Research Development to define ‘Shared Usability’ in Product Design for Older Adults

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Introduction

A study of domestic product design for older adults identified the concept of “Shared Usability” (White, 2013) having many beneficial aspects for the older user. These benefits include but are not limited to: promoting good health, increasing sociality, encouraging safe use and instilling financial control, all offering empowerment and independence in everyday life.

For future designed products, it is proposed that usability be a shared stakeholder concern. By providing shared control over products, levels of self-sufficiency could be achieved in use regardless of the level of ability of the older adult. When executed correctly it can allow older adults maintain independence and ‘age in place’ with dignity and self-sufficiency.

Participant Breakdown

Total number of Participants : 21

The Participants who agreed to partake in fieldwork included 3 stakeholders (two health professionals and one family member) and 18 older Adults. Participants lived in Urban areas of Dublin and Kilkenny (14) and 2 lived in rural areas of Kilkenny, Ireland. Two participant’s homes were not included as they engaged in tasks based in St Columba’s Nursing home, Thomastown, Co Kilkenny.

Fieldwork Strategy

Approval was sought and achieved from the Ethics Committee in IT Carlow in order to conduct fieldwork using ethnographic methods of interview and observation. It involved three Pilot studies, (1.Older Adult, 2. Stakeholder, 3.Conjoined with stakeholder and older adult) it included a series of interviews with Older Adults and sessions of Task Observations, specifically in the eight areas of enquiry defined upon completion of literature review.

Fieldwork - Lifelogging

A series of contextual interviews and observation were conducted over a eight month period to build understanding of day to day life for older adults.

Fieldwork - Task Observations

Sample Task Observations of the eight defined areas of enquiry were conducted by selected participants. They were observed and recorded using audio and visual digital devices placed or worn in the task environment.

Literature Review

The Literature review firstly identified a hypothesis. This affirmed that Shared Usability was a viable concept to pursue and develop.

‘It is possible to empower Older Adults through Shared usability by mutually agreed intervention with other stakeholders when using Products or services’

Secondly, and in preparation for fieldwork, eight areas of enquiry were identified as relevant to understanding day to day life for the older adult.

1. Access
(Entering, Exiting Buildings or vehicles, opening or closing doors, jars, zips, locks, buttons)

2. Cooking
(Access in and around the kitchen, access to storage, function areas, and appliances)

3. Mobility
(Sitting down, Getting up, falling)

4. Dressing
(Footwear, buttons, zips, fasteners, Seasonal)

5. Interests/Activities
(Social, Spiritual, Indoors, Outdoors, Independent, Grouped)

6. Bathing & Toileting
(Shower? Access in and around the bathroom)

7. TV, Radio & Communication
(Enjoyment, use, preference? competencies, issues?)

8. Physical Function/Limitation
(Underlying conditions, Aids, Medications)

Oppotunities

Three design areas from this research have been identified as possible concept directors. Conceptualisation and design will support definition of shared usability.