## **Dementia Caregiving Technology Survey (GPS Tracking)** Before beginning the main survey, we would like to ask you a few questions to ensure your eligibility to participate. Q: Are you taking care of a someone who has some type of cognitive impairment, such as mild cognitive impairment, Alzheimer's disease, Lewy Body disease, vascular dementia, etc.? We will refer to this person as the "care recipient". Yes (1) O No (3) Skip To: End of Block If Are you taking care of a someone who has some type of cognitive impairment, such as mild cogniti... = No Q: Are you the primary caregiver/care manager for the care recipient? O Yes (30) O No (31) Skip To: End of Block If Are you the primary caregiver for the care recipient? = No Q: Do you receive any kind of payment or financial consideration for being a caregiver/care manager to the care recipient? O Yes (5) O No (6)

Skip To: End of Block If Do you receive any kind of payment or financial consideration for being a

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Q: Does your care recipient live in a secure memory care unit or a nursing home?
○ Yes (1)
O No (2)
Skip To: End of Block If Does your care recipient live in a secure memory care unit or a nursing home? = Yes

Q1 Which of t all that apply.	he following characterizes the care recipient's current living arrangement? Select
	Lives alone (1)
	Lives with child or children (2)
	Lives with parent(s) (3)
	Lives with other relatives (4)
	Shares living quarters with friend or roommate (5)
	Lives with partner or boyfriend (6)
	Lives with husband or wife (7)
	Lives in group housing such as assisted living (8)
	Lives in a secure memory care unit (9)
	Lives in a nursing home (10)
	Homeless (11)
	Other (Please specify): (12)
End of Block	: Screening Questions
Start of Block	k: Section 1. Characteristics of you, the caregiver
Now, we woul manager.	d like to ask you some questions about characteristics of you, the caregiver/care

Q2 Please answer the following questions about yourself.
What is your year of birth?
Q3 What is the country of your birth?
Q4 What is your gender?
O Male (1)
○ Female (2)
O Non-binary (3)
Q5 What is your ethnicity?
○ White/Caucasian (1)
Hispanic, Latino, or Spanish origin (2)
O Black or African American (3)
O Asian (4)
O American Indian or Alaska Native (5)
Middle Eastern or North African (6)
Native Hawaiian or Other Pacific Islander (7)
O Some other race, ethnicity, or origin (8)

Q6 What is the highest level of education you have completed? O 5th grade (1) O 6th grade (2) 7th grade (3) O 8th grade (4) O 9th grade (5) 10th grade (6) ○ 11th grade (7) O High school graduate (8) O Technical/vocational school (9) O Some community college (10) O Community college graduate (11) O Some college (12) Ocollege graduate (13) O Some advanced graduate study (14) O Graduate degree (15)

Q7 Which of t	the following characterizes your current living arrangement? Select all that apply .
	Live with husband or wife (1)
	Live with my child or children (2)
	Live with my parent(s) (3)
	Live with other relatives (4)
	Share living quarters with friend or roommate (5)
	Live with partner or boyfriend (6)
	Live alone (7)
	Live in group housing such as assisted living (8)
	Live in a nursing home (9)
	Homeless (10)
	Other (please specify): (11)
Q8 Do you ha	ave children?
O Yes (	1)
○ No (2	)
Q9 If you hav	e children, what are the ages of your children?

Q10 Please tell us a little bit about your use of communication technology.					
Do you have a	any of the following devices? Select all that apply.				
	A desktop computer (1)				
	A laptop computer (2)				
	An e-Book reader, such as a Kindle (3)				
	An iPod or other portable music player (4)				
	A tablet computer like an iPad (5)				
	A basic cell phone (6)				
	A smartphone (7)				
	A webcam (8)				
	Any smarthome products like a Nest thermostate or other controller (12)				
	A smart speaker like Alexa or Echo (13)				
	And in-car GPS system for driving (9)				
	A Fitbit or other fitness tracker (10)				
	An Apple Watch or similar product (11)				

Q11 If you have Select all that	ve and use a smartphone, what are the features of your phone that you use? apply.
	Making phone calls (1)
	Receiving phone calls (2)
	Web browsing (3)
	Taking pictures or videos (4)
	GPS navigation and maps (5)
	Hands-free talking (6)
	Voice messaging (7)
	Sending a text message (8)
	Receiving a text message (9)
	Online shopping (10)
	Getting coupons or specials (11)
	Getting a ride, like Uber (12)
	Sending or receiving money (13)
	Getting news and information (14)
	Making video calls (Skype, FaceTime) (15)
	Playing games (Pokemon Go, Candy Crush, etc.) (16)

