Profile Status: Published

Technology Offer

BigData supported forecasting of fluctuating energy sources

Summary

A German SME, specialized in machine learning techniques and data analysis is operating a platform for high-precision forecasts of production of renewable energy based on meteorological and production data. The company is looking for service agreement and technical cooperation agreement. The company is especially looking for organizations involved in energy trading with the goal of refining the forecasts directly for this purpose.

Creation Date	21 December 2017
Last Update	05 January 2018
Expiration Date	05 January 2019
Reference	TODE20171221001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/a5becc18-1dcd-451a-b74a-453b1c8dde78

Details

Description

The company with an extensive experience in physics, meteorology and BigData is dedicated to generate power production forecasts at the highest level of precision imaginable. Precise predictions of the energy production from fluctuating sources like wind and solar is needed for energy trading and stable grid operation. Therefore, the company has developed a platform that uses machine learning techniques to accurately predict the production from those sources on different levels (e.g. single turbines vs wind parks).

The company's forecasts are automatically optimised and generated, they can be individually scheduled, automatically distributed and updated as often as is needed by the customers. Typical forecast ranges are day-ahead and intra day but also longer projections into the future are possible.
The entire platform is developed by the company and any performance, feature or behavior that is desired can be added or modified.

The company is looking for partners which are interested in it's services and would like to optimise the services according to the individual needs of the potential partner. This includes (but is not limited to)
- modes of data gathering
- modes of data distribution
- forecast scheduling
- optimisation goal

- special regulatory constraints (including data security)
- data analysis

Advantages and Innovations

Due to it's agile style of development, the company is very flexible regarding specific needs of customers.
The specific advantages are
- Tailor made forecasting products to customers needs
- Lightweight easily deployable architecture
- physics-, meteorology-, BigData- and computer-experts are running the company

Stage of Development

Already on the market

IPR Status

Other

Profile Origin

H2020 – Industrial Leadership – Innovation in SMEs (incl. SME Instrument)

Keywords

Technology

01003003	Artificial Intelligence (AI)
01003006	Computer Software
01003008	Data Processing / Data Interchange, Middleware
04005008	Wind energy

Market

06003003	Wind energy
06003010	Distributed power and grid connection
09003007	Other services (not elsewhere classified)

NACE

J.62.0.1	Computer programming activities
J.62.0.2	Computer consultancy activities
J.63.1.1	Data processing, hosting and related activities
M.74.9.0	Other professional, scientific and technical activities n.e.c.

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Send to Sector Group
Intelligent Energy

Client

Type and Size of Organisation Behind the Profile
Industry SME <= 10

Year Established
0

Already Engaged in Trans-National Cooperation
No.

Languages Spoken
English
German
French

Client Country
Germany

Partner Sought

Type and Role of Partner Sought
Type of partner and area of activity:
- energy traders
- energy direct marketing companies
- energy producers (local, regional, national)

- companies involved in technical and commercial management of wind farms

Task to be performed:
Collaborative development of forecast products.
The company wants to get to know the partner's specific problems and needs and find a solution for it.

Benefit for the potential partner:
- Optimisation to minimal forecasting error is not necessarily the optimal forecasting strategy for traders. The company knows that and has other solutions which offer unique advantages. The company would like to refine those strategies together with potential partners.
- The partner would get a unique, individual forecast which offers advantages especially for traders.

Type of Partnership Considered

Services agreement
Technical cooperation agreement

Attachments

Profile Status: Published

Business Offer

Finnish company turning ordinary spaces into interactive experiences is looking for event and experience producers.

Summary

A Finnish company has developed an innovative and cost-effective way to turn any ordinary space into an interactive experience. The company's solutions are ideal for events, exhibitions, installations, activity parks and public displays. The company is looking for event and experience producers that would take the company's solutions in use, providing an innovative and interactive experiences to their customers. The cooperation would be in the form of services or subcontracting agreement.

