



# Design Requirements in Domestic Cooking and Heating Products for Older People

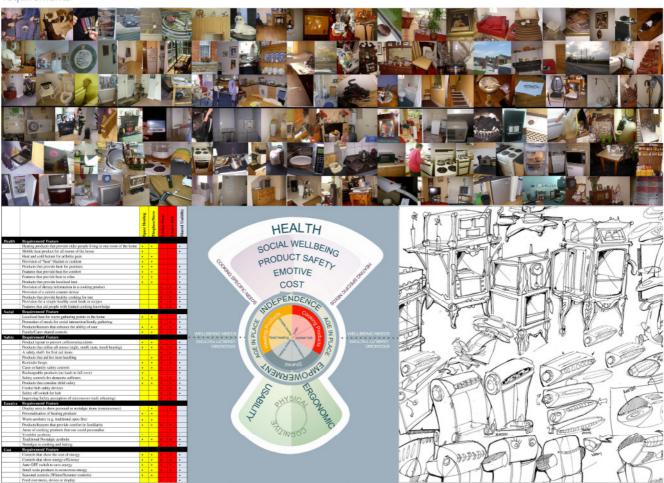
Dr. P.J. White, DesignCORE Research Centre, Institute of Technology Carlow, Ireland

#### Background

Domestic cooking and heating products fulfil fundamental needs within the home by purveying heat and food. For an ageing population, these products assume important health and wellbeing roles. Designers can create positive independent living experiences by redesigning features to meet the evolving requirements for older people. This research outlines design requirements to be considered for future domestic cooking and heating products.

#### Methods

An ethnographic study of 40 older adults was conducted over a 12 month period to obtain deep insight into cooking and heating product requirement. Personas were used to synthesis this data, and design requirements compiled, screened and scored. A framework was generated to categorise these requirements. Following this, design concepts were created to embody these requirements



### Results

The results of this study demonstrate the importance and necessity of these products in the lives of older people. It suggests redesigned features of cooking and heating products to provide for the health needs of an ageing population. Furthermore results show that future designed products should engender a complex mix of wellbeing needs, namely: emotional, social, financial and safety requirements. Moreover, specific ergonomic and usability requirements. Additionally it was revealed that existing products fall short in meeting the needs of 'user extremes' in older populations.

## Conclusions

This research suggests that the domestic products directly and indirectly influence positive health and wellbeing of older adults. It presents requirements that can enhance emotional experience, independence and strengthen social bonds. Most importantly it offers designers opportunities and requirements to improve product offerings.