



## Appendix 1: Taxonomy overview

Main Perspectives		Group	Sub-group
<b>1. PERSPECTIVES</b>	<b>1.1 User profiles</b>	<b>1.1.1</b> Anticipatory	
		<b>1.1.2</b> Visual impairments	
		<b>1.1.3</b> Early stage dementia	
		<b>1.1.4</b> Minor cognitive impairment	
		<b>1.1.5</b> Mobility restrictions	
		<b>1.1.6</b> Respiratory problems	
		<b>1.1.7</b> Hearing impairments	
<b>1.2 Relatives and informal carers profiles</b>	<b>1.2.1</b> Co-habiting		<b>1.2.1.1</b> Partner
			<b>1.2.1.2</b> Other
	<b>1.2.2</b> Non co-habiting		<b>1.2.2.1</b> Partner
			<b>1.2.2.2</b> Other
<b>1.3 Organisational profiles</b>	<b>1.3.1</b> Not-for-profit		<b>1.3.1.1</b> National government
			<b>1.3.1.2</b> Local or regional government
			<b>1.3.1.3</b> Health and social care providers
			<b>1.3.1.4</b> Social and public housing providers
	<b>1.3.2</b> For-profit		<b>1.3.2.1</b> Project developers_investment companies
			<b>1.3.2.2</b> Construction and installations
			<b>1.3.2.3</b> Service providers
			<b>1.3.2.4</b> Private health insurance companies
			<b>1.3.2.5</b> Private insurance companies and other innovative services



## Functions

Cluster	Category	Sub-category	Items			
2	2.1	Personal Safety	2.1.1	Accidents and calamities		
			2.1.2	Safe use of amenities and facilities		
			2.1.3	Safety around the home		
			2.1.4	Safety from outside threats		
	2.2	Comfort	2.2.1	Temperature regulation		
			2.2.2	Air quality	2.2.3.1	Daylight access
			2.2.3	Lighting	2.2.3.2	Artificial lighting
			2.2.4	Acoustics		
			2.2.5	Home management systems		
	2.3	Accessibility and orientation	2.3.1	Getting in and out of the house		
			2.3.2	Getting around the house		
			2.3.3	Performing daily in_house activities		
			2.3.4	Getting in and out of bed		
			2.3.5	Personal hygiene		
			2.3.6	Using communication and entertainment features		
			2.3.7	Doing work or hobbies		
			2.3.8	Controlling home functions		
			2.3.9	Orientating oneself in space and time		



Cluster	Category	Sub-category	Items	
	2.4 Health and social care	2.4.1 Proximity to services	2.4.1.1 GP	
			2.4.1.2 Pharmacy	
			2.4.1.3 Other community based and primary care services	
	2.5 Smart readiness	2.4.2 Options and facilities for eHealth and remote medicine	2.4.3 Facilities for care provision in the home	2.4.3.1 Sufficient space for maneuvering and assistance
				2.4.3.2 Availability of assistive apparatus
				2.4.3.3 Safety and capacity of electrical and ventilation systems
				2.4.3.4 Safe working environment
	2.5.1 Wireless and wired connectivity	2.5.2 Network infrastructure and interoperability		
			2.5.3 IT infrastructure APIs	
			2.5.4 Digital security and data protection	



## Functions

Cluster	Category	Sub-category	Items	
3	<u>OUTDOOR ACCESS</u>	<u>3.1 Home and building</u>	<u>3.1.1 Outdoor spaces</u>	3.1.1.1 Quality
				3.1.1.2 Choice
				3.1.1.3 Privacy
		<u>3.2 Immediate environment</u>	<u>3.1.2 Views</u>	3.2.1 Accessibility
				3.2.2 Attractiveness
				3.2.3 Social safety
		<u>3.3 Neighbourhood or village</u>	<u>3.3.1 Accessibility</u>	3.3.1 Accessibility
				3.3.2 Attractiveness
				3.3.3 Social safety



