

1/3

# Individual Ergonomics Adaptions

3D printed seat inlays in rubber or foam, designed from scannings of the car owners back

## Target group

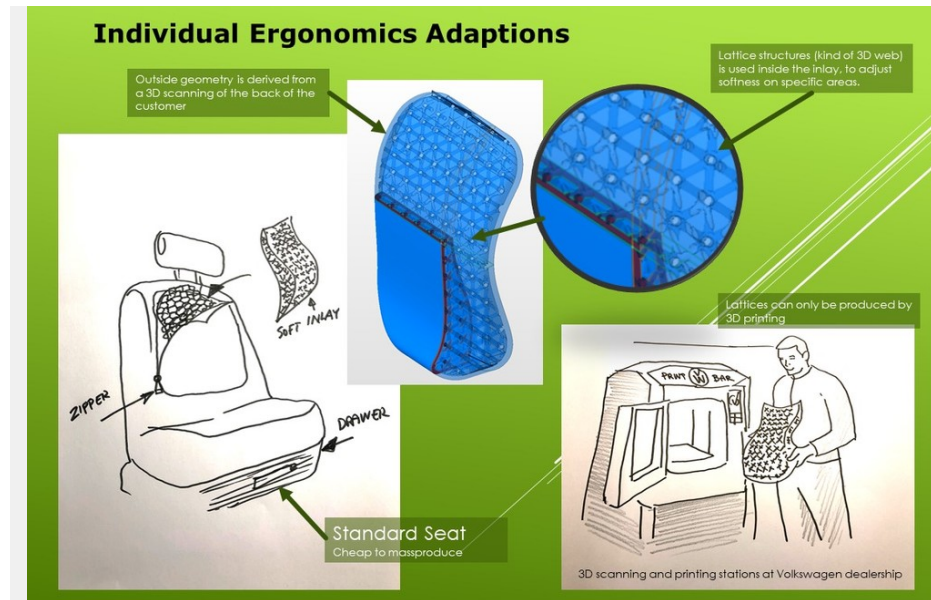
1: Families with kids and 2: Young people driven by design & innovation

## Observation

Every person has an individual shape of their body. To have the best comfort while using the IDbuzz seats has to support and fit the user. Car seats are mass produced, in standard shapes, which rarely fits the owner 100% Owners and users of a car like IDbuzz wants the absolutly best comfort. Users are hesitant to pay premium for multiadjustable electric seats, which is often very expensive. Even with adjustable seats, there are limits to the range of adjustments.

## Conclusion

To offer the best possible comfort and support, the seats must be individually shaped to fit the user. This fit must support asymmetrical shapes, it must be exchangeable. The adapton of the seat geometry should be easy for the user to exchange if needs change. The adaption must be cost effective, even in series of 1.

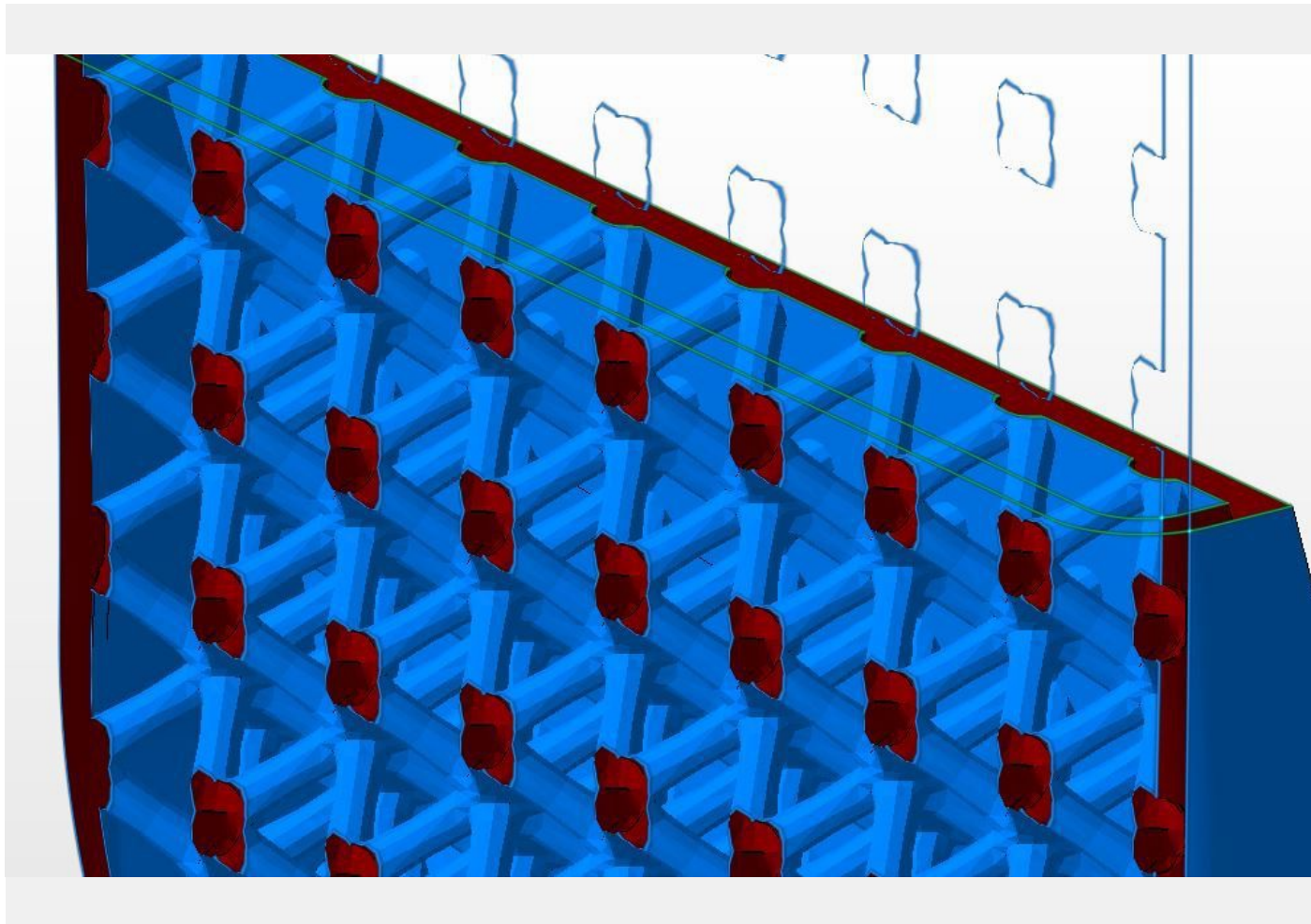


## Solution

The solution to this problem is a 3Dprinted soft inlay, which is designed from a 3D scanning of the back of the person for whom the seat is made. The car seat has a zipped pocket on the frontside of the backrest, in which the user can place the customized inlay easily. When not in use, the inlay can be rolled up, and stored in a drawer below the seat. The properties of the inlay can be designed by using computer generated lattice patterns which can be adjusted individually

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Need addressed by this product

Lattice structures consists of patterns of unified shapes, e.g. "X" patterns of different beams, connecting at joints, and surrounded by a outside "skin" In this manner, most of the inlay is air, but the surface is supported by the lattices printed in rubber material.

Print your Buzz



3/3

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Creative's profile



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