Participating in social media (17)
Keeping an eye on my house or apartment (34)
Reading books (18)
Accessing medical records (19)
Sending and receiving emails (20)
Looking up the weather (21)
Downloading and/or playing music (22)
Keeping a journal or diary (23)
Adjusting things in my house such as a thermostat or security system (35)
Making to-do lists (24)
Tracking health statistics (for example, step counts or weight) (25)
Streaming TV shows and movies (26)
Making videos and stories to share with others (27)
Looking up where things are located (28)
Finding out where my friends or family members are (29)
Doing work-related business, such as answering emails (30)

		Taking a voice memo (31)
i	information	Using camera for note-taking or taking a screenshot (taking pictures of n you need to remember) (32)
-		Other (please specify): (33)
		d like to ask you some questions about characteristics of the care recipient (the ke care of).
		er the following questions about the person for whom you are providing care (or imary caregiver or care manager).
Q12	2 What is h	nis/her year of birth?
Q13	3 What is t	he country of his/her birth?
Q14	What is h	nis/her gender?
	O Femal	e (1)
	O Male	(2)
	O Non-bi	inary (3)

Q15 Does	she/he hav	e children?					
○ Ye	s (1)						
O No	(2)						
Q16 If he/	she has chil	dren, what are	the ages of	f his/her child	dren?		
Now we w	ould like to	ask some ques	stions about	t your attitude	e towards te	echnological de	evices.
comings a NOT requ panic butt like a sma location w using such	ind goings a ire any oper on or answe rtwatch/pho ithout any in	r using a technorm of find them if ation or input from a telephone. The or other wear the car No if you are	they get los rom the care We are inte arable or ca are recipien	st? We are o e recipient, s erested in kno arried tracker	nly asking a such as requowing if you that can tra	about devices to uiring them to perfect the have used so ansmit the reci	hat DO oush a mething pient's
	nd of Block If . comings and.	Are you currentl <sub>.</sub> = Yes	y using a ted	chnological de	vice to keep	track of your ca	re
Q18 In the	e coming three	ee months, how pient's comings Moderately unlikely (2)	-	•		_	al device Very likely (7)
Your Rating (1)	0	0	0	0	0	0	0

the coming get lost"?	three month	ns to track m	ny care recipie	ent's coming	s and goings	and find the	m if they
	Strongly disagree (1)	disagree (2)	Somewhat disagree (3)	Neither agree nor disagree (4)	Somewhat agree (5)	Agree (6)	Strongly agree (7)

Q19 Do you agree or disagree with the statement that "I plan to use a technological device in

Your Rating (1)

| Continue | Con

Q20 Do you intend to use a technological device in the coming three months to track your care recipient's comings and goings and find them if they get lost?

	Very unlikely (1)	Moderately unlikely (2)	Slightly unlikely (3)	Neither likely nor unlikely (4)	Slightly likely (5)	Moderately likely (6)	Extremely likely (7)
Your Rating (1)	0	0	0	0	0	0	0

Q21 Please select the statement which best describes your family member's current ability or behavior. Use the following scale to respond to the items below:

	Never or unable (1)	Seldom (2)	Sometimes (3)	Usually (4)	Always (5)
He/she runs off (1)	0	0	0	0	0
While walking alone, he/she walks beyond intended destination (2)	0	0	0	0	0
He/she attempts to go outside (3)	$\circ$	$\circ$	0	$\circ$	0
He/she stands at the outdoor wanting to go out (4)	0	0	0	0	0
He/she attempts to find or go to familiar locations, even unrealistic ones (5)					0
He/she attempts to leave his/her own area (6)	$\circ$	0	$\circ$	0	0
He/she gets lost outside the house (7)	0	0	0	0	0
He/she enters private or unauthorized areas (8)	0	0	0	0	0

Q22 In the past week, on how many days did you personally have to deal with the following behavior of your care recipient?

	Never (1)	1-2 Days (2)	3-4 Days (3)	5 or More days (4)	Always (5)
Keep you up at night (1)	0	0	0	0	0
Repeat questions/stories (2)	0	0	0	$\circ$	$\circ$
Try to dress the wrong way (3)	0	$\circ$	$\circ$	$\circ$	$\circ$
Have a bowel or bladder "accident" (4)	0	0	0	$\circ$	$\circ$
Hide belongings and forget about them (5)	0	0	$\circ$	$\circ$	0
Cry easily (6)	0	$\circ$	$\circ$	0	$\circ$
Act depressed or downhearted (7)	0	0	0	0	0
Cling to you or follow you around (8)	0	0	0	0	0
Become restless or agitated (9)	0	$\circ$	$\circ$	$\circ$	$\circ$
Become irritable or angry (10)	0	$\circ$	$\circ$	$\circ$	0
Swear or use foul language (11)	0	$\circ$	$\circ$	$\circ$	$\circ$
Become suspicious, or believe someone is going to harm (him/her) (12)	0	0	0	0	0

