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
Published 21 July 2021, 2:24pm

## 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 (