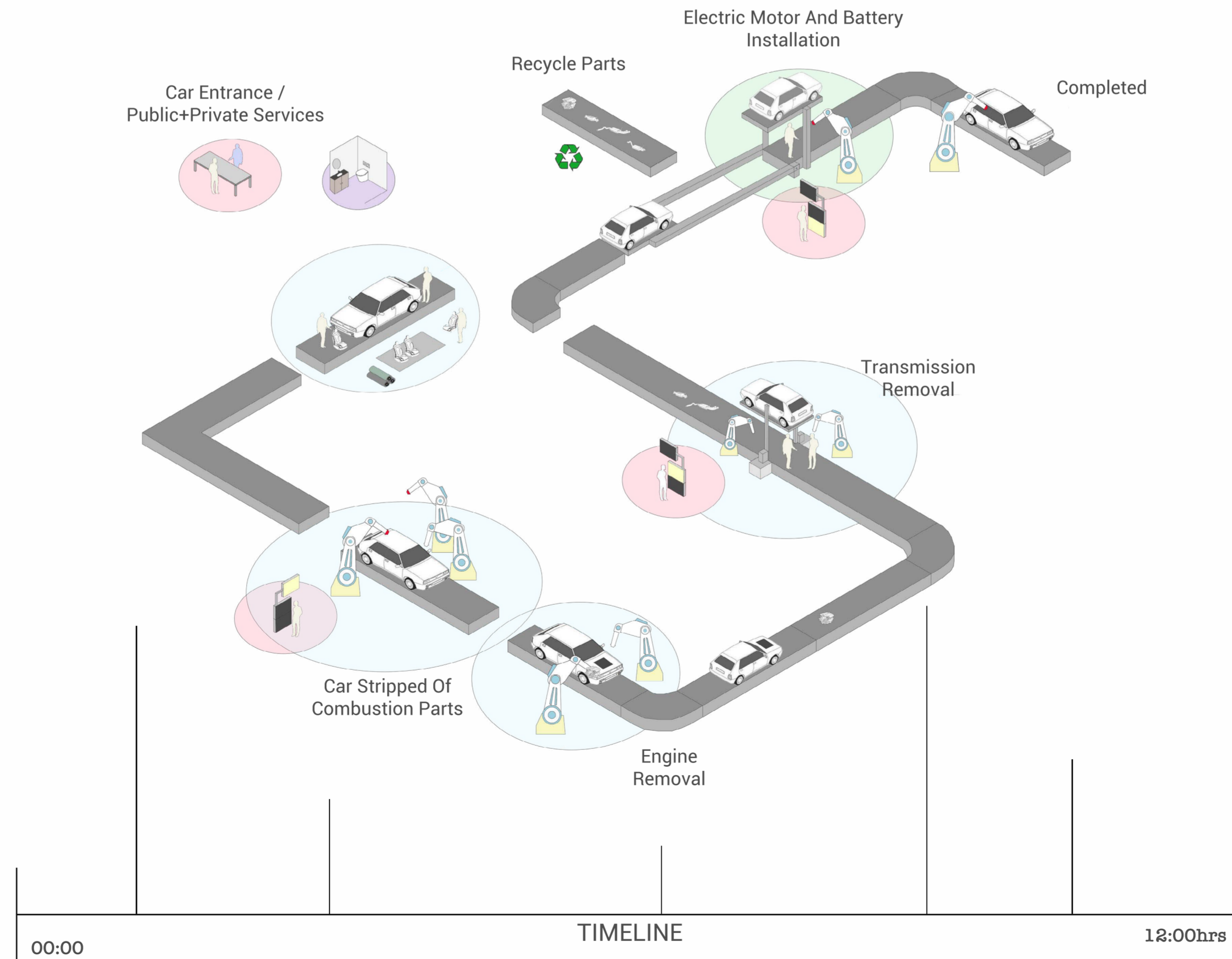
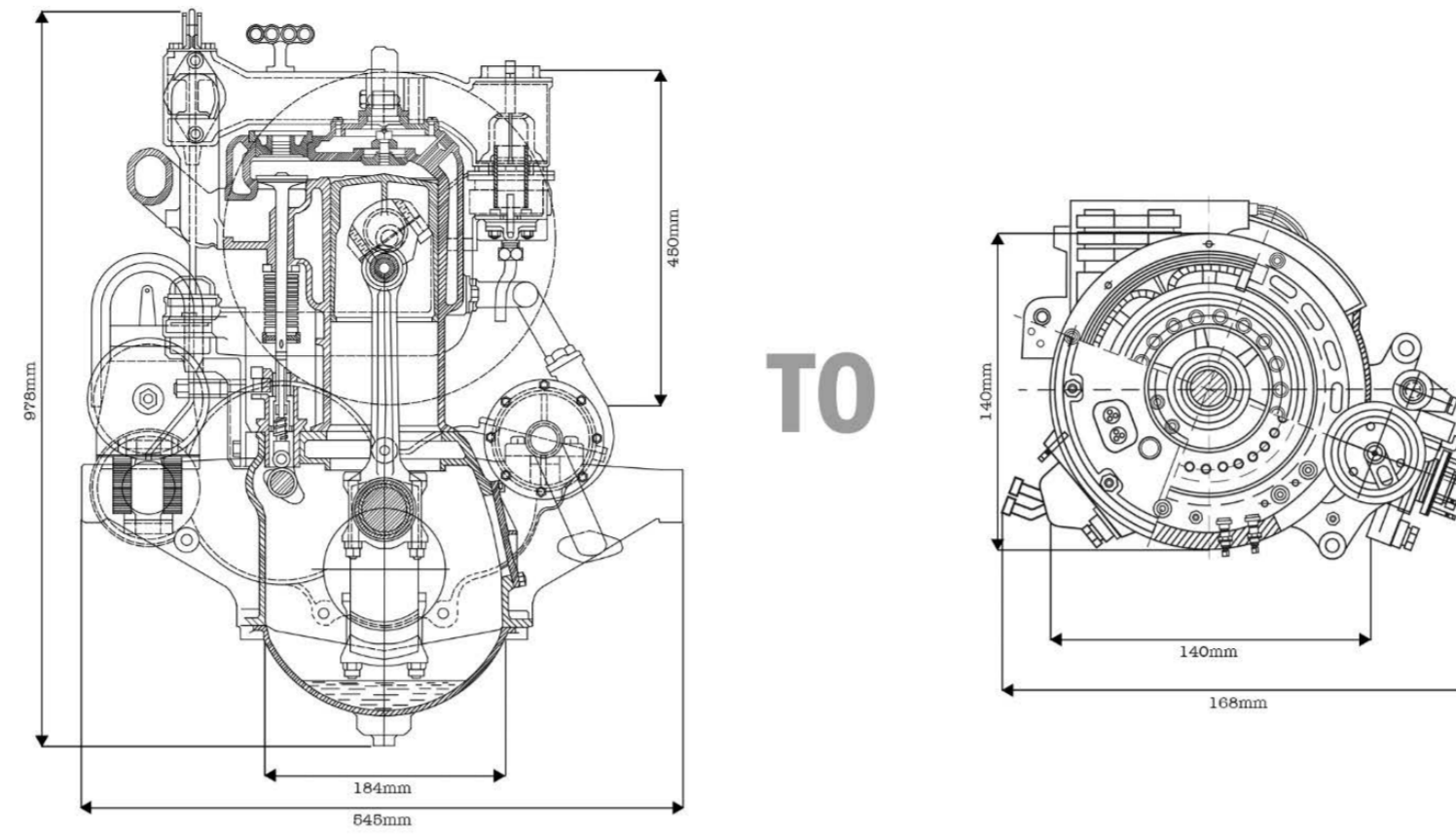
