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Future opportunity

## **Research and Innovation Testbed in Brighton**

Digital Catapult

F01: Prior information notice

Prior information only

Notice reference: 2021/S 000-017214

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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](mailto: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](http://www.digicatapult.org.uk)

Buyer's address

[https://www.mytenders.co.uk/search/Search\\_AuthProfile.aspx?ID=AA37289](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

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## **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 (