APPENDIX G.



Code	Sub-Code	Comment
O Anna		
	"not a hobby person"	everyday life is centered around work
In Vivo	you're looking for ways that you	
	can stretch time and live longer	
	keep a cap on my emotions	
Profession	o profession - photographer	record cultural heritage language barrier
	o personality - suppressed emotional	
Personality	o personality - tamed and tolerant in conversation with friends	
	○ [story] - a third generation photographer	
Story	o [story] - flexible work life and full of coincidences and 'whims'	
	○ [story] - keep a cap on the emotion in funerals	
	• [affiliation] - how turn a Facebook friend into a real friend	begin with coffee chat happen to like each other keep in touch precondition - live in the same city and easy to
	[affiliation] - mediate with a friend through messenger	
	[bodily health] - not sleep well (use melatonin)	
0	[bodily integrity] - part of job	
Capability Approach	• [emotion] - be with and support the loved	
дричан	[emotion] - suppress negative emotion to avoid upsetting friends	
	 [senses, imagination, thoughts] - try to be neutral when speaking publicly 	
	• [other spieces] - important to feel small in the nature	
	[practical reason] - certain standart for things in work	
	• [practical reason] - reflection on the best solutions to solve conflicts	
	• [scenario] - a fitbit that can calculate the food intake	
	• [scenario] - earphone - walking on the street and remind of danger	everyone's accosiation of scenarios are quite different, which are deeply rooted in their own life experience (when and how they use the object in
Scenario	• [scenario] - get notified when reach 10000 steps	
	• [scenario] - jewelry:auto-changing color according to the clothes	
	 [scenario] - project a larger photo to the glasses to break the restriction of the screen 	
	 [scenario] - smart gloves(gesture-controlled) which can send help signals 	finger tip wearables
	• [scenario] - smart shoes analyzing how you walk	

Challenge	• challenge - loneliness	old friends die not working > not meet new people less physical contact physical contacts not always lead to friendship lack of knowledge of using social media
	challenge - people get old and friends die>loneliness	
	 chanllenge - elderly people don't work > not meet new people > loneliness 	
	 desire - function - count steps, weight, monitor heartbeats, mood recording 	
Desire/	desire - live in health longer	
Needs	need - mind protein intake as a vegetarian	
	need - would like to have a cleaning robot to save efforts in cleaning	
Process	 process - tapping the finger tip to perform the gesture used to send SOS signals 	
Product	product -laptop	
	value - much stuff people post on social media is crap	
Value	value - physical contacts not always lead to friendship	
	value - social media can still be helpfulto keep in touch wih real freinds	
	value - take work serious and devoted to work	
O Emily		
In Vivo	• it keeps me young	
	nobody wants to talk to you anymore	
	o hobby - choir (stop because of covid)	
Hobby/	o hobby - photography	
Interest	o interest - interiors design	
	o interest - photo editing	
	o interest - politics	
Talent	o talent - interiors design	
	o personality - creative	
	o personality - explorative	
	o personality - follow interior design trends	
Personality	o personality - life-long learner	
	o personality - social	
	 personality - use phone as a communication tool more (in contrast with husband) 	
	o [story] - a recipe book made with the collective efforts of a club	
	o [story] - be forced to have meetings online	at first difficult but later found it convenient
Story	○ [story] - hard to reflect together in a book club	

	o [story] - to have the reading club meeting offline to involve everybody	
	○ [story] - using a special program to organize party time	
	• [affiliation] - book club	
	• [affiliation] - cook and eat with friends	
	[affiliation] - elderly people netwrk proposing to the municipality	
	[affiliation] - intellectual eating club	
	[affiliation] - photography club	
	 [bodily health] - follow a tv program for elderly people to do exercise 	
Capability	[bodily integrity] - travel choices limited by physical states	
Approach	[emotion] - frequent family visit and online contact	
	[emotion] - safari park visit with family	
	• [play] - play bridge card	
	• [play] - watching tv netflix	
	[practical reason] - strong judgement on what's good/bad	
	• [senses, imagination, thoughts] - intellectual discourses with friends	
	• [senses, thoughts, imagination] - reading news	
	• [scenario] - visit virtual museums online for elderly people	
Scenario	• [scenario] - visit virtual museums online for elderly people (2)	
	 [scenario] - when physical conditions decline, using Internet to know about the world outside 	
	challenge - although willing to but hard to keep up with the	how to use the cloud to
	development (e.g. softwares)	store photos
	,	takes time to learn how to
		use some apps or
	challenge - declined memory	need to relearn
	Shahonge doomlod mornery	remember where the
		stored photos are
Challenge	challenge - declined physical conditions	у того и
Ondienge	challenge - need to change the ways of travel (husband's)	used to sail and go
	preference, bad eyesight)	camping and outdoor
	challenge - use software to edit photos	camping and outdoor
	·	
	change - digitalization of service diminishes the human contact	
	change - online meetings are much more than before	
	desire - have a smart watch which can be integrated with various functions	concerned about the legibility when eyesight is not good want to have haptic
	desire - follow the trends	
	- dodies - follow the fields	

