# Framework Analysis

## **Chart View of Data Matrix for Theme 1**

Theme 1: Responses to Nature Scenes ('in the moment' and interview data)

Participants	1.1. Engagement	1.2 Descriptions	1.3 Features particularly	1.4 Familiarity of	1.5 Triggered
_	during VR		liked	scenes	memories
01-C	Described it as	Commented on the	I've enjoyed looking at them.	N/D	N/D
Gender:	'lovely', wondered if	lovely colours.	They're lovely pictures and		
Woman	it was Porthcurno		that. All the colours are		
(husband with	beach. Noted that		beautiful.		
memory loss)	children were on the				
	beach playing and				
	liked the cliffs and the				
	sea. Recognised				
	Minack Theatre.				
02-C	Commented on the	N/D	Highlighted the scenery. <i>I</i>	N/D	N/D
Gender:	sea, 'incredible sand'.		just adore the scenery. I came		
Woman	That was why she		back from Canada for the		
(husband with	came back to		English countryside. We		
memory loss)	Cornwall. Wished		were living in Toronto and		
	that she could		had no sea. People saw the		
	recognise the beaches.		lakes and thought that was		
	Makes it look so good		the sea so I missed it. I'm an		
	that she wanted to go		island person. The difference		
	into the sea.		is enormous, you just don't		
	Recognised Minack		realise. So yes, the sea.		
	Theatre. Described it				
	as 'absolutely				
	amazing'.				

Participants	1.1. Engagement	1.2 Descriptions	1.3 Features particularly	1.4 Familiarity of	1.5 Triggered
	during VR		liked	scenes	memories
	Wow. It's incredible				
	how you can see all				
	around.				
03-C (same	Noted that it looked	N/D	Loved the views.	N/D	Used to be
person as 02-C)	like the Cornish coast.				mountaineer – went
& 03-ML	Felt that he should				climbing in Scotland
Gender:	recognise it but				and Switzerland.
Woman and	couldn't say where it				Thought he had
Man	was. Said he was				walked on the Cornish
	going underwater but				coast.
	didn't know the				
	names of the fishes.				
	Back on shore he				
	noted that there was				
	good climbing – he				
	used to be a				
	mountaineer - and				
	wondered if it was the				
	Mediterranean.				
04-V	Noted that she had	N/D	N/D	N/D	N/D
Gender:	forgotten how good				
Woman	the beach was at				
	Porthcurno. Found				
	the aquarium very				
	entertaining and the				
	technology				
	'remarkable'.				

Participants	1.1. Engagement	1.2 Descriptions	1.3 Features particularly	1.4 Familiarity of	1.5 Triggered
	during VR		liked	scenes	memories
	Recognised Minack Theatre.				
OF MI		C : 1:1	11/ 1 1 1 1	N/D	NUD
05-ML	Described the headset	Said it was very good.	It's nice to look through	N/D	N/D
Gender:	as 'a bit funny'.		'cause it's got different		
Woman	Described it as		plapictures,		
	'pretty' and liked the		scenerythat's what I like		
	colours. Thought that		about that thing, I like the		
	the beach was like		scenery areas. I don't like		
	Polzeath, described		built up areas, I like scenery,		
	the busy beach and		beaches an' that 'cause you		
	seemed to like that.		got fresh air an' that lot, and		
	Then she had enough		when it's hot it's lovelyyou		
	– 1.5 mins of video.		can sit outside and look out		
			at people [inaudible]that's		
			what I like.		
06-V	Described it as	Said it was very	N/D	N/D	N/D
Gender:	wonderful, lovely	relaxing.			
Woman	beach – asked which				
	beach it was.				
	Commented on the				
	wonders to be found				
	underwater – 'hidden				
	treasures'. Wondered				
	how you could get				
	down to the beach.				
	Recognised Minack				
	Theatre.				

Participants	1.1. Engagement during VR	1.2 Descriptions	1.3 Features particularly liked	1.4 Familiarity of scenes	1.5 Triggered memories
07-C & 07-ML Gender: Woman (daughter with mother)	Daughter encouraged mother – she removed the headset after 40 secs. And then saw a little bit at the end – Minack Theatre.	Daughter thought her Mum had liked the beach part.	Thought the pictures were very good and clear.	I think somewhere even if you haven't been, you can see, look out, maybe somewhere you've never been before and you can see, 'oh that's what it's like'. Because I've never been to the Minack Theatre. So yeah it was quite interesting (07-C)	N/D
08-C & 08-ML Gender: Woman (husband with memory loss)	He removed the headset a couple of times – after the sea at the beginning; saw the fish and then removed the headset – ended at that point. Possibly only saw snippets	Said it was 'beautiful' and 'lovely'	The beach and the water coming in and the fish, was lovely (08-ML)	N/D	N/D
09-V Gender: Man	No commentary during the VR experience.	Used words like 'beautiful' and 'very nice'. Found it relaxing.	Particularly liked the underwater scenes and fishes - he likes visiting aquariums and finds it relaxing.	N/D	N/D