## Functions

Cluster	Category	Sub-category	Items	Sub-items	
4	PERSONAL	4.1 Identity and emotional connectivity	4.1.1 Home	4.1.1.1 Outside appearance	
				4.1.1.2 labelling_stigmatization	
				4.1.1.3 Recognizability	
				4.1.1.4 Flexibility	4.1.1.4.a Spatial layout
					4.1.1.4.b Furnishings
					4.1.1.4.c Amenities
			4.1.1.5 Space and functions		
			4.1.1.6 Autonomy and control		
			4.1.2 Apartment building complex	4.1.2.1 Mix of dwellings	
				4.1.2.2 Mix of occupants	
				4.1.2.3 Designation_labelling	
				4.1.2.4 On-site functions	4.1.2.4.a Community spaces
4.1.2.4.b Shops					
4.1.2.4.c Other					
4.1.3 Neighbourhood or village	4.1.3.1 Emotional_historical connections				
	4.1.3.2 Proximity of significant others				



Cluster	Category	Sub-category	Items	Sub-items
	<b>4.2 <u>Privacy and dignity</u></b>	<b>4.2.1</b>	<u>Control over social interaction</u>	
		<b>4.2.2</b>	<u>Control over access</u>	
		<b>4.2.3</b>	<u>Control over data collection and management</u>	
		<b>4.2.4</b>	<u>Control over look and feel and furnishings</u>	
		<b>4.2.5</b>	<u>Availability of private spaces and times</u>	
		<b>4.2.6</b>	<u>Seclusion for health and ADL care provision</u>	
		<b>4.2.6</b>	<u>Secure future prospects</u>	
		<b>4.2.6</b>	<u>Self determination autonomy of movement</u>	



## Functions

Cluster	Category	Sub-category	Items
5	SOCIAL	5.1 Social activity	5.1.1 Ability to have social contacts in the home
			5.1.1.1 Reachability by visitors
			5.1.1.2 Space to entertain
		5.1.1.3 Overnight accommodation	
		5.1.2 Proximity to activities and facilities	5.1.2.1 Shops
			5.1.2.2 Bars and restaurants
			5.1.2.3 Museums and galleries
	5.1.2.4 Theatres and concert halls		
	5.1.2.5 Sports and leisure facilities		
	5.1.2.6 Social clubs and meeting places		
5.1.2.7 Hobbies			
5.1.3 Ability to find social contacts outside the home	5.1.3.1 Demographics of the immediate environment and neighbourhood		
5.1.4 Online connectivity	5.1.4.1 Maintaining contact with friends and family		
5.2 Employment	5.2.1 Suitability of the home as a place of work	5.1.4.2 Connectivity to social groups and networks	
		5.1.4.3 Connectivity to entertainment and activity providers	
		5.2.1.1 Space and layout	
	5.2.1.2 Technical facilities		
	5.2.1.3 Digital connectivity		
5.2.2 Connection to place of employment	5.2.2.1 Travel distance		
	5.2.2.2 Transport		



Cluster	Category	Sub-category	Items	
6	ECONOMIC	6.1 Affordability	6.1.1 Objective affordability	6.1.1.1 Maximum periodic housing costs
				6.1.1.2 Maximum one-off costs
				6.1.1.3 Access to finance
			6.1.2 Willingness to pay	6.1.2.1 Maximum investment
				6.1.2.2 Value creation requirements
		6.2 Choice	6.2.1 Dwelling type	
	6.2.2 Living environment type		6.2.2.1 Immediate environment	
			6.2.2.2 Neighbourhood_village	
	6.2.3 Living arrangement type		6.2.3.1 Independent	
			6.2.3.2 Group	
			6.2.3.3 Intergenerational	
			6.2.3.4 Assisted	
			6.2.3.5 Other	
	6.2.4 Neighbours co_occupants			
6.2.5 Solutions	6.2.5.1 Range			
	6.2.5.2 Local availability			
	6.2.5.3 Price ranges			
	6.2.5.4 Modularity			
6.2.6 Decision_making authority				
6.2.7 Choice information	6.2.7.1 Availability			
	6.2.7.2 Accessibility			
	6.2.7.3 Quality			
	6.2.7.4 Interpretability			
	6.2.7.5 User_centredness			





