

POLITECNICO DI TORINO  
Repository ISTITUZIONALE

Zefiro - Technology and Innovation against Covid-19

*Original*

Zefiro - Technology and Innovation against Covid-19 / Valpreda, Fabrizio; Alessio, FABRIZIO GIORGIO; Dentis, Alessandro; Aulizio, Asja; Bellisario, Stella; Bortolotti, Dario; Bruno, EVA VANESSA; Campanella, Alessandro; Cappa, Francesca; Gargiulo Pozzo, Marta; Mercenati, Davide; Rovera, Fabiana. - ELETTRONICO. - (2021). (Intervento presentato al convegno World Heritage and Design for Health - Le Vie dei Mercanti XIX International Forum tenutosi a Napoli - Capri nel 17-19 giugno 2021).

*Availability:*

This version is available at: 11583/2972293 since: 2022-10-13T19:00:31Z

*Publisher:*

Benecon

*Published*

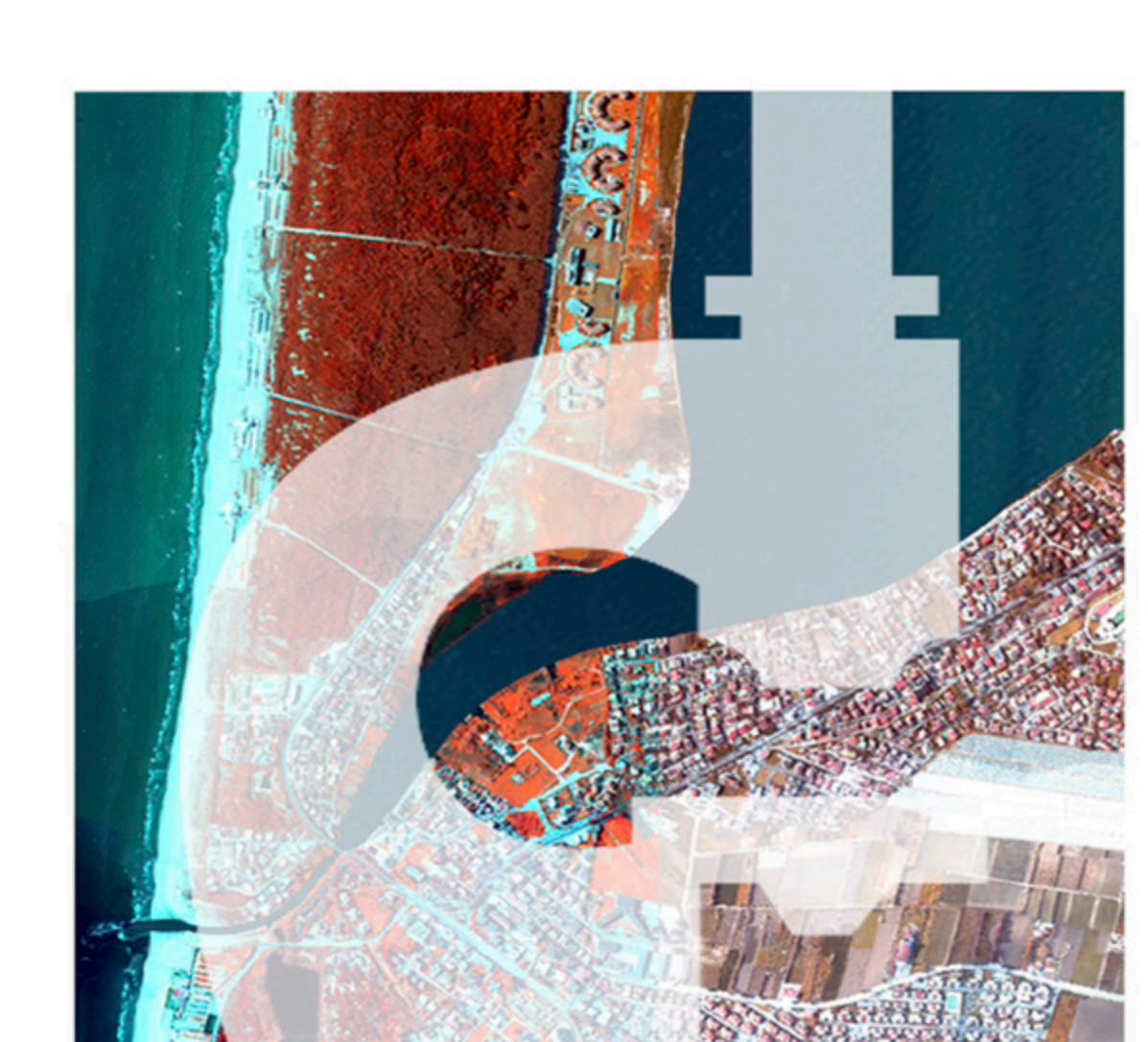
DOI:

