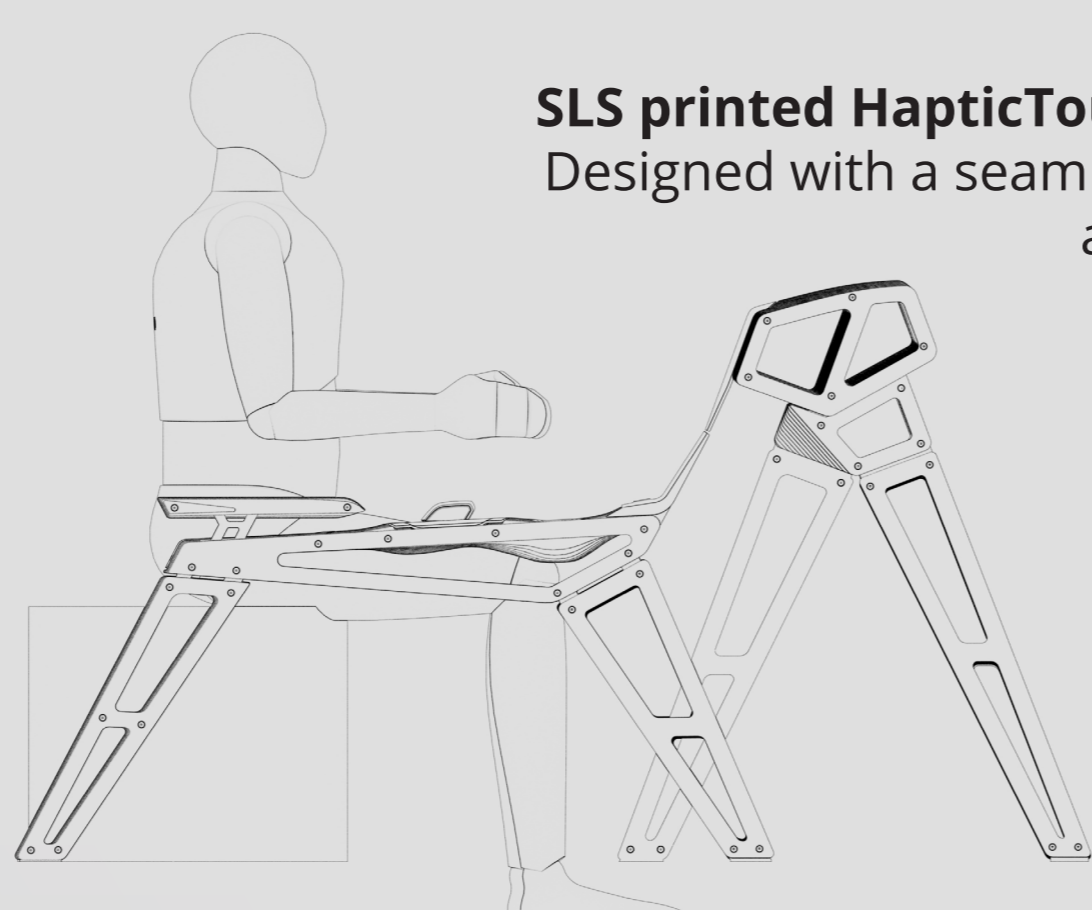
