



Contemporary scientific field

- In this case the focus is on the supermarket
- Shopping is often handled by the automatic system

(Thaler and Sunstein 2008)

 Only approx. 40% of Danes shop with a shopping list (The consumer council TÆNK 2012)



Contemporary approaches to interventions

- Environmental modifications affect shopping behavior (Turley and Milliman 2000)
- Studies have focused on the shopping (retailers, local food shops etc.)
- Investigating pricing strategies, increased availability, advertising strategies

Conclusion: Shopping behavior CAN BE CHANGED

However

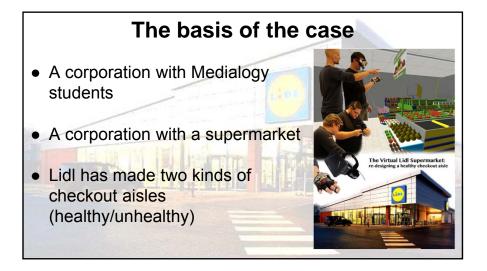
- Studies are expensive to conduct
- The checkout aisle is ideal
- Focus on shopping habits
- E.g. The Dutch Virtual Supermarket (Waterlander et al. 2011)

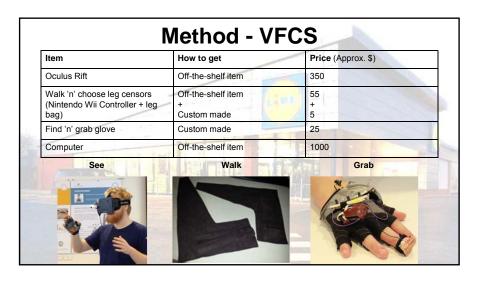


Aim of the project

Proofing the concept of The Virtual Food Choice Simulator (VFCS) in the **design** of a healthy virtual supermarket checkout aisle.

It forms the formative research needed to understand how consumer perception of healthier choice architectures in retail stores can be measured and whether virtual reality can be used in the design process of store layout







Experiment details				
Order	Place/locatio n	Research activity	Purpose	Type of research
A (E1)	Campus lab	Using VFCS with no changes	Understand the consumers choices	"See, walk and grab" + survey
B (Lidl)	Living lab	Conducting questionnaire and observe	Get answers from the customers of their perception of a healthy checkout aisle	Observe + survey
C (E2)	Campus lab	Using VFCS with changes	Understand the consumers choices	"See, walk and grab" + survey

A - Experiment 1

- No changes in the Virtual Food Choice Simulator
- Walk through the VFCS
- Grab an item at the checkout aisle
- Questionnaires and observations
- Did they notice the healthy Checkout aisle?



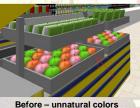
B - Lidl

- Questionnaires after purchasing the groceries
- Similar questionnaire as in experiment 1
- Observations
 The current checkout aisle
- Examples of a healthy supermarket



C - Experiment 2

- We used nudging to make people change behavior "Changing people's behavior in a predictable way without forbidding any choices" (Thaler and Sunstein 2008)
- Changes were applied in the VFCS (based on questionnaire and analysis):
 - -Design
 - -Colors
 -Shelves
 - -Signs





unnatural colors After – the healthy choice

Findings

- A Experiment 1 (Campus lab)
- Not reflective about choice of checkout aisle
- · Support for a healthy checkout aisle
- **B Lidl** (Living lab)
- · Not reflective about choice of checkout aisle
- Support for a healthy checkout aisle
- Few noticed the healthy checkout aisle
- C Experiment 2 (Campus lab)
- More visible
- Support for a healthy checkout aisle
- Free choice



Potential of the Project

Advantages/dis-advantages

Technology/research

- VFCS is feasible +
- · VFCS is perceived meaningful by the participants +
- sample size) -
- · There are technical issues -
- · For educational use

Store designers

- VFCS is cost effective \$\$ +
- VFCS is easy to use +
- Further research is needed (bigger Consumers are aware of the
 - retailers increasing responsibility +
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