Profile Status: Published

Technology Offer

A Turkish SME is offering their technology regarding virtual reality, augmented reality and 3D animation services with commercial agreement with technical assistance and technical cooperation agreement.

Summary

A Turkish high tech SME focusses on development of virtual reality, augmented reality and 3D animation services. Offering their technology, also offering tailored solutions to organizations, the SME is looking for company partners for commercial agreements with technical assistance for further implementation and technical cooperation agreement for further developments.

Creation Date	16 October 2018
Last Update	02 November 2018
Expiration Date	03 November 2019
Reference	TOTR20181016001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/783fbdcd-b641-4e5c-9d44-6e3ae010a3ea

Details

Description

The SME based in Turkey is focusing on virtual reality, augmented reality and 3D animation since 2013. They completed numerous projects in the related fields. Using the know-how, they offer progressive technologies day by day and carrying out farsighted R&D (Research and Development) activities regarding the needs of the future.
The SME is able to apply its services and products to the fields of Education, Defense, Manufacturing, Automative, Construction, Healthcare and Retail, in such areas as Training & Employee Development, Engineering & Design, Modeling, Education, Real-Time Information Overplay, B2B Sales, Marketing and Entertainment.
5-years of experience and know how in AR, VR and Mixed reality Technologies.
-Software based on national and indigenous capabilities Know-how acquired in reference defense industry projects Quality and know-how in three-dimensional visualization works
-High quality visual outputs as a result of the works of our team and its strong grasp of technology
-Rapid attainment of new technologies and programs through its strong partnership structure
• AR&VR Multi-user know how
• Strong System infrastructure and Render Farm
-Infrastructure based on an expandable architecture
-Upgraded 1500-core Render Farm

-Hybrid Structure (CPU/GPU)
-Data Flow at 20 GB/h
-High Security System (Separate Internet-Domain Structure)
• Strong World leader solution partners and early access to new generation Technologies

Advantages and Innovations

Some of the advantages and innovations are below
-High Quality and know-how in three-dimensional visualization works
-Capability to development until 30K in VR and AR platforms (Also 4K, 6K, 8K)
-Fast, compatible and high-quality services
-Professional in Tailor Made Projects/sercives

Stage of Development

Already on the market

IPR Status

Secret Know-how,Exclusive Rights,Copyright

Profile Origin

Private (in-house) research

Keywords

Technology

01002004	Embedded Systems and Real Time Systems
01003006	Computer Software
01003010	Databases, Database Management, Data Mining
01003024	Cloud Technologies
01005006	Visualisation, Virtual Reality

Market

02002008	3D
02006004	Data processing, analysis and input services
02007010	Education software
07002005	Other retailing
09007001	Construction companies

NACE

J.62.0	Computer programming, consultancy and related activities

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

2013

Turnover

<1M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

Turkish
English

Client Country

Turkey

Partner Sought

Type and Role of Partner Sought

The company is looking for education, defense, manufacturing, automative, construction, healthcare and retail institutions/facilities for commercial agreements with technical assistance for further implementation to carry out trade activities with technical implementation. Also, they can develop new and enhance current technology with the companies under technical cooperation agreement.

Type and Size of Partner Sought

SME 11-50,SME <10,SME 51-250

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

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

Relevant Sector Groups

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.

