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Planning

GSCIP Data analysis and visualisation tools

Department for International Trade

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-034143

Procurement identifier (OCID): ocds-h6vhtk-038a10

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Section I: Contracting authority

I.1) Name and addresses

Department for International Trade

Old Admiralty Building

London

SW1A 2BL

Email

commercialbpo@trade.gov.uk

Country

United Kingdom

Region code

UK - United Kingdom

Internet address(es)

Main address

www.gov.uk/government/organisations/department-for-international-trade

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

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

GSCIP Data analysis and visualisation tools

II.1.2) Main CPV code

- 48324000 - Charting software package

II.1.3) Type of contract

Supplies

II.1.4) Short description

This PIN is for Market Engagement purposes only. DIT leads a cross-government pilot to test the feasibility and value of combining government and private sector data sets to build global supply chain understanding. The heart of this pilot is a graph database which is enhanced by adding other data sets which we provide or procure, to probabilistically infer relationships between products, entities, and geolocations for global supply chain mapping. This PIN is to engage with data analysis and visualisation software providers who can supply data analysis and visualisation tools that can be used to analyse and display our knowledge graph data and relationships to improve our supply chain mapping capabilities.

II.1.5) Estimated total value

Value excluding VAT: £400,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 48610000 - Database systems
- 48611000 - Database software package

- 48612000 - Database-management system
- 48614000 - Data-acquisition system
- 72321000 - Added-value database services

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

The Global Supply Chains Intelligence Pilot (GSCIP) is a pilot project led by DIT and supported by five other departments which has combined government and private sector data to build detailed global supply chain maps using a knowledge graph (currently provided by Altana), and graph data analysis and visualisation tools. We are engaging with the market to find potential partners for a further two years of development and testing of this concept (April 2023-March 2025.) We currently have around 25 analysts testing specific use cases across the six departments, but we expect the number of departments and analysts may increase during the next two years and some operational use cases will arise in response to global events.

The current prototype infrastructure comprises a secure digital environment for storing, linking, and analysing HMG, commercial and open-source data. The environment features graph database capabilities, specialist data visualisation software, and analysis tools, such as Spark SQL, Python and R, for supply chain mapping. The prototype resides within the core DIT infrastructure.

We would like to hear from companies that already have graph database analysis and visualisation software which can be deployed to our infrastructure and be used to interrogate our knowledge graph by analysts without coding skills. The visualisation part of the software needs to be able to visualize 2M+ edges without disabling features, and must be able to do interactive real-time analytics on 100M+ edges. We would like it to have connectors for various graph databases, non-graph databases, and tabular+graph files, be compatible with modern data format support (Apache Arrow etc.), and work with dominant tools such as Jupyter notebooks and StreamLit/Dash/Databricks dashboards.

Due to the sensitivity of the data, the knowledge graph and data sets will need to be assured by government data assurance processes including ISO27001 or equivalent, an ability to show evidence of a strong security posture, penetration testing by a CHECK service provider and Government Information Risk and Cyber Security assurance processes. The software should be SOC2 Type 2 + ISO27001 compliant, with continuous evidence available. In

addition, any supplier staff having access to our copy of the knowledge graph will need to have SC security clearance.

We expect to have a decision on funding for the continuation of the GSCIP in December 2022 and will have limited time to procure the required analytical tools before the current agreements end in March 2023. For this reason, we are only engaging with suppliers that already have the tools that we require so that they can be procured in March 2023 and available for use in April 2023.

The estimated value for analysis and visualisation tools for the two-year pilot continuation above is only our best current estimate of what our budget will allow. We may be funded at a higher or lower level.

II.2.14) Additional information

For these procurements we are likely to use CCS framework agreements such as G-Cloud 13, Spark DPS or AI DPS. The latter two can be joined at any time:

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

<https://www.crowncommercial.gov.uk/agreements/RM6200>

II.3) Estimated date of publication of contract notice

1 December 2022

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: Yes