

Partnering Opportunity

Profile status : Published

Research Development Request

H2020-ICT-46-2020: Clinical partners (hospitals, nursing home) with the need of transporting patients or hospital supplies from one room to another within the hospital/nursing home

Summary

A Spanish SME specialised in ICT solutions and with wide experience in the coordination of European projects is looking for a clinical partner (outside Spain and Italy) to participate in a proposal to the call H2020-ICT-46-2020 on robotics in the clinical environment. The project aims to develop an innovative robotic platform for the intra-hospital transport of patients. Key activities will include the definition of the requirements and testing activities, in a controlled environment.

Creation Date	13 February 2020
Last Update	13 February 2020
Expiration Date	23 March 2020
Reference	RDES20200213001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/eb8eef94-fd4a-4a2b-8737-fc21073b8421

Details

Description

The project TransBot aims to develop an innovative robotic platform able to perform the perception, understanding, manipulation and navigation tasks in complex and crowded environments, supported by a natural Human-Robot Interaction with all actors involved (e.g., nurses) in the intra-hospital transport of non-ICU (Intensive Care Unit) patients by improvement of these technologies over the current state of the art. These advances will

ensure both safety and mitigation of adverse impacts, including those due to human factor error (e.g., delays, falls, treatment interruption), as well as allowing a correct planning and execution of this assistive clinical process, while reducing workload of clinical staff.

Framework programme conditions: Research and Innovation action, single-stage evaluation.

Call deadline: April 22nd.

Deadline for expressions of interest: March 23rd.

The partners sought are end users - Clinical partners (hospitals, nursing homes) with the need of transport patients or hospital supplies from a room to another within the hospital/nursing home.

Advantages and innovations

TransBot aims to perform an improvement in technical capability in AI, cognition and cognitive mechatronic over the current state of the art RAS (Remote Access Service) technologies. These advances crystallize in an innovative robotic platform which is able to perform the perception, understanding, manipulation and navigation in complex and crowded environments, supported by an intuitive (or natural) Human-Robot Interaction (including social navigation) with all involved actors involved (e.g., nurses) in the intrahospital transport of non-ICU patients. These advances will ensure safety and mitigate adverse impacts in patients, including those due to human factor error (e.g., delays, falls and treatment interruption). Additionally, TransBot allows a correct planning and execution of this assistive clinical process, while reducing workload of clinical staff, and ensuring that advances in the above technologies cover a broad spectrum of applications beyond the health sector, such as agri-food, agile production and infrastructure inspection and maintenance.

Stage of development

Proposal under development

Keywords

Technology

01001001	Automation, Robotics Control Systems
01004001	Applications for Health
06001012	Medical Research
06001013	Medical Technology / Biomedical Engineering

Market

05004001	Electromedical and medical equipment
05007003	Handicap aids
08002004	Robotics

Network Contact

Issuing Partner

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

Contact Person

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Open for EOI: **Yes**

Dissemination

Relevant sector groups

Healthcare

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

Partner sought: care organisation who would be interested in a system to support the intra-hospital transport (patients in a wheelchair or hospital bed).
Role of the partner: end-user of the system.

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME <10,>500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Research cooperation agreement

Program - Call

Framework Program

ICT for health, ageing well and inclusion

Call title and identifier

ICT-46-2020: Robotics in Application Areas and Coordination & Support

Submission and evaluation scheme

Single-stage

Anticipated Project Budget

€ 6 million

Coordinator required

No

Acronym

Transbot - Advances in robotic capabilities for the healthcare sector: Smart robotic platform to assist clinical staff to improve intra-hospital transport of non-critical patients

Duration

156 days

Deadline for EOI

23 Mar 2020

Deadline of the Call

22 Apr 2020

Weblink to the call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ict-46-2020>

Attachments
