

## Technology Offer

# Smart (heated) clothes for leisure-time, outdoor sports, professionals and health care

## Summary

*An innovative German start-up specialized in integrated software and hardware solutions for the apparel/clothing industry offers high-quality smart heated products. Being seamlessly integrated in the garment, a tiny circuit board enables a rapid heating, controlled by a customized software. Products can be used in the fields of fashion, leisure-time, outdoor sports, health care or at the workplace. The company is looking for commercial agreements with technical assistance and licence agreements.*

<b>Creation Date</b>	01 March 2018
<b>Last Update</b>	12 March 2018
<b>Expiration Date</b>	13 March 2019
<b>Reference</b>	TODE20180301001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/f4d09160-269a-4d1c-bd30-f109a376e45d">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/f4d09160-269a-4d1c-bd30-f109a376e45d</a>

## Details

### Description

The company focuses on integrated soft- and hardware solutions for the apparel industry, ensuring interoperability and connectivity for different Internet of Things (IoT) products and services. It offers customized smart apparel fabrics and required components as well as connectivity services for clothing items such as footwear, gloves, jackets and headwear. The company aims to support the digitalization of clothing and wearable industry in a fast growing smart apparel market. It is open to develop individual solutions for potential partners.

The technology behind this smart (heated) apparel can be applied to different sectors, including the following:

- fashion and leisure industry
- outdoor sports (e.g. horse riding, winter sports, golfing, fishing, hunting, motorcycling, mountain biking, hiking etc.),
- working (construction, offshore, cold stores, paramedics, police, defence forces, etc.),
- health care (e.g. therapeutics).

In order to expand its business and develop new products and services, the company seeks partners for commercial agreements with technical assistance as well as licence agreements. With regard to commercial agreements, the company offers support for design and development of intelligent heated systems. This applies to individual components as well as complete product solutions. Concerning licence agreements, the company offers software solutions to connect

different garment components.

Being an innovative and ambitious start-up, the company shows extensive know-how in the fields of soft- and hardware integration for smart apparel. Its staff members gathered relevant experience in tech companies and designed, developed and successfully launched different smart heated apparel products.

## Advantages and Innovations

Smart heated products can be applied to different sectors. Furthermore, the products introduce new possibilities for sectors with special needs such as certain work places (construction, offshore, cold stores, paramedics, police, defence forces, etc.) or health care (e.g. therapeutic devices and applications). That way, outdoor activities in cold regions can be pursued independently from the weather.

The technology is already applied to different products. Advantaged include:

- Intuitive system usability
- Seamless integration of hard- and software
- Data visualisation and feature control via mobile application on the smart phone
- Customization of the mobile application (front- and backend), electronics and battery modules as well as the respective garments
- Clothing features such as breathability, water resistance, wind proof etc.
- High safety standards of the electronic components with additional water proof, shock and fire resistant case
- Certifications such as CE EMC, RoHS, REACH, RED, LVD, IEC 62133 etc. are already in place for dedicated modules (further certifications can be applied upon request).

Unlike competitors, the company offers an integrated approach that combines the necessary hardware, including electric parts as well as the design and adjustment of apparel fabrics, with an essential software. Therefore, the company is one of a few that offers customized smart apparel. The products can be easily controlled, e.g. by a special software that can be installed on a regular smart phone.

## Stage of Development

Already on the market

## Comments Regarding Stage of Development

The company has already launched and successfully sold several product to the European market. The technology has been proven by the customers and is continuously upgraded by the team.

## IPR Status

Secret Know-how, Trade Marks

## Profile Origin

Other

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## Keywords

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### Technology

01003018	User Interfaces, Usability
01003022	Smart Appliances

01003025 Internet of Things  
01004001 Applications for Health  
03003 Apparatus Engineering

## Market

02007007 Applications software  
03008004 Other electronics related (including alarm systems)  
07001004 Sporting goods, hobby equipment and athletics clothes  
07004001 Clothing, shoes and accessories (including jewellery)  
07004002 Health and beauty aids

## NACE

C.14.1.2 Manufacture of workwear  
C.14.1.3 Manufacture of other outerwear  
C.14.1.9 Manufacture of other wearing apparel and accessories  
J.61.2.0 Wireless telecommunications activities

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## Network Contact

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### Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

### Contact Person

Vera Lullo

### Phone Number

+39 0516398090

### Email

vera.lullo@aster.it

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**Open for EOI :** **Yes**

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME <= 10

**Year Established**

0

**Already Engaged in Trans-National Cooperation**

No.

