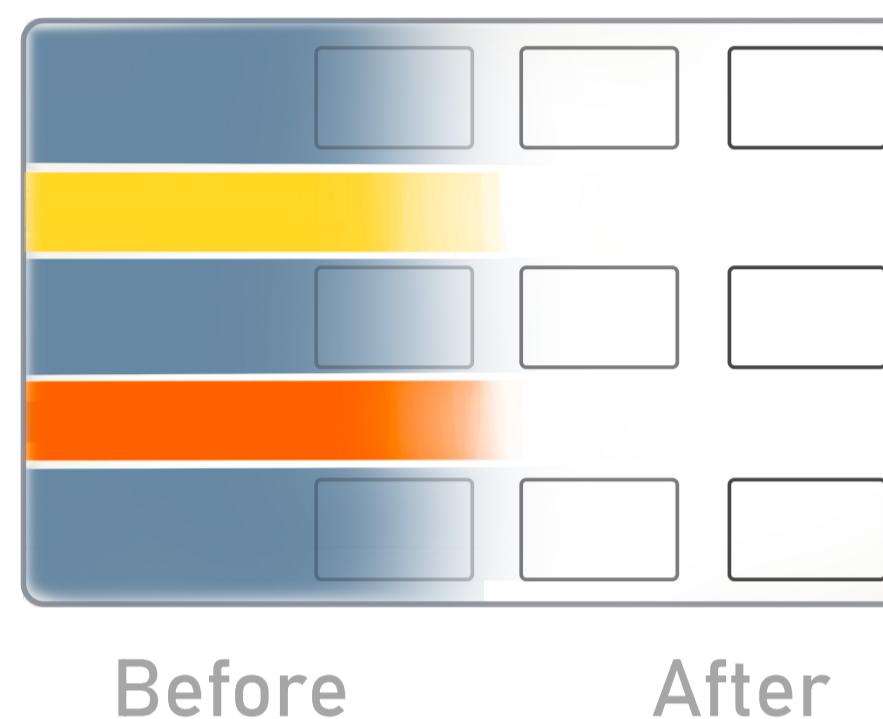


Designing for a more accessible zero energy system

A human-centered approach to zero energy housing renovations with focus on visually impaired residents

Research

Zero energy renovations



Before After

I combine **zero-energy housing renovations** and **Inclusive design** to discover the needs of residents. The focus lies on visually impaired users.



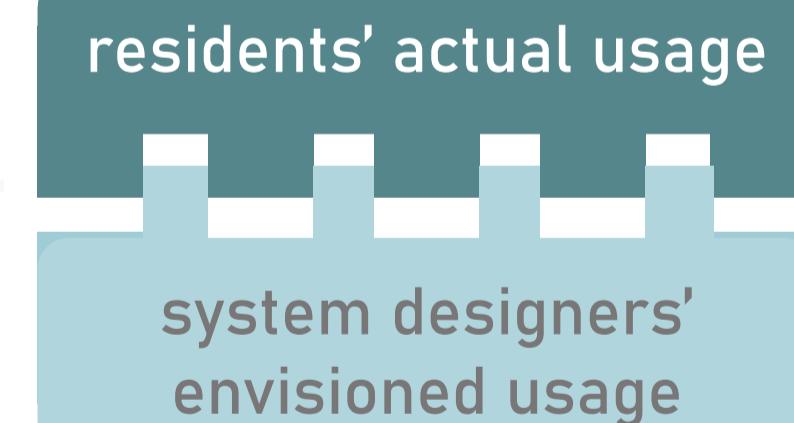
Accessibility

Undesired



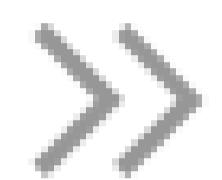
This is the current situation of mismatch.

Desired



I want to contribute to the future situation of a match through my design.