*Terms of use:*

This article is made available under terms and conditions as specified in the corresponding bibliographic description in the repository

*Publisher copyright*

(Article begins on next page)



# WORLD HERITAGE and DESIGN for HEALTH

ARCHITECTURE | CULTURE | HEALTH | LANDSCAPE | DESIGN | ENVIRONMENT | AGRICULTURE | ECONOMY | TERRITORIAL GOVERNANCE | ARCHEOLOGY | SURVEY | HERITAGE | e-LEARNING

Le Vie dei  
Mercanti

## XIX INTERNATIONAL FORUM

Naples 17 - Capri 18 | 19 June 2021

World Heritage and  
Design for Health  
XIX INTERNATIONAL FORUM  
NAPLES 17 - CAPRI 18|19 JUNE 2021



### Zefiro

Technology and Innovation against Covid-19



#### Concept: the electro-ventilated mask

Zefiro is an electro-ventilated mask made up of **custom designed elements** and other **widely-available components**.

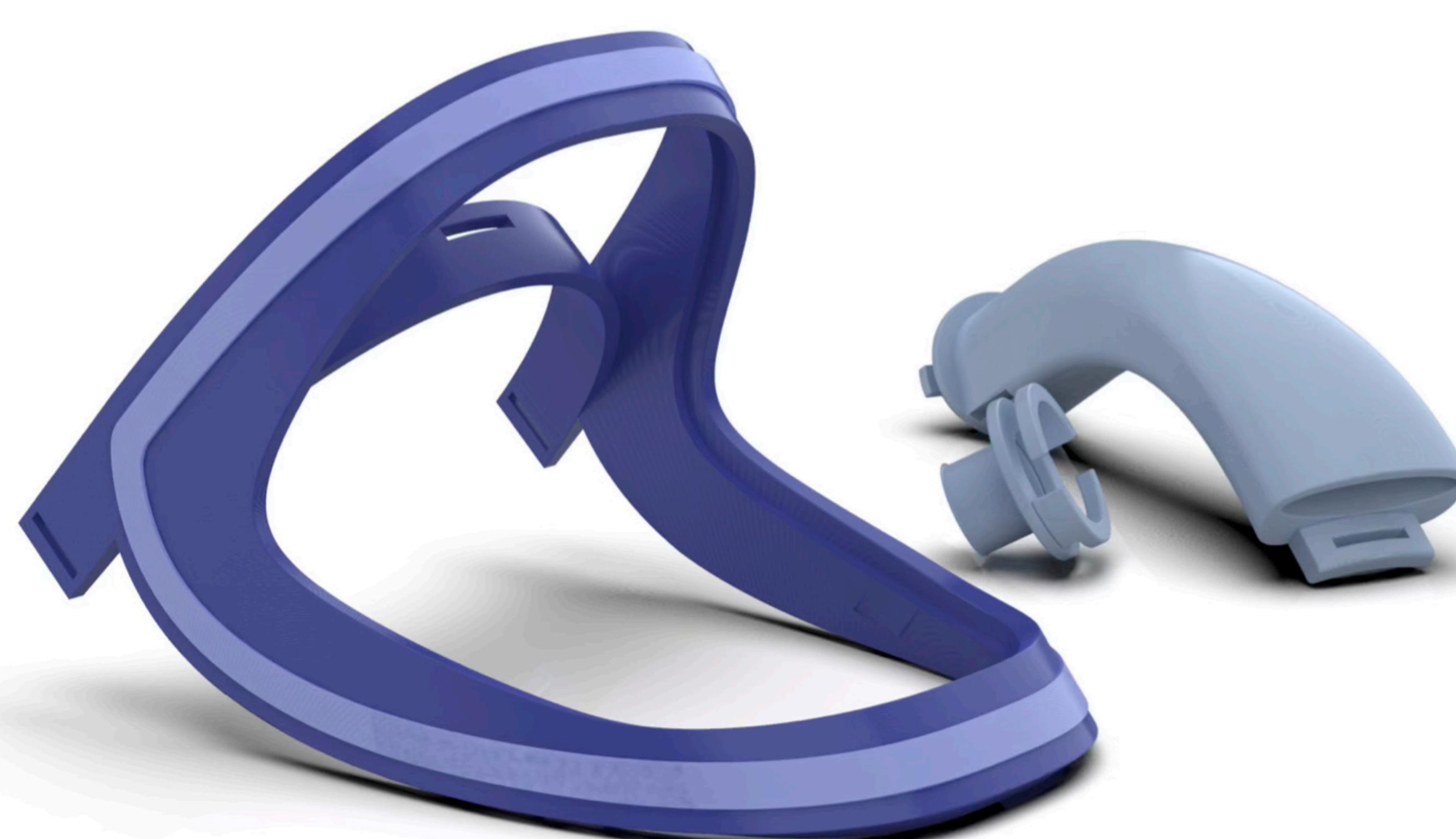
Specifically, the **frame** has been designed as structural element that ensures the correct positioning of the mask.