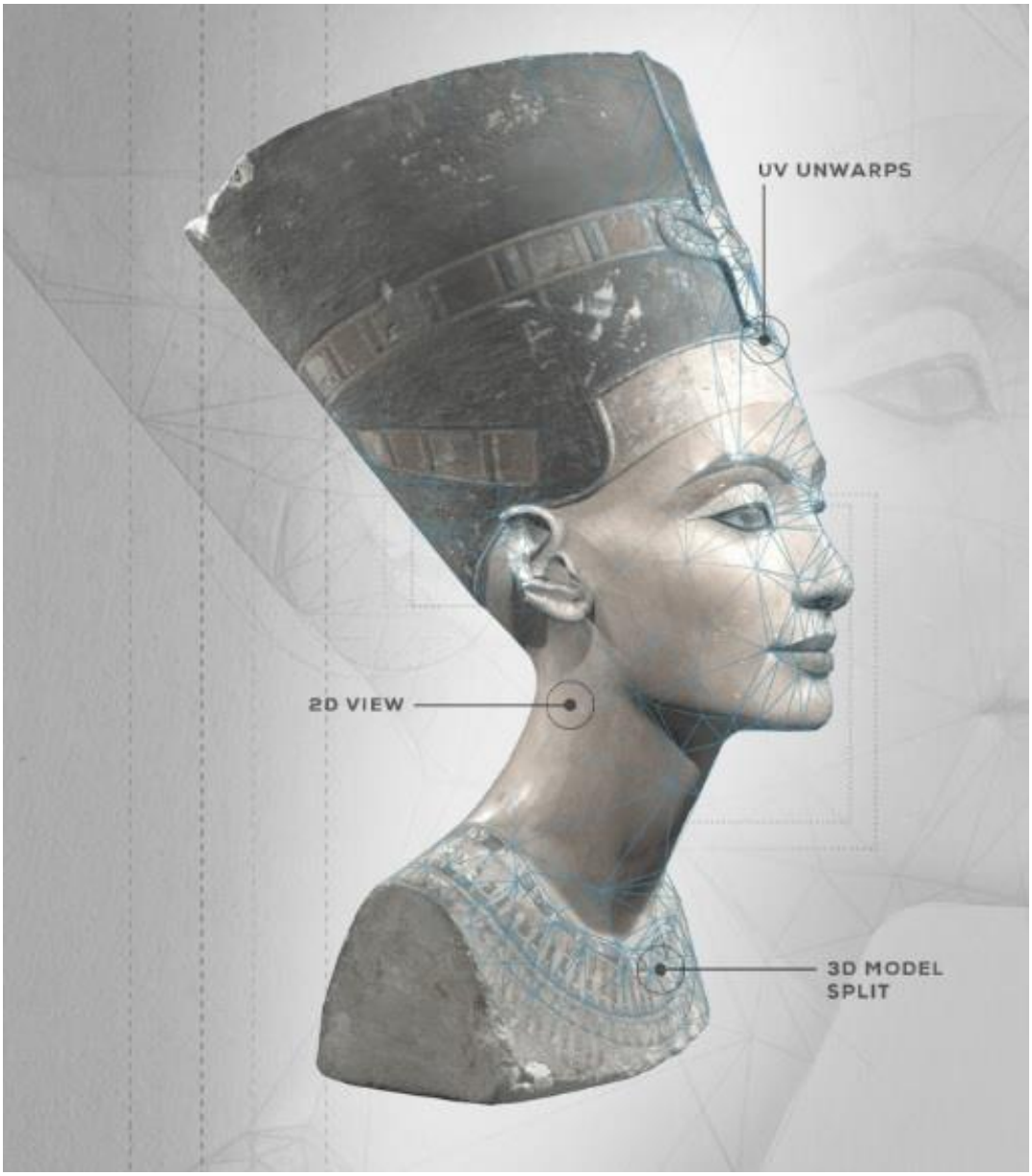
Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Attachments


02.
03.
04.
05.
2 Pack Tripods plus Tripod Heads
VR-Ready Laptop
Trackers
Deluxe Audio Strap
Gloves


01.
Touching the object
- vibration sent
02.
Not touching the object
- no vibration sent
03.
Inside the object
- no vibration sent





TIC-CESEAND-TO410

Profile Status: Published

Technology Offer

Monitoring system for structural health of bridges and buildings in urban and remote locations

Summary

A German engineering company, specialised in sensor and automotive technologies, has developed a fully functional system solution for monitoring the structural health of bridges and buildings in urban and also remote locations. The products are very versatile long range sensor transmitters and may be used beyond structural health monitoring in diverse IoT surveillance and data collection services. The company is looking for license and commercial agreements with technical assistance.