Participants	1.1. Engagement	1.2 Descriptions	1.3 Features particularly	1.4 Familiarity of	1.5 Triggered
10.000.000	during VR	D.I. i	liked	scenes	memories
10-C & 10-ML	I'm on the beach.	Relaxing – may refer	Particularly liked the	N/D	Used to go to the
Gender:	Haven't been on the	specifically to the	fishes (his wife added that		seaside on holidays
Woman	beach in ages! Ooh, it's	sunset. Later on in	he likes nature		every year. Beautiful
(husband with	lovely. Which beach is	interview he said he	documentaries)		beaches in Devon. Used
memory loss)	it, maid?Oh now I'm	found it 'calming'.			to drive up with the
	under the sea! Look at				children, everyone in the
	all these fishes. It's good				car, buckets and spades,
	innit? Wow!and now				the lot! Teignmouth
	there's someone comin'				usually. Sometimes
	in on a boat. Hello!				Dawlish. (10-C)
	Ahhh. The waves are				
	lovely. (10-ML)				
11-C	Nice beach, wondered	Described it as lovely.	N/D	N/D	N/D
Gender: Man	where it was. Wanted				
	to know where the				
	underwater footage				
	was from. Recognised				
	Minack Theatre.				
12-ML	Enquired which beach	Described it as 'pretty	Sea was beautiful, she	N/D	N/D
Gender:	it was. Found it	amazing' and	liked water, found the		
Woman	strange, described the	'soothing'.	colours beautiful, liked		
	figures as having red		watching fish.		
	edges. Saw a huge				
	figure come out of the				
	sea. Described the fish				
	as beautiful. Didn't				
	like it when she found				

Participants	1.1. Engagement	1.2 Descriptions	1.3 Features particularly	1.4 Familiarity of	1.5 Triggered
	during VR		liked	scenes	memories
	herself sitting on a				
	rock.				
13-ML	Oh, now I'm in the sea	She said it made her	Liked the beach the best.	Recognised the	spent many a summer
Gender:	with the fish! Back on	feel nice - Tis calming	Loves the coast because	Minack Theatre, had	holiday in Crantock. My
Woman	the beach. Who's that	isn't it, seeing the	she grew up in Crantock,	gone there a long time	Mother was still there,
	over there?	waves?	near Newquay. Did not go	ago.	see. And we took the kids,
			there much -	13-ML: Oh I recognise	and then the grandkids
			Occasionally my daughter	this. Is it the erthe?	when they come along
			takes me up to Crackington.	R: Is it the Minack?	She said she missed the
			But not often. They got lives,	13-ML: Minack Theatre	coast terribly – <i>it's part</i>
			you know	that's it! I went once, oh,	of me
				long time ago.	
14-V	It feels weird going all	N/D	N/D	N/D	N/D
Gender:	'round! Oh I've got				
Woman	some fish				
15-V	Asked which beach it	N/D	Loved the fish – <i>I admire</i>	N/D	Brings memories back,
Gender:	was and thought it		all those people that can		going to the seaside.
Woman	was 'lovely' to see		swim underwater and see all		She had not been to the
	under the sea.		the things. (She had never		beach for years; she
			learned to swim)		walks along the cliff
			,		but not the beach.

16-C & 16-ML	Carer described it as	N/D	we like that coral one.	He seemed to be quite	He said that he had
Gender:	'beautiful', 'lovely		Where you're under the sea.	excited to have seen	seen the corals when in
Woman	colours'. She enjoyed		Because we watch those	the Minack Theatre	Egypt. He had been in
(husband with	it and informed her		programmes anyhow (16-C)	(had never visited it)	the British Army as a
memory loss)	husband what was			and when asked	Rifleman in the 1950s
	happening.			which parts he liked,	doing his National
	Oh that's under the sea,			he responded Minack	Service - had gone
	oh that's looking, oh			Theatre.	down the Gulf of Suez
	that's beautiful!				to the rest camp and
	Absolutely! Oh we like				had swam in the sea –
	these sort of things.				lots of little fishes and
	[husband's name],				coral to be seen.
	you'll enjoy this one.				
	The coral, yeah, it's				
	lovely [husband's				
	name]. You'll enjoy				
	that. Yeah, all the lovely				
	colours. Yeah, the fish				
	are in there. It's lovely.				
	So long as I don't see a				
	shark, I shall be alright.				
	[laughs]				
	The water coming up on				
	me feet. (16-ML)				
	Recognised the				
	Minack Theatre. Took				
	the headset off but				
	was encouraged to				
	keep it on.				