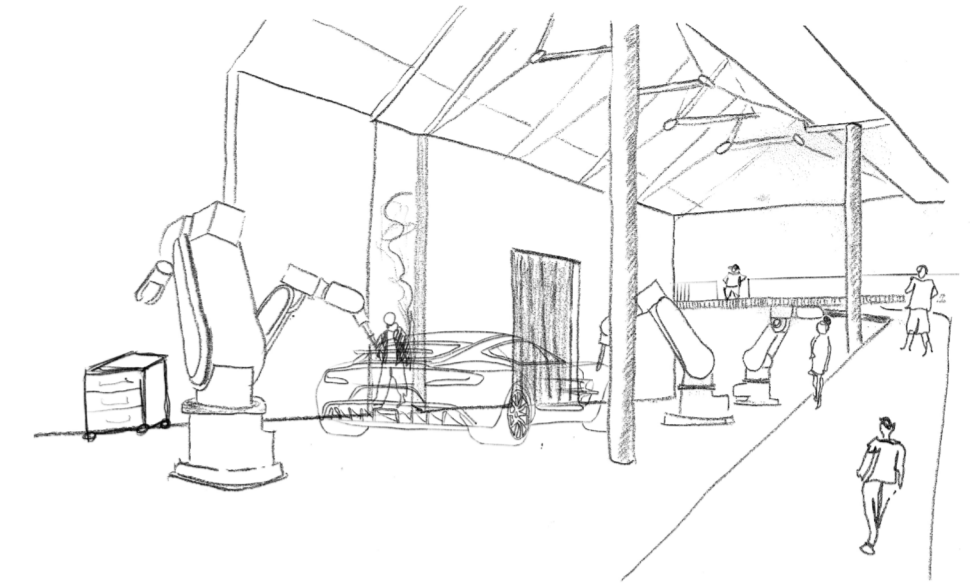
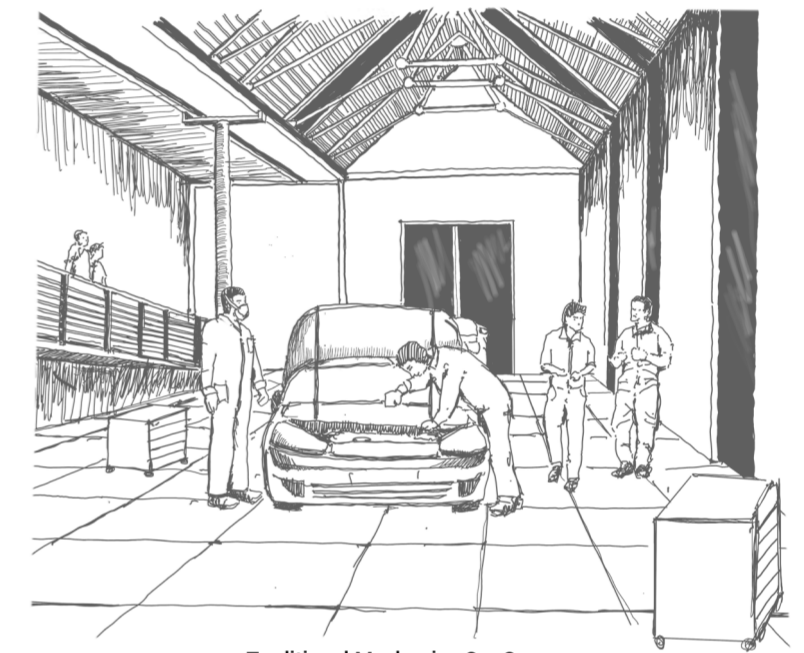
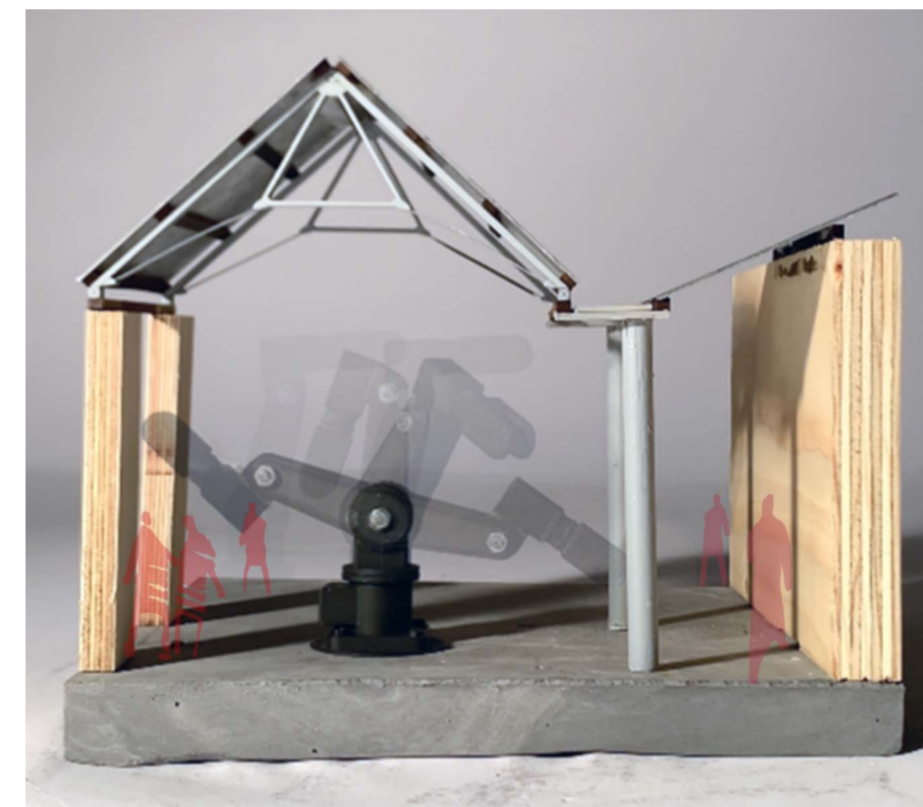
