Profile Status: Published

Technology Offer

A UK based company who is developing an educational app for dyslexia is looking to partner with schools and educational institutions to test the product under a technical cooperation agreement.

Summary

The UK based company has developed an educational app for dyslexia that detects the nature of literacy difficulties a child experiences at a young age and proposes the most appropriate and tailored interventions to enable teachers/parents to provide effective support to the child. The company is now looking to partner with schools and relevant organisations to test and validate the product with children (4-8 years). The envisaged collaboration will be under a technical cooperation agreement.

Creation Date	19 June 2018
Last Update	17 August 2018
Expiration Date	18 August 2019
Reference	TOUK20180529001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/9f3ee3a3-37d5-4f22-8a13-7c5331fac17c

Details

Description

According to substantiated scientific estimates, it is estimated that between 5 and 12 percent of the population of European citizens are affected by dyslexia and specific learning difficulties.

The UK based company had developed a solution which uses the latest neuro-scientific knowledge to develop interactive games that assess a young child's reading ability and other non-linguistic skills such as visual perception, visuospatial attention and fine auditory perception, as well as short term memory. It is an interactive game-based intelligent system accessible from any digital device, and radically reduces intervention costs: as no specialised hardware nor specialised professionals are required. The use of interactive digital technology allows the company to provide individual testing and propose tailored interventions, which are not possible in a paper-based mode.

The company's team includes neuroscientists, game developers, software engineers, dyslexic specialists, digital health expert and business development experts. The company's vision is to roll the app out across the UK, Europe and ultimately into global markets.

At this stage, the company is looking to partner with schools, local education authorities, focus groups and primary educational bodies to test the product with children aged 4-8 years in order to validate and further refine the solution. The envisaged collaboration will be under a technical cooperation agreement.

Advantages and Innovations

The solution delivers a digital health and education solution that radically improves detection of literacy difficulties characteristic of dyslexia at an early stage, when interventions are most effective, and which aids self-management to improve quality of life and increase the chances of achieving educational and professional success. Such automated solutions do not currently exist in the market.

The main advantages are individualised diagnosis, individualised monitoring and management of dyslexia. In addition, it allows parents and teachers with no specialist knowledge of dyslexia to understand where the child is struggling and proposes the most effective intervention.

Stage of Development

Available for demonstration

Comments Regarding Stage of Development

The company has carried-out market research during a feasibility project supported by Innovate UK's Biomedical Catalyst 2016 programme. During the project it had the chance to work closely with dyslexia specialists, adult dyslexics, teachers of special-needs children and parents of dyslexic children.

IPR Status

Exclusive Rights

Comment Regarding IPR status

No patents registered yet.

Profile Origin

National or Regional R&D programme

Keywords

Technology

01003004	Computer Games
01003006	Computer Software
01004001	Applications for Health
11002	Education and Training

Market

05001001	Diagnostic services
05007006	Computer-aided diagnosis and therapy
05007007	Other medical/health related (not elsewhere classified)

NACE

J.62.0.1	Computer programming activities

J.62.0.2	Computer consultancy activities
P.85.6.0	Educational support activities

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

The UK based company is currently preparing the roll-out of the platform across the UK, Europe and ultimately into global markets.

At this stage, the company is looking to partner with schools, local education authorities, focus groups and primary educational bodies to test the product with children aged 4-8 years in order to validate and further refine the solution. To start with, the ideal partners will be based in English speaking countries or where the majority of children learn English as a second language.

The envisaged collaboration will be under a technical cooperation agreement.

Type of Partnership Considered

Technical cooperation agreement

Attachments

Profile Status: Published

Technology Offer

Sports-scientific basic technology for multigenerational outdoor fitness parks

Summary

A German SME specialized in playgrounds and outdoor fitness parks and a German university have co-developed a sports-scientific technology for outdoor fitness equipment. It can be integrated in multigenerational outdoor fitness parks. It allows for simultaneous translational and rotational movements and multidimensional exercises due to a combination of rolling and tilting mechanisms. Partners are sought for commercial agreements with technical assistance or technical cooperation agreements.