Participants	1.1. Engagement during VR	1.2 Descriptions	1.3 Features particularly liked	1.4 Familiarity of scenes	1.5 Triggered memories
17-C & 17-ML Gender: Woman (mother with memory loss)	The woman with dementia thought she knew where the beach was but she hadn't been thinking about Porthcurno. Commented on the loads of fish.	N/D	I mean it makes you feel, good in a way, you know, just as you can see it, and um, you don't see anything else, just all those fishes, the massive fish.	Liked familiar places but said would like new places as well.	N/D
18-V Gender: Woman	I feel I want to go for a swim. Oh that's the Minack isn't it?	Said it was lovelyit was lovely 'cause it gives you, I don't know, a sense of freedom, yes And certainly when it was just the sea, the empty sea, I'd just like to go and have a nice swim.	N/D	N/D	Because when you look at the beach you think of when you were there with your own family on the beach and doing different things and then you start thinking where you used to go and things like that, yeahcause when the children were younger we used to take a boat and go down to Christchurch and that. So you'd start talking about that, like 'remember when' And my husband was a lifeguard so you could go back to that.

Participants	1.1. Engagement	1.2 Descriptions	1.3 Features particularly	1.4 Familiarity of	1.5 Triggered
	during VR		liked	scenes	memories
19-ML	Enquired as to which	Said it was really nice.	it made me feel good	N/D	N/D
Gender:	beach it was and	it made me feel good	actually. It was, I don't		
Woman	noted she had	actually. It was, I don't	know, it was, it was really		
	difficulty in accessing	know, it was, it was	like 'oh wow, look', but		
	beaches. Had a	really like 'oh wow,	you know, 'cause it was just		
	problem with her	look', but you know,	really nice pictures and		
	glasses.	'cause it was just really	everything, to look around		
		nice pictures and	and look at the like it's not		
		everything, to look	just a picture, if you wanna		
		around and look at the	look up on the cliff, you can		
		like it's not just a	look up; if you wanna look		
		picture, if you wanna	down, you can look down. I		
		look up on the cliff, you	think the whole experience is		
		can look up; if you	really good, very good		
		wanna look down, you	indeed.		
		can look down. I think			
		the whole experience is			
		really good, very good			
		indeed.			

# Theme 2: Responses to VR Experience

Participants	2.1 Immersion (presence)	2.2 Opportunity to 'go somewhere'	2.3 Opportunity to see and 'interact' with people	2.4 'Strange and scary'
01-C	N/D	N/D	N/D	N/D
Gender:				
Woman				
(husband with				
memory loss)				
02-C	N/D	N/D	N/D	N/D
Gender:				
Woman				
(husband with				
memory loss)				
03-C (same	N/D	N/D	N/D	N/D
person as 02-C)				
& 03-ML				
Gender:				
Woman and				
Man				
04-V	It's quite an amazing sort of	N/D	N/D	N/D
Gender:	thing. It's almost like an			
Woman	experience without the			
	smells [laughs].			
05-ML	N/D	N/D	N/D	N/D
Gender:				
Woman				
06-V	N/D	N/D	N/D	N/D

Participants	2.1 Immersion (presence)	2.2 Opportunity to 'go somewhere'	2.3 Opportunity to see and 'interact' with people	2.4 'Strange and scary'
Gender:			•	
Woman				
07-C & 07-ML	N/D	N/D	N/D	Underwater scenes might
Gender:				have been confusing for
Woman				the PwD.
(daughter with				
mother)				
08-C & 08-ML	N/D	N/D	N/D	N/D
Gender:				
Woman				
(husband with				
memory loss)				
09-V	He said that he felt as if he	N/D	N/D	N/D
Gender: Man	were there I was closing			
	me ears off to that [the			
	background noise].			
	Concentrating on the			
	panoramic views.			
10-C & 10-ML	N/D	N/D	N/D	N/D
Gender:				
Woman				
(husband with				
memory loss)				
11-C	I mean you watch the	N/D	N/D	N/D
Gender: Man	television, and er, you see it			
	on a screen in front of you,			
	but you also see the			
	surrounds, of the, things in			

Participants	2.1 Immersion (presence)	2.2 Opportunity to 'go somewhere'	2.3 Opportunity to see and 'interact' with people	2.4 'Strange and scary'
	the room. But, no, with that, virtually, you're in it, aren't you? It's fantastic.			
12-ML Gender: Woman	N/D	N/D	N/D	Yeah it was pretty amazing really. Except where I was perched on a cliff at the end. That took me by surprise when I looked down. Cause I would definitely not get into that position in normal life [laughs].  Said that she had a fear of heights and described how when on a hill in Scotland with a drop on each side she had to sit down and cling to the hillside.
13-ML Gender: Woman	N/D	N/D	N/D	N/D
14-V Gender: Woman	N/D	N/D	N/D	N/D
15-V Gender: Woman	It makes you feel as if you're at the sea, right at the sea, doesn't it?	N/D	N/D	N/D