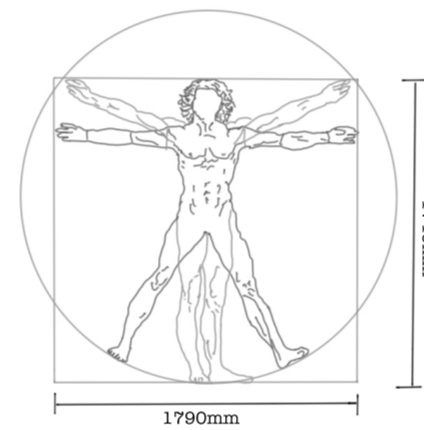
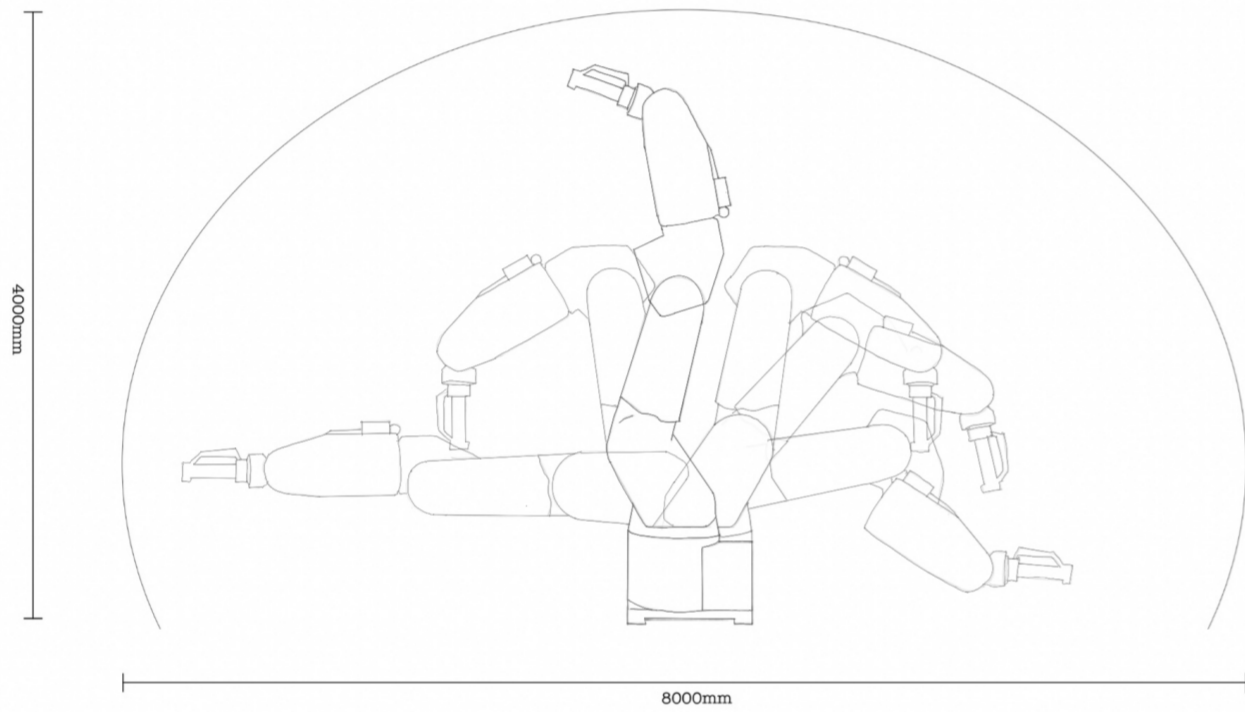