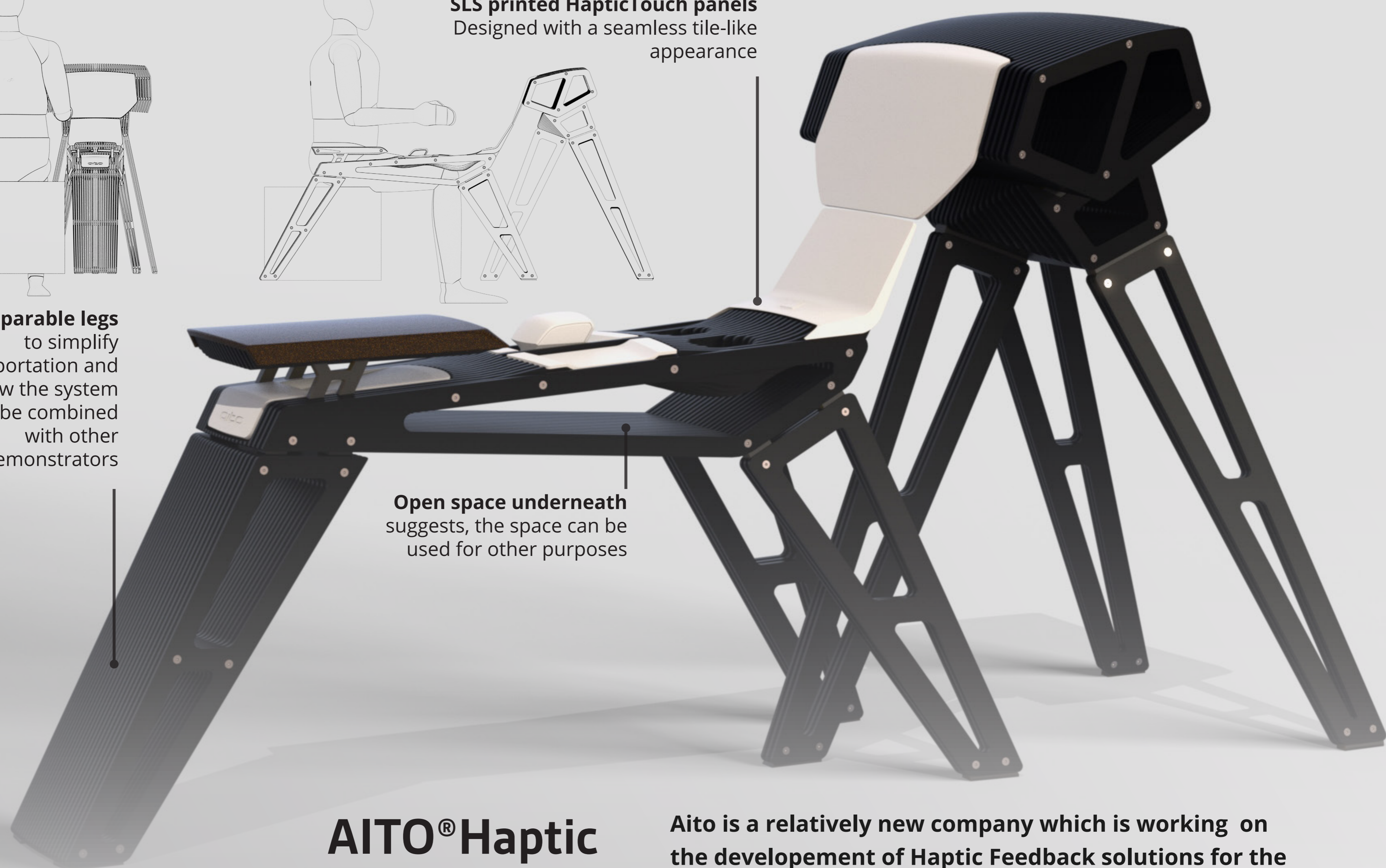


