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Planning

Crisis Response and Resilience Digital Twin (CRDT)

Department for Transport

F01: Prior information notice

Prior information only

Notice identifier: 2025/S 000-015380

Procurement identifier (OCID): ocds-h6vhtk-050390

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Section I: Contracting authority

I.1) Name and addresses

Department for Transport

London

SW1P 4DR

Contact

Jason Thrupp

Email

jason.thrupp@dft.gov.uk

Telephone

+44 7483980296

Country

United Kingdom

Region code

UK - United Kingdom

Justification for not providing organisation identifier

Not on any register

Internet address(es)

Main address

www.dft.gov.uk

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Ministry or any other national or federal authority

I.5) Main activity

General public services

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Crisis Response and Resilience Digital Twin (CRDT)

Reference number

TBC

II.1.2) Main CPV code

- 48000000 - Software package and information systems

II.1.3) Type of contract

Supplies

II.1.4) Short description

The DfT requires an analytical platform, that is robust, scalable, user-friendly and capable of combining methods across analytical disciplines to improve the DfT's Crisis Response and Resilience capabilities. Recognising the rapid pace of change in technology and the range of possible technological methodologies, DfT is using an outcomes-based approach to enable innovation and use of novel data and technologies, including Artificial Intelligence (AI).

We will be going to market via the CCS Spark DPS Framework and suppliers who are interested but not on the Framework are able to join, information and guidance -

<https://www.crowncommercial.gov.uk/agreements/RM6094>

II.1.5) Estimated total value

Value excluding VAT: £500,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 48000000 - Software package and information systems

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

Main site or place of performance

At suppliers office with occasional visits to the Department for Transport, Horseferry Road, Westminster.

II.2.4) Description of the procurement

The aim of this work is to create a platform capable of identifying disruptions across transport modes in a timely fashion using a variety of data sources, estimate and inform users of their likely impact to people and goods, track developments, model potential interventions and gather learnings for future use. While the appraisal of options does not need to be consistent with the Transport Appraisal Guidance, and more emphasis is expected on the estimated number of people, threat level and disruption duration, all modelling capabilities need to be appropriate, reliable and have proportionate quality assurance.

The disruptions in scope are those highlighted at the National Risk Register (NRR, 2025), and the key users of this system are DfT teams. Additionally, insights should be shareable for collaboration across government including other departments (such as the Cabinet Office), Local Resilience Forums and DfT Arm's Length Bodies (such as National Highways) who will have their own systems that CRDT. Enabling safe and timely collaboration between DfT, its Arms Length Bodies, local authorities, across-government and with first responders.

It is expected that this will be a multi-year programme, with break clauses. The supplier will be responsible for the delivery of the end-to-end analytical platform, which will also allow further model development by the DfT and other subcontractors.

Recognising the fast development of data sources, ranging from sensors, to mobile-phone and satellite applications, it is expected that this platform will enable new data sources to be dynamically added over time.

II.2.14) Additional information

Current situation

The recent combined impacts of COVID-19, global geo-political disruptions, extreme weather events and accidents, have led to significant disruption in UK mobility of people and goods. While any individual major risk remains a low probability, it is evident that major disruptions are becoming more frequent.

The day-to-day management of the different parts of the transport network

II.3) Estimated date of publication of contract notice

26 May 2025

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: No

Section VI. Complementary information

VI.3) Additional information

This requirement will be let via the CCS Spark DPS RM6094 Framework. This notice is to alert the market of that fact and allow those who are interested to join the DPS Framework. Framework can be accessed here :

<https://www.crowncommercial.gov.uk/agreements/RM6094>