Creation Date	15 June 2018
Last Update	06 July 2018
Expiration Date	07 July 2019
Reference	BOFI20180615001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/22844265-42f6-4c9d-b5b9-b7af491e513c

Details

Description

A Finnish company with a long experience in the field of digital media has developed a way to change any space into an interactive space. Using the company's platforms and interfaces, ordinary walls can be changed into interactive touch surfaces or users can modify their surroundings in real time by movement, gestures, touching or mobile device. The company's solutions are ideal for transforming events, exhibitions, activity parks, installations and public displays into interactive smart spaces.

The company has a track record of providing innovative solutions for various sectors, some examples of references:
- exergaming solutions in activity parks
- an interactive intuitive playground for children in a shopping mall
- an interactive Christmas wall in a shop window
- an interactive showroom in a company's lobby
- wall projection of audio-reactive visuals in an event
- interactive installations at an airport as well as in a science center and a museum
- a large data visualization of Aurora Borealis on a large LED screen.

With some experience in transnational cooperation, the company wishes have more

international projects and is looking for event and experience producers that would take the company's solutions in use. The potential partner could be an event producer, museum, science center, activity park, shopping mall, airport or any other partner that aims to produce innovative and interactive experiences to customers.

The cooperation would be in the form of services or subcontracting agreement.

Advantages and Innovations

With the company's solutions, any ordinary surface is changed into an interactive wall. The company has made even a wall made of ice into an evolving interactive painting. Expensive investments are not needed, as the company's solutions are cost-effective. The company is innovative and creative, and they enjoy creating something new. The solutions are planned together with the customer and tailored to their specific requirements and needs.

The company has an extensive list of references, ranging from national museums and science centers to activity parks and large events.

Stage of Development

Already on the market

Keywords

Market

07001002	Amusement and recreational facilities
07001007	Other leisure and recreational products and services

NACE

R.90.0.2	Support activities to performing arts
R.90.0.3	Artistic creation
R.91.0.2	Museums activities
R.93.2.9	Other amusement and recreation activities

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Send to Sector Group

Creative Industries

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2013

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Finnish

Client Country

Finland

Partner Sought

Type and Role of Partner Sought

The potential partner could be an event producer, a museum, a science center, an adventure/activity park, a shopping mall, an airport or any other partner that aims to produce innovative and interactive experiences to their customers.

The implementation, build-up and maintenance of the interactive solutions are planned together with the partner, taking into consideration the partner's and the end customer's requirements and needs.

Type and Size of Partner Sought

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

Type of Partnership Considered

Services agreement
Subcontracting

Attachments

Photo_1.jpg



Photo_2.jpg



Profile Status: Published

Technology Offer

Virtual Reality based technology for the blind and visually impaired people

Summary

A Spanish SME, active in virtual reality and smart wearables areas, has developed an innovative virtual reality kit experience for the blind and visually impaired–not with a headset,but with a pair of smart gloves.It makes possible that the blind can 'see' the shape of the 3D virtual object by following the vibrations received through the gloves.They're interested in commercial agreements with technical assistance with final users or technical cooperation for joint exploitation and dissemination

Creation Date	09 August 2018
Last Update	19 September 2018
Expiration Date	20 September 2019
Reference	TOES20180727001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/0f3ac094-2a9a-4e5a-9b87-2097a7fc10d9

Details

Description

A Spanish start-up, active in the area of virtual reality and smart wearables, has developed a novel virtual reality kit for the blind and visually impaired. This kit includes a pair of smart gloves.

This technology can create 3D models for blind people, to let them experience the masterpieces in their full majesty.

3D models are modified via laser scans of the original masterpieces by developing unique UV unwraps and re-topology, adding necessary extra levels of texture to create a real tactile experience.

To further improve the experience for the blind, the 3D models are split into several main pieces (e.g. hat, face, neck, body). Afterwards, the sculpture's minor regions are added for life-like accuracy. In doing so, the visually impaired can finally touch and feel every detail of each masterpiece.

Additionally, a projection system enabled the 3D models to transform into a 2D "relief map". This allows the audience to scan features of the surfaces without the need to trace the 3D object borders.

