

A Korean GIS (Geographic information system)-based platform company is looking for a joint R&D partner to develop a digital twin solution for pollutant diffusion and propagation under the research cooperation agreement

- **SCHEDA**
- **APPROFONDIMENTI**

Identificativo proposta: TOKR20211109001

RICHIEDI MAGGIORI INFORMAZIONI

A Korean SME has developed a 3D GIS-based digital twin platform featuring data visualisation and application for smart city. The company is planning to develop the solutions that can monitor and predict pollutants' diffusion by water or wind on the digital twin platform. To apply for Eureka and Eurostars, the company is looking for partners which have expertise in simulation with a physical model of the application and an IoT based measurement system under the research cooperation agreement

In order to solve environmental disasters such as spreading hazardous chemicals toward crowded city, the smart city technology and platform have been received much attention. The value of the platform lies in reducing human casualties and economic losses. To be a leading solution provider in smart city industry, a Korean SME specialized in GIS based digital twin service is going to develop a competitive platform and application service for disaster prediction and warning system caused by hazardous chemical. Through the international joint R&D project, the company would like to develop the system that can predict the diffusion route of hazardous substances and provide countermeasures for minimizing damage such as human casualties. With its own diffusion equation-based model, high accuracy prediction can be provided in conjunction with boundary conditions and several key parameters. To increase the accuracy and reliability of the system, it is very important to acquire 3D modelling and atmospheric conditions data (e.g. Temperature, pressure, etc.). The company is looking for R&D partners with expertise in acquiring, processing, transmitting, and database construction of 3D modelling and IoT sensor data to apply Eureka or Eurostars programme under the research cooperation agreement. [R&D project reference of Korean company] λ "Development of situation management system for Self-Quarantine under COVID 19", Ministry of the Interior and Safety(2020) λ "Disaster information and evacuation support system design for the disabled and the elderly", funded by National Disaster Management Research Institute(2019) λ "Development of Integrated situation management system based on GIS", Ministry of the Interior and Safety(2019) λ "Development of Geospatial Information quality control system based on ICT technology", Land and Geospatial Informatrix Corporation(2019) λ "Development of GIS-based integrated disaster prevention system"

Riferimento Esterno: TOKR20211109001

Tipo: Technology Offer

Paese: South Korea

Presentazione: 09/11/2021

Ultimo aggiornamento: 17/11/2021

Scadenza: 18/11/2022