	desire - have immersive glasses to experience virtual reality	
	desire - have infinersive glasses to experience virtual reality	
Desire/	desire - know more about other cultures	
Needs	desire - like to change (in contrast to her husband)	
	desire - missing the physical contacts	
	desire - need to exercise more	
	desire - planning for dreamed trips	
	desire - privacy - not want others know the self-reflection	
	adding privacy flot main carere when the confronted and	
	desire - to keep up with the trends keeps me young	
	desire - Voice User Interface	
	o process - debating over whether certain functions are useful or not	constantly monitoring
		bodily state (e.g. glucose
		VUI control home
Process		not necessary unless you
		have got into that
		situations
	product - annoyed about the compusory use of online tools	
	product - ebook reader	
	product - google	
	product - intimidated to use cameras	
Duaduat	product - iPad	
Product	product - only use ebook reading on holiday	
	product - physical books rather than ebooks	
	product - smart watch	
	product - using certain programs by recommendation	
	product - woken up by smart home devices	
	 value - being forced online gathering also brings new possibilities 	
	value - old people need to know how to use the computer and	
	Intenet	
	value - online interactions with the organizations can be efficient	
	but also cold	
	value - online service should be an option but not the only option	
V (- 1		
Value	value - provide help and support rather than just being sad	
	value - reading about new information keeps people alert and	
	creative	
	value - the online meeting tools are not inclusive enough for	
	people who're visually or hearing impaired	
	value - VUI can be useful for elderly people	
0.1.1	value - willing to use a cleaning robot	
O John	- [manual annual and the heady in fine as less than 15	
	• [memo] - anywhere on the body is fine as long as it makes sense	

	• [memo] - changing the form and shapes might help	minimalize to make it less noticeable
Memo	• [memo] - medium	stylish shapes old people are used to certain traditional
		mediums (e.g. manual customer service) than
	• [memo] - shame caused by certain products	
	• [memo] - sth phisical tangible familiar	
	Like people are walking with a cane.	
	• they want to to look young and to look clean, vital and not old. I	
	don	
In vivo	Not click, not not so fast.	
	• under control	
	prepared for being old	
	added value	
	o personality - altruistic	
	o personality - care for equity	
	o personality - care for social justice	
Danas alika	o personality - expressive	
Personality	o personality - follow technology trends	
	o personality - independent	
	o personality - leadership	
	o personality - resourceful	
Environment	o environment - well-informed	
	○ hobby - reading	
Hobby/ Interest	o interest - American politics	
lillerest	o interest - why people behave so	
Telent	o talent - propose to the municipality	
Talent	o talent - understand people's responses	
	○ [story] - a young influencer on twitter	
	○ [story] - an exhibition in Leeds	
Story	o [story] - fulfill personal value through helping small organizations	
'	[story] - immediately decided to use the hearing aids when he	
	found he needed	
	○ [story] - no physical menu restaurant	
	[bodily health] - anticipated physical declination	
	[bodily health] - breakfast	
	[bodily health] - clean up once a week	
	[bodily health] - diabetes	
	[bodily health] - grocery	
	[bodily health] - health check	
	[bodily health] - mind nutrients, sugar, estimate amount, not	
	calculation, health check	
	[bodily integrity] - sit in first class	
Capability	• [control over one's environment] - should let voice be heard by the	
Approach	municipalities	
	[emotion] - family union on holidays, joking and laughing	

	[play] reading maying museums eating out	
	[play] - reading, movies, museums, eating out[senses, imagination, thoughts] - check messages	
	• [senses, imagination, thoughts] - follow influencer on twitter	
	• [senses, imagination, thoughts] - reading news on newspaper and twitter	
	• [scenario] - aging in place	aging in place can be difficult
		effective company is
	 [scenario] - an old lady who loves watching tv becomes sad when the tv is not functioning 	dysfunction scenarios old people have the mediums they are more
	• [scenario] - light leading to the bathroom for dementia people	
	[scenario] - living alone falling down send signals	confirm before sending signals
	• [scenario] - make gerontology more accessible by making it part of the insurance	
	[scenario] - mass production lowers the cost	
Scenario	 [scenario] - mood predict/monitoring (and let friends or family know) 	
Oceriano	• [scenario] - online banking which is not accessible for everyone	
	• [scenario] - pay the bill with apple pay on the watch	Impressed by the smooth paying process Trigger the desire to have the same easy and efficient experience
	[scenario] - take care of dementia people	tiring jobs for care givers (24/7)
	 [scenario] - using online tools to unite elderly people who live alone and help each other 	
	• [scenario] - voice control tv remote	
	 [scenario] function - lovely reminder of certain daily events (e.g. not going to the music concert for one year) 	
Avoid	avoid - hearing aids like a cane which brings shame	
Desire/	desire - like the mood-light apparatus	
Needs	need - safety at home for people with dementia	
	o process - (performing checking the smart watch now and then	annoyed by the persistent
	hearing or not hearing the notification sounds)	notifications
Process		
	 process - performing people hide their hearing aids to change batteries 	
	product - a notebook with a list documenting nephews' updates	regard family connections important
	product - apple watch	not want too many noises from the watch
	product - bike rather than e-bike	
	product - blood sugar monitor	
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		product - cleanin robot (not necessary)	
		 product - comparison between apple watch and fitbit 	
		product - ebike = status symbol	
		 product - family influence > product use 	what other family
			members use influece his
е		product - function - voice control(+)	
		product - hearing aids	people feel shameful to
s			wear them
os		 product - instagram - for family and friends 	
		product - iPhone 14 & Apple watch	
nore	Product	product - notify care givers in emergent situations	the care givers can be
		, , , ,	relieved
			(Juan) associated to the
ling			story of demantia old lady
9		 product - remote control lights/music/tv(-) 	, ,
		product - remote control lights/music/tv(-) product - seek after added value	
		product - seek after added value product - smart TV and smart remote control	
		product - smart IV and smart remote control product - smartphone	
		·	
		• product - twitter	
		• product - vacuum cleaner	
		product - whatsapp (family&friends)	send photos
			not emails or telephone
nooth		product - zoom - family zoom meeting	nice to still have the
. 1			chance to meet online but
have			not the best experience
		product/system - smart home	
		 product/system - using iphone with apple watch 	
ivers		 value - [technology] - interactions shouldn't always be clicking 	
		around	
		 value - approve of the whole apple system 	beneficial for coping with
			health issues
		 value - attitude - doubt and concerned about the security 	
l		value - convenience breeds laziness	
l		value - customized technology for each individual	
		value - data sharing only to necessary people is fine	
		value - impolite to be distracted by the smart watch	
		 value - inclusivity & accessibility > easy to be supported by the 	
sistent		government	
		 value - information helps form opinions and worldviews 	
		value illientation noipe form opinione and wondviewe	
		value - information helps stimulate minds	
l		value - make information more accessible	
otion			
ctions		value - not like to be interrupted	
		value - not use overqualified technology	
noises		value - online tools make connecting with people easier, life more	
		convinient	
		value - open to different possibilities	

	value - people need to be taught about how to use certain smart	
	devices	
Value	value - persuaded by others	
	value - politics influence policies	
	value - practicalism	
	value - see functions as the main reason for buying	goal:
		be informed of the
		physical state
		feel under control
		save the effort to go for
		health check for every 3
	value - some elderly people refuse to be old	some wish to stay young
		forever
		some are ashamed of
		needing tools to function
	and the second of the second o	normally
	value - technology as a tool to support each othervalue - technology should be easy to use	
	value - technology should be easy to use value - technology should be inclusive (everyone should have	
	access to it)	
	value - technology should be slower to be more accessible	
	 value - the functions the product has and the design is what 	
	matters but not where it's used	
	value - use it only when necessary	
	value - use your own strength when possible	
○ Robert		
	• [memo] - shame caused by certain disease	
Memo	• [memo] - the sin of honest and constant recording	
	• [memo] - wearable can be an implicit way of stating	
	distance	
	eye opener	
	hidden meaning	
In vivo	Also, you have to, when you don't understand something, it takes	
	some	
	• other perspective	
	The Future of yesterday	
Hobby/	 hobby - gardening interest - history, association, how and why people think in certain 	
Interest	way	
_	o personality - deep thinker	
Personality	o personality - growth mindset	
	o personality - optimistic	
	[story] - a friend distracted by Google glasses	
	o [story] - a girlfriend interested in astrology	
	o [story] - a letter pen pal	
	o [story] - a life-long recording of life (enzensberger)	
Story	○ [story] - almost an auto-reply to an email of a friend's death	