How it works

01. Set-up
When the virtual hand touches the 3D object, the technology identifies it and sends feedback to the gloves in the form of vibration.

02. Experience
The blind person can see the 3D digital object with his/her own hands, identifing its volume, shape and surface texture just following the vibrations they receive through the gloves.

The object is in a virtual space and the blind person can explore and recognize global or even small details of the digital object.

The Spanish SME is interested in several type of partnerships. These ones will be negotiatied according to the interest:

- Commercial agreements with tecnical assistance are sought with museums, cultural heritage managers, foundations, investors or technological companies connected to cultural heritage activities.

- Technical cooperation is sought with technology resellers or business developers in terms of joint exploitation and upgrade of the technology as well as dissemination.

Advantages and Innovations

Advantages
- Free downloads of 3D models with haptic maps.
- The "touching" experience can be set up anywhere in the world.
- It makes visual art finally inclusive for the blind and visually impaired people.

Innovations

Currently there are some types of museums for blind people where they can touch physical models of artwork, but as conventional spaces they are limited for many reasons (a limited number of pieces for exhibition, a concrete location, a concrete timetable... Thanks to this technology:

- Unlimited items to be virtually "touched".
- Smart Gloves to touch and feel every detail of each masterpiece. The blind person can controls the virtual hand in virtual space of 360º via these smart gloves.
- Advanced virtual "feeling" depending on the texture and shape of the virtual object, different vibrations are sent. Keeping in mind that blind and visually impaired people see by touch, haptic feedback is configured to let them decide which vibrotactile actuators they want to use. In other words, letting them switch between their way of seeing – with either the finger tips, palms or hand, making the experience truly immersive for them all.

Stage of Development

Already on the market

Comments Regarding Stage of Development

This technology has been successfully used in a specific project to present some of the most iconic sculptural masterpieces in a digital world - for the blind people.

IPR Status

Copyright

Profile Origin

Private (in-house) research

Keywords

Technology

01005001	Cultural Heritage
01005006	Visualisation, Virtual Reality
06005002	Sensors & Wireless products
11007	Sports and Leisure
11008	Creative services

Market

05010003	Patient rehabilitation & training
07001	Leisure and Recreational Products and Services
07001002	Amusement and recreational facilities

NACE

J.62	Computer programming, consultancy and related 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

2012

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

Type of partners sought: museums, cultural heritage managers, foundations or technological companies connected to cultural heritage activities.

Role of partners: Interested partners should provide their specific needs for the right implementation of the technology via commercial agreement with technical assistance. The Spanish SME would provide technical assistance for a better identification of needs as well as technical support once the technology is implemented.

Technical cooperation with technology resellers or business developers are also sought for joint exploitation of the technology. They will collaborate in terms of dissemination of the technology as well as joint projects for upgrading or significant improvements.