Participants	2.1 Immersion (presence)	2.2 Opportunity to 'go somewhere'	2.3 Opportunity to see and 'interact' with people	2.4 'Strange and scary'
	it makes you feel that you are there [emphasis] on the sand, with the sea rolling in			
16-C & 16-ML Gender: Woman (husband with memory loss)	N/D	N/D	N/D	N/D
17-C & 17-ML Gender: Woman (mother with memory loss)	N/D	N/D	N/D	N/D
18-V Gender: Woman	it was just like being thereand I've got a beautiful view where I live, so I can look out, but I'm looking through a window whereas that [the VR], you're there, which is the difference, yeah.	N/D	I liked seeing the people on the beach and I liked to, playing the Frisbee thing, you know the one on the beach and he was standing there and I thought, 'well is he gonna talk to me?!' you know [laughs] and I saw the chap in the water catching it and it was just nice to be 'in' there, especially when the surfer came down by your side and went down, it was just like being there.	N/D
19-ML	N/D	most places in Cornwall are very cliffy. There's only a few	N/D	N/D

Participants	2.1 Immersion (presence)	2.2 Opportunity to 'go	2.3 Opportunity to see and	2.4 'Strange and scary'
		somewhere'	'interact' with people	
Gender:		places you can actually get to.		
Woman		So yeah, I think that [the VR]		
		is lovely, and it's really nice		
		yeah.		
		the going under the sea. And		
		just being able to look around		
		like you're walking somewhere		
		– like you're going somewhere.		
		It looks, it's really good, yeah.		

# Theme 3: Responses to VR Equipment

Participants	3.1 Heaviness of	3.2 Difficulties with	3.3 Difficulties with	3.4 Confidence in	3.5 Use of technology
	equipment	body movement	focus and glasses	using the equipment	in daily life
01-C	N/D	N/D	N/D	N/D	Has a mobile and a
Gender:					tablet – good for
Woman					information. Not on
(husband with					Facebook etc.
memory loss)					
02-C	N/D	only problem was I	N/D	N/D	N/D
Gender:		wanted to be able to go			
Woman		round 180 degrees and I			
(husband with		couldn't. I think a			
memory loss)		wheelie chair would be a			
		terrific advantage because			
		I think a lot of people			
		aren't as mobile as I am,			
		you know.			

Participants	3.1 Heaviness of	3.2 Difficulties with	3.3 Difficulties with	3.4 Confidence in	3.5 Use of technology
	equipment	body movement	focus and glasses	using the equipment	in daily life
03-C (same person as 02-C) & 03-ML Gender: Woman and Man	N/D	N/D	N/D	Seemed to be, I mean you put it on and took it off. Will you always be there to put it on and take it off? (03-ML)  His wife observed that he would not able to use the equipment himself and would need help to do whatever was necessary.	He checked with his wife on what technology he used. He said that he had telecommunications degree and should be using technology but didn't. You used to use all these things but you don't get along with it any more. I'm the one with the computer now. And mobile phone. You don't telephone out. You barely turn on the telly unless I do it and find the channel [both laugh]. (03-C)
04-V Gender: Woman	N/D	N/D	N/D	N/D	N/D
05-ML Gender: Woman	Found the headset 'a bit heavy'	N/D	N/D	Oh I would need someone to do it, yeah. I couldn't do that sort of thing. That's the first time I've done that, yeah.	N/D

06-V	N/D	N/D	N/D	N/D	Had a mobile phone
Gender:					and used a computer.
Woman					Yeah well I've had to
					learn because it's not
					something that came
					easily or obvious. I went
					to classes to learn about
					computers. But I think
					thatwell quite a long
					time agoabout 15, 17
					years ago, because I was
					volunteering with the
					Alzheimer's society and
					they said that I had to
					be, you know, techno,
					and I wasn't, so I got on
					with it 'cause they
					supplied me, in the
					beginning, with a
					computer you see, and I
					had to do everything
					through it. But I've
					learned a lot more since,
					you see, because you
					learn as you go along,
					how to attach things
					and how to do
					spreadsheets andyou
					just learn it, don't
					you?

Participants	3.1 Heaviness of equipment	3.2 Difficulties with body movement	3.3 Difficulties with focus and glasses	3.4 Confidence in using the equipment	3.5 Use of technology in daily life
07-C & 07-ML Gender: Woman (daughter with mother)	Though the headset was 'a big intrusive thing to put on your face.' (07-C) Felt that there was a need for something more comfortable and user friendly.	N/D	N/D	N/D	N/D
08-C & 08-ML Gender: Woman (husband with memory loss)	N/D	N/D	N/D	N/D	Did not use technology such as mobile phone and computer. <i>Too old in the tooth for that</i> . (08-ML). 08-C describes them as 'oldfashioned'.
09-V Gender: Man	N/D	N/D	N/D	N/D	He said he was not computer literate but had a phone.
10-C & 10-ML Gender: Woman (husband with memory loss)	N/D	N/D	N/D	N/D	N/D

