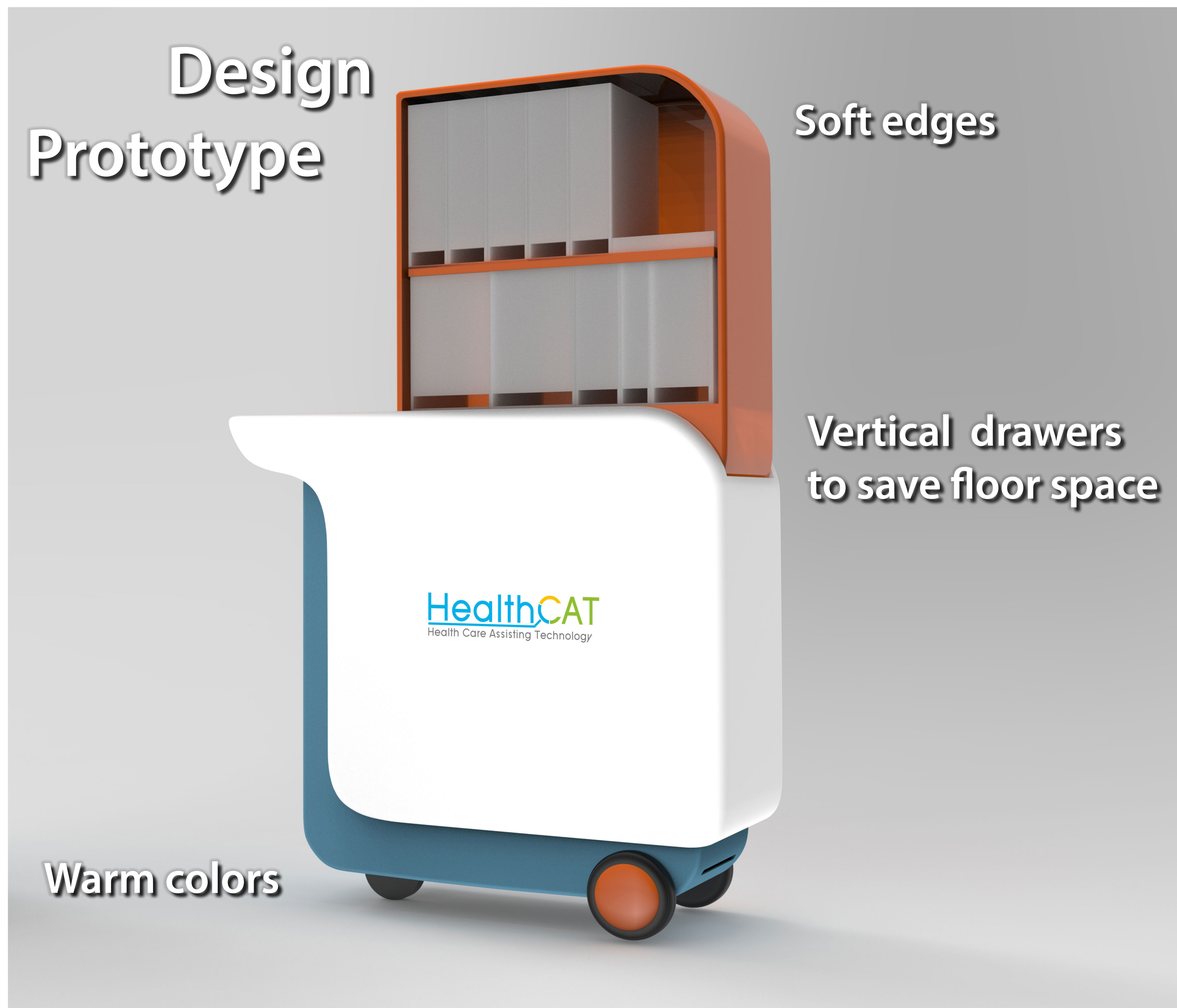


# TOWARDS A ROBOTIC ASSISTANT FOR CARE-GIVERS



## Demographic change

80+ year old citizens will more than **double** within 20 years.  
► The Demand for Healthcare Services will increase accordingly.

## Needs Analysis

A detailed Needs Analysis has proven that robots can create great value in hospital wards and other healthcare facilities.

Purpose:

- Identify tasks where care-givers need help.
- Assess if a robot can support them in these tasks?
- Identify challenges when implementing robotics and turn it into a guideline for successful implementation.
- Finding the most promising use cases for a robot prototype.

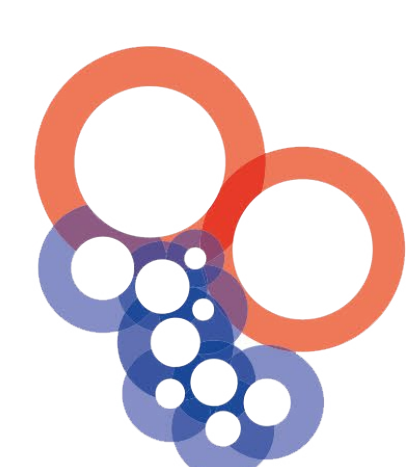
## Use Cases

The results of the Needs Analysis were narrowed down to these use cases:

- Transporting small equipment.
- Finding large equipment.

## Mock-up Test

Several scenarios behind the first use case have been tested using a functional mock-up, operated by a nurse. The use case was confirmed during this test and adapted based on observations. A new design was developed, in particular with ergonomics in mind.



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