Creation Date	28 August 2018
Last Update	10 September 2018
Expiration Date	11 September 2019
Reference	TODE20180828002
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/63eb88b4-c145-40f5-b1fd-3175ec3bdd00

Details

Description

The German company is an engineering company with a focus on high-tech developments in automotive and sensor technologies.

It has a history of more than 17 years in international business relations in general industry and automotive industry. It has expertise in thin film sensor technology and electronics. The company has initiated more than 20 utility models and patents and is a frontrunner in the development of niche automation technology.

The company offers a fully functional systems solution for monitoring the structural health of bridges and buildings in urban and remote locations. The system is a combination of various sensors, data-collection and transmission units, enabling the user to send information with radio frequency LoRa (long range) protocols to internet gateways for cloud or proprietary server data storage. The system features ease to use self-assembled dashboards for visualisation and monitoring of key-parameters and permits automated transmission of electronic information by initiating SMS, e-mail or voicemail etc. and can link with various industry controls, as for instance traffic lights.

The system consists of:
- Thinfilm Piezoresistive Force- and Pressure Sensors which are so rugged, that they may be introduced directly into the load-path of an applied force in a man-made structure.
- LoRa-Transmitters for collecting sensor signals and transmitting these via gateways to servers

or cloud-based data centers for storage, analysis and retrieval.
- Via a matching software, the transmitted and collected data may be visualized, processed and and used for notifications (SMS, e-mail, voicemail etc.) and signalling as for instance in preventing people or vehicles by red light signals activation to further access buildings or bridges where the sensors have detected structural weaknesses and such help to guard people and assets against damage or casualty.

These products are so versatile that they can be combined with a multitude of sensors and can function as building blocks for various monitoring and surveillance tasks in different industries and applications which go well beyond structural health monitoring tasks. So also the surveillance of water levels of wells or watering places on farms in remote locations with transmission of water-level status to the cell phones of the farmer and the farm hands is possible.

The company aims to distribute the system and is therefore interested in commercial agreements with technical assistance as well as in license agreements with companies, institutions and administrations in Europe, USA and Canada wanting to monitor the structural health of bridges and buldings and seek advance notification before severe damage or collapse of the structures takes place.

Advantages and Innovations

Rugged sensors, remote surveillance and data acquisition for structural health monitoring of bridges and buildings, optimized low energy data transmission, battery and photovoltaic powered

Stage of Development

Prototype available for demonstration

Comments Regarding Stage of Development

LoRa WAN sensor technology is at TRL 6 plus - series production will beginn in fall 2018

IPR Status

Secret Know-how,Granted patent or patent application essential,Trade Marks

Profile Origin

COSME

Keywords

Technology

01003025	Internet of Things
01005006	Visualisation, Virtual Reality
02006005	Construction maintenance and monitoring methods & equipment
02006006	Construction engineering (design, simulation)

Market

01004002	Data communication components
08002002	Industrial measurement and sensing equipment
09003001	Engineering services

09004008	Other manufacturing (not elsewhere classified)

NACE

G.46.6.2	Wholesale of machine tools
M.70.2.2	Business and other management consultancy activities
M.71.1.2	Engineering activities and related technical consultancy

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Sustainable Construction

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2001

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

ISO 9000 in preparation

Certification Standards

ISO 9000

Languages Spoken

English
German
French

Client Country

Germany

Partner Sought

Type and Role of Partner Sought

Type: Companies/institutions/administrations which are responsible for the safety and functionality of man-made structures such as bridges or buildings – where technical parameters may be monitored in order to assure that the extent of damage (wear) can be contained (predictive maintenance) or in case of catastrophic events (total collapse) casualties can be avoided or minimized by control and notification of traffic flow.

Furthermore, partners with good contacts to the target group: monitoring service providers, ministries for road and railroad surveillance, construction companies, transportation companies

Role: Acquisition of the monitoring system with sensors, LoRa transmitters, IT-based infrastructure for storage, retrieval, processing of data featuring notifications/control of traffic.

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