



Request for Proposal: IC 209383

## SEND BIDS TO:

Innovation, Science and Economic  
Development Canada  
Contracts & Materiel Management  
[crcbidreceiving-  
receptiondesoffrescrc@ised-isde.gc.ca](mailto:crcbidreceiving-receptiondesoffrescrc@ised-isde.gc.ca)

<b>Title</b> <b>Crowdsourced Wireless Data</b>	
<b>Solicitation N°</b> IC 209383	<b>Date</b> December 8, 2023
<b>Solicitation Closes</b> At 14:00 on January 10, 2024	<b>Time Zone</b> Eastern Standard Time (EST)
<b>F.O.B.</b> 3701 Carling Avenue, Ottawa, Ontario K2K 2Y7	
<b>Address inquiries to:</b> <a href="mailto:crcbidreceiving-receptiondesoffrescrc@ised-isde.gc.ca">crcbidreceiving-receptiondesoffrescrc@ised-isde.gc.ca</a>	
<b>Telephone N°</b> 343-572-8900	<b>Email address</b> <a href="mailto:crcbidreceiving-receptiondesoffrescrc@ised-isde.gc.ca">crcbidreceiving- receptiondesoffrescrc@ised-isde.gc.ca</a>
<b>Destination – of Goods, Services or Construction</b> 3701 Carling Avenue, Ottawa, Ontario K2K 2Y7	

## REQUEST FOR PROPOSAL

### Proposal to: Innovation, Science and Economic Development Canada

We hereby offer to sell to His Majesty the  
King in right of Canada, in accordance with  
the terms and conditions set out herein,  
referred to herein or attached hereto, the  
goods, services, and construction listed  
herein and on any attached sheets at the  
price(s) set out hereof.

Instructions: See Herein

### Issuing Office:

Innovation, Science and Economic  
Development Canada  
Contracts & Materiel Management  
3701 Carling Avenue  
Ottawa, ON  
K2K 2Y7

<b>Delivery Required:</b> See Herein
<b>Vendor/firm Name and full address</b>
<b>Telephone No.</b>
<b>Name and title of person authorized to sign on behalf of the Bidder (type or print)</b>
<b>Signature</b> _____ <b>Date</b> _____



# **Request for Proposal (RFP)**

**For the provision of**

**Crowdsourced Wireless Data**

**for**

**Innovation, Science and Economic  
Development Canada formerly known  
as Industry Canada**

Although IC was renamed Innovation, Science and Economic Development Canada (ISED) for communication purposes, the legal name remains Industry Canada in policy instruments and in legal documents including contracts.



**TABLE OF CONTENTS**

**PART 1 - GENERAL INFORMATION ..... 5**

1.1 INTRODUCTION.....5

1.2 SUMMARY .....5

1.3 DEBRIEFINGS .....5

**PART 2 - BIDDER INSTRUCTIONS ..... 5**

2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS .....6

2.2 SUBMISSION OF BIDS.....6

2.3 FORMER PUBLIC SERVANT.....6

2.4 ENQUIRIES - BID SOLICITATION.....6

2.5 APPLICABLE LAWS.....7

2.6 IMPROVEMENT OF REQUIREMENT DURING SOLICITATION PERIOD .....7

2.7 BASIS FOR CANADA'S OWNERSHIP OF INTELLECTUAL PROPERTY .....7

2.8 BID CHALLENGE AND RECOURSE MECHANISMS.....7

**PART 3 - BID PREPARATION INSTRUCTIONS ..... 8**

3.1 BID PREPARATION INSTRUCTIONS .....8

**PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION ..... 9**

4.1 EVALUATION PROCEDURES.....9

4.2 BASIS OF SELECTION.....10

**PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION ..... 12**

5.1 CERTIFICATIONS REQUIRED WITH THE BID .....12

**PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS..... 12**

6.1 SECURITY REQUIREMENTS .....12

**PART 7 - RESULTING CONTRACT CLAUSES ..... 13**

7.1 STATEMENT OF WORK.....13

7.2 OPTIONAL SERVICES .....13

7.3 STANDARD CLAUSES AND CONDITIONS .....13

7.4 SECURITY REQUIREMENTS .....13

7.5 TERM OF CONTRACT .....13

7.6 AUTHORITIES .....14

7.7 PROACTIVE DISCLOSURE OF CONTRACTS WITH FORMER PUBLIC SERVANTS .....14

7.8 PAYMENT .....15

7.9 INVOICING INSTRUCTIONS .....16

7.10 CERTIFICATIONS AND ADDITIONAL INFORMATION.....16

7.11 APPLICABLE LAWS.....17

7.12 PRIORITY OF DOCUMENTS .....17

7.13 DISPUTE RESOLUTION.....17

**ANNEX “A” ..... 18**

STATEMENT OF WORK .....18

**ANNEX “B” ..... 22**

BASIS OF PAYMENT .....22

**ANNEX “C” ..... 25**



**Request for Proposal: IC 209383**

MANDATORY / POINT-RATED CRITERIA .....	25
<b>ANNEX “D” .....</b>	<b>30</b>
DATA PARAMETER REQUIREMENTS .....	30
<b>ANNEX “E” .....</b>	<b>34</b>
FORMER PUBLIC SERVANT .....	34



