts and Issues*; Aspects of Tourism, Channel View Publications: Clevedon, UK, 2010.
21. Darcy, S.; Dickson, T. A Whole-of-Life Approach to Tourism: The Case for Accessible Tourism Experiences. *J. Hosp. Tour. Manag.* **2009**, *16*, 32–44. [[CrossRef](#)]
22. Teixeira, P.; Alves, J.; Correia, T.; Teixeira, L.; Eusébio, C.; Silva, S.; Teixeira, A. A Multidisciplinary User-Centered Approach to Designing an Information Platform for Accessible Tourism: Understanding User Needs and Motivations. In *Universal Access in Human-Computer Interaction. Design Methods and User Experience*; Lecture Notes in Computer Science; Antona, M., Stephanidis, C., Eds.; Springer: Cham, Switzerland, 2021; pp. 136–150. [[CrossRef](#)]
23. Devile, E.; Kastenholz, E. Accessible tourism experiences: The voice of people with visual disabilities. *J. Policy Res. Tour. Leis. Events* **2018**, *10*, 265–285. [[CrossRef](#)]
24. Qiao, G.; Pabel, A.; Chen, N. Understanding the Factors Influencing the Leisure Tourism Behavior of Visually Impaired Travelers: An Empirical Study in China. *Front. Psychol.* **2021**, *12*, 684285. [[CrossRef](#)]
25. Qiao, G.; Song, H.; Prideaux, B.; Huang, S.S. The “unseen” tourism: Travel experience of people with visual impairment. *Ann. Tour. Res.* **2023**, *99*, 103542. [[CrossRef](#)]
26. Small, J.; Darcy, S. Chapter 5. Understanding Tourist Experience Through Embodiment: The Contribution of Critical Tourism and Disability Studies. In *Accessible Tourism*; Channel View Publications: Blue Ridge Mountains, VA, USA, 2010; pp. 73–97. [[CrossRef](#)]
27. Stephens, K.; Butler, M.; Holloway, L.M.; Goncu, C.; Marriott, K. Smooth Sailing? Autoethnography of Recreational Travel by a Blind Person. In *Proceedings of the ASSETS '20: Proceedings of the 22nd International ACM SIGACCESS Conference on Computers and Accessibility*, Virtual, 26–28 October 2020; Association for Computing Machinery: New York, NY, USA, 2020; pp. 1–12. [[CrossRef](#)]
28. Engel, C.; Müller, K.; Constantinescu, A.; Loitsch, C.; Petrausch, V.; Weber, G.; Stiefelwagen, R. Travelling more independently: A Requirements Analysis for Accessible Journeys to Unknown Buildings for People with Visual Impairments. In *Proceedings of the ASSETS '20: Proceedings of the 22nd International ACM SIGACCESS Conference on Computers and Accessibility*, Virtual, 26–28 October 2020; Association for Computing Machinery: New York, NY, USA, 2020; pp. 1–11. [[CrossRef](#)]
29. Mothiravally, V.; Ang, S.; Baloch, G.M.; Kulampallil, T.T.; Geetha, S. Attitude and Perception of Visually Impaired Travelers: A Case of Klang Valley, Malaysia. *Procedia Soc. Behav. Sci.* **2014**, *144*, 366–377. [[CrossRef](#)]
30. Kołodziejczak, A. Information as a Factor of the Development of Accessible Tourism for People with Disabilities. *Quaest. Geogr.* **2019**, *38*, 67–73. [[CrossRef](#)]
31. Yau, M.K.s.; McKercher, B.; Packer, T.L. Traveling with a disability. *Ann. Tour. Res.* **2004**, *31*, 946–960. [[CrossRef](#)]
32. Bandukda, M.; Holloway, C.; Singh, A.; Berthouze, N. PLACES: A Framework for Supporting Blind and Partially Sighted People in Outdoor Leisure Activities. In *Proceedings of the ASSETS '20: Proceedings of the Proceedings of the 22nd International ACM SIGACCESS Conference on Computers and Accessibility*, Virtual, 26–28 October 2020; Association for Computing Machinery: New York, NY, USA, 2020; pp. 1–13. [[CrossRef](#)]
33. Godovykh, M.; Tasci, A.D.A. Customer experience in tourism: A review of definitions, components, and measurements. *Tour. Manag. Perspect.* **2020**, *35*, 100694. [[CrossRef](#)]
34. Müller, K.; Engel, C.; Loitsch, C.; Stiefelwagen, R.; Weber, G. Traveling More Independently: A Study on the Diverse Needs and Challenges of People with Visual or Mobility Impairments in Unfamiliar Indoor Environments. *ACM Trans. Access. Comput.* **2022**, *15*, 13:1–13:44. [[CrossRef](#)]
35. Banovic, N.; Franz, R.L.; Truong, K.N.; Mankoff, J.; Dey, A.K. Uncovering information needs for independent spatial learning for users who are visually impaired. In *Proceedings of the ASSETS '13: Proceedings of the 15th International ACM SIGACCESS Conference on Computers and Accessibility*, Bellevue, WA, USA, 21–23 October 2013; Association for Computing Machinery: New York, NY, USA, 2013; pp. 1–8. [[CrossRef](#)]