**Certification Standards**

other

**Languages Spoken**

English  
German

**Client Country**

Germany

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**Partner Sought**

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**Type and Role of Partner Sought**

The company seeks partners from industry and corporates. Partners can be active in

- fashion / leisure industry
- outdoor sports (e.g. horse riding, winter sports, golfing, fishing, hunting, motorcycling, mountain biking, hiking etc.),
- working (construction, offshore, cold stores, paramedics, police, defence forces, etc.),
- health care (e.g. therapeutic devices and applications).

This applies to both types of partnerships.

**Type and Size of Partner Sought**

SME 11-50, SME <10, >500 MNE, 251-500, SME 51-250, >500

**Type of Partnership Considered**

License agreement  
Commercial agreement with technical assistance

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**Attachments**

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glove features (removed logo).jpg

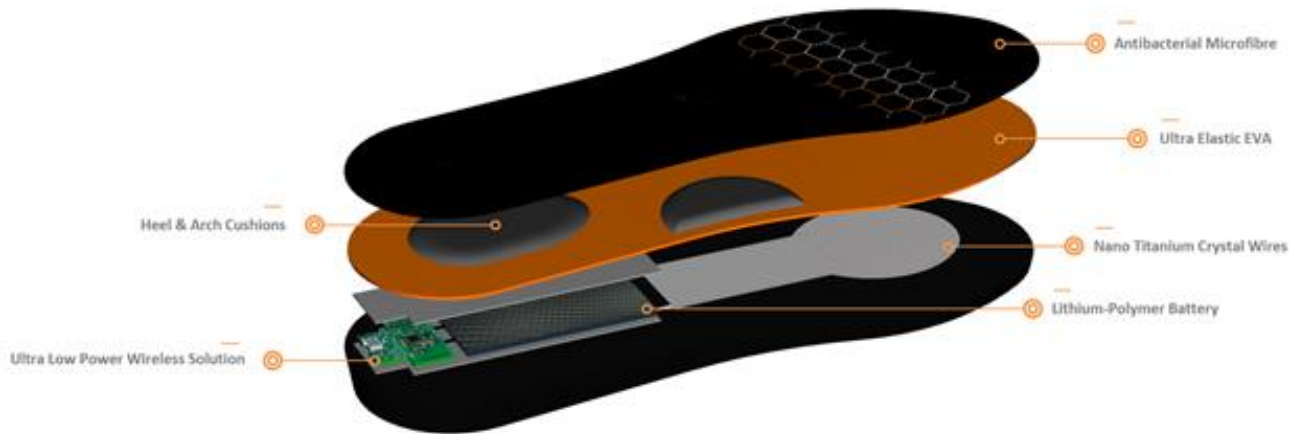


Mobile app - warm feet.jpg



Insoles C-Line components (removed logo).jpg





## Technology Offer

# Authors from Belarus seek partners for financial agreement or joint venture to promote a new sports and entertainment game

## Summary

*Authors from Belarus have developed a new team sports and entertainment game that combines game sports and martial arts. The game is regulated by a set of rules and includes unique technical solutions. Authors seek partners for financial agreement or joint venture to establish a federation for this game and its promotion.*

<b>Creation Date</b>	11 August 2017
<b>Last Update</b>	24 August 2017
<b>Expiration Date</b>	24 August 2018
<b>Reference</b>	TOBY20170811002
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/89fc24bd-56eb-4f1b-90dc-46b12ccf2dc6">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/89fc24bd-56eb-4f1b-90dc-46b12ccf2dc6</a>

## Details

### Description

Belarusian authors involved in martial arts more than 10 years have developed a new team sports and entertainment game. The new game in contrast to existing games combines game sports and martial arts.

