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Planning

GSCIP Knowledge Graph

Department for International Trade

F01: Prior information notice

Prior information only

Notice identifier: 2022/S 000-034148

Procurement identifier (OCID): ocds-h6vhtk-038a14

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Section I: Contracting authority

I.1) Name and addresses

Department for International Trade

Old Admiralty Building

London

SW1A 2DY

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 Knowledge Graph

II.1.2) Main CPV code

- 48610000 - Database systems

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. At the heart of this pilot is a ring-fenced graph database stored in our own secure Virtual Private Cloud (VPC). This graph database should contain data sets and machine learning software that can interrogate the included

data sets, and other data sets which we provide or procure, to probabilistically reveal relationships between products, businesses, and geolocations for global supply chain mapping. In addition to the knowledge graph, the supplier will provide SC cleared data engineering support to integrate additional data sets and maintain the platform.

II.1.5) Estimated total value

Value excluding VAT: £2,000,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 48611000 - Database software package
- 48612000 - Database-management system
- 48613000 - Electronic data management (EDM)
- 48614000 - Data-acquisition system
- 72311100 - Data conversion services
- 72316000 - Data analysis services
- 72321000 - Added-value database services
- 72322000 - Data management 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 at commodity and company level 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, integrating, 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 a knowledge graph, data sets, and analysis tools including a User Interface and API, that can be used for supply chain mapping of products, entities, geolocations, and the risks associated with those. The data, software, and tools should be deployed onto our IT infrastructure and/or onto a commercial VPC server that we control and we will require the supplier to integrate additional data sets into the knowledge graph using entity resolution and data fusion processes. 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. 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 data and data tools before the current agreements end in March 2023. For this reason, we are only engaging with suppliers that already have the data and tools that we require so that they can be procured in March 2023 and available for use in April 2023.

The estimated value for a knowledge graph and services 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