

Partnering Opportunity

Profile Status: Published

Research & Development Request

H2020 ICT-54-2020 - Seeking blockchain ledger developers and biometric companies to join bid to create genuine airline terminal 'walk-through' capability

Summary

A UK company & researcher are seeking additional 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 capable of demonstrating complex, innovative integrated software solutions using Blockchain, AI, together with Iris biometric companies for process co-development via research cooperation agreement.

Creation Date	30 August 2019
Last Update	03 September 2019
Expiration Date	15 October 2019
Reference	RDUK20190830001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/22aad5c9-ae4a-4195-abe5-f4c26442b205

Details

Description

Most of the world's hub airports i.e. those processing more than 40m 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.

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.

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

They are also seeking biometric companies to assist with developing the system.

Deadline for the call: 16 January 2020

Deadline for expressions of interest in this profile: 15th October 2019

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.

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
07006	Other Consumer Related (not elsewhere classified)
09001001	Airlines
09001006	Airfield and other transportation services

NACE

H.51.1.0	Passenger air transport
J.62.0.1	Computer programming activities
J.62.0.9	Other information technology and computer service activities
M.74.9.0	Other professional, scientific and technical activities n.e.c.

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

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Open for EOI : **Yes**

Dissemination

Restrict Dissemination to Specific Countries

Belgium, Czechia, Denmark, Estonia, Finland, France, Germany,
Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway,
Poland,

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

The system is intended to be fully integrated into passenger and operational stakeholders requirements and process activities. It is potentially complex, scalable and is intended to address all elements of passenger communication from moment of booking flights on-line, through to terminal journey - outbound, inbound and in transit. The concept was developed as an EU / UK government-funded research entity looking at citizens interaction with existing technology in the late 1990s with cooperation from a mix of international organisations affiliated to the civil air transport marketplace and technology organisations.

Languages Spoken

English

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

Type: Industry

Activity: ICT/Biometrics

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.)

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

ICT for a low carbon economy and smart mobility

Call title and identifier

ICT-54-2020 - Blockchain Ledger developments

Submission and evaluation scheme

Single-Stage

Coordinator Required

No

Deadline for EOI

15 Oct 2019

Deadline of the Call

16 Jan 2020

Weblink to the Call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-54-2020>

Project Title and Acronym

BRITES