	○ [story] - cows as real cows not commodities	
	[story] - cows as real cows not commodities [story] - spontaneous travel	
	[story] - spontaneous traver [story] - the evolution of typing tools	
	[other species] - inhuman way to treat live stock and poultry	
	[other species] - initiality way to treat live stock and pounty	
	[other species] - whales' special way of sleeping	
Capability	• [other spieces] - being connected to the nature and wilderness to	
Approach	feel small	
7 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	 [senses, imagination, thoughts] - at least to be informed about surroundings 	
	• [senses, imagination, thoughts] - interview artists and writing about ehibitions	
	• [scenario] - chronicle disease	
	[scenario] - heart condition - send help signals	
	[scenario] - IoT service system	
Scenario	[scenario] - monitor the state of elderly people and inform children	
Occitatio	to assure them	
	[scenario] - people with diabetes implicitly show their state via	
	wearables	
Avoid	avoid - information overload	
Process	o process - pointing one spot on the jaw	
	 product - arms or internally placed wearables 	
Product	 product - conductive gloves to tap on phones 	
	product - facebook, twitter	
	 value - dressing code should be aligned with the age 	
	 value - elderly people should instead focus on what new things to learn 	
	value - embrace it as what it is	
	value - IM apps give us less time to respond resulting in	
	shallowness	
	value - information helps understand what's happening	
	value - life accelerated by technology	
	value - modern technology makes people more impatient	
	value - most elderly people focus on what they are losing	
	value - no use to compare now and the past	
	 value - not ethical to register everything (might not want to relive 	
	that)	
Value	value - not judge	
	value - people should have the right to choose whether use	
	technology or not	
	value - technology lowers the cost for communication but also	
	render it less precious	
	value - the past prediction of the future can be ridiculous	
	 value - unnoticeable devices which only stand out in emergent situations 	
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	value - we as humans are ignorant of other animals	
	value - we treat animals bad	
	 value - we treat live stock as products(commodity) not living beings 	
	value - we're being more and more integrated with technology	
	 value - young people are better at multitasking than elderly people, faster response to emergent situations 	
○ Tina	Table Tabl	
O Tilla	• [memo] - connection with others / loneliness	
Memo	• [memo] - searching quotient	open a special door to technology for elderly
	• [memo] - self-realization/meaning in life	
	o personality - adventurous	
Personality	 personality - planner, prone to regularity personality - prefer to be simple and efficient in daily chores 	
	○ hobby - (Tini) like recoding daily nice moments by photos	
	o hobby - museum (to get inspired)	
Hobby/ Interest	○ hobby - sewing and knitting	make toys get inspired by the artworks knit covers for the pillow making apron (wow!) obsessed with sewing
	○ [story] - 30min limit to talk about illness	
	. ,.	
	[story] - finding lecturers too enthusiastically [story] - like beach because of childhood memories	
	[story] - like brothers not sisters because of higher education more common interest	
Story	○ [story] - like paris and home exchange friend in Paris	
	○ [story] - love watching tv programs about photography rather than cooking and baking	
	○ [story] - parents don't have holiday to travel makes me decide to work for a travel agency	adventurous explorative
	○ [story] - win an award for finishing a crossword puzzle	
	[affiliation] - long-term friendship from high school	
	[bodily health] - eating at the same time	
	• [bodily health] - go to bed at 10:30	
	[bodily health] - wake up at the same time everyday	
Capability Approach	[emotion] - family visit (do chores, accompany grandchildren)	
	[play] - watching tv in the evening	
	[practical reason] - making plans at the beginning of the day	
	• [senses, imagination, thoughts] - talk with friends about thoughts and opinions	

	• [scenario] - a bag as a reminder to bring certain things or where to	
	put certain things	
	• [scenario] - a belt as a reminder to reguate food intake	
Scenario	[scenario] - a cap protecting skin from burning sunshine	
	• [scenario] - combine jewelry with medicines	reminder to take pills
	[scenario] - paired belt-earing/earphone	
	desire - be busy in doing sth. / spend everyday meaningfully	
Desire/	desire - have a smart watch which can make phone calls	no need to look at the phone
Needs	desire - like the experience of VR	
	desire - not want to be alone all day	
	desire - prefer to family visit rather than long trip	
	desire - to keep healthy	
	need - mind healthy status	
	o process - excitedly showing her sewn stuffed toys to me	
Process	o process - scrolling the organized photos from the cloud expertly	
	product - polarsteps (a travel-track web)	
Product	product - Tito	
	 product - want to have the wearables on the head which has most 	
	senses	
	product - YouTube	
	 product - YouTube as a tool to search solutions 	
Value	value - mind the diet in consideration for healthy	