36. Kameswaran, V.; Fiannaca, A.J.; Kneisel, M.; Karlson, A.; Cutrell, E.; Ringel Morris, M. Understanding In-Situ Use of Commonly Available Navigation Technologies by People with Visual Impairments. In *Proceedings of the ASSETS '20: Proceedings of the 22nd International ACM SIGACCESS Conference on Computers and Accessibility*, Virtual, 26–28 October 2020; Association for Computing Machinery: New York, NY, USA, 2020. [[CrossRef](#)]
37. Lam, K.L.; Chan, C.S.; Peters, M. Understanding technological contributions to accessible tourism from the perspective of destination design for visually impaired visitors in Hong Kong. *J. Destin. Mark. Manag.* **2020**, *17*, 100434. [[CrossRef](#)]

38. Domínguez Vila, T.; Alén González, E.; Darcy, S. Accessibility of tourism websites: The level of countries' commitment. *Univers. Access Inf. Soc.* **2020**, *19*, 331–346. [[CrossRef](#)]
39. Eusébio, C.; Silveiro, A.; Teixeira, L. Website accessibility of travel agents: An evaluation using web diagnostic tools. *J. Access. Des. All* **2020**, *10*, 180–208. [[CrossRef](#)]
40. Goble, C.; Harper, S.; Stevens, R. The travails of visually impaired web travellers. In Proceedings of the Eleventh ACM on Hypertext and Hypermedia, San Antonio, TX, USA, 30 May–3 June 2000; pp. 1–10. [[CrossRef](#)]
41. Gonçalves, M.J.A.; Camarinha, A.P.; Abreu, A.J.; Teixeira, S.; da Silva, A.F. Web Accessibility in the Tourism Sector: An Analysis of the Most Used Websites in Portugal. In *Advances in Tourism, Technology and Smart Systems*; Rocha, Á., Abreu, A., de Carvalho, J.V., Liberato, D., González, E.A., Liberato, P., Eds.; Springer: Singapore, 2020; pp. 141–150.
42. Han, J.H.; Mills, J. Are Travel Websites Meeting the Needs of the Visually Impaired? *J. IT Tour.* **2007**, *9*, 99–113. [[CrossRef](#)]
43. Lee, S.; Reddie, M.; Carroll, J.M. Designing for Independence for People with Visual Impairments. *Proc. ACM Hum.-Comput. Interact.* **2021**, *5*, 149:1–149:19. [[CrossRef](#)]
44. Swierenga, S.J.; Sung, J.; Pierce, G.L.; Propst, D.B. Website Design and Usability Assessment Implications from a Usability Study with Visually Impaired Users. In *Universal Access in Human-Computer Interaction. Users Diversity*; Stephanidis, C., Ed.; Springer: Berlin/Heidelberg, Germany, 2011; pp. 382–389.
45. Bradley, N.; Dunlop, M. An Experimental Investigation into Wayfinding Directions for Visually Impaired People. *Pers. Ubiquitous Comput.* **2005**, *9*, 395–403. [[CrossRef](#)]
46. Srikrishnan, A.; Joshi, A. Comparison of verbalized navigation by visually impaired users with navigation based on instructions from Google maps. In Proceedings of the IndiaHCI '19 Proceedings of the 10th Indian Conference on Human-Computer Interaction, Hyderabad, India, 1–3 November 2019; Association for Computing Machinery: New York, NY, USA, 2019; pp. 1–6. [[CrossRef](#)]
47. Williams, M.A.; Galbraith, C.; Kane, S.K.; Hurst, A. "just let the cane hit it": How the blind and sighted see navigation differently. In Proceedings of the ASSETS '14: Proceedings of the 16th International ACM SIGACCESS Conference on Computers & Accessibility, Rochester, NY, USA, 20–22 October 2014; Association for Computing Machinery: New York, NY, USA, 2014; pp. 217–224. [[CrossRef](#)]
48. Bennett, C.L.; Brady, E.; Branham, S.M. Interdependence as a Frame for Assistive Technology Research and Design. In Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility, Galway, Ireland, 22–24 October 2018; pp. 161–173. [[CrossRef](#)]
49. Small, J. Interconnecting mobilities on tour: Tourists with vision impairment partnered with sighted tourists. *Tour. Geogr.* **2015**, *17*, 76–90. [[CrossRef](#)]
50. Bandukda, M.; Singh, A.; Berthouze, N.; Holloway, C. Understanding Experiences of Blind Individuals in Outdoor Nature. In Proceedings of the CHI EA '19: Proceedings of the Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems, Glasgow, UK, 4–9 May 2019; Association for Computing Machinery: New York, NY, USA, 2019; pp. 1–6. [[CrossRef](#)]
51. Braun, V.; Clarke, V. One size fits all? What counts as quality practice in (reflexive) thematic analysis? *Qual. Res. Psychol.* **2021**, *18*, 328–352. [[CrossRef](#)]