“Clean-Swap”

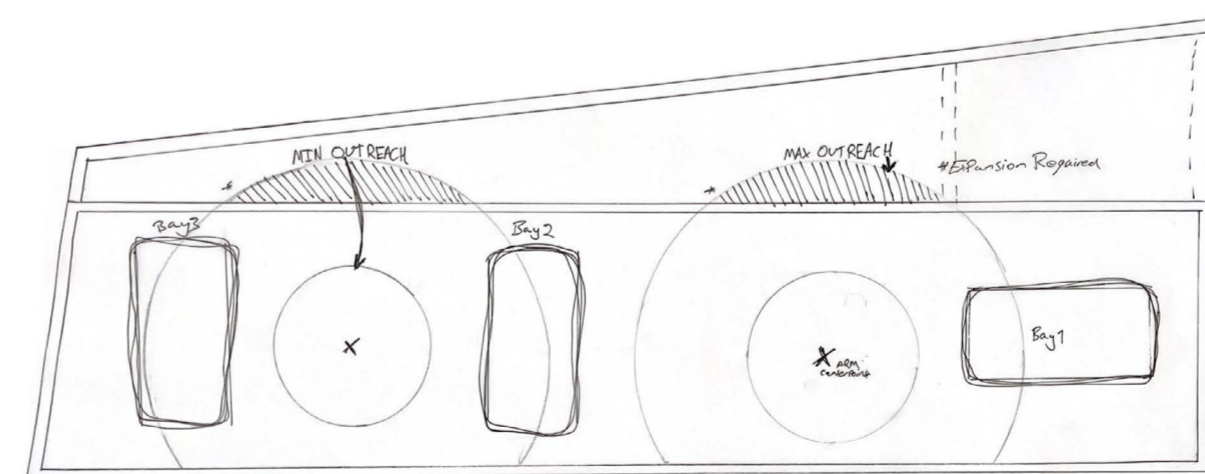


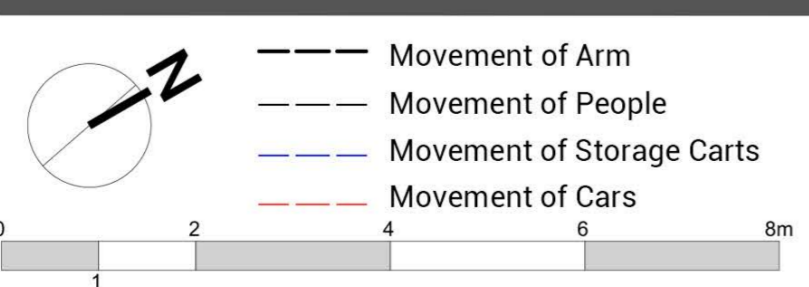