## PART 1 - GENERAL INFORMATION

### 1.1 Introduction

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides Bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications and Additional Information: includes the certifications and additional information to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by Bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

### 1.2 Summary

1.2.1 Innovation, Science and Economic Development, Communications Research Centre at 3701 Carling Ave, Ottawa ON requires a Contractor to provide Crowdsourced Wireless Data Services.

This bid solicitation is to establish a service contract for the delivery of the requirement detailed in the bid.

The period of any resulting Contract shall be for a period of one **(1) year with two (2) option years**. The estimated commencement date is February 1, 2024.

1.2.2 There are no security requirements associated with this requirement.

1.2.3 Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

### 1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

## PART 2 - BIDDER INSTRUCTIONS



## 2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

As this solicitation is issued by Innovation, Science and Economic Development (ISED), any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this solicitation, including any individual SACC clauses incorporated by reference, will be interpreted as reference to ISED or its Minister.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2023-06-08) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days  
Insert: 120 days

## 2.2 Submission of Bids

### Instructions for Submitting a Tender

Your tender may be submitted by the following delivery method:

**By e-mail:** [crcbidreceiving-receptiondesoffrescrc@ised-isde.gc.ca](mailto:crcbidreceiving-receptiondesoffrescrc@ised-isde.gc.ca)

Bids must be submitted only to ISED CRC Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

The Innovation, Science and Economic Development (ISED) will not assume responsibility for bids and/or amendments directed to any other location.

All submitted proposals become the property of Canada and will not be returned to the originator.

## 2.3 Former Public Servant

As per SACC Manual clause [A3025C](#) in Part 7- refer to Annex E

## 2.4 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as



such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

## **2.5 Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## **2.6 Improvement of Requirement During Solicitation Period**

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 10 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## **2.7 Basis for Canada's Ownership of Intellectual Property**

### **4006 07 (2008-05-12) License to Intellectual Property Rights to Canada's Information**

1. Any information supplied by Canada to the Contractor for the performance of the Work remains the property of Canada. The Contractor must use Canada's Information only to perform the Contract.
2. If the Contractor wants to use any information owned by Canada for the commercial exploitation or further development of the Foreground Information, the Contractor must obtain a license from the department or agency for which the Contract is performed. In its request for a license to that department or agency, the Contractor must explain why the license is required and how the Contractor intends to use the information. If the department or agency agrees to grant a license, conditions will be negotiated between the Contractor and that department or agency and may include the payment of a compensation to Canada.

Through this contract, the contractor grants ISED a sole Intellectual Property licence giving ISED the right in perpetuity to use, store and transform the data, sometimes via the help of contractors and collaborators. ISED may not share the original data with any 3rd parties (such as external collaborators) without prior authorization from the vendor.

## **2.8 Bid Challenge and Recourse Mechanisms**

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
  - Office of the Procurement Ombudsman (OPO)
  - Canadian International Trade Tribunal (CITT)



- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

### **PART 3 - BID PREPARATION INSTRUCTIONS**

#### **3.1 Bid Preparation Instructions**

Bidders must prepare their proposal in two (2) separately bound sections as follows:

##### **SECTION 1 – TECHNICAL SUBMISSION (1 attachment) (with no reference to price)**

This section must include your response to the Mandatory and Point Rated Criteria in the RFP to be considered responsive.

##### **SECTION 2 – FINANCIAL SUBMISSION (1 attachment)**

This section must include the duly completed and signed Bid and Acceptance Form provided in Annex B of this RFP.

**Note:** Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

When using the e-mail method, bids must be submitted in one e-mail with two (2) separate attachments clearly identified as follows:

- i) Technical Bid; and
- ii) Financial Bid.

All attachments must contain RFP number (**IC 209383**).

#### **IMPORTANT NOTICE TO BIDDERS**

**Tenders submitted to any e-mail address or mailing address other than that stated herein will not be considered. ISED will not assume responsibility for misdirected tenders. Tenders must be submitted before the specified tender closing date and time. ISED will not assume responsibility for tenders received after the tender closing date and time.**

##### **3.1.1 Section Annex B: Financial Bid**

Bidders must submit their financial bid in accordance with Basis of Payment in Annex "B".

##### **3.1.2 Electronic Payment of Invoices**

Monthly invoices will be submitted for payment based on value of work done contingent upon Innovation, Science and Economic Development Canada's satisfaction with the Work subject to the Project Authority's approval.

##### **Insufficient Funding:**

In the event that the lowest compliant bid exceeds the amount of funding allocated to the Work, Innovation, Science and Economic Development Canada in its sole discretion may:

- a. cancel the solicitation; or
- b. obtain additional funding and award the Contract to the Bidder submitting the lowest compliant bid; and/or





- c. Negotiate a reduction in the bid price and/or scope of work of not more than 25% with the Bidder submitting the lowest compliant bid. Should an agreement satisfactory to Innovation, Science and Economic Development Canada not be reached, Innovation, Science and Economic Development Canada shall exercise option (a) or (b).

### **3.1.3 SACC Manual Clauses**

#### **Section C: Certifications**

Bidders must submit the certifications and additional information required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

#### **4.1.1 Technical Evaluation**

#### **4.1.2 Proposal**

It is essential that the elements contained in the Proposal(s) be stated in a clear manner and in sufficient depth to allow for evaluation by the evaluation team.

This section comprises the detailed Proposal requirements that will be used to evaluate the Bidder's responses to the Request for Proposal (RFP).

An evaluation team composed of representatives of Canada will evaluate the bids.

#### **4.1.3 Mandatory Criteria**

##### **Mandatory Technical Criteria**

Each bid will be reviewed to determine whether it meets the mandatory requirements of the bid solicitation. Any element of the bid solicitation that is identified specifically with the words "must" or "mandatory" is a mandatory requirement. Bids that do not comply with each mandatory requirement will be considered non-compliant.

##### **Point-Rated Technical Criteria:**

Each bid will be rated by assigning a score to the rated requirements, which are identified in the bid solicitation by the word "rated" or by reference to a score. Bidders who fail to submit complete bids with all the information requested by this bid solicitation will be rated accordingly. The rated requirements are described in Annex "(C)" - Evaluation Criteria

#### **4.1.5 Financial Evaluation**

#### **4.1.6 Mandatory Financial Criteria**

SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price-Bid

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.



**Request for Proposal: IC 209383**

Complete and submit the Financial Submission Form attached hereto as Annex B. It must be submitted as a separate attachment than the Technical Proposal. \*\*Please note: the US Data option are not part of the financial evaluation.

**4.2 Basis of Selection**

The contractor selection method will be determined on the basis of the following steps:

Basis of Selection - Highest Combined Rating of Technical Merit 60% and Price 40% (excluding US data pricing option).

- Only those contractors who meet all of the Mandatory Requirements and who achieve (or exceed) the stated minimum points in the Rated Requirements Evaluation will be deemed compliant and will be considered to proceed with the opening of the Financial Submission.
- To arrive at an overall Total Score achieved by a compliant contractor, a weighting has been established whereby technical merit will be valued at 60% and price will be valued at 40%. (excluding the option US data pricing)
- The calculation used to determine the contractor's Total Score will be:

**Formula:**

In this formula, the Contractor's Technical Score is the number of points achieved (maximum 60) in the assessment of the point-rated requirements while the Contractor's Financial Score is based on the number of points (maximum 40) in the assessment of the per diem rate.

$$\text{Contractor Rated Score} = \frac{\text{Lowest Bidder Price}}{\text{Contractor Price}} \times 40 + \text{Technical Score}$$

**Calculation Example:**

Description	Bidder A	Bidder B	Bidder C
Contractor Technical Score Received (Max. possible 60 pts.)	60	55	57
Contractor Bid Price From: Financial Submission Form	\$400,000.00	\$300,000.00	\$350,000.00

**Final Score Evaluation Calculation:**

Bidder	Technical Score	Financial Score	Total Score
Bidder A	60	$(\$300,000.00 / \$400,000.00) \times 40 = 30$	90
Bidder B	55	$(\$300,000.00 / \$300,000.00) \times 40 = 40$	95
Bidder C	57	$(\$300,000.00 / \$350,000.00) \times 40 = 34.29$	91.29



**Request for Proposal: IC 209383**

In this example, **Bidder B** would be recommended for contract award.

In the event that two or more bidders have an identical total of the technical and financial score, the selection will be made by following the steps in the order as they appear below. If all bidders are equivalent on number 1, proceed to number 2, and so forth until a winner is chosen.

Examples:

1. The Bidder who has been registered in the province of Ontario and has been in operation for more than three (3) years from the date of issue of this RFP.
2. Draw names from a hat or a simple coin toss (Any one of these methods must be used in the presence of the concerned bidders and the mutually agreed solution should involve legal advice).