Creation Date	02 August 2018
Last Update	13 August 2018
Expiration Date	14 August 2019
Reference	TODE20180731001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/469ae7ee-d853-44ba-9147-8c90d8963f7a

Details

Description

The number of people above the age of 65 in our societies increases constantly. The impact of an ageing population on public health care systems is a challenge policy makers have to face. Public outdoor fitness parks become increasingly important in the context of public health prevention measures in order to stimulate regular body exercises among the population. But exercise equipment has to be based on scientifically tested movement patterns if harmful, unnatural body postures and injuries shall be prevented.

A German SME has co-developed a product family of outdoor fitness devices based on a proven sports-scientific concept together with a German university. The new system aims at guided exercise activities in outdoor public spaces which have until now only been realized with physiotherapeutic indoor equipment. However, indoor fitness devices are not resistant to extreme temperature variations and not protected against extreme weather conditions. Also, indoor sport-therapeutic equipment often does not include playing elements as movement incentives and cannot be used without professional personal instructions. With the classic technical approaches using pulleys, hinges, ball bearings, springs and ropes, only a limited range of outdoor movements has been possible to date.
The newly developed technological approach combines an already existing rolling mechanism with a tilting mechanism which has not been used yet in outdoor devices.
By combining the rolling and the tilting technique, which is open on several sides, guided and free translational and simultaneous rotational movements become possible, which were

previously only possible outdoors in skating, snake or wave boarding, surfing or skiing. The tilting mechanism essentially consists of a particularly robust rubber-plastic connection, which is inserted into a steel housing (square tube) and is traversed by two parallel steel axes. Due to different loads and rotation of the steel axles, the rubber-plastic connection in the steel housing is compressed or stretched. Depending on the user's body weight, the tilting mechanism reacts slowly, cushioning and with increasing angle with increasing resistance until it comes to a standstill at a certain angle, depending on the application of force. This specific, natural movement pattern makes it particularly interesting for the use in exercise equipment.
The basic technology is used in straight horizontal movement, in ascending and descending movement, in horizontal curve movement, with two feet on one tread or with two separate treads and for one person or two persons simultaneously.
The new functional principles have been implemented in five different devices: a balancing board which functions similar to a skateboard, the balancing swing which simulates the movement on a half-pipe, the balancing snake which is based on the movement model snake- or wave board, the balancing shaft with two separate stands for the feet and the balancing rocker for two persons.

Partners with experience in the playground or outdoor fitness sector are sought for commercial agreement with technical assistance. The new technology can be integrated into existing fitness or public health schemes or newly installed ones. The technology transfer will be supported by the technological knowhow of the German SME. Technical cooperation agreements for a further improvement of the technology for multigenerational parks or special arrangements for the elderly are also possible.

Advantages and Innovations

The developed technical specifications cannot be found in other products on the market. It is the first outdoor equipment which enables simultaneous translational and rotational movements due to a combination of rolling and tilting mechanisms

Advantages are:

- Multidimensional and differentiated movement patterns similar to real body movements
- Differentiated difficulty levels for different intensities, constitutions and age groups
- Multiple and individual challenges to users as far as coordination, mobilization, strength and endurance are concerned
- Integrated option for individual performance improvements and playing elements create high user incentives
- Robustness against vandalism
- Resistance to rain and sunlight exposure
- No external instructions needed
- No danger of misuse or injuries

Stage of Development

Prototype available for demonstration

IPR Status

Copyright

Profile Origin

National or Regional R&D programme

Keywords

Technology

01004001	Applications for Health
02006	Construction Technology
06005003	Health information management
11006	Citizens participation
11007	Sports and Leisure

Market

05005016	Environmental Medicine, Social Medicine, Sports Medicine
07001004	Sporting goods, hobby equipment and athletics clothes
07001005	Sport facilities (gyms and clubs)
09007	Construction and Building Products
09007004	Engineering and consulting services related to construction

NACE

C.32.3	Manufacture of sports goods
C.32.4	Manufacture of games and toys
Q.86	Human health activities

Network Contact

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Open for EOI : Yes

Dissemination

Send to Sector Group

Healthcare

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

1979

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
German

Client Country

Germany

Partner Sought

Type and Role of Partner Sought

Ideally the future partner has experience with outdoor fitness parks and playgrounds for the public sector (municipalities, local authorities or health associations) or in the private sector (senior citizens facilities, rehabilitation centres, sport clubs, fitness centres). Possible partners could also be landscape architects, city planners and planners of public parks.

Ideally, the partner should have established contacts to assembly teams which ensure the smooth installation of products.

Task to be performed is the integration of the new technology into existing outdoor fitness or public health schemes. The technology transfer will be supported by the technological knowhow of the German SME. The SME offers advice and assistance in planning the design and layout of the playground or fitness area including 3D visualisation. This way individual solutions for each user can be implemented according to dimensions and requirements of the playground and fitness equipment .

There is also scope for technical cooperation agreements and the common planning of projects and the development of new ideas for products and services for the elderly in the context of multigenerational fitness parks.

Type and Size of Partner Sought

SME 11-50,University,Inventor,R&D Institution,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Attachments

Profile Status: Published

Technology Offer

Cloud-based system for utility meter and sensor data collection and monitoring

Summary

A company from Latvia has developed a solution for monitoring and data collection from various utility meter sensors and other measurements. Transmitters are developed to support wide range of utility meters (water, heat, energy) as well as different environment sensors, such as temperature, humidity, CO2, and other. The company is looking for commercial agreement with technical assistance with partners interested in implementation of the technology in customised real-time monitoring systems.

Creation Date	16 May 2018
Last Update	12 June 2018
Expiration Date	13 June 2019
Reference	TOLV20180514002
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/19528524-c1d5-43ce-89c1-d6ff42e3a04a

Details

Description

In many cases there is necessity to collect various data. The best way is to use remote data collection approach. Especially convenient are cloud-based systems for meter and sensor data collection, providing frequent data readings, data storage, presentation, analytics and alarms.

A company from Latvia is offering utility meter and sensor data collection and monitoring cloud-based service. In comparison to similar devices with manual utility meter, the offered data collection device provides more precise and operative data, which makes consumption billing precise, and allows additional functionality – consumption analytics, real-time alerts and anomaly detection.

The company provides utility meter and sensor data collection and monitoring using cloud-based service. Service is based on developed in-house cloud portal, data gateways and battery-powered radio transmitters for meter and sensor data. The solution provides efficient and economical data collection and transmission – wireless from meter or sensor to data gateway, and through internet from gateway to portal.
Transmitters are developed to support wide range of utility meters (water, heat, energy) from different vendors as well as different environment sensors, such as temperature, pressure, humidity, CO2, and other. Hardware is modular and can be configured for different sensors, data speeds and transmission range.

Portal provides data storage, processing, presentation, analytics and alerting, as well as data export to external systems for billing and integration. Portal is highly scalable, multi-tenant and multi-lingual.

The offered solution is powerful and flexible, it can be expanded and customised to specific needs.

The company is looking for co-operation partners interested in implementation this technology in customised real-time monitoring systems. Company is offering commercial agreement with technical assistance.

Advantages and Innovations

Main technical advantages:
• Easy to deploy and expand, scalable and multi-tenant.
• Sensors power-efficiency – data each 15 min for 10 years without battery replacement.
• Versatility: almost any device can be connected. The company proposes customisation and integration services.
• Portal with multi-language support – new languages will be added, when required.

Solution advantages:
System supports utility meters and sensors from different vendors, and any missing meter can be easy integrated.
System can be used for different telemetry goals, as it supports many different sensors - temperature, humidity, CO2, pressure, etc., as well as integration with different systems (access control, temperature -switch, etc.) for monitoring, real-time alerting and reporting / logging.
Different monitoring data are available from the same portal, same WEB-interface, but each sensor screen can be customized and optimized as needed.
Web system includes multi-language, multi-tenant and multi-level administration system for transmitter and user configuration.

