

ip.vest

OBJECTIVES

Develop multi-functional textile structures with intelligent hybridization for technical and functional multi-risk protection clothing purposes, as well as sensing, hardware and firmware control, interface system and software and data transmission system focused on ICT (Information and Communication Technologies) and Energy industries professionals.

CONCEPT

Intelligent multi-risk protective clothing system, featuring integrated sensor system to increase user protection, in order to prevent and reduce health and safety issues.

PROTECTION

- Ventilation
- Thermal regulation
- Moisture management
- Lightweight
- Dirty repellency
- High-visibility
- Wind, rain and bad weather conditions
- Breathability
- Tear resistance
- Heat and flame resistance
- Electrical hazards protection
- Molten metal splash protection
- Chemical resistance

SENSORS AND COMMUNICATION

- Temperature sensor
- Moisture sensor
- Electromagnetic radiation sensor
- Biometric parameters sensor
- Communication system

+ PROTECTION | + FUNCTIONALITY | + ERGONOMICS

Consortium:

scoop

VIATEL

citeve

CEINTI
Centre for Nanotechnology
and Smart Materials

Co-Funding:

COMPETE
2020
PROGRAMA OPERACIONAL COMUNITARIO DE INTERACAO

PORTUGAL
2020
FUNDO EUROPEU DE DESENVOLVIMENTO REGIONAL

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