Threaten people (13)	0	$\circ$	$\circ$	$\circ$	$\circ$
Show sexual behavior or interests at wrong time/place (14)	0	0	0	0	0
Now we would like safety.	to ask you some	questions abou	t care patterns	related to wande	ering or home
Q23 Are you at lea	ast somewhat con	cerned about yo	our care recipie	nt wandering or	getting lost?
O Yes (1)					
O No (2)					
Q24 Are you at lea		<del>-</del>	our care recipie	nt getting into tro	ouble if left
O Yes (1)					
O No (2)					
Q25 What kind of coming and going etc.)? You may list	s or to find them if	they get lost (e		<del>-</del>	

Q26 For this technological device that you are using to keep track of your care recipient's comings and goings or to find them if they get lost, please indicate how you feel about the items below. If you are using more than one device, think about the one you most rely on.

	Strongly disagree (1)	Disagree (2)	Somewhat disagree (3)	Neither agree nor disagree (4)	Somewhat agree (5)	Agree (6)	Strongly agree (7)
This device enables me to accomplish caregiving tasks more quickly. (1)	0	0	0	0	0	0	0
This device has improved my quality of caregiving work. (2)	0	0	0	0	0	0	0
This device makes it easier to do my caregiving job. (3)	0	$\circ$	0	$\circ$	0	$\circ$	$\circ$
This device has improved my caregiving productivity/efficiency.  (4)	0	0	0	0	0	0	0
This device gives me greater control over my caregiving job. (5)	0	$\circ$	0	$\circ$	$\circ$	$\circ$	$\circ$
This device enhances my effectiveness on the caregiving job. (6)	0	0	0	0	0	0	0

Q27 For this technological device that you are using to keep track of your care recipient's comings and goings, or to find them if they get lost, please indicate how you feel about the items below. If you are using more than one device, think about the one you most rely on.

·	Strongly disagree (1)	Disagree (2)	Somewhat disagree (3)	Neither agree nor disagree (4)	Somewhat agree (5)	Agree (6)	Strongly agree (7)
My interaction with the device has been clear and understandable.	0	0	0	0	0	0	0
Overall, this device is easy to use. (2)	0	$\circ$	$\circ$	$\circ$	$\circ$	0	0
Learning to operate this device was easy for me. (3)	0	0	0	0	0	0	0
I rarely become confused when I use this device. (4)	0	0	0	0	0	0	0
I rarely make errors when using this device. (5)	0	0	0	0	0	0	$\circ$
I am rarely frustrated when using this device. (6)	0	0	0	0	0	0	0

Q28 For this technological device that you are using to keep track of your care recipient's comings and goings or to find them if they get lost, please indicate how you feel about the items below. If you are using more than one device, think about the one you most rely on.

	Strongly disagree (1)	Disagree (2)	Somewhat disagree (3)	Neither agree nor disagree (4)	Somewhat agree (5)	Agree (6)	Strongly agree (7)
I'm confident in using a tracking device to track my care recipient. (1)	0	0	0	0	0	0	0
I feel comfortable using such a device on my own. (2)	0	0	0	0	0	0	0
If I want to, I can easily operate such a device on my own. (3)	0	0	0	0	0	0	0
I can use such a device even if no one is around to help me. (4)	0	0	0	0	0	0	0

Q29 For this technological device that you are using to keep track of your care recipient's comings and goings or to find them if they get lost, please indicate how you feel about the items below. If you are using more than one device, think about the one you most rely on.

	Strongly disagree (1)	Disagree (2)	Somewhat disagree (3)	Neither agree nor disagree (4)	Somewhat agree (5)	Agree (6)	Strongly agree (7)
Most people who are important to me think that I should use technological devices to track my care recipient. (1)	0	0	0	0		0	0
Most people whose opinions I value would approve of my using technological devices to track my care recipient. (2)	0	0	0	0		0	
Most people I respect and admire will use technological devices to track their care recipient. (3)	0	0	0	0	0	0	0
Most people like me will use technological devices to track their care recipient. (4)	0	0	0	0		0	0