The event takes place in the style of a show, in which compete two teams (4 players each) consisting of experienced athletes. The playing field has a shape of a diamond limited by a 3 meters grid guard. Each team try to enter the opponent's zone and to score points by throwing a diamond shaped ball into the opponent's gates. Use of martial arts is allowed on player possessing the ball, with the exception of prohibited techniques specified in the rules. The game continues three 10 minutes periods.

The peculiarities and requirements of spectators, athletes and rapidly developing areas of gaming and combat sports are taken into account.

The authors are interested in cooperation with business partners in a form of financial agreement or joint venture agreement.

Financial agreement

Field of partner's activity: organisation of sports events/shows.

Role of a partner sought: purchase of intellectual property rights, financing of demonstration



games for proposed team sports and entertainment game, establish a federation for the game.

Joint venture agreement

Field of partner's activity: organisation of sports events/shows.

Role of a partner sought: financing of joint venture activities, promotion of proposed team sports and entertainment game, establish a federation for the game.

## Advantages and Innovations

- The game harmoniously combines game sports and martial arts;
- The game uses original playing field and sports equipment;
- The game covers a wide range of audiences, participants and viewers.

## Stage of Development

Available for demonstration

## Comments Regarding Stage of Development

Organisation of a full-length demonstration game in Belarus requires ca. 100 000 EUR to prepare a patented playing field and related equipment.

## IPR Status

Patent(s) applied for but not yet granted, Trade Marks

## Profile Origin

Private (in-house) research

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## Keywords

### Technology

11007 Sports and Leisure

### Market

07001002 Amusement and recreational facilities

07001004 Sporting goods, hobby equipment and athletics clothes

### NACE

N.80.1.0 Private security activities

O.84.2.4 Public order and safety activities

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## Network Contact

### Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

### Contact Person

Vera Lullo

**Phone Number**

+39 0516398090

**Email**

vera.lullo@aster.it

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**Open for EOI :**   **Yes**

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**Dissemination**

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**Send to Sector Group**

Creative Industries

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**Client**

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**Type and Size of Organisation Behind the Profile**

Inventor

**Year Established**

0

**Already Engaged in Trans-National Cooperation**

No.

**Experience Comments**

Belarusian authors involved in martial arts more than 10 years.

**Languages Spoken**

English  
Russian

**Client Country**

Belarus

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**Partner Sought**

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**Type and Role of Partner Sought**

Financial agreement

Type of partner sought: business

Field of partner's activity: organisation of sports events/shows.

Tasks to be performed: purchase of intellectual property rights, financing of demonstration games for proposed team sports and entertainment game, establish a federation for the game.

Joint venture agreement

Type of partner sought: business

Field of partner's activity: organisation of sports events/shows.

Tasks to be performed: financing of joint venture activities, promotion of proposed team sports and entertainment game, establish a federation for the game.

## **Type of Partnership Considered**

Financial agreement

Joint venture agreement

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## **Attachments**

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## Technology Request

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# Robotics and IoT prototyping company looking for new projects and cooperation possibilities

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### Summary

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*Company from Poland working on rapid prototyping for robots, Unmanned Aerial Vehicles and the Internet of Things. Its business model focuses on challenging hardware and software projects and Research & Development outsourcing. Expected form of cooperation: research cooperation agreement or subcontracting.*

<b>Creation Date</b>	21 December 2016
<b>Last Update</b>	27 December 2017
<b>Expiration Date</b>	28 June 2018
<b>Reference</b>	TRPL20161220001
<b>Public Link</b>	<a href="https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/ffb8fbd1-c83f-4f50-9d2c-76ebb497a8ae">https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/ffb8fbd1-c83f-4f50-9d2c-76ebb497a8ae</a>