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Attachments

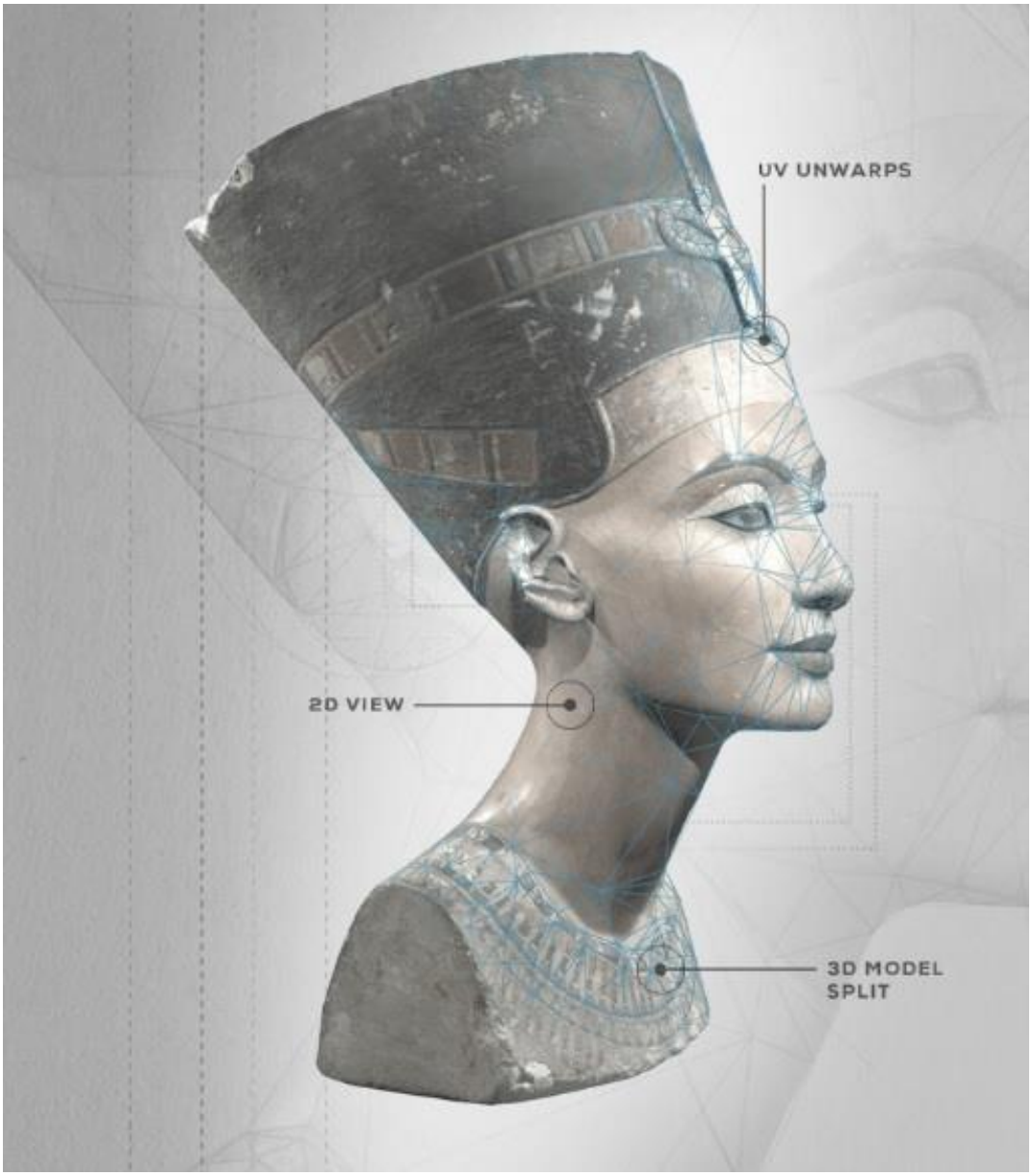
Equipment needed.jpg



How it works.jpg



Nefertiti details_.jpg



Gloves interaction.jpg

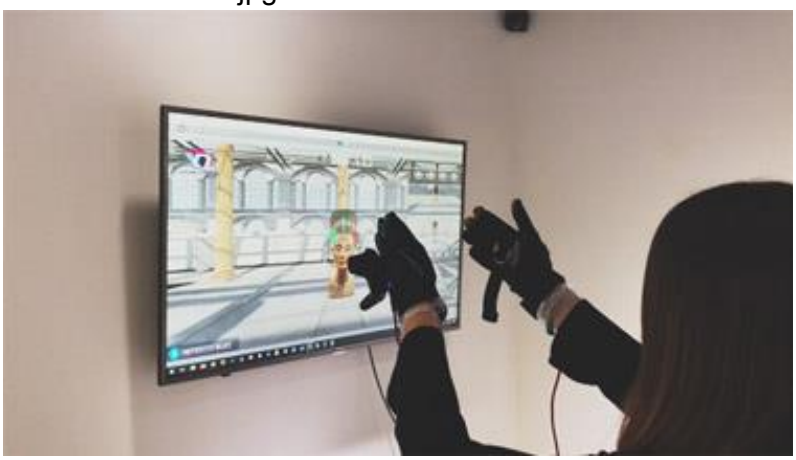


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