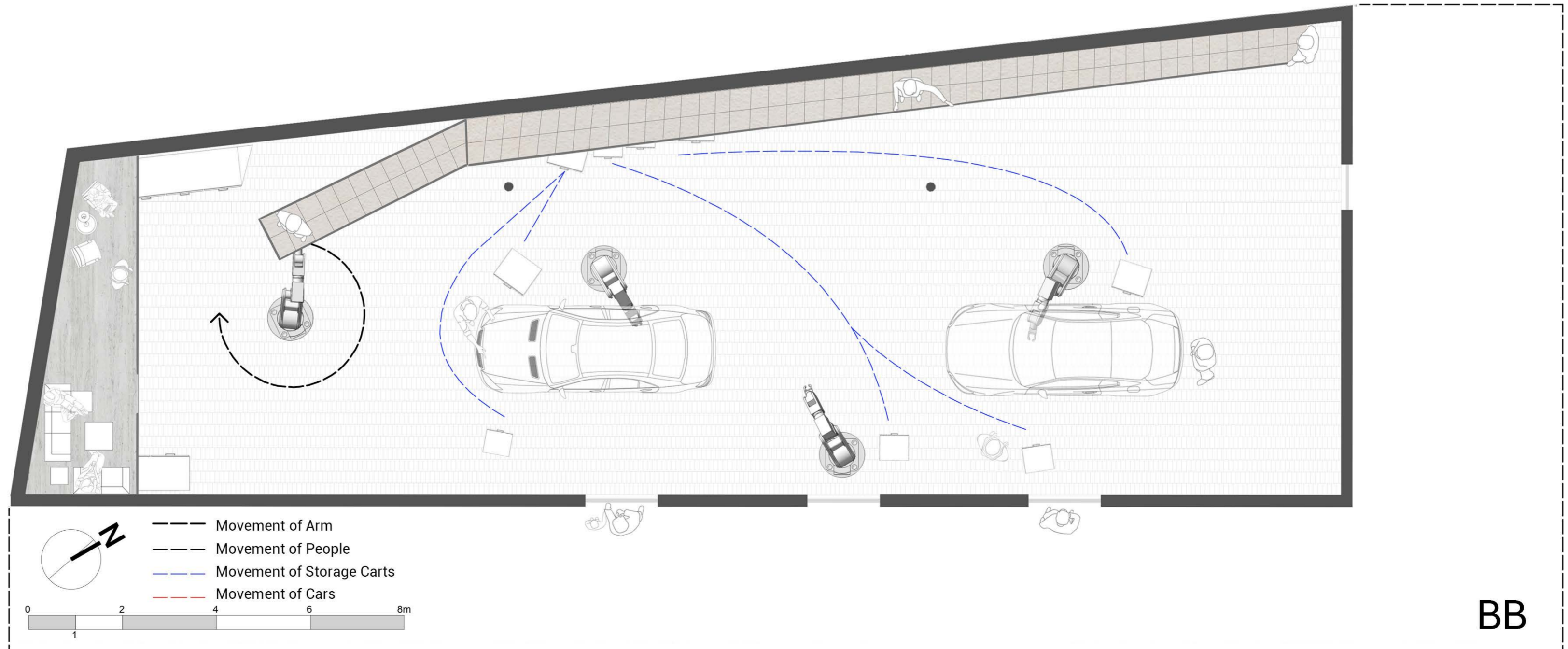
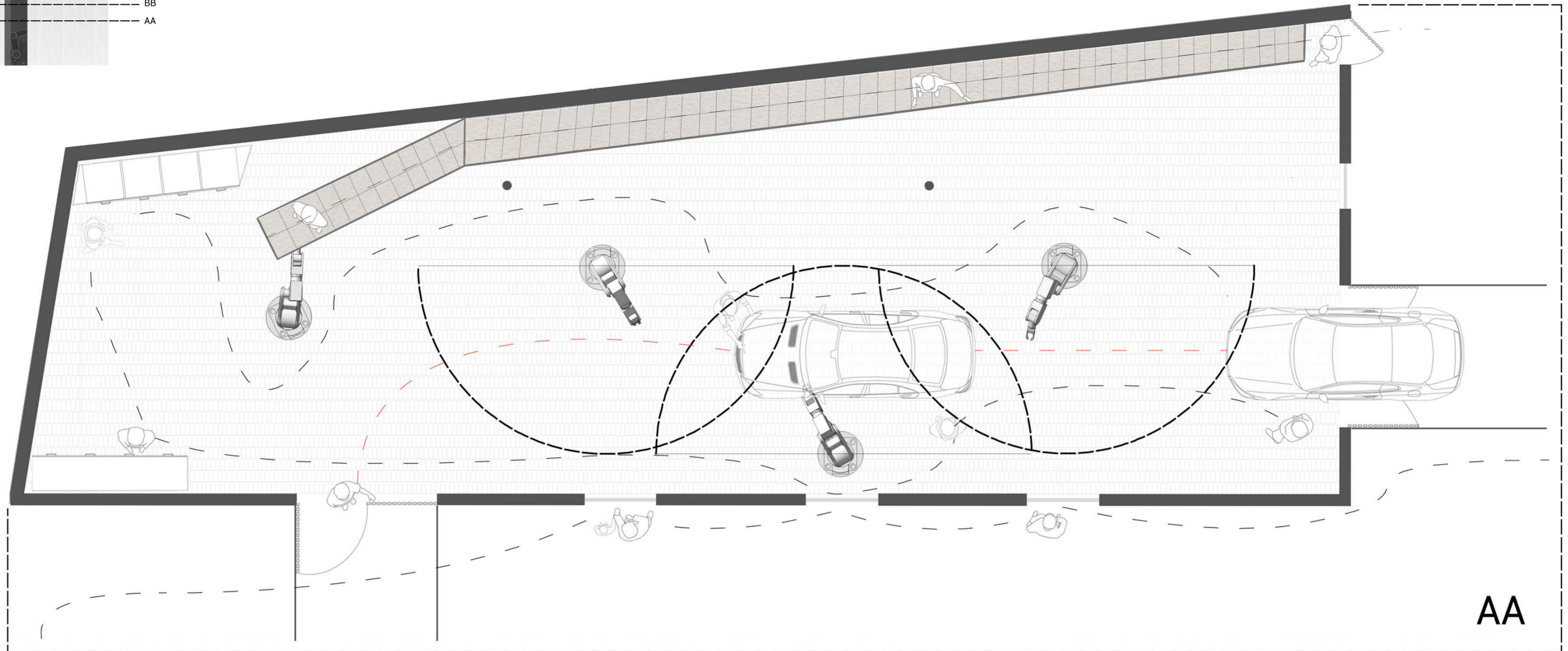
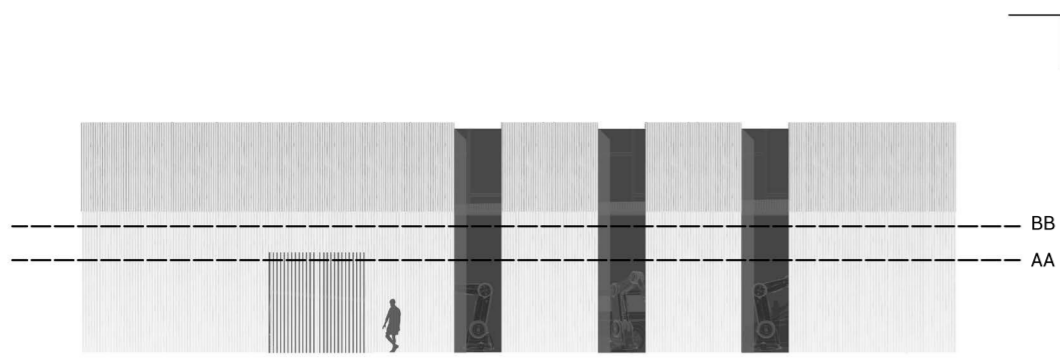


Futuristic Clinical Car Garage



Traditional Mechanics Car Garage



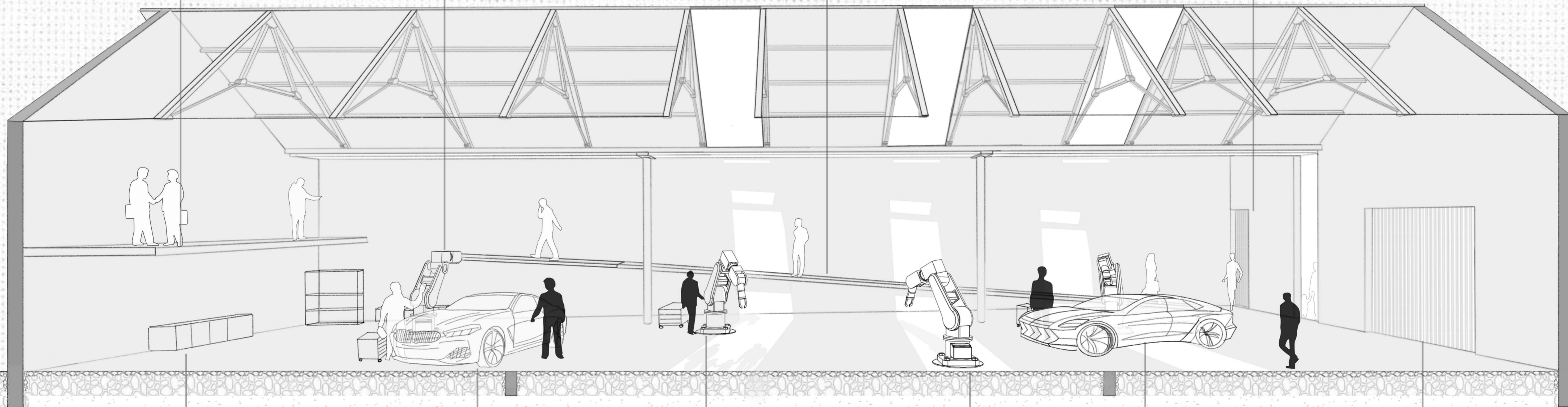


Customers can view and discuss their requirements, as well as view the process taking place in front of them.