Design Intervention

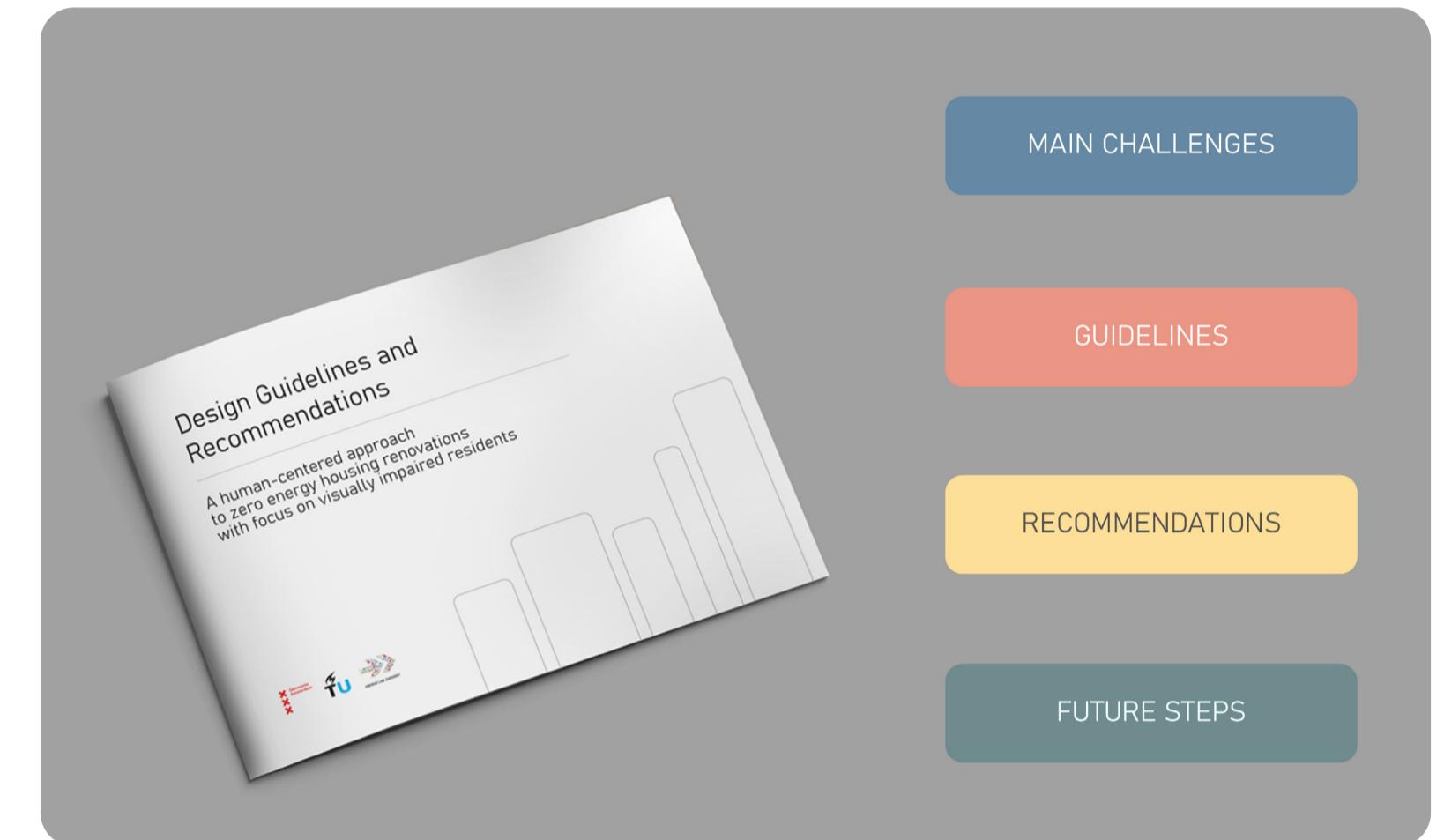


Design Intervention

Target group // Demand side of a renovation

1. Booklet

The content of this booklet aims to provide support from **human-centered design perspective in the form of guidelines and recommendations** for renovation projects with focus on visually impaired residents.



Target group // End users - residents

2.1 Breathing Walls

An interactive convector cover provides heat feedback and light ambience. It enables the resident to be well aware of the actions of the system.



2.2 Tactimap

A mini physical 3D overview of heating and ventilation systems in a space, incorporates tactile and thermal feedback for informing the resident.