The other **standard components** perform the functions of isolation and individual protection, as well as introducing air into the mask.

#open source

#co-design

#sustainable development

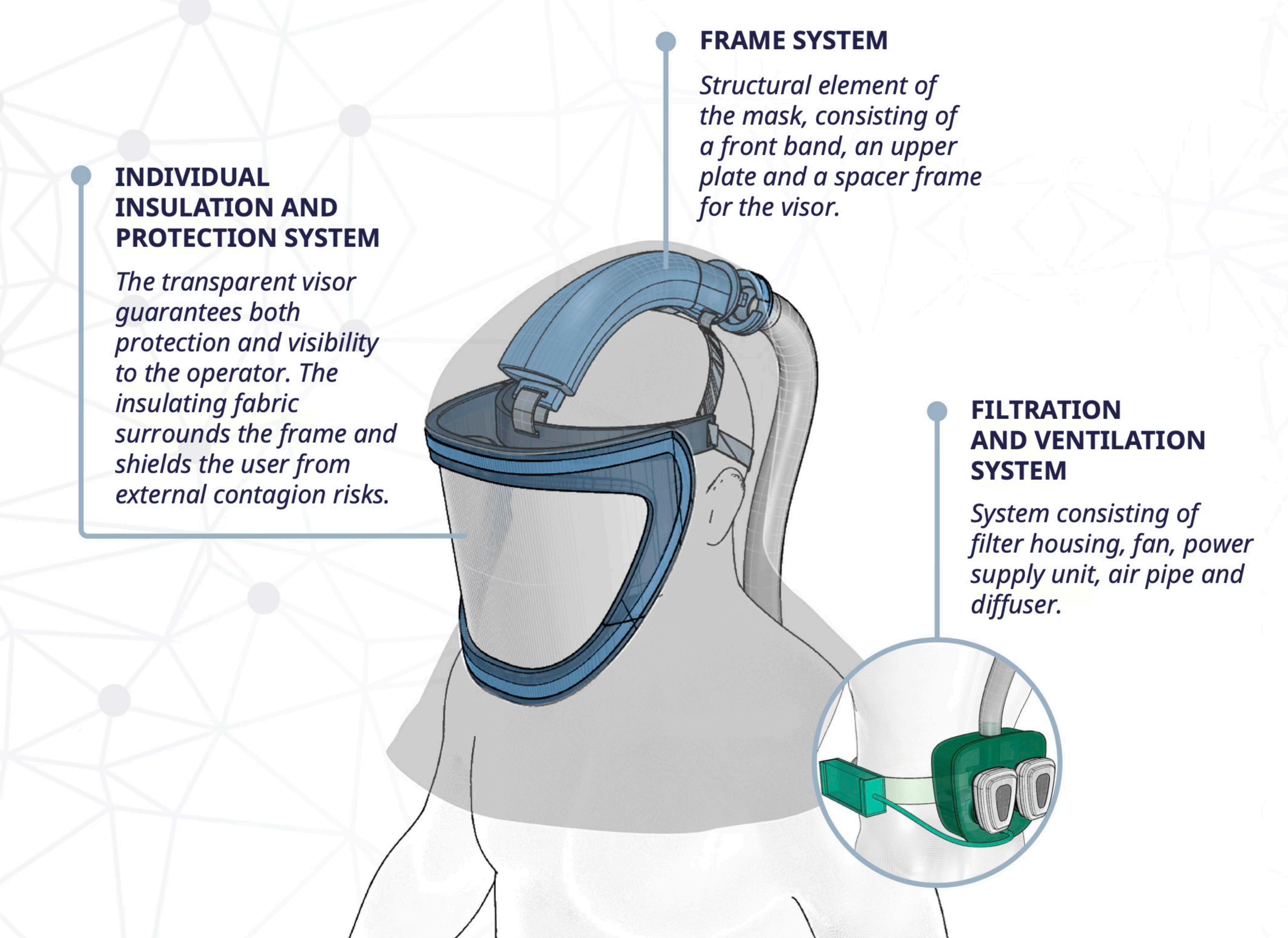


#### Project guidelines

- Sanitizable
- Resistant
- Scalable
- Comfortable
- Less components

#### Project

##### The functional groups



##### The designed components



#### Exploded view



#### This is us

Zefiro was born from the collaboration of a multidisciplinary team, composed of **Designers**, **with different areas of specialization**, and **Engineers**, who decided to join their forces to face one of the many challenges that emerged during the initial moments of the Covid-19 pandemic.

**Supervisors:**  
F. Valpreda, F. Alessio, A. Dentis



**Designers, Engineers and Makers:** A. Aulizio, S. Bellisario, D. Bortolotti, E. V. Bruno, A. Campanella, F. Cappa, F. Citarda, M. Gargiulo Pozzo, D. Mercenati, R. Montarolo, F. Rovera