Stage of Development

Already on the market

IPR Status

Secret Know-how,Copyright

Profile Origin

Private (in-house) research

Keywords

Technology

01003025	Internet of Things
04007001	Energy management
09003	Electronic measurement systems
10002010	Remote sensing technology

Market

01004006	Other data communication components
01006005	Other communications (not elsewhere classified)

02006007	Databases and on-line information services
08002002	Industrial measurement and sensing equipment
09007005	Facility management companies

Network Contact

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Open for EOI : Yes

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

2012

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Latvian
Russian

Client Country

Latvia

Partner Sought

Type and Role of Partner Sought

Type of partner - state organisations, municipalities, municipal organisations, real-estate companies, factories, rental property owners, etc., interested in measurement and sensor data collection.

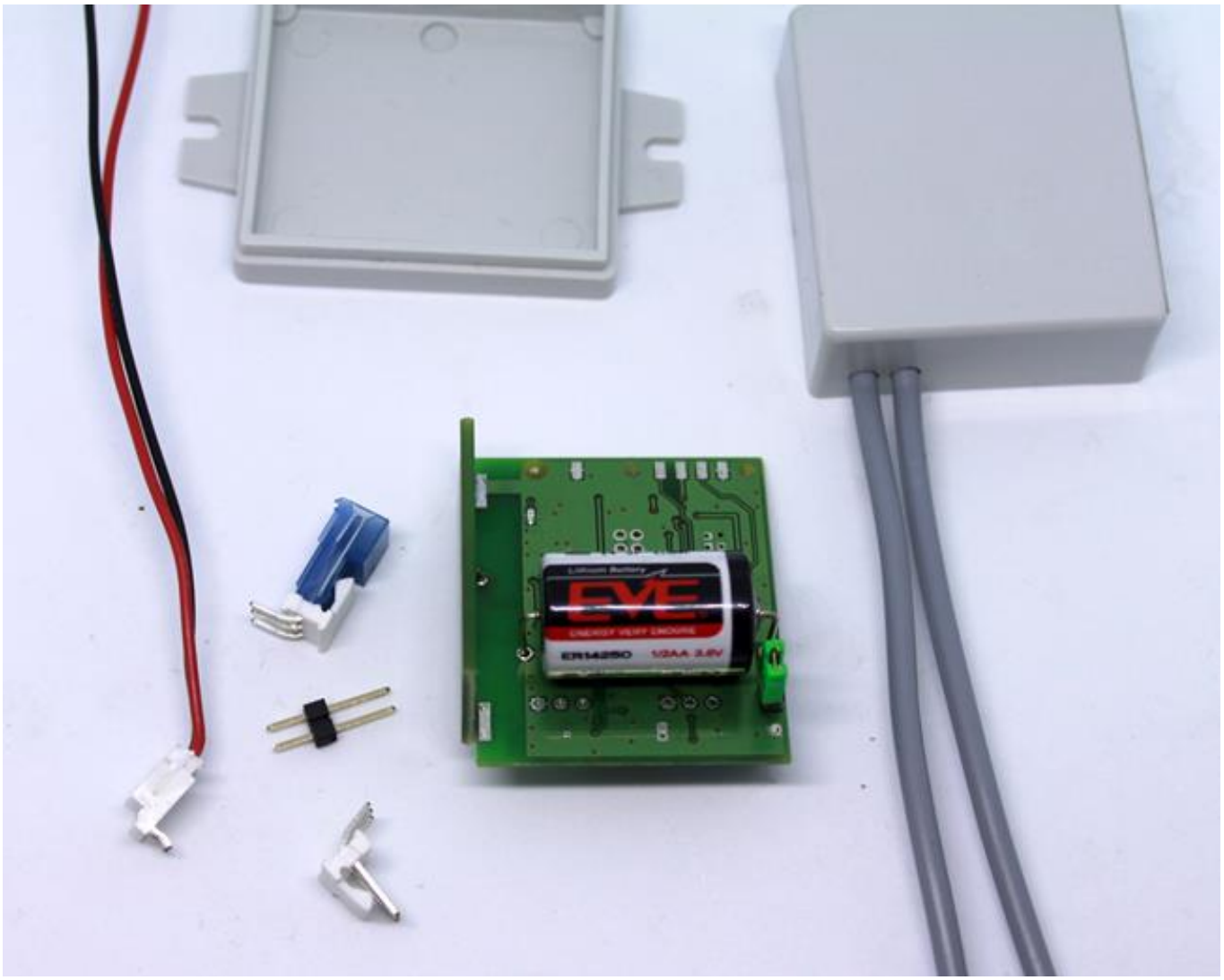
Role of partner sought: collaboration in adaptation of the technology for local/specific needs / formulate specifications.