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### Details

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#### Description

A promising startup from Poland, with ambitious international team, dealing with projects related with the use of drones and robots in different areas of life. The company combines the creativity of young enthusiasts with the knowledge of experienced professionals. They have already been present on the market for over a year and employ more than 15 robotics and software engineers. The company cooperates with large research and development organisations from Poland and abroad. Their activity is focused primarily on developing their own products and solutions, and currently they are working on:

- vertical take-off plane (studies on improvement of flight stability)
- object detection from air
- a system to control a swarm of drones/robots via GSM
- robotics products

Company can help its partners with:

- Research & Development outsourcing
- Rapid hardware prototyping
- Software development for robotics, UAV and IoT
- Cloud integration
- Low volume & mass production

The company would like to extend the network of its partners in research and development institutions and organisations involved in the research works in robotics and drones and find

new projects. Research cooperation agreement or subcontracting is considered.

## Technical Specification or Expertise Sought

The partners should have considerable expertise in the following fields:

- Mechanical engineering related to robotics and UAV
- Robotics software development
- Machine Learning
- Cloud data analysis

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## Keywords

### Technology

01001001                      Automation, Robotics Control Systems

### Market

02007016                      Artificial intelligence related software

### NACE

M.72.1.9                      Other research and experimental development on natural sciences and engineering

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## Network Contact

### Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

### Contact Person

Vera Lullo

### Phone Number

+39 0516398090

### Email

vera.lullo@aster.it

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**Open for EOI :**    **Yes**

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## Dissemination

### Send to Sector Group

Ref: TRPL20161220001

ICT Industry and Services

## Restrict Dissemination to Specific Countries

Japan,

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## Client

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### Type and Size of Organisation Behind the Profile

Industry SME <= 10

### Year Established

2014

### Turnover

<1M

### Already Engaged in Trans-National Cooperation

Yes

### Languages Spoken

English  
Polish

### Client Country

Poland

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## Partner Sought

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### Type and Role of Partner Sought

Partners sought: research and development institutions and universities with areas of interest or implementing projects related to robotics and drones, as well as in other related fields. The partnership would be based on a research cooperation agreement, according to which the partners would share their professional and technological knowledge.

Special focus on EOIs from Japanese partners.

### Type and Size of Partner Sought

University,R&D Institution

### Type of Partnership Considered

Research cooperation agreement

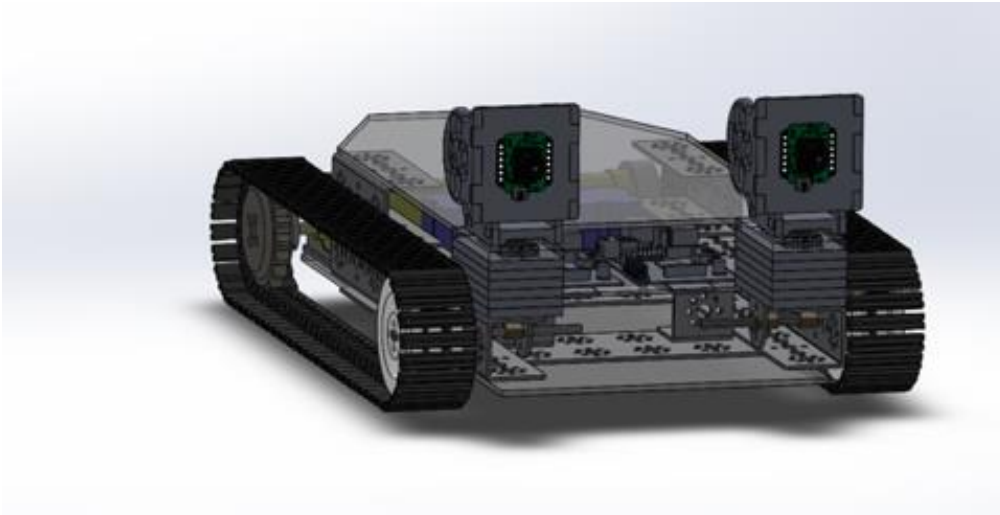
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## Attachments

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dron-3.jpg



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## IOT SKATEBOARD