EFFECTS	Category/Domain	Effect when met/Difference made
7 <b>EFFECT WHEN MET</b>	7.1 <b>Physical safety and health</b>	<ul style="list-style-type: none"> <li>7.1.1 Improved self_reported health and wellbeing</li> <li>7.1.2 Improved rate and range of indoor activity</li> <li>7.1.3 Lower dependence on ADL_assistance and aids</li> <li>7.1.4 Lowered risk of falls and accidents</li> <li>7.1.5 Improved access to care</li> <li>7.1.6 Lowered dependency on institutionalized care</li> <li>7.1.7 Improved sense of comfort at home</li> <li>7.1.8 Lower nonrenewable energy consumption</li> <li>7.1.9 Improved sense of safety at home</li> <li>7.1.10 Lower incidence of crime and abuse directed at older people</li> </ul>
	7.2 <b>Surrounding area</b>	<ul style="list-style-type: none"> <li>7.2.1 Better reported satisfaction with home environs and neighbourhood</li> <li>7.2.2 Improved rate and range of outdoor activity</li> <li>7.2.3 Improved sense of safety in home environs and neighbourhood</li> <li>7.2.4 Lower incidence of crime and abuse directed at older people</li> <li>7.2.5 Lower dependency on ADL_assistance and aids in outdoor environment</li> </ul>
	7.3 <b>Psychological and emotional wellbeing</b>	<ul style="list-style-type: none"> <li>7.2.6 Improved self_reported health and wellbeing</li> <li>7.3.1 Improved self_reported mental health and happiness</li> <li>7.3.2 Improved sense of self-worth and self-reliance</li> <li>7.3.3 Improved sense of agency</li> <li>7.3.4 Reduced incidence of anxiety and depression</li> <li>7.3.5 Lowered demand for formal mental health care</li> <li>7.1,2,3 <i>Other... (please specify)</i></li> </ul>



EFFECTS	Category/Domain	Effect when met/Difference made
<b>7 EFFECT WHEN MET</b>		<ul style="list-style-type: none"> <li>7.4.1 Lower rates of loneliness and isolation</li> </ul>
	<b>7.4 Social life and meaningful activity</b>	<ul style="list-style-type: none"> <li>7.4.2 Improved rate and range of social activities</li> <li>7.4.3 Improved sense of social connection with others</li> <li>7.4.4 Improved satisfaction with opportunities for social engagement in the home</li> <li>7.4.5 Improved satisfaction with opportunities for social engagement outside the home</li> <li>7.4.6 Higher percentage of older persons in paid or voluntary employment</li> <li>7.4.7 Higher percentage of informal carers in fulltime or part-time employment</li> <li>7.4.8 <i>Other... (please specify)</i></li> </ul>
	<b>7.5 Economic aspects</b>	<ul style="list-style-type: none"> <li>7.5.1 Better availability of financial means for investments in the home environment</li> <li>7.5.2 Improved income and wealth position for older people and carers</li> <li>7.5.3 Improved willingness to invest in home environments by citizens</li> <li>7.5.4 Increased investment in housing by private sector</li> <li>7.5.5 Increased investment in housing by social and public housing</li> <li>7.5.6 Increased investment in services and products by private sector</li> <li>7.5.7 Increased investment in services and products by public sector</li> <li>7.5.8 Reduction of public sector housing costs</li> <li>7.5.9 Reduction of public sector health and social care costs</li> <li>7.5.10 Reduction of costs for healthcare providers and contractors</li> <li>7.5.11 Increase in local_regional economic turnover</li> <li>7.5.12 Increase in local_regional property values</li> <li>7.5.13 <i>Other... (please specify)</i></li> </ul>