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Planning

Alternative technologies to platform edge doors (PEDs)

Connected Places Catapult

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-026448

Procurement identifier (OCID): ocids-h6vhtk-036a40

Published 21 September 2022, 5:23pm

Section I: Contracting authority

I.1) Name and addresses

Connected Places Catapult

3rd Floor The Pinnacle, 170 Midsummer Boulevard

Milton Keynes

MK9 1BP

Contact

Mr Raj Ragiwala

Email

raj.ragiwala@cp.catapult.org.uk

Telephone

+44 1908359999

Country

United Kingdom

Region code

UK - United Kingdom

Internet address(es)

Main address

<http://cp.catapult.org.uk>

Buyer's address

<https://procontract.due-north.com/Register>

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Other type

Integrated transport authority

I.5) Main activity

Other activity

Transportation

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Alternative technologies to platform edge doors (PEDs)

Reference number

DN624010

II.1.2) Main CPV code

- 60000000 - Transport services (excl. Waste transport)

II.1.3) Type of contract

Services

II.1.4) Short description

Connected Places Catapult is working with the Department for Transport (DfT) to explore innovative technical solutions to provide safety for passengers at the platform train interface in a driverless environment and in the absence of platform edge doors (PEDs).

We are considering the business case of whether these solutions can be implemented to provide a more affordable alternative to Platform Edge Doors (PEDs) while maintaining current safety and performance levels across the network.

Transport for London (TfL) conducted market engagement on this topic in 2021 and continues to be engaged in this workstream. Any previous participation from your organisation is appreciated and we welcome your continued support. New respondents are also welcomed. Over the coming year, this programme is progressing to the procurement of pilot solution development and demonstrations to assess their feasibility, and to assess the current state of market readiness and maturity.

The purpose of this PIN is to notify the market of our upcoming competitive procurement of demonstrations and improve our understanding of market/supplier appetite and capability to deliver the proposed demonstration and development activities. We want to understand the market's perception of risks and opportunities to deliver within our expected timescales.

Solutions should control the risks that are currently controlled by the train operator, to support driverless or unattended train operations. This may include the following safety

functions:

- a. Supervise the guideway: including prevention of collisions with objects or persons in the guideway clearance*. This could be achieved through detection or prevention of people/objects on the track or beyond safe clearance of the platform edge.
- b. Supervise passenger transfer: including prevention of injuries to persons between platform and train such as prevention or mitigation of harm from falling down the gap, or harm caused by contact with the train.
- c. Ensure safe starting conditions: including prevention of accidents on train movement out of the platform such as prevention of harm due to dragging of persons or objects trapped in the doors.

We intend to award up to a total of £1.2million to between 2 and 5 suppliers to deliver demonstrations of some or all of the functionality of their solutions from December 2022 to March 2023. The demonstrations will take place in a testing environment which is representative of London Underground.

Connected Places Catapult will be holding virtual drop-in sessions on Tuesday 27 September and Wednesday 28 September where we will answer any initial questions. You can find out more information, and register at link:

<https://www.eventbrite.co.uk/e/platform-edge-technologies-supplier-session-tickets-424047526567>

Please view and respond to the Market Sounding Questionnaire <https://procontract.due-north.com/Advert?advertId=b52895df-b839-ed11-8119-005056b64545>

Responses must be submitted at the latest by 12 October 2022 by 12:00 hrs through the email facility in the Procurement Portal at link above.

*"Guideway clearance" - pre-defined space around the track defined relatively to the track and such that trains in motion cannot, while under operating conditions, come into contact with persons or property fully outside this space.

II.1.5) Estimated total value

Value excluding VAT: £1,200,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 60100000 - Road transport services
- 72000000 - IT services: consulting, software development, Internet and support
- 73000000 - Research and development services and related consultancy services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

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II.3) Estimated date of publication of contract notice

26 October 2022

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes