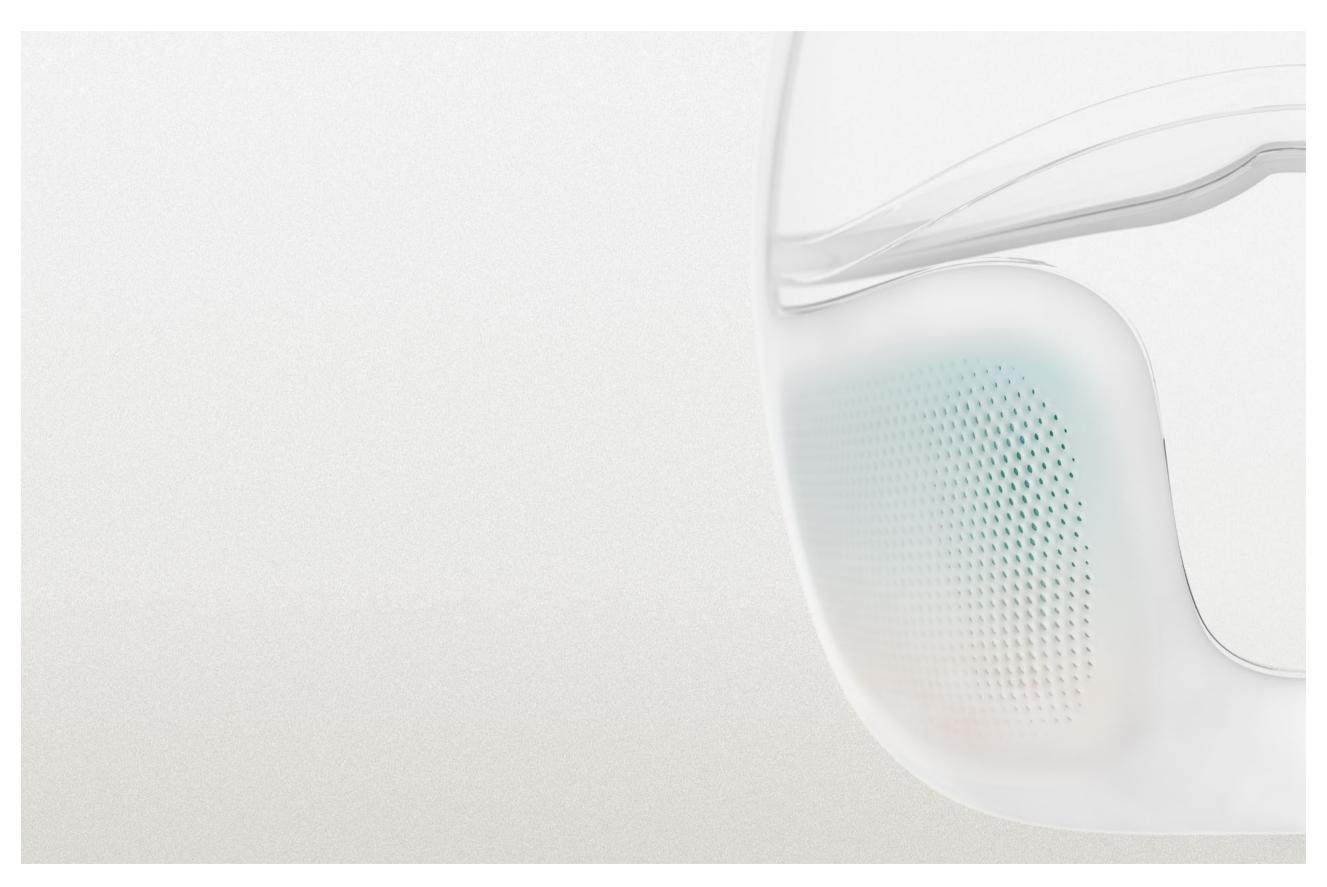




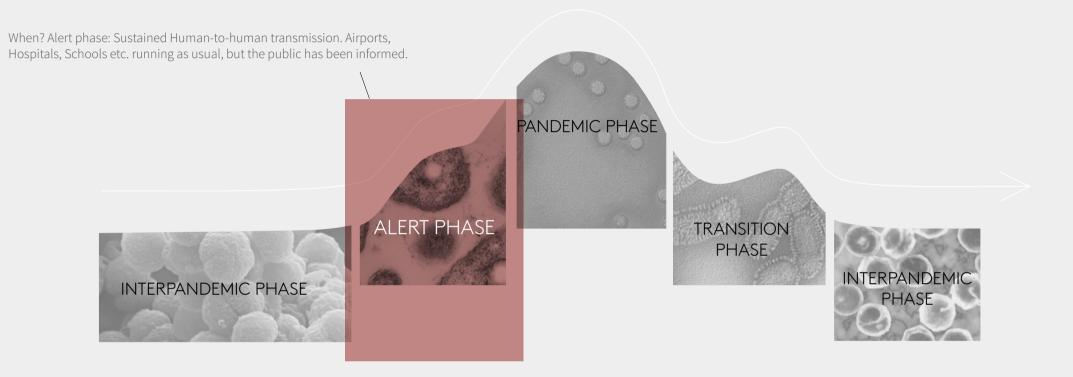
Radically increased mobility among humans, our treatment of animals and climate changes have increased the frequency of epidemics and the probability that a novel or mutated virus can spread rapidly.



PROTECTION GEAR AGAINST AIRBORNE DISEASES. A disease is classified as airborne when pathogens are able to be transmitted from one person to another through the air. The ways of transmission can occur through inhaling contaminated aerosols, by close contact or by touching your own face and eyes. The latter being something which has been overlooked in most respirators.



The biggest threats are in the confined and crowded spaces. These places with a higher risk of transmission are those where casual exposure to an infected individual can easily occur, such as when sitting close together in an airplane, waiting room or sharing a taxi. We touch our faces several hundreds times a day. Touching the mucous membranes of the nose, mouth and eyes is a possibility for transmission and acquisition of a range of infections.





Delaying the entry of a virus into the population by protecting those who work with a higher risk of exposure and transmission, which is specially important during a pandemic alert phase. How? By using exisiting materials and technologies the aim is to improve the effiency and lessen the risks which today's respirators has. A main focus on the emotional response, leakage, face touching and communication.

TARGET



PROBLEMS

OFTEN MISTAKEN AS A RESPIRATOR

(ONLY PREVENTS USERS FROM AEROSOLIZING DROPLETS)

DOES NOT PREVENT CONTACT TRANSMISSION

MOLDABLE EDGES ARE NOT ADEQUATELY SEALABLE

DIFFICULTIES TALKING AND BREATHING

ONLY FULL FACE PROTECTS AGAINST ALL THREE WAYS OF TRANSMISSION, HOWEVER VERY SENSITIVE TO FIT

NEEDS TO BE FIT TESTED

DIFFICULTIES TALKING & BREATHING.