52. Thieme, A.; Bennett, C.L.; Morrison, C.; Cutrell, E.; Taylor, A.S. "I can do everything but see!"—How People with Vision Impairments Negotiate their Abilities in Social Contexts. In Proceedings of the CHI '18: Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems, Montreal, QC, Canada, 21–26 April 2018; Association for Computing Machinery: New York, NY, USA, 2018; pp. 1–14. [[CrossRef](#)]
53. Barbosa, N.A.M.; Hayes, J.; Kaushik, S.; Wang, Y. "Every Website Is a Puzzle!": Facilitating Access to Common Website Features for People with Visual Impairments. *ACM Trans. Access. Comput.* **2022**, *15*, 19. [[CrossRef](#)]
54. Wobbrock, J.O.; Gajos, K.Z.; Kane, S.K.; Vanderheiden, G.C. Ability-based design. *Commun. ACM* **2018**, *61*, 62–71. [[CrossRef](#)]
55. Peters, D. Wellbeing Supportive Design – Research-Based Guidelines for Supporting Psychological Wellbeing in User Experience. *Int. J. Hum.-Comput. Interact.* **2023**, *39*, 2965–2977. [[CrossRef](#)]
56. Kaosiri, Y.N.; Fiol, L.J.C.; Ángel Moliner Tena, M.; Artola, R.M.R.; García, J.S. User-Generated Content Sources in Social Media: A New Approach to Explore Tourist Satisfaction. *J. Travel Res.* **2019**, *58*, 253–265. [[CrossRef](#)]
57. Liu, H.; Wu, L.; Li, X.R. Social Media Envy: How Experience Sharing on Social Networking Sites Drives Millennials' Aspirational Tourism Consumption. *J. Travel Res.* **2019**, *58*, 355–369. [[CrossRef](#)]
58. Fotis, J.; Buhalis, D.; Rossides, N. Social Media Use and Impact during the Holiday Travel Planning Process. In *Information and Communication Technologies in Tourism 2012*; Fuchs, M., Ricci, F., Cantoni, L., Eds.; Springer: Vienna, Austria, 2012; pp. 13–24.
59. Sweet, K.S.; LeBlanc, J.K.; Stough, L.M.; Sweany, N.W. Community building and knowledge sharing by individuals with disabilities using social media. *J. Comput. Assist. Learn.* **2020**, *36*, 1–11. [[CrossRef](#)]
60. Saurabh Kumar Dixit, K.H.L.; Loo, P.T. Consumer behavior in hospitality and tourism. *J. Glob. Sch. Mark. Sci.* **2019**, *29*, 151–161. [[CrossRef](#)]
61. Altınay, Z.; Saner, T.; Bahçelerli, N.M.; Altınay, F. The Role of Social Media Tools: Accessible Tourism for Disabled Citizens. *J. Educ. Technol. Soc.* **2016**, *19*, 89–99.

62. Gleason, C.; Carrington, P.; Chilton, L.B.; Gorman, B.M.; Kacorri, H.; Monroy-Hernández, A.; Morris, M.R.; Tigwell, G.W.; Wu, S. Addressing the Accessibility of Social Media. In Proceedings of the CSCW '19 Companion: Proceedings of the Companion Publication of the 2019 Conference on Computer Supported Cooperative Work and Social Computing, Austin, TX, USA, 9–13 November 2019; Association for Computing Machinery: New York, NY, USA, 2019; pp. 474–479. [[CrossRef](#)]
63. Sacramento, C.; Ferreira, S.B.L. Accessibility on social media: Exploring congenital blind people's interaction with visual content. In Proceedings of the IHC '22: Proceedings of the 21st Brazilian Symposium on Human Factors in Computing Systems, Diamantina, Brazil, 17–21 October 2022; Association for Computing Machinery: New York, NY, USA, 2022. [[CrossRef](#)]
64. Jeanneret Medina, M.; Lalanne, D.; Cédric, B.; Benoit, C. "It Deserves to Be Further Developed": A Study of Mainstream Web Interface Adaptability for People with Low Vision. In Proceedings of the CHI EA '22: Proceedings of the Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems, New Orleans, LA, USA, 29 April–5 May 2022; Association for Computing Machinery: New York, NY, USA, 2022. [[CrossRef](#)]
65. Power, C.; Freire, A.; Petrie, H.; Swallow, D. Guidelines are only half of the story: Accessibility problems encountered by blind users on the web. In Proceedings of the CHI '12: Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, Austin, TX, USA, 5–10 May 2012; Association for Computing Machinery: New York, NY, USA, 2012; pp. 433–442. [[CrossRef](#)]

Disclaimer/Publisher's Note: The statements, opinions and data contained in all publications are solely those of the individual author(s) and contributor(s) and not of MDPI and/or the editor(s). MDPI and/or the editor(s) disclaim responsibility for any injury to people or property resulting from any ideas, methods, instructions or products referred to in the content.