Participants	3.1 Heaviness of	3.2 Difficulties with	3.3 Difficulties with	3.4 Confidence in	3.5 Use of technology
	equipment	body movement	focus and glasses	using the equipment	in daily life
11-C	Thought the	N/D	Said it was blurry.	N/D	Had a mobile phone
Gender: Man	headset was a little		perhaps I should have		and ipad but didn't
	heavy and would		had it with me glasses on		consider himself to be
	be improved if		because it would have been		an 'expert'. But can
	lighter.		a bit more focussed but		usually find out what
	But I think if you				he wants some way
	were to watch it for,				or other.
	if you watched a film				
	on it for half an hour,				
	or an hour, it would				
	become a bit heavy				
	then.				
12-ML	I could see that it	N/D	Described a strange	She thought that she	N/D
Gender:	could make you feel a		light – 'edges on the	would be able to	
Woman	bit queasy if you		figures and things'.	operate it.	
	stayed in it for a long		Ooh, a huge figure came		
	time. I think if it, it's		out of the sea then. Yeah		
	made smaller and		they've got red edges		
	more comfortable,		around the figures.		
	then it would be		People had looked 'not		
	beneficial. I think at		quite real' and were a		
	the moment, it would		'bit too brightly		
	get quite heavy after		coloured'.		
	a while, and I think it				
	probably would make				
	you feel a bit funny.				

Participants	3.1 Heaviness of	3.2 Difficulties with	3.3 Difficulties with	3.4 Confidence in	3.5 Use of technology
	equipment	body movement	focus and glasses	using the equipment	in daily life
13-ML	Headset was fine	N/D	N/D	but I'd need someone	Technology did not
Gender:	for the short time			to set it all up, see. I'm no	feature in her
Woman	but felt that it			good with all that	everyday life. Her
	might become			[laughs].	daughter had bought
	heavy if it was on				her a mobile phone
	for a longer time.				and it was still in the
					box. I got me landline,
					SO.
14-V	N/D	N/D	She said that she had	She did not think that	N/D
Gender:			quite a job focussing on a	it would be too	
Woman			lot of that. She felt that	difficult as although,	
			her experience was	she did not describe	
			spoiled because she	herself as 'high tech',	
			could not see some of	she did not feel she	
			the detail.	was illiterate.	
			It was clearer when I went		
			into theum, under the		
			sea, and the night scene,		
			and the sunset, that was		
			all ok. It was all the beach		
			and the, mostly the people,		
			you know, and there were		
			some orange flowers, and I		
			couldn't work out what		
			they were. I knew they		
			were flowers, but I was, I		
			would kind of like to know		
			what kind of flowers they		

Participants	3.1 Heaviness of	3.2 Difficulties with	3.3 Difficulties with	3.4 Confidence in	3.5 Use of technology
	equipment	body movement	focus and glasses	using the equipment	in daily life
			were and I couldn't. They		
			were just kind of, blobs of		
			orange.		
15-V	N/D	N/D	N/D	N/D	She had an iphone
Gender:					and a computer but
Woman					felt that I'm not very
					good at grasping new
					things. Um, and that's
					because I think I close
					my mind to it, um
					really. If I need, I get
					around it, you see. if I
					want to do something
					and I don't know how to
					do it, I will get round it
					by doing things my
					way, to get the end
					result I want, which is
					not a good idea.
16-C & 16-ML	N/D	N/D	N/D	N/D	They do not have a
Gender:					computer. She
Woman					occasionally uses her
(husband with					mobile phone.
memory loss)					We're not interested. It
					isn't our era if you
					know what I mean, so
					you know. (Carer)

Participants	3.1 Heaviness of	3.2 Difficulties with	3.3 Difficulties with	3.4 Confidence in	3.5 Use of technology
	equipment	body movement	focus and glasses	using the equipment	in daily life
17-C & 17-ML Gender: Woman (mother with memory loss)	N/D	N/D	N/D	N/D	She said she didn't like technology too much and carer said she used the computer sometimes.
18-V Gender: Woman	N/D	N/D	Said that it not seem to be in focus, 'just a little bit blurred'. After adjustments it wasn't so bright so she decided to remove her glasses. Said it wasn't exactly in focus. Thought she should have worn her distance glasses, would have helped with the sharpness.	N/D	She had a computer and mobile phone.
19-ML Gender: Woman	Not painful but a 'little heavy'. She thought that because of the heaviness at the front, that there needed to be a strap sat the front so that the headset fitted properly.	N/D	Thought it should have been clearer. 'It's a bit um, pixely.' She wasn't sure whether to put the headset on top of her glasses or use her reading glasses.	She felt quite confident that she could use the VR equipmentI think I would be. It's just pressing a couple of buttons.	N/D

# Theme 4: Volunteer Staff and carers' perceptions of VR for PwD and in long term care settings

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
01-C Gender: Woman (husband with memory loss)	N/D	N/D	N/D	N/D	N/D	N/D	Thought it would be a good idea for PwD and that her husband could be interested.
02-C Gender: Woman (husband with memory loss)	N/D	N/D	N/D	N/D	N/D	N/D	Thought it would be totally 'lost' on husband and that he would be confused. Would not remember it two minutes after it was over.
03-C (same person as 02-C) & 03-ML Gender: Woman and Man	N/D	N/D	N/D	N/D	N/D	N/D	N/D

