Urban Chemical Threat Location and Identification

Fact Sheet

Project Information

UCTIL

Grant agreement ID: 837253

Project website

DOI
10.3030/837253

Project closed

EC signature date
18 January 2019

Start date
1 February 2019

End date
31 July 2019

Funded under
INDUSTRIAL LEADERSHIP - Innovation In SMEs

Total cost
€ 71 429,00

EU contribution
€ 50 000,00

Coordinated by
KARSA OY
Finland

This project is featured in...

Objective

“Catch the bomb maker, not the bomb” reflects a paradigm change in security where threat detection methods allowing for preventive measures rather than localized checkpoint systems are deployed. The Brussels 2016 explosions, and recent use of military grade CWA in Salisbury UK have exposed vulnerabilities of our urban centers. Global terrorism, illicit drug distribution networks and foreign insurgent activities force governments to strengthen security measures to protect the population especially in metropolitan areas. We call this Urban Chemical Threat Identification and Location (UCTIL). Karsa intends to launch a product into the nascent UCTIL market by deploying a sensor network that can continuously monitor ambient air for multiple target compounds with high sensitivity and specificity. The base technology already exists and has been proven robust for ambient and mobile measurements. Continuously monitoring ambient air in a complex urban environment for low concentrations of many chemicals stretches the limits of state-of-the-art technology. However, Karsa is extremely well positioned to address this challenge because it originates from the world-leading institute in atmospheric sciences (INAR) that has revolutionized the way chemical composition of the atmosphere is studied. We are seeking support to conduct a feasibility study to further explore this opportunity and prepare a plan to address R&D and business related activities to be undertaken in a potential phase 2 project.

Fields of science (EuroSciVoc)

natural sciences > earth and related environmental sciences > **atmospheric sciences**

social sciences > political sciences > political transitions > **terrorism**

engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > sensors > **smart sensors**

engineering and technology > environmental engineering > **air pollution engineering**

Programme(s)

H2020-EU.2.3. - INDUSTRIAL LEADERSHIP - Innovation In SMEs MAIN PROGRAMME

H2020-EU.3. - PRIORITY 'Societal challenges

H2020-EU.2.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies

Topic(s)

EIC-SMEInst-2018-2020 - SME instrument

Call for proposal

H2020-EIC-SMEInst-2018-2020

See other projects for this call

Sub call

H2020-SMEInst-2018-2020-1

Funding Scheme

SME-1 - SME instrument phase 1

Coordinator

KARSA OY

Net EU contribution

€ 50 000,00

Total cost

€ 71 429,00

Address

A.I. VIRTASEN AUKIO 1 A 319
00560 Helsinki

Finland

SME

Yes

Region

Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Last update: 16 August 2022

Permalink: https://cordis.europa.eu/project/id/837253