

BACKGROUND

As society grows older, the demand for independence in old age increases. Our aim was to create a handle for a frying pan that would be more manageable for the elderly.

PROBLEM

Handles on ordinary pans slant upwards, which requires them to be held in a way that is not ergonomic, concentrating all the stress on the wrist.

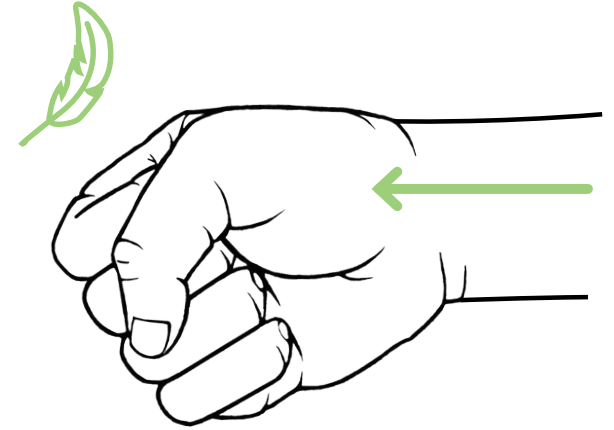
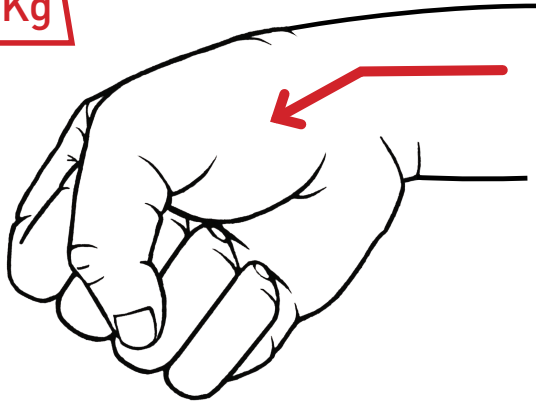
SOLUTION

Our research shows that by changing the angle of the handle, the pan can be held in a more natural way which allows for the weight to be distributed onto the entire arm. This makes the pan feel significantly lighter.



Student project at Basel University
in collaboration with
K. Blikisdorf

PAN HANDLE *REVO*

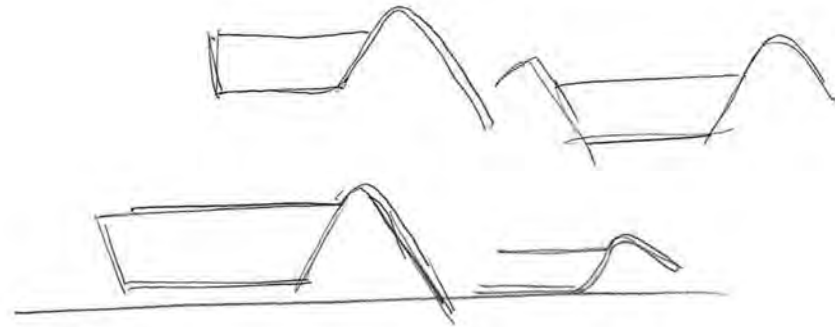


DIFFERENT HAND POSTURE

The steep angle of the new handle allows for a more natural hand posture. Hand, wrist and arm are directly aligned. This distributes the weight of the pan along the entire arm, rather than onto the wrist.

As a result, there is less stress on the wrist and the pan feels a lot lighter.