04-V	N/D	N/D	N/D	N/D	Thought it	N/D	If the scenes were
Gender:					could be		local to the area
Woman					confusing		they could trigger
					for some people		memories. Local
					they would find it		events like Flora
					a bit confusing,		Day in Helston or
					you know, and		the Royal
					think: 'what on		Cornwall Show.
					earth's going on		Eden project is
					herethis is a bit		quite iconic, might
					weird'. Um and		have seen on TV,
					especially those		even if they hadn't
					who, you know,		visited it.
					their memory loss		Believes that
					is so great that		familiarity help
					they don't		PwD feel safe.
					remember one		
					minute to the		
					next		
					minutethat		
					contradict		
					themselves all the		
					time you know, so		
					you ask them if		
					they enjoy it one		
					minute and		
					they'd go 'yes',		
					and then you ask		
					them again and		
					they'd go 'what?',		

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
					you know? [laughs] and you know, they can't even remember what they looksaw. But, I think, just, experiencing it, it would be something different.		
05-ML Gender: Woman	Thought it could be good for those who couldn't be outdoors but you gotta have fresh air as well aint you as well?	N/D	N/D	N/D	N/D	N/D	N/D
06-V Gender: Woman	N/D	N/D	N/D	Felt that when people would 'see the beach' they would be uplifted. Could distract a PwD	N/D	Felt that she could operate the VR equipment but was less sure about some of the carers.	N/D

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
				if s/he was having a 'bad day' and improve mood.			
07-C & 07-ML Gender: Woman (daughter with mother)	Thought it could be useful Sort of make them feel like they've got out of the four walls for, you know, even if it's ten minutes or something.	N/D	N/D	N/D	N/D	N/D	Doesn't think that the nature scenes need to be of familiar places I think somewhere even if you haven't been, you can see, look out, maybe somewhere you've never been before and you can see, 'oh that's what it's like'. Because I've never been to the Minack Theatre. (07-C)
08-C & 08-ML Gender: Woman (husband with memory loss)	N/D	N/D	N/D	N/D	N/D	N/D	N/D
09-V Gender: Man	N/D	Thought it would be a	Good for memories.	N/D	N/D	N/D	N/D

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
		good idea could be stimulating.					
10-C & 10-ML Gender: Woman (husband with memory loss)	N/D	N/D	Potential to trigger memories (if it could be personalised) (10-C).	Would be calming (10-ML). Help improve mood for people who were having a bad day and couldn't get out (10-C).	N/D	N/D	N/D
11-C Gender: Man	Thought that if he couldn't go outdoors at some stage in the future it would be great'Cause it brings the outside back right into you, yeah.	N/D	N/D	N/D	N/D	N/D	N/D
12-ML	N/D	N/D	N/D	N/D	N/D	N/D	N/D

Participants	4.1 Alternative	4.2 Relieving	4.3 Trigger	4.4 Improve	4. 5 Potentially	4.6 Inability to	4.7 General
	means to	boredom	memories	mood and	confusing	cope with VR	comments
	accessing			calming		equipment	
	nature						
Gender:							
Woman							

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
13-ML	Oh yeah, I think	N/D	N/D	N/D	Spoke about her	N/D	N/D
Gender:					sister and how		
Gender: Woman	it could be very useful.  Especially in homes, you know. 'Cause I'm still in my own place, well assisted livin' 'tis. 'Cause I can still get about at the moment, see.  But I know I might have to go in a home at some point. And they can't alwaysmy sister is in [home name] in [town], and she				sister and how her dementia was more advanced than hers. She felt her sister could be confused and agitated by VR.		
	don't get out all that much, I don't think.						

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
14-V	Thought it	N/D	Felt that	N/D	N/D	Thought that	VR could be an
Gender:	would be very		someone in			PwD might find	opportunity for
Woman	important for		the early			it hard to cope	PwD to see
	those who		stages of			with the headset	something
	could not		dementia			('quite heavy on	different.
	access the		could look at			your face') and	maybe to be taken
	outdoors.		it and			would not	out of that world
			recognise			understand what	like going under the
			places.			'you were trying	sea, that was really
			at the early			to do for them'.	lovely. And that
			stages of			Thought that it	would mean
			dementia and			might depend on	something to me,
			you couldn't			the degree of	because I used to
			get out or			agitation the	scuba dive, so that
			something,			PwD	would be fantastic
			you'd sort of,			experienced.	seeing that, but it's
			watch it and			Wondered if	also something that
			think 'oh I			PwD could cope	gives people an
			know there'			with moving	opportunity to see
			and 'I've been			around or if they	something that they
			there', and I			would think they	wouldn't see.
			think that			had to look	
			would sort of,			forward.	Thought that PwD
			open up a lot				would benefit
			of memories				from having a
			for people.				carer helping to