Q30 For you, using a technological device to track your care recipient or find them if they get lost is										
	1 (1)	2 (2)	3 (3)	4 (4)	5 (5)	6 (6)	7 (7)			
Bad	$\circ$	0	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	Good		
Pleasant	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	0	$\circ$	Unpleasant		
Harmful	0	0	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	Beneficial		
Desirable	0	0	0	$\circ$	0	0	0	Undesirable		
Q31 I do no keep track (select any only interes input from t	of my care reasons the	recipient's nat explain reasons w	s comings why you	and going do not curr	s or find the	em if they such a dev	get lost be ice). Agair	ecause		
	I respe	ect the care	e recipient	's privacy	(1)					
	l don't	want to "s	py" on my	care recip	ient (2)					
	l respe	ect the care	e recipient	's autonom	ny (3)					
	The ca	re recipier	nt can't rea	ally give his	s/her cons	ent to use	this techno	ology (4)		
	I think	that these	devices d	o not work	very well	(5)				
	l don't	think my c	care recipie	ent would a	agree to we	ear or carry	y one of th	ese (6)		
	l would	d be worrie	ed that the	battery wo	ould run ou	t (7)				
	l would	d be worrie	ed that the	device wo	uld not be	accurate	(8)			

	I don't th	ink I could	learn how to	o use a devic	e like this	(9)		I don't think I could learn how to use a device like this (9)										
	I don't have anyone to help me set it up (10)																	
	I think new technologies like this are quite pricey (11)																	
	New technologies like this that are available today are too expensive (12)																	
	I consider adopting a new technology like this to be a big-ticket item. (13)																	
	I am sati	sfied with t	he methods	l already use	e (14)													
	My care	recipient w	ould not ag	ree to use su	ch a device	e (15)												
	I am not concerned that my care recipient will wander away or become lost (16)																	
	I am not	concerned	that my car	re recipient w	ill wander a	away or beco	me lost (	16)										
Q32 Please inc device to keep	dicate for	the items I	below what	you think it m	night be like	e to use a tecl	nnologica	ıl										
Q32 Please incomplete device to keep  I think that sure device would end to accomplete device device accomplete device device accomplete device device accom	dicate for track of uch a enable aplish as more	the items I your care re Strongly disagree	below what ecipient's co Disagree	you think it momings and g Somewhat disagree	night be like joings or to Neither agree nor	e to use a tecl find them if the Somewhat	nnologica ney get lo Agree	ost. Strongly agree										
Q32 Please incodevice to keep  I think that so device would eme to accomm	uch a enable nplish as more 1) device re my egiving	the items I your care re Strongly disagree	below what ecipient's co Disagree	you think it momings and g Somewhat disagree	night be like poings or to Neither agree nor disagree	e to use a tecl find them if the Somewhat	nnologica ney get lo Agree	ost. Strongly agree										

I think such a device would improve my caregiving productivity/efficiency. (4)	0	0	0	0	0	0	0
I think such a device would give me greater control over my caregiving job. (5)	0	0	0	0	0	0	0
I think such a device would enhance my effectiveness on the caregiving job. (6)	0	0	0	0	0	0	0
I believe my interaction with such a device would be clear and understandable. (7)	0	0	0	0	0	0	0
I believe such a device would be easy to use in general. (8)	0	0	0	0	0	0	0
I believe learning to operate such a device would be easy for me. (9)	0	0	0	0	$\circ$	0	0
I believe I would rarely become confused when I used such a device. (10)	$\circ$	0	$\circ$	$\circ$	0	0	0
I believe I would rarely make errors when using such a device. (11)	$\circ$	0	0	0	$\circ$	0	0
I believe I would rarely be frustrated when using such a device. (12)	0	0	$\circ$	$\circ$	0	0	0

Q33 Please respond to the following items about using technological devices to keep track of your care recipient's comings and goings and find them if they get lost.

your care recip		ngo ana gon	igo ana ima t	Neither	901 1031.		
	Strongly disagree (1)	Disagree (2)	Somewhat disagree (3)	agree nor disagree (4)	Somewhat agree (5)	Agree (6)	Strongly agree (7)
Most people who are important to me think that I should use technological devices to keep track of my care recipient's comings and goings and find them if they get lost (1)							
Most people whose opinions I value would approve of my using technological devices to keep track of my care recipient's comings and goings and find them if they get lost (2)							
Most people I respect and admire would use technological devices to keep track of their care recipient's comings and	0	0	0	0		0	

goings and find them if they get lost (3)				
Most people like me would use technological devices to keep track of their care recipient's comings and goings and find them if they get lost (4)	0			0

Q34 For you, using technological devices to keep track of your care recipients comings and goings and find them if they get lost is:

	1 (1)	2 (2)	3 (3)	4 (4)	5 (5)	6 (6)	7 (7)	
Bad	$\circ$	$\circ$	$\circ$	0	$\circ$	$\circ$	$\circ$	Good
Pleasant	$\circ$	$\circ$	$\circ$	0	$\circ$	$\circ$	$\circ$	Unpleasant
Harmful	$\circ$	$\circ$	$\circ$	0	$\circ$	$\circ$	$\circ$	Beneficial
Desirable	0	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	Undesirable

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