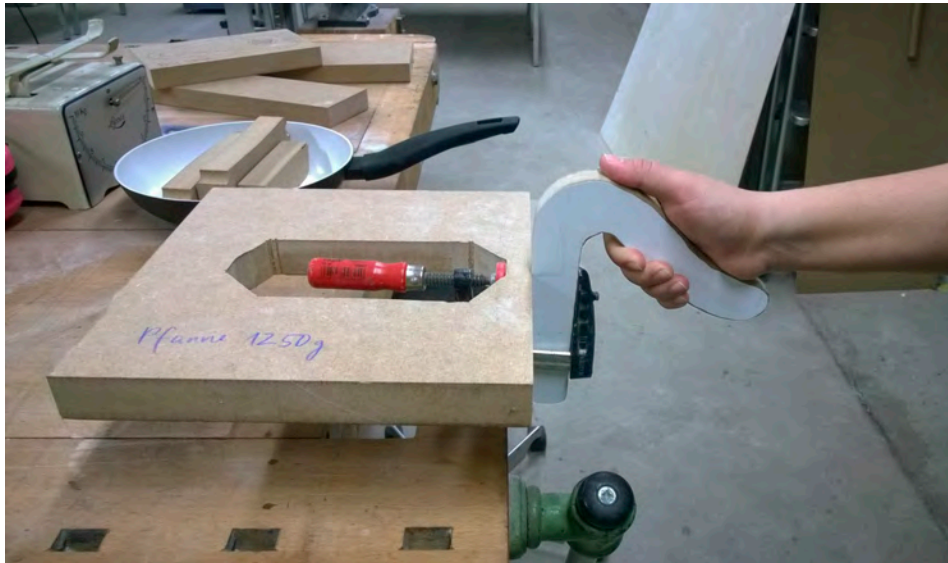
DESIGN PROCESS



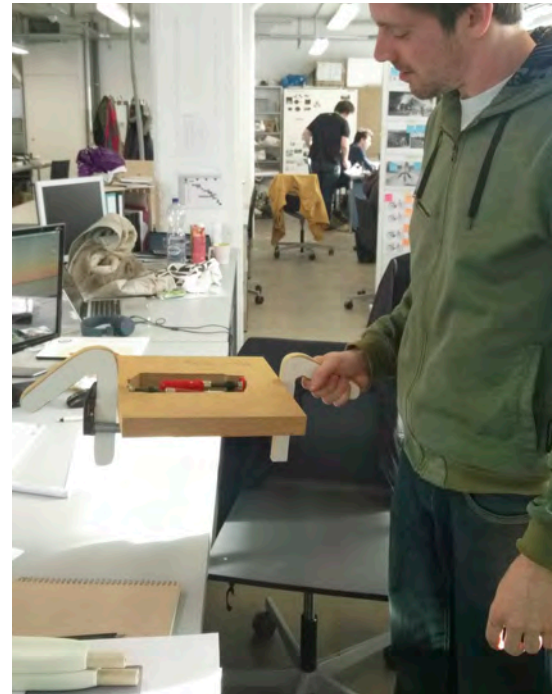
Sketching out early ideas



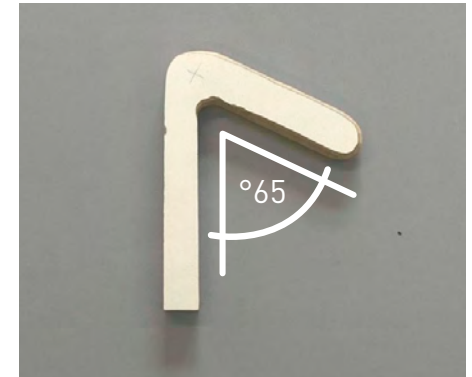
Testing various shapes and angles in MDF



Different kinds of handles are mounted onto a weight equal to that of a large frying pan...



...and tested on about 25 different people.

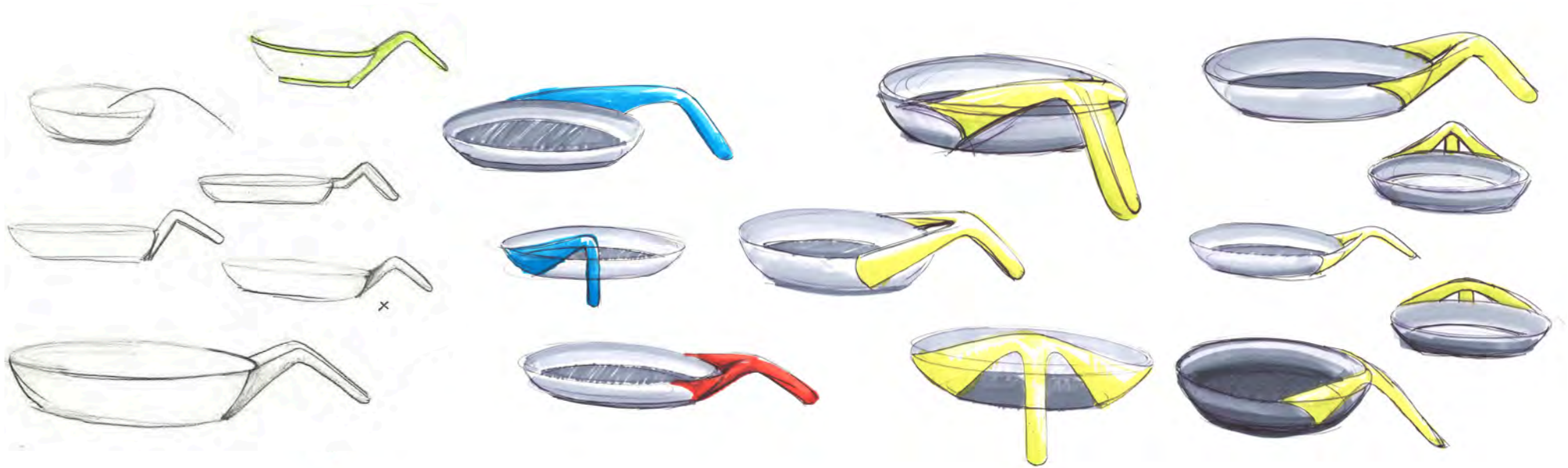


The winner: A simple 65° angle



Assessing the ergonomics of different handle shapes in the workshop

Mock-up of the final shape



Visualizing the flow of shapes from handle into pan