The mechanical arm turns to move the ramp across to the platform

Customers travel up ramp parallel to assembly line

Customers enter



The workers move their tools and portable units back to the side for space

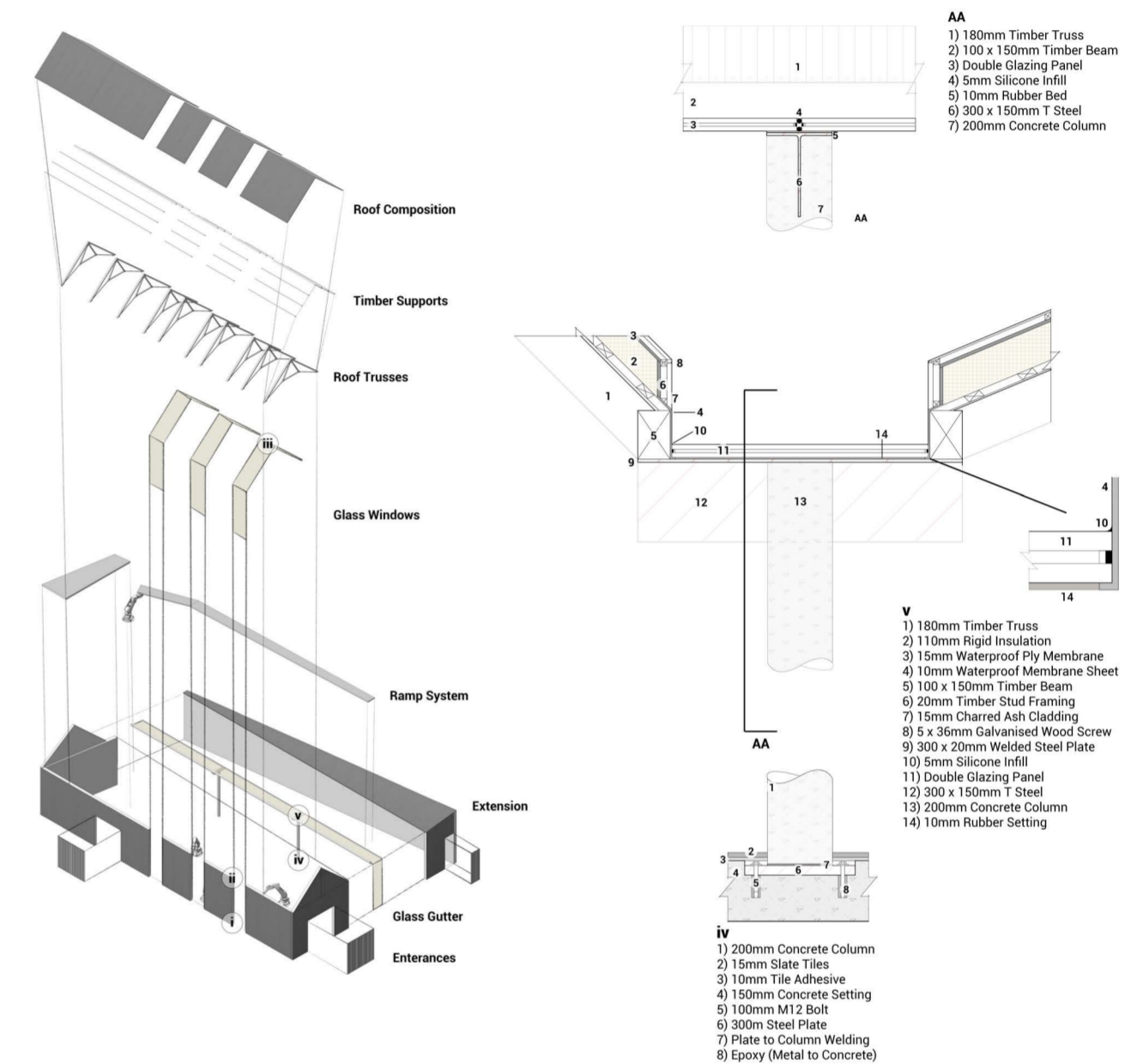
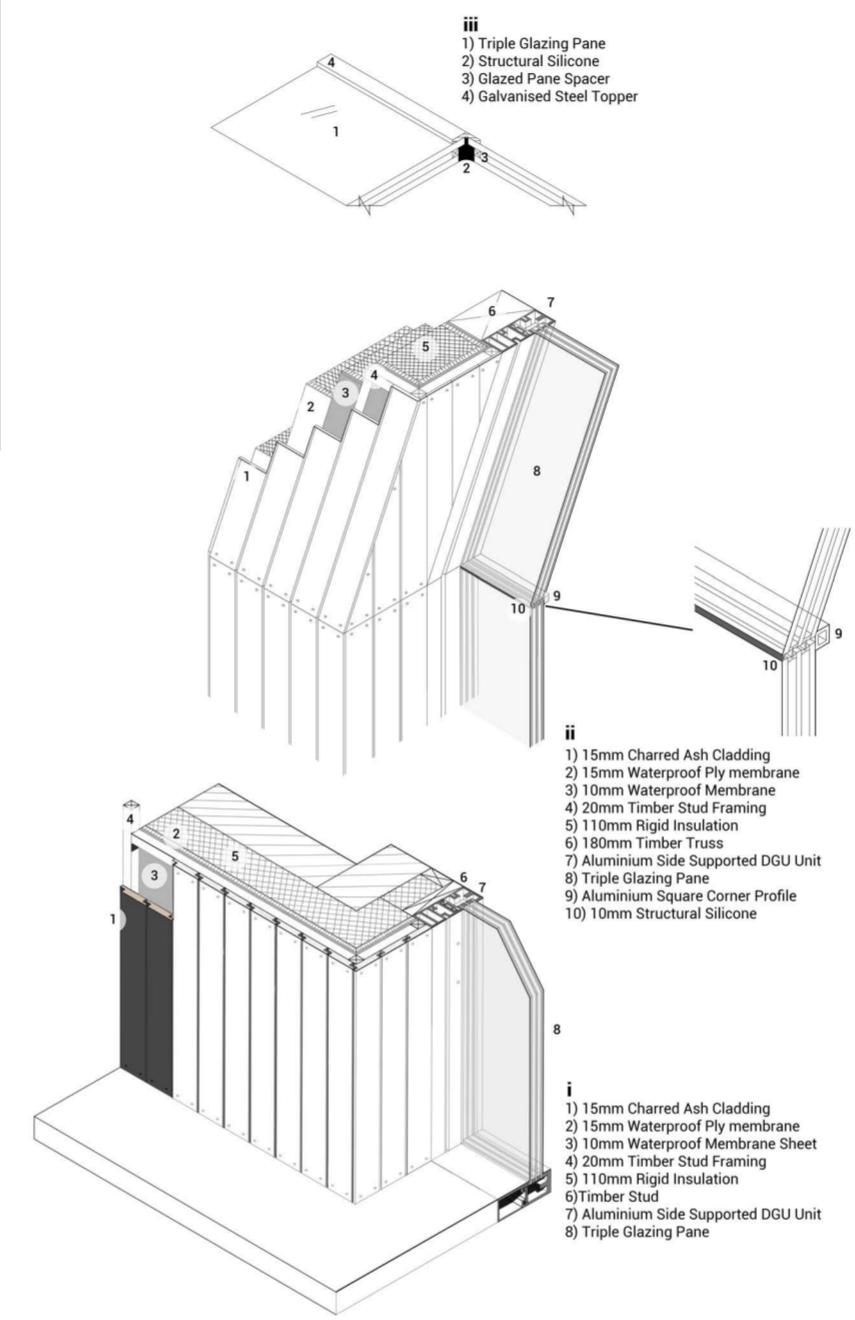
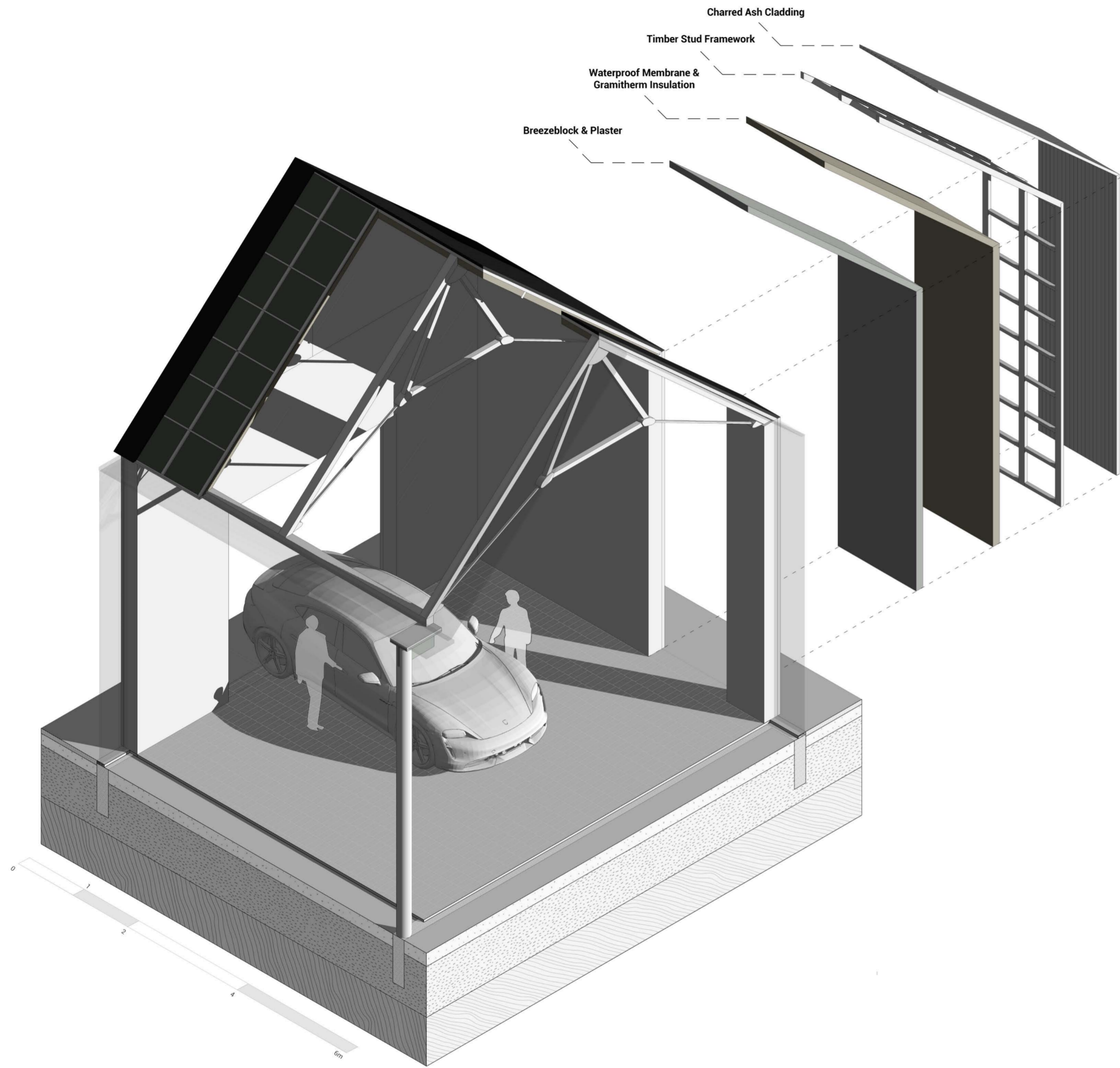
The car is checked by the workers to ensure quality control is followed

Car passes through third stage where the electric motor and batteries are installed.

Car passes through second stage, where the transmission and exhaust are removed

Car passes through first stage, stripping it of its engine, and fuel storage. This is transported out the building through portable storage racks

Conventional car enters conversion centre



The project 'Clean Swap' addresses the future of converting combustion vehicles into electric by reusing the chassis. Additionally, it proposes a future for interiors as it incorporates robotics into the design and conversion process, making human interaction minimal, following in the footsteps of the automotive creation industry. The design started by addressing the measurements and maximum outreach needed for the mechanical arms to operate on the existing site, thus identifying where to expand and how a new roof was needed to provide unobstructed, free flowing space to move. The glass facades also provided humans to have a viewing threshold to see the process as the cars were converted, creating a clinical space inside but also a physical threshold between humans vs the future of robotics. A glass gutter also provided a solution to rainwater collection and recycling in an effective way.