

Belgium-Brussels: Hybrid PNT Study (HybPNT): LEO Constellations, 5G, HAPS and GNSS Integration

OJ S 206/2022 25/10/2022

Contract notice

Services

Legal Basis:

Regulation (EU, Euratom) No 2018/1046

Section I: Contracting authority

I.1. Name and addresses

Official name: European Commission, Directorate-General for Defence Industry and Space (DEFIS), DEFIS.C.2 – Satellite Navigation

Postal address: Avenue d'Auderghem 45

Town: Brussels

NUTS code: BE100 Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Postal code: 1049

Country: Belgium

E-mail: defis-gp2-call-for-tenders@ec.europa.eu

Internet address(es):

Main address: https://ec.europa.eu/info/departments/defence-industry-and-space_en

I.3. Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://etendering.ted.europa.eu/cft/cft-display.html?cftId=11987>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://etendering.ted.europa.eu/cft/cft-display.html?cftId=11987>

I.4. Type of the contracting authority

European institution/agency or international organisation

I.5. Main activity

General public services

Section II: Object

II.1. Scope of the procurement**II.1.1. Title**

Hybrid PNT Study (HybPNT): LEO Constellations, 5G, HAPS and GNSS Integration

Reference number: DEFIS/2022/OP/0009

II.1.2. Main CPV code

73100000 Research and experimental development services

II.1.3. Type of contract

Services

II.1.4. Short description

The European Commission is launching studies on the potential use of LEO constellations data in complement with or integrated with other upcoming PNT solutions and/or with GNSS services. In this context, High Altitude Pseudo Satellites (HAPS) and 5G based PNT are considered as most relevant technologies in the new paradigm of Internet of Things (IoT) and good candidate interesting for a hybridisation with space-based PNT (being either from GNSS or LEO-PNT systems).

II.1.5. Estimated total value

Value excluding VAT: 700 000,00 EUR

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description

II.2.2. Additional CPV code(s)

73100000 Research and experimental development services

II.2.3. Place of performance

NUTS code: BE100 Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Main site or place of performance: Please consult the procurement documents available at the address indicated in Section I.3).

II.2.4. Description of the procurement

In this procurement the European Commission aims at investigating the following areas in detail:

- how the available or upcoming LEO-PNT services will impact the provision of PNT services according to their specific architectures;
- what is the current status of the HAPS-5G PNT services and how they can be exploited together with new LEO constellations and GNSS (and Galileo in particular);
- understand the characteristics of each PNT system (LEO-PNT, HAPS, 5G) and the specific differentiators, including a detailed characterisation of an eventual dependency from the existing GNSS infrastructure;
- how the various combinations of LEO-PNT, HAPS and 5G PNT can be integrated with GNSS (and Galileo in particular) and which is the best hybridization solution (labelled in this document with the acronym 'HybPNT') for a target user category;
- how effective is LEO-PNT capability, integrated or not in the HybPNT framework, to deploy new PNT features and fill the provision gap of the conventional GNSS solutions;
- definition, implementation at SW level and validation through end to end simulations the PNT terminal design for the next generation users. This must be seen as an instrument that can be used beyond the project lifetime, as a tool that can continue supporting analyses in the context of synergies of GNSS with other PNT systems

II.2.5. Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6. Estimated value

Value excluding VAT: 700 000,00 EUR

II.2.7. Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 18

This contract is subject to renewal: no

II.2.10. Information about variants

Variants will be accepted: no

II.2.11. Information about options

Options: no

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
yes

Identification of the project: Please consult the procurement documents available at the address indicated in Section I.3).

II.2.14. Additional information

Please consult the procurement documents available at the address indicated in Section I.3).

Section III: Legal, economic, financial and technical information

III.1. Conditions for participation

III.1.1. Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers

List and brief description of conditions:

Please consult the procurement documents available at the address indicated in Section I.3).

III.1.2. Economic and financial standing

Selection criteria as stated in the procurement documents

III.1.3. Technical and professional ability

Selection criteria as stated in the procurement documents

III.2. Conditions related to the contract

III.2.2. Contract performance conditions

Please consult the procurement documents available at the address indicated in Section I.3).

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Open procedure

IV.1.3. Information about a framework agreement or a dynamic purchasing system

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

The procurement is covered by the Government Procurement Agreement: yes

IV.2. Administrative information

IV.2.2. Time limit for receipt of tenders or requests to participate

Date: 09/12/2022 Local time: 16:00

IV.2.3. Estimated date of dispatch of invitations to tender or to participate to selected candidates

IV.2.4. Languages in which tenders or requests to participate may be submitted

Bulgarian, Czech, Danish, German, Greek, English, Spanish, Estonian, Finnish, French, Irish, Croatian, Hungarian, Italian, Lithuanian, Latvian, Maltese, Dutch, Polish, Portuguese, Romanian, Slovak, Slovenian, Swedish

IV.2.6. Minimum time frame during which the tenderer must maintain the tender

Duration in months: 6 (from the date stated for receipt of tender)

IV.2.7. Conditions for opening of tenders

Date: 12/12/2022 Local time: 10:00

Place:

Avenue d'Auderghem 45, 1049 Brussels, BELGIUM.

Information about authorised persons and opening procedure: Please consult the procurement documents available at the address indicated in Section I.3).

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.2. Information about electronic workflows

Electronic invoicing will be accepted

Electronic payment will be used

VI.3. Additional information

Please consult the procurement documents available at the address indicated in Section I.3).

VI.4. Procedures for review**VI.4.1. Review body**

Official name: General Court of the European Union

Postal address: rue du Fort Niedergrünwald

Town: Luxembourg

Postal code: L-2925

Country: Luxembourg

Telephone: +352 4303-1

Internet address: <http://curia.europa.eu>

VI.4.3. Review procedure

Precise information on deadline(s) for review procedures:

Please consult the procurement documents available at the address indicated in Section I.3).

VI.5. Date of dispatch of this notice

18/10/2022