Separable legs
to simplify transportation and allow the system to be combined with other demonstrators



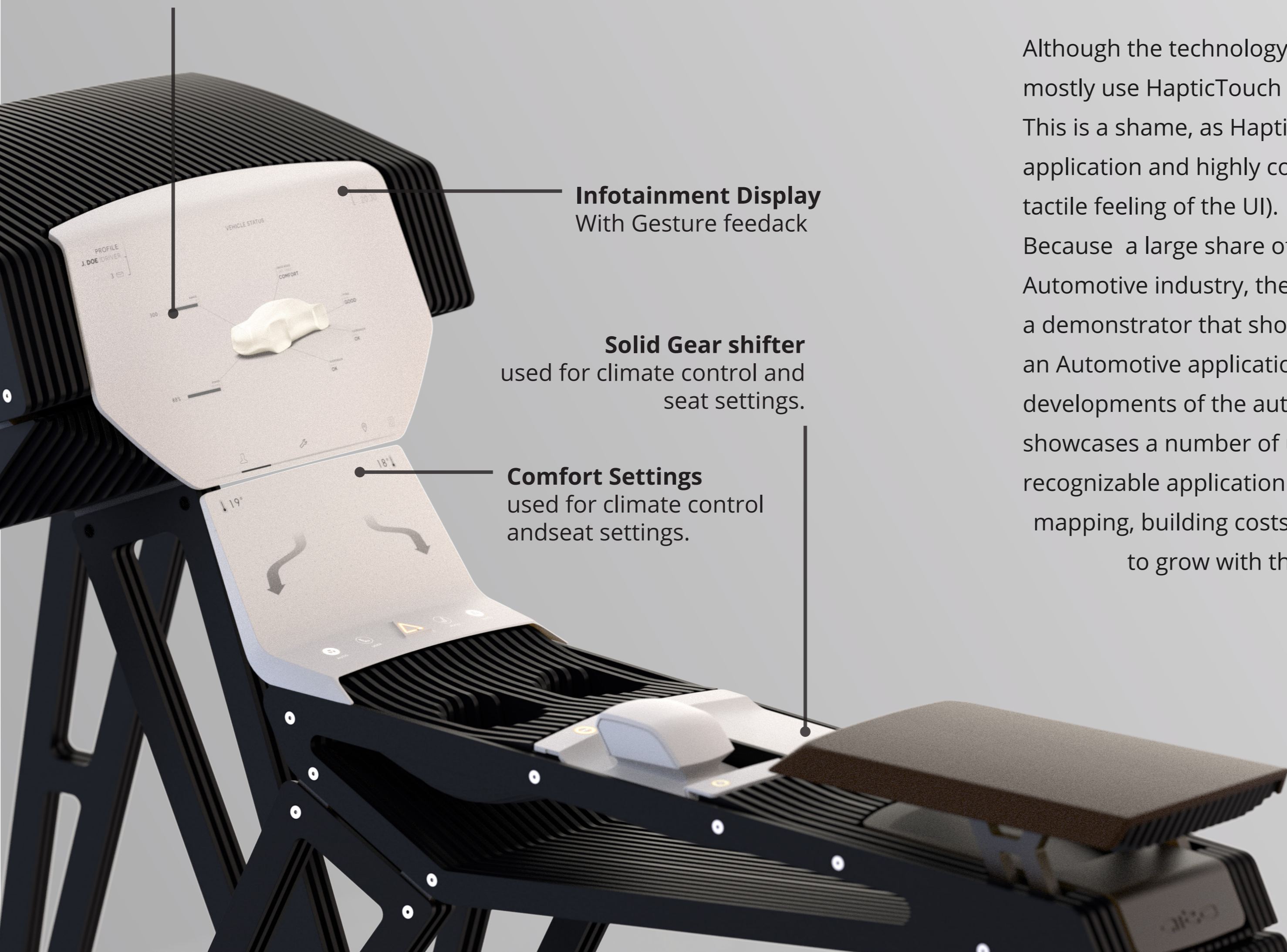
SLS printed HapticTouch panels
Designed with a seamless tile-like appearance



Open space underneath
suggests, the space can be used for other purposes

AITO® Haptic Mid-Console Demonstrator

Interactive Projection Mapping
is used to simulate display technologies in a cost-effective manner.



Infotainment Display
With Gesture feedback

Solid Gear shifter
used for climate control and seat settings.

Comfort Settings
used for climate control and seat settings.

Aito is a relatively new company which is working on the development of Haptic Feedback solutions for the Automotive-, mobile devices- and consumer electronics markets. Aito's proprietary HapticTouch technology is unique as it enables touch sensing- and feedback with the same components, while delivering high quality feedback with almost no latency.

Although the technology of Aito has a lot of potential, in practice, clients mostly use HapticTouch as substitute technology for traditional buttons. This is a shame, as HapticTouch is a system architecture that is flexible in application and highly configurable (allowing for on the fly changes to the tactile feeling of the UI).

Because a large share of Aito's customers are companies from the Automotive industry, the goal for this graduation project was to design a demonstrator that showcased the USP's of AITO®HapticTouch in an Automotive application, while taking into account the trends and developments of the automotive industry. The resulting demonstrator showcases a number of unique technology-interaction principles in a recognizable application. Through the use of e.g. interactive projection mapping, building costs could be kept low and allow the demonstrator to grow with the technology developments at Aito.

Pieter Stol
Aito Automotive Demonstrator
06.02.2019
IPD

Committee Prof. Ir. J.E. Oberdorf (Chair)
Ir. W.F. Kets (Mentor)
J. Lönnberg, Msc.
Company Aito BV