Participants	4.1 Alternative means to accessing	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
	nature		Thought the local aspect was very important for triggering memories				facilitate the VR sessionto have somebody talking to them, saying 'is there anything over there?' or you know, 'can you see round the rocks?' or whatever, it might inspire them to go that bit further.
							Wondered if VR would be used in care homes as it would be very time-consuming I think the sad thing is though whether it would actually get used, in a, in a care setting, I don't know. Because it's time, it's gonna be

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
	nature						time consuming isn't it, and it's one- to-one, and everything, and maybe in care settings that's quite a difficult task isn't it, time-wise. I mean somewhere like this, one of us, if we were in this kind of situation, one of us could sit with one or two different people through a session and they could have a go, and do it yes, but I do wonder how much it would get used in a care home. I think it'd be a lovely thing to have in a care home
15-V	N/D	N/D	N/D	N/D	N/D	N/D	N/D

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
Gender:							
Woman							
16-C & 16-ML	N/D	N/D	N/D	N/D	N/D	N/D	N/D
Gender:							
Woman							
(husband with memory loss)							
17-C & 17-ML	Thought it	she gets quite	N/D	N/D	N/D	N/D	N/D
Gender:	would be a	bored, and so I					
Woman	great idea for	think going out					
(mother with	those unable	to look at					
memory loss)	to get	something like					
	outdoors. (17-	that, would be					
	C)	quite nice.					
		Whether she'd					
		sit there for long					
		with it onbut					
		you don't have to do you, you					
		can sort of sit					
		there for five					
		minutes worth					
		of					
18-V	Anyone	N/D	Could bring	You know,	but he [her	Maybe, maybe	N/D
Gender:	who's had to be		back	especially if it	husband]	they would need	
Woman	indoors, they		memories.	was a horrible	wouldn't have	someone with them	

Participants	4.1 Alternative	4.2 Relieving	4.3 Trigger	4.4 Improve	4. 5 Potentially	4.6 Inability to	4.7 General
	means to	boredom	memories	mood and	confusing	cope with VR	comments
	accessing			calming		equipment	
	nature						
	just get that			afternoon and	been able to	all the time, if they	
	feeling of being			you could say	manage on his	didn't, to set it up	
	there.			ʻalright we'll go	own. And also, I	for them. 'Cause	
	Thought it			down to the	don't know, in the	I'm just thinking of	
	would be			beach, this is	end, he might	how my husband	
	'lovely' and			what it was like	have got really	was, and he	
	'marvellous'				confused because	wouldn't have been	
	for those				sometimes	able to do that.	
	indoors.				watching the	Because	
					television, when	unfortunately, I	
					the, er, adverts	mean, he would	
					came on he used	always put music	
					to say 'well what	on for us for	
					are they doing on	Saturday night	
					the programme?'.	while we had a nice	
					Like when we	meal. And then one	
					were watching	night he said, well,	
					Downton Abbey	he said 'I can't get	
					and that, and the	the CD to play' and	
					break came in,	I said 'well you just	
					and he would say	press that button'.	
					'well they're not	You see, it had just	
					in it, what's	gone out of his	
					happening?'	mind. He, well, he	
						lost his sort of,	
						spatial awareness,	

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
						thing. So, yes I think, depends, depends what type of dementia they've got, I guess. But he wouldn't have been able to do that. He would have enjoyed it	

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
19-ML	I think people	N/D	N/D	N/D	N/D	N/D	The noise of
Gender:	would						activities in the
Woman	appreciate that,						memory café
	sat in hospital,						meant that this
	because it really						participant did not
	does feel like						hear the sound in
	you're there.						the VR experience.
							I mean, even just
	'Cause I						walking along by
	think a lot of						the river, or going to
	people with my						the beach, or going
	condition, fibro						to the zoo, or
	and chronic						goinganywhere,
	pain, aren't able						you're
	to get out of						sometimesblocked.
	their beds,						So seeing like, that
	aren't able to go						[the VR], like going
	places. So that						and having
	[the VR], I						asometimes
	think, definitely						sitting down and
	would help, and						just maybe chilling,
	I think maybe						and maybe having
	would you						sounds to go with it.
	know, relax						So as well as
	them, and you						having, yes, the
	know, just help						pictures, but maybe

Participants	4.1 Alternative means to accessing nature	4.2 Relieving boredom	4.3 Trigger memories	4.4 Improve mood and calming	4. 5 Potentially confusing	4.6 Inability to cope with VR equipment	4.7 General comments
	them, maybe get in a better mood. Because your mood swings with chronic pain, it's up and down. Like yesterday, I didn't wanna be here – didn't wanna live. Today, I'm, oh yeah, I'm getting there. I'm really sore but, you know, and that's the sort of						have sound as well, so you can hear the seaso it's more of a real connection. 'Cause it's alright watching it, but it'd be nice to hear it as well. So if you go along and say youyou can alwayswhen go along to a beach you can always hear the roar of the sea, and it's a real nice relaxing feeling.

