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Planning

Research and Innovation Testbed in Brighton

Digital Catapult

F01: Prior information notice

Prior information only

Notice identifier: 2021/S 000-017214

Procurement identifier (OCID): ocds-h6vhtk-02caac

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Section I: Contracting authority

I.1) Name and addresses

Digital Catapult

101 Euston Road

London

NW1 2RA

Email

procurement@digicatapult.org.uk

Telephone

+44 3001233101

Country

United Kingdom

NUTS code

UKI31 - Camden and City of London

Internet address(es)

Main address

www.digicatapult.org.uk

Buyer's address

https://www.mytenders.co.uk/search/Search_AuthProfile.aspx?ID=AA37289

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Research and Innovation

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Research and Innovation Testbed in Brighton

II.1.2) Main CPV code

• 32400000 - Networks

II.1.3) Type of contract

Supplies

II.1.4) Short description

The aim of this procurement is to upgrade the 5G Brighton Testbed established by Digital Catapult, distributed across two locations in Brighton.

II.1.5) Estimated total value

Value excluding VAT: £350,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 32412000 Communications network
- 32412110 Internet network
- 32412100 Telecommunications network
- 32418000 Radio network
- 32420000 Network equipment
- 32422000 Network components
- 32424000 Network infrastructure
- 48821000 Network servers

II.2.3) Place of performance

NUTS codes

• UKJ21 - Brighton and Hove

Main site or place of performance

Brighton

II.2.4) Description of the procurement

Digital Catapult wishes to find a partial or preferably a full solution for the requirements below.

The system should provide coverage in 4 indoor areas:

? Area 1: 1000 Sqm, Area 2: 40 sqm Area 3:75 sqm, Area 4: 200 sqm height 4m-8m;

The system should provide the following 5G configurations:

? 5G SA (3GPP Option 2), 5G NSA (3GPP Option 3x) -- optional, NB-IoT and LTE-M support (optional);

The system should provide the following services:

? eMBB with peak data rate of at least +3Gbps per cell;

? average user throughput 100Mbps downlink / uplink for up to 30 simultaneous users per cell and in total 60 simultaneous users across the coverage area (multiple cells);

? URLLC service with less than 4 ms (Round Trip) at local edge compute;

? 1000 connected IoT devices (optional);

The RAN should provide the following features:

? Support eMBB Channel BW of 100MHz;

? Indoor unit should be Ofcom compliant w.r.t radiation power, with ability to control radiation power in the range of -5dBm - 24 dBm;

The RAN should operate in the following spectrum:

? 5G SA n77 (3.8GHz-4.2GHz) (3.6GHz-3.8GHz Optional),

? 5G NSA n77(3.8GHz-4.2GHz) LTE B3 (1781.7-1785 MHz 1876.7-1880 MHz);

? LTE-M/NB-IoT Band 3 (1781.7 to 1785 MHz paired with 1876.7 to 1880 MHz) - optional;

? mmWave 24.25-26.5 GHz -optional

The 5G Core should provide the following capabilities:

? support for eMBB (>700Mbps per UE);

? support for ultra low latency networking (