UNCOMFORTABLE

AGGRESSIVE AESTHETICS

GOALS

COMPLETELY SEALED EDGES BY ADHESIVE STRETCHABLE SILICONE

FACILITATE COMMUNICATION BY NOT OBSTRUCTING THE MOUTH

FULL FACEPIECE WITH SEPARATE EYE SECTION

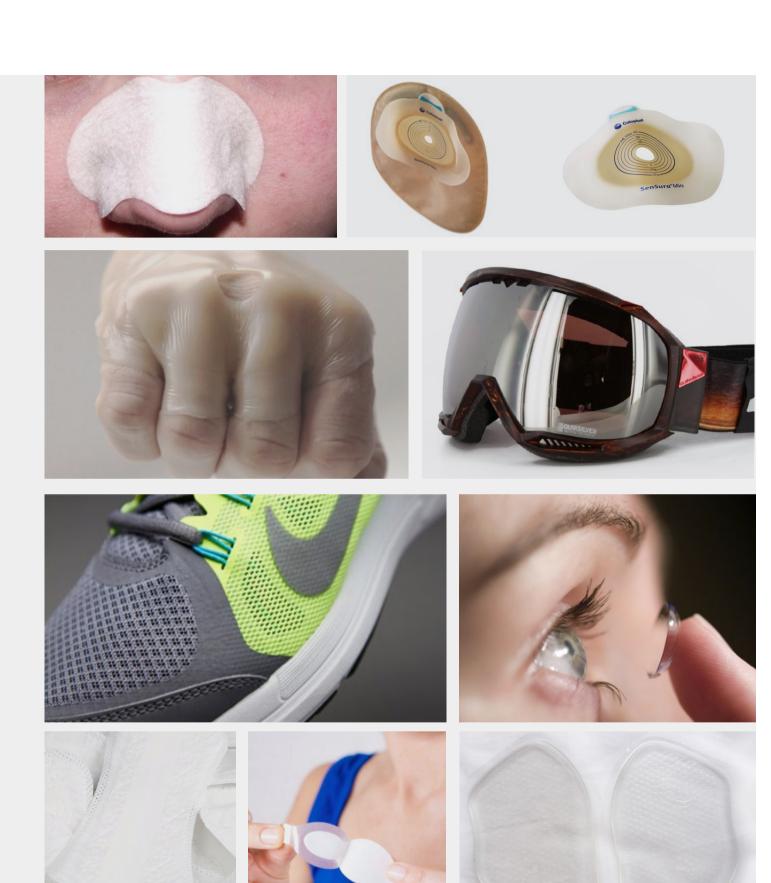
MOUTH SECTIONS COATED WITH ANTI-FOG AGENT

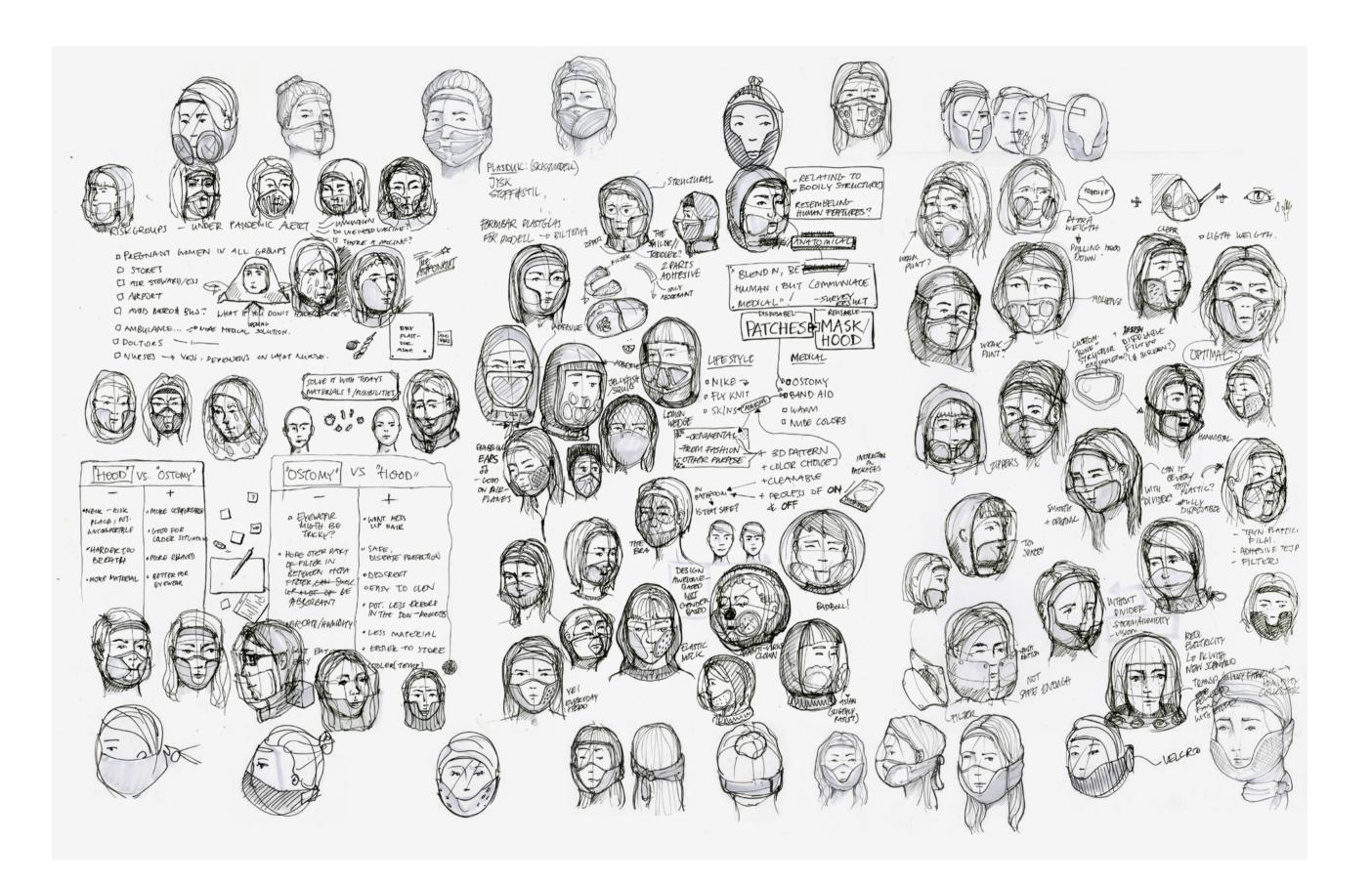
DISPOSABLE FILTER