Theme 5: Preferred nature and ease of access

Participants	5.1 Preferred nature	3.2 Difficulties with accessing preferred
		nature
01-C	Lizard. Right across, you see down the lane, Kynance there,	N/D
Gender: Woman	and you walk up the steps and it's beautiful. You can't beat it.	
(husband with memory loss)	You can't beat nature looking over to Kynance Cove and	
	right down to the Lizard, I love it. And what's the other place	
	I like?I like Coverack. Yeah, that's nice. Yeah.	
02-C	Preferred nature is the sea.	Not easy to access as she and her husband do
Gender: Woman		not have a car. Poldhu is her favourite (has a
(husband with memory loss)		great café), go there by bus or with other
		people.
03-C (same person as 02-C) &	N/D	N/D
03-ML		
Gender: Woman and Man		
04-V	N/D	N/D
Gender: Woman		
05-ML	N/D	N/D
Gender: Woman		
06-V	well I'm a country girl at heart, you know, and um, going to	N/D
Gender: Woman	the beach and walking along the cliffs and that sort of thing,	
	it's lovelyvery relaxing, yeah. I've never been a good	

Participants	5.1 Preferred nature	3.2 Difficulties with accessing preferred
		nature
	swimmer, so, but I would like to explore under the sea really,	
	you know, so, I've never had the opportunity	
	She particularly liked the moors and their ruggedness.	
07-C & 07-ML	N/D	Access to nature depends on how wheelchair
<b>Gender:</b> Woman (daughter with mother)		friendly it is as PwD uses a wheelchair.
08-C & 08-ML	Described where they like to walk when young, with	Live in the country but don't do so much
Gender: Woman (husband with	lots of flowers and birds. Had a bird table and seemed to	walking; a hill on either side of where they live
memory loss)	enjoy watching the birds.	and traffic were mentioned as an explanation.
		They used the bus to take trips into local
		towns e.g. Liskeard. They did not like to shop
		but they liked that they were recognised when
		they walked around the town.
09-V	His favourite place was Crackington, near Bude because	Said he would go to nature if he had time and
Gender: Man	of the rock formations you got the structure of the er,	'could be bothered'.
	spheres, different layers of er, you know, sediment.	
10-C & 10-ML	N/D	Don't get out to nature because they no longer
Gender: Woman (husband with		have a car. They said they missed it very
memory loss)		much.
		10-C: Oh we do, yes. Very much
		10-: We're restricted now, you see.
		10-C: 'Cause there aren't so many buses up our
		way, and we don't tend to use them in case
		we, we miss the last one back, you know, we'd
		be stuck.
11-C	Preferred the countryside to towns and villages. Like	N/D
Gender: Man	nature and the sea.	
12-ML	Preferred rivers and the countryside to beaches.	N/D

Participants	5.1 Preferred nature	3.2 Difficulties with accessing preferred nature
Gender: Woman		
13-ML	N/D	N/D
Gender: Woman		
14-V	N/D	N/D
Gender: Woman		
15-V Gender: Woman	She did not go to the coast very often. She described herself as a 'country person'. She described how she had been brought up on a farm and visiting the seaside had not been part of her life.  I lived on a farm when I was young. And the farm was up high, and we overlooked the whole of St Austell Bay, so I could see the water out there, with all this land in between. But it was something that we never You have to realise, that I was young 70 years ago and more, and so we just didn't go to the seaside.  Her relationship with nature centred around the 'land' and not the coast.	N/D
16-C & 16-ML	They used to go the beach, for example, Bude.	They no longer have a car as he does not drive
Gender: Woman (husband with		which meant that they do not get out and
memory loss)		about as much as they once did. Now use the
		Ring and Ride bus service to take trips to towns in Cornwall.
17-C & 17-ML	N/D	N/D
Gender: Woman		
(mother with memory loss)		
18-V	N/D	But I haven't got my own transport, so I can't go
Gender: Woman		out as much as I probably like.

Participants	5.1 Preferred nature	3.2 Difficulties with accessing preferred
		nature
19-ML	I used to be able to walk everywhere, and just go out into	very difficult. In Cornwall, there's a lot of places
Gender: Woman	the woods, do walking. Now, I'm so limited. Either you got,	where you can't get to if you're disabled because
	erm, you got gates locked, so if you got a mobility scooter, they	they've got steps, and you just can't get down
	expect you to climb over this, whatever it is, you know, the	there, so you can't go into these places. So I,
	fencing. So you are very stuck. And, and if your mobility's	whenever people go, I'm stuck behind. Because
	really bad and you can't afford a mobility scooterand even	abroad, they do these, um, on the beaches they do a
	then, some mobility scooters won't go on, on the rough parts	disabled strip all the way down, so you can like, go
	of, like Cornwall.	onto the beach.
		'Most places in Cornwall are cliffy'- only a few
	Missed it [being able to be out and about] a lot and said	places [coastal] in Cornwall that are accessible.
	she was depressed as a result.	