

# Partnering Opportunity

Profile status : Published

## Research Development Request

### Seeking blockchain and mobile app developers to join bid for Horizon 2020 SU-BES02 Border & External Security for 'walk through' airport process

#### Summary

*A UK company & researcher seek consortium partners to apply for H2020 funding to develop a comprehensive, new digital re-engineering paradigm for airline passengers and operational stakeholders, enabling genuine Terminal 'walk-through' capability. Seeking ICT companies/universities to create innovative software solutions using blockchain, AI, and companies to develop a mobile app to capture an individual's iris biometric readings prior to airport visitation via a research cooperation agreement.*

**Creation Date** 28 February 2020

**Last Update** 21 March 2020

**Expiration Date** 15 August 2020

**Reference** RDUK20200211001

**Public Link** <https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/148cac7c-8e6e-4d99-ab88-5934f56239f0>

#### Details

##### Description

Most of the world's hub airports i.e. those processing more than 40 million passengers per annum currently face passenger growth levels that likely require continuous physical expansionist development as passenger numbers continue to trend inexorably upward. Inherent at airports, passenger terminals in particular, are increasing constraints on finding suitable locations, adjacent to runway infrastructure, able to provide new infrastructure for increased passenger handling.

The act of processing constantly increasing numbers of passengers - outbound, inbound and transit - requires new, fast and detailed development of integrated and co-operational activity to deliver operational outcomes that genuinely enable majority of airline customers to walk-through from kerb-side to aircraft seat.

Research must include scalability and undertake iterative testing from early proof of concept through to real world testing in conjunction with selected hub airport(s) and operational stakeholders and a demographic spread of 'passengers'.

A UK researcher and company have developed a new, operationally feasible process to achieve this, based upon an existing and viable concept and enabled through detailed development of disruptive and other developing technologies e.g. blockchain DLT (digital ledger technology) and AI (artificial intelligence).

The system is able to meet the challenges that require appropriate solutions across a mix of secure process activities. And vitally, for all operational stakeholders and equipment vendors, embrace this activity working with concepts and technological expertise, taking ownership as matters reach testing and delivery.

The UK researcher is seeking ICT companies working with blockchain technologies, to help develop this digital technology in a way that improves passenger interaction from point of flight booking on-line through to delivering cogent demonstrations of how to interact with new technological introductions that will benefit and positively affect their experiences and journey through terminals in due course.

They are also seeking mobile app companies to develop an app that captures an individual passenger's iris biometrics, via snapshots that are submitted to the blockchain prior to entering the airport. It is expected that the app will employ some level of infrared technology.

Collaborators do not have to have specific expertise in airports or the movement of passengers, and they are seeking partners via research development cooperation.

Deadline for the call: 27 August 2020

Deadline for expressions of interest in this profile: 15 August 2020

## Advantages and innovations

The consortium will develop a fully functioning 'kerb-side to aircraft seat' walk through system enabling paradigm improvements in passenger experiences, and key operational outcomes in terms of hand, hold baggage and personal security, identity verification, significant OPex (operating expense) and economic benefits, speed of passenger digital processing e.g. significant increase in numbers of secure & verified passengers per hour - replacing time consuming physical activity and wasted dwell time across the current spectrum of interactive processing.

## IPR Status

Secret Know-how

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## Keywords

### Technology

01003006	Computer Software
01003013	Information Technology/Informatics
01003014	Internet Technologies/Communication (Wireless, Bluetooth)

01003023 Environmental and Biometrics Sensors, Actuators  
02010003 System and transportation

**Market**

01004002 Data communication components  
02007001 Systems software  
09001001 Airlines  
09001006 Airfield and other transportation services

**NACE**

J.63.9.9 Other information service activities n.e.c.  
M.74.9.0 Other professional, scientific and technical activities n.e.c.

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**Network Contact**

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**Issuing Partner**

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

**Contact Person**

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**Open for EOI:**     **Yes**

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**Dissemination**

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**Restrict dissemination to specific countries**

Belgium, France, Germany, Netherlands, Norway, Spain, Sweden, Switzerland

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**Client**

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## Type and Size of Organisation Behind the Profile

Industry >500

## Year Established

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## Already Engaged in Trans-National Cooperation

No

## Languages Spoken

English

## Client Country

United Kingdom

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## Partner Sought

### Type and Role of Partner Sought

Type: Industry

Activity: Blockchain/mobile app developers

Specific role of partners sought: Co-development of processes allowing non-human contact processing of airline passengers (blockchain development and biometric technology undertaken across the full spectrum of full integration with airport operational stakeholders requirements and passengers experiential outcomes.) This includes the development of an app to capture iris biometric data.

### Type and Size of Partner Sought

SME 11-50,SME <10,SME 51-250,>500

### Type of Partnership Considered

Research cooperation agreement

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## Program - Call

**Framework Program**

H2020

**Call title and identifier**

Horizon 2020 SU-BES02 Border & External Security

**Submission and evaluation scheme**

Single-stage

**Anticipated Project Budget**

€21 million

**Coordinator required**

Yes

**Acronym**

BRITES

**Duration**

48 days

**Deadline for EOI**

15 Aug 2020

**Deadline of the Call**

27 Aug 2020

**Weblink to the call**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/su-bes02-2018-2019-2020>

## Attachments

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