Objective

In the Prospie project a new generation of work wear will be developed and produced. Special features of the work wear will be a dynamic cooling system in order to prevent workers from hyperthermia, smart interfaces for measuring essential physical parameters of workers and their work place and the data processing resulting in the swift identification of (potential) dangerous situations. The data processing will be based on algorithms which take personal aspects of the worker into consideration. When critical limits are exceeded, the worker will be alerted by (tactile) actuators. In case there is no reaction, rescue workers will be alerted. The personal safety system provided by the work wear will become an integrated part of industrial safety systems. In the project much attention will be paid to the safety of the worker, the comfort of the work wear(thermo-physiological and ergonomic) , the reliability of the smart functions, the production technology, care and maintenance, training of users and potential buyers (public procurement) and standardization issues concerning this new generation of PPE. The Prospie-project will support the EU in realizing the goals set in the EU-leadmarket initiative on protective clothing and strengthen the position of the EU-textile and clothing industry. Most important however is the expected reduction of work related accidents through the early warning system in potential dangerous situations, resulting in a substantial reduction of accidents related absence from work, disturbance in production processes and the increased productivity of workers in (hot) industrial environments. It is expected that the results of the Prospie project can be transferred to other sectors like first responders (fire men police, para-medicals), sports and healthcare for elderly and patients in nursing houses.

Related information

Result In Brief

Smart underwear for safety at work

Report Summaries

Periodic Report Summary - PROSPIE (Protective Responsive Outer Shell for People in Industrial Environments)
Coordinator

NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO
ANNA VAN BUERENPLEIN 1
2595 DA DEN HAAG
Netherlands
EU contribution: EUR 772 582
See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Jan Brouwer
Tel.: +31 346 356283
Fax: +31 34 635 39 77
Contact the organisation

Participants

Capzo International BV
De Mors 112
7631AK Ootmarsum
Netherlands
EU contribution: EUR 64 292,40

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Herman Reezigt
Tel.: +31 541294946
Fax: +31 541294446
Contact the organisation

Henk Vanhoutte Consulting
Bavikhoofsestraat 190
8531 Harelbeke
Belgium
EU contribution: EUR 80 800

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Henk Vanhoutte
Tel.: +32 56 37 04 79
Fax: +32 56 37 04 79
Contact the organisation
IFAK SYSTEM GMBH
OSTSTRASSE 18
39114 MAGDEBURG
Germany

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Administrative contact:** Thorsten Szczepanski
Tel.: +49391544563-10
Fax: +49391544563-99

Contact the organisation

---

I.CO.P. SPA
VIA SILVIO PELlico 2
33031 BASILIANO
Italy

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Administrative contact:** Giovanni Coletti
Tel.: +39-0432-838611
Fax: +39-0432-838681

Contact the organisation

---

RINA CONSULTING SPA
VIA SAN NAZARO 19
16145 GENOVA
Italy

**Activity type:** Other

**Administrative contact:** Laura Bertolucci
Tel.: +39-010-3628148
Fax: +39-010-3621078

Contact the organisation

---

EIDGENOSSISCHER MATERIALPRUFUNGS- UND FORSCHUNGSANSTALT
UEBERLANDSTRASSE 129
8600 DUBENDORF
Switzerland

**Activity type:** Higher or Secondary Education Establishments

**Administrative contact:** Rene Rossi
Tel.: +41 71 274 77 65
Fax: +41 71 274 77 62

Contact the organisation
LOUGHBOROUGH UNIVERSITY
ASHBY ROAD
LE11 3TU LOUGHBOROUGH
United Kingdom
See on map

Activity type: Higher or Secondary Education Establishments

Administrative contact: Louise Denniff
Tel.: +44 1509 222232
Fax: +44 1509 223953
Contact the organisation

HUMANIKIN GMBH
Lerchenfeldstrasse 5
9014 St Gallen
Switzerland
EU contribution: EUR 170 400

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Mark Gladwyn Morgan Richards
Tel.: +41-71-2747772
Fax: +41-71-2747504
Contact the organisation

LITHUANIAN TEXTILE INSTITUTE
DEMOKRATU G 53
48485 KAUNAS
Lithuania
EU contribution: EUR 97 760

Activity type: Research Organisations

Administrative contact: Ausra Abratiene
Tel.: +37037308666
Fax: +37037308668
Contact the organisation

JSC PAKAITA
Jovaru Str. 5
LT-47192 Kaunas
Lithuania
EU contribution: EUR 64 260

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Linas Kudlinskas
Tel.: +370 37 302824
Fax: +370 37 302833
Contact the organisation
PALEMONO KERAMIKA AB
Pamario 1
LT-52265 Kaunas
Lithuania

EU contribution: EUR 19 080

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Povilas Drulia
Tel.: +37037373551
Fax: +37037373770
Contact the organisation

Merford Cabins B.V.
Ambachtsweg 7
2964 LG Groot-Ammers
Netherlands

EU contribution: EUR 34 200

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Daan Potters
Tel.: +31 184 606 000
Fax: +31 184602794
Contact the organisation

ErgonSim Inh. Dusan Fiala
Holderbuschweg 47
70563 Stuttgart
Germany

EU contribution: EUR 170 400

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Dusan Fiala
Tel.: +49-0160-8587262
Contact the organisation

FORITAS
Ugnes 19
47102 Kaunas
Lithuania

EU contribution: EUR 34 440

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Gediminas Mikulenas
Tel.: +370 37 339444
Fax: +370 37 332144
Contact the organisation
BEL-CONFECT SA
AVENUE DU BOIS JACQUET 9
7711 DOTTIGNIES
Belgium

**EU contribution:** EUR 103 500

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Administrative contact:** Filip Lietaer
Tel.: +3256644367
Fax: +32/56646433

[Contact the organisation]

**Subjects**

Safety - Security - Social sciences and humanities

**Last updated on** 2017-05-25  
**Retrieved on** 2019-07-02

**Permalink:** [https://cordis.europa.eu/project/rcn/94125_en.html](https://cordis.europa.eu/project/rcn/94125_en.html)

© European Union, 2019