Type of Partnership Considered

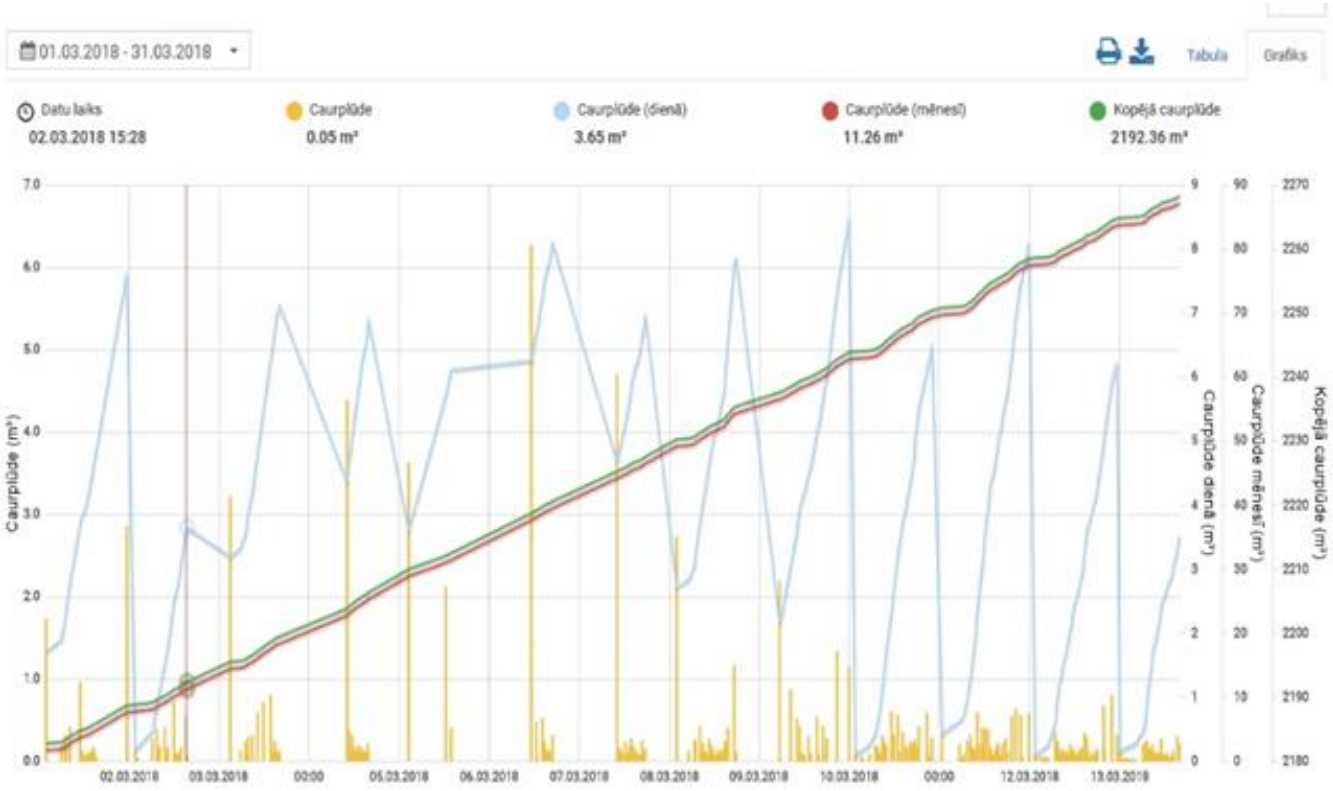
Commercial agreement with technical assistance

Attachments

Ma1.jpg



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