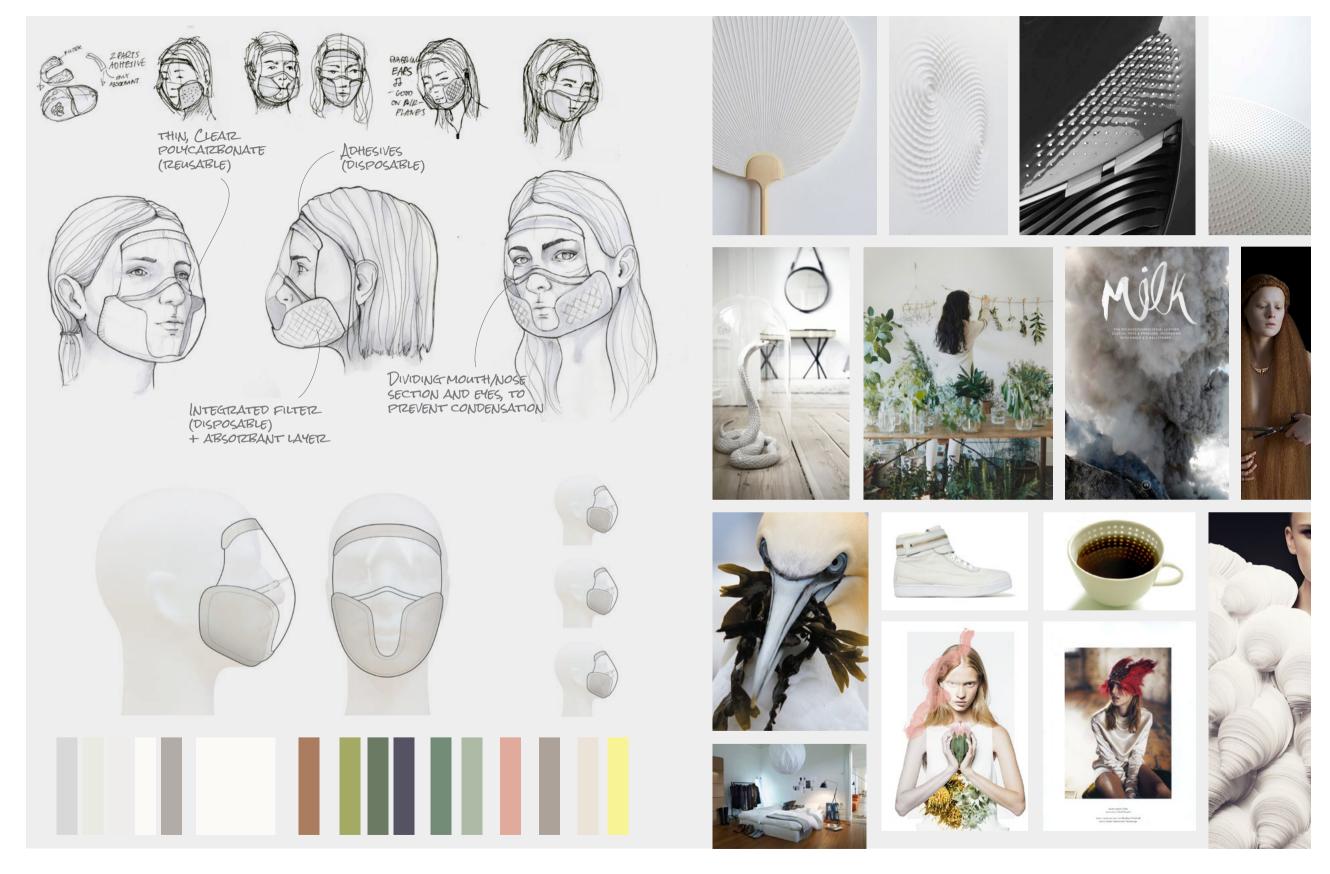
REUSABLE MASK WITH A LIMITED LIFE CYCLE

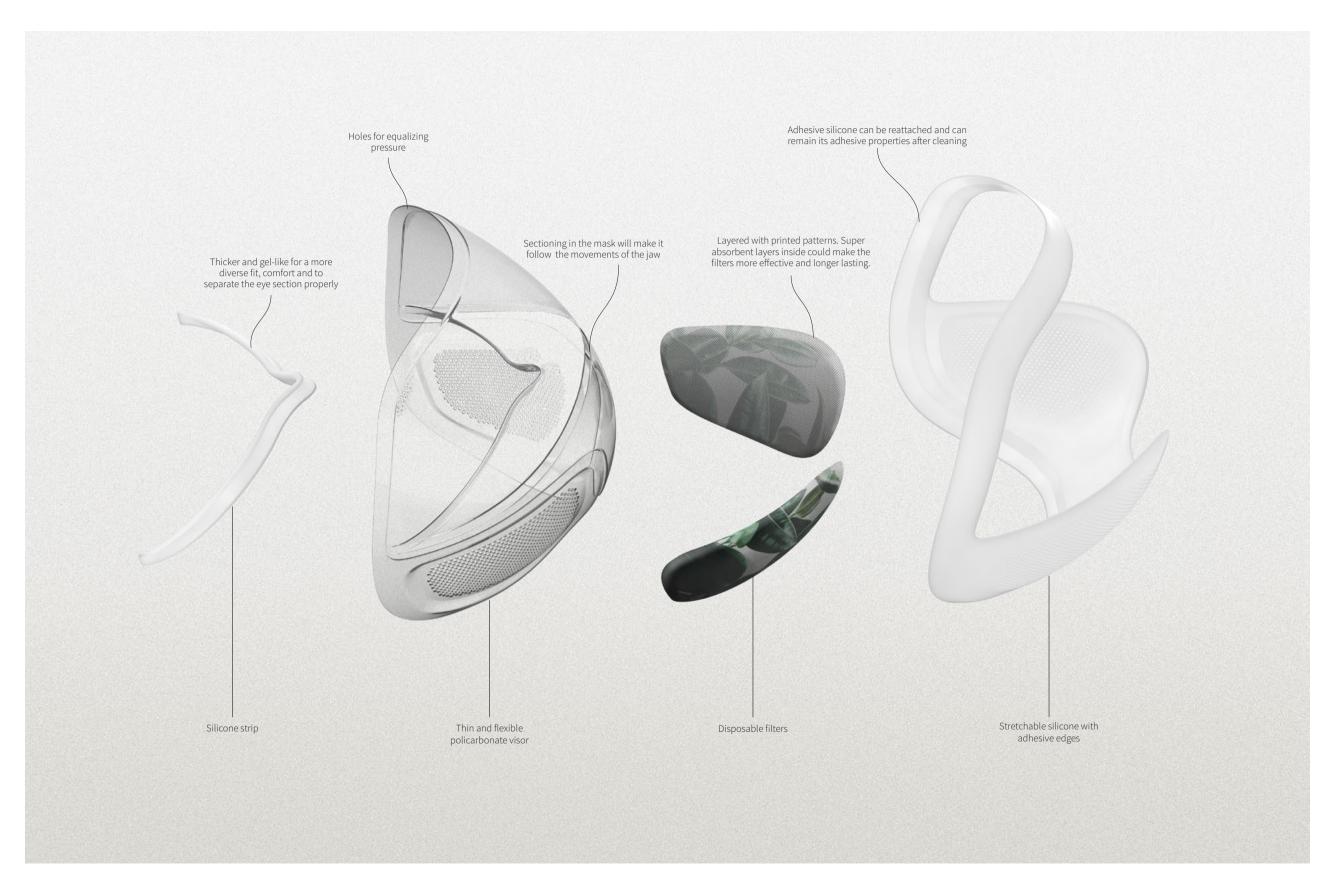
INVOKE A ROUTINE OF DISINFECTION AND HAND-HYGIENE DURING DONNING & DOFFING

SECTIONING THE MASK AND THE USE OF STRETCHABLE SILICONE WILL MAKE IT ADJUST TO THE MOVEMENT OF THE JAW

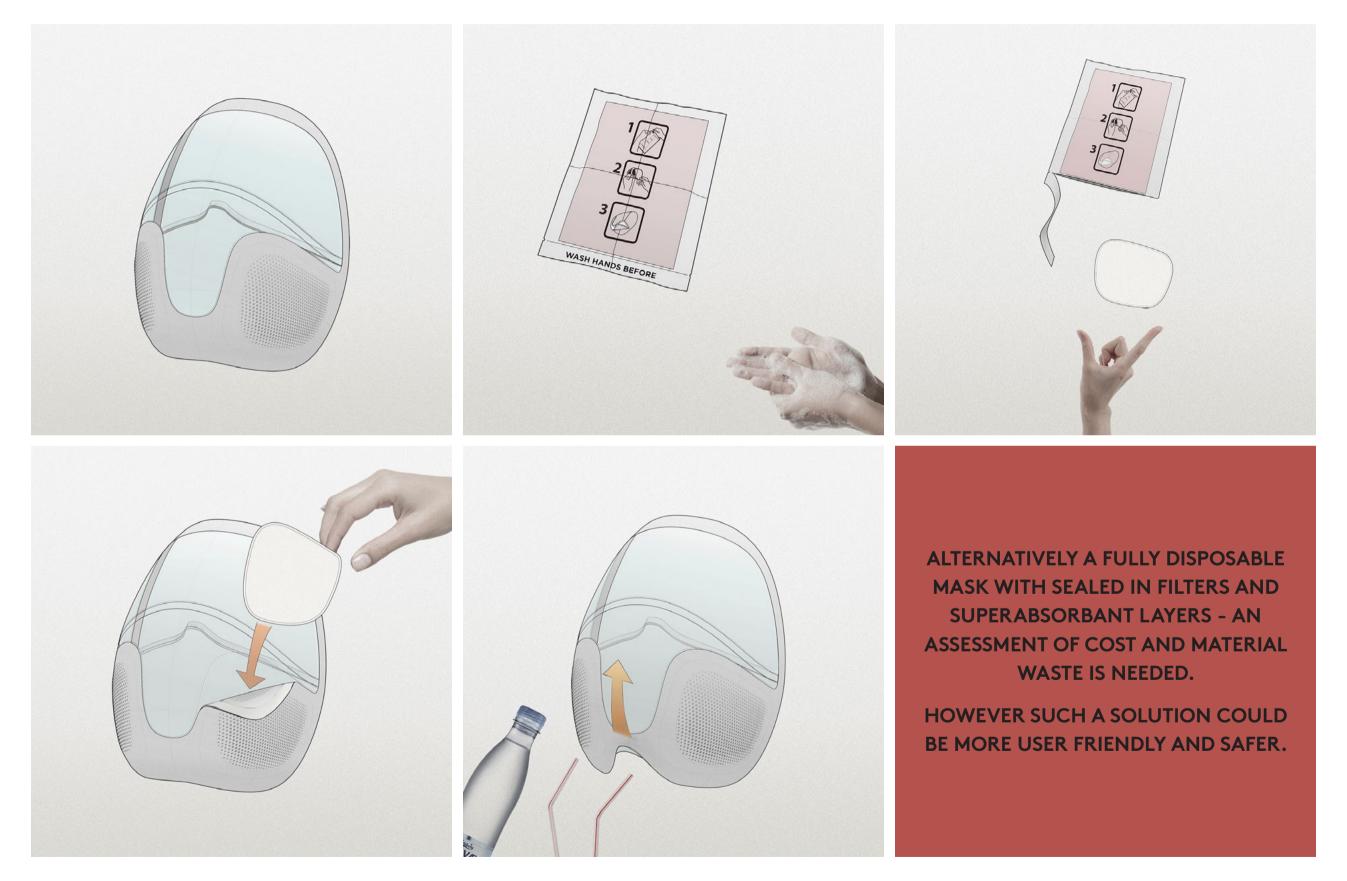








The reusable and full facepiece respirator with disposable filters prevents the three ways of transmission: inhalation of aerosols, droplet and contact. It consists of a light plastic visor which is combined with adhesive and stretchy silicone. The soft and gentle adhesive edges makes it more effective and safe than disposable respirators by completely sealing the edges to the face.



Adhesive silicone is reattachable and reusable. This also prohibits casual and easy donning and doffing, which is associated with a higher risk of user error and contracting diseases. This user scenario instead requires the use of a mirror and sink and the donning and doffing therefor encourages a ritual of adequate hygiene of both hands and respirator.



