



Coronavirus Makers PAPR Task Force

Powered Air Purifying
Respirators for healthcare
personnel

*Work safe
Work comfortably
Work better*

#EUvsVirus
challenge

can you hack it?



PROBLEM

Infected Healthcare workers	UK 16%
	Italy 20%
	Spain 20%

Lack of PPE	No FFP2/3 available
	PAPR expensive (>1600e/u)

Production	No European production
	No patent free designs

SOLUTION & IMPACT

Solution

- Open-source (design, electronics, textile)
- Low cost (<200e)
- Easy to manufacture (DIY and industry)
- Accomplish EU PPE directives

Impact

- PPE reusable and available for healthcare workers
- Local production (no EU-external dependency)
- Alternative uses: terrorist attacks (chemical & bio)

DURING HACKATHON

Mentor

- Support for electronics design (improvement)
- Support for turbine design (DIY vs manufactured)
- License type (open-source + commercial?)

Team

- Fabrics methodology
- Key objectives in timeline
- Economic needs

TEAM

Leader

Ernesto Gutiérrez

Electronics & Soft

Toni Lupiáñez, Sergio Forcen

3D Design

Raul Moreno, Ernesto Gutiérrez

Fabrics

Alvaro Jansà, Ernesto Gutiérrez

Technical requisites

Juan Antonio Güeto

Economic requisites

Alvaro Jansà

Media Design & UX

Sergio Forcen

ACTION PLAN