Contractors will not be reimbursed for the cost of responding to this Request for Proposal

Note: Innovation, Science and Economic Development Canada may choose to terminate the evaluation of any tender upon the first finding of non-compliance with a mandatory requirement.

Innovation, Science and Economic Development Canada reserves the right at its sole discretion to request certification, proof, references, substantiation, or any other information to support and validate the criteria enumerated below. Should the certification, proof, references, substantiation and/or any other information be found unacceptable for any reason as solely determined by Innovation, Science and Economic Development Canada, no further consideration shall be given, and the Bidder will be declared non-compliant.

**Requests for Clarifications:** If Canada seeks clarification or verification from the Bidder about its bid, the Bidder will have two working days (or a longer period if specified in writing by the Contracting Authority) to provide the necessary information to Canada. Failure to meet this deadline will result in the bid being declared non-responsive.

**Requests for Further Information:** If Canada requires additional information in order to do any of the following pursuant to the Section entitled "Conduct of Evaluation" in 2003 (2023-06-08), Standard Instructions - Goods or Services - Competitive Requirements:

1. Seek clarification or verification from bidders regarding any or all information provided by them with respect to the bid solicitation.
2. Request, before award of any contract, specific information with respect to bidders' legal status.
3. Conduct a survey of bidders' facilities and/or examine their technical, managerial, and financial capabilities to determine if they are adequate to meet the requirements of the bid solicitation.
4. Correct any error in the extended pricing of bids by using unit pricing and any error in quantities in bids to reflect the quantities stated in the bid solicitation; in the case of error in the extension of prices, the unit price will govern.
5. Verify any information provided by bidders through independent research, use of any government resources or by contacting third parties.
6. Interview, at the sole costs of bidders, any bidder and/or any or all of the resources proposed by bidders to fulfill the requirement of the bid solicitation.

The Bidder must provide the information requested by Canada within two working days of a request by the Contracting Authority.

Extension of Time: If additional time is required by the Bidder, the Contracting Authority may grant an extension in his or her sole discretion.



**Request for Proposal: IC 209383**

Failure of a Proposal to provide information in sufficient detail and depth to permit evaluation against the identified criteria may render a Proposal non-responsive.

The Bidder acknowledges and agrees that Canada is not responsible to search for, and therefore evaluate, information that is not properly referenced or is not otherwise provided in accordance with the Proposal.

The Bidder shall not place any conditions or make any assumptions that attempt to limit or otherwise modify the scope of Work pursuant to the Statement of Work (Annex A).

Specific Bidder Instructions:

- Cutting and pasting wording from the RFP into the example/project descriptions of the technical proposal does not constitute demonstrating the requirement. This must be demonstrated by specific examples of work performed by the proposed resource.
- ISED reserves the right to verify any information provided by the Bidder in response to the mandatory requirements. To this end, ISED requests a sample of the data to be provided. ISED will use the sample solely for the purpose of bid compliance verification and will discard it afterwards.

Innovation, Science and Economic Development Canada in no way guarantees that a contract will be issued based on this bid process. Due to financial limitations, Innovation, Science and Economic Development Canada reserves the right to terminate this bid process at any time.

## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue, whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

### **5.1 Certifications Required with the Bid**

Bidders must submit the following duly completed certifications as part of their bid.

#### **5.1.1 Former Public Servant**

Former Public Servant Refer to Annex E

## **PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS**

### **6.1 Security Requirements**

There are no security requirement associated with this RFP.



## PART 7 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### 7.1 Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A".

### 7.2 Optional Services

The Contractor grants to Canada the irrevocable option to acquire the services described at Annex A (optional deliverables) of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, in whole or in part, through a contract amendment.

### 7.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

#### 7.3.1 General Conditions

**2035** (2022-12-01), General Conditions - Higher Complexity - Services, apply to and form part of the Contract.

#### 7.3.2 Supplemental General Conditions

##### **4013 (2022-06-20) Compliance with on-site measures, standing orders, policies, and rules**

The Contractor must comply and ensure that its employees and subcontractors comply with all security measures, standing orders, policies or other rules in force at the site where the Work is performed.

### 7.4 Security Requirements

No security clauses associated with this RFP.

### 7.5 Term of Contract

#### 7.5.1 Period of the Contract

The period of the Contract is from date of Contract award for a **1 year period**.

#### 7.5.2 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to **two additional 1 year periods** under the same conditions. The Contractor agrees that during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at **least 15 calendar days** before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.



## 7.6 Authorities

### 7.6.1 Contracting Authority

The Contracting Authority for the Contract is:

Anne Nino  
Manager Procurement and Contracting Unit (CRC)  
Contracts & Material Management, Corporate Management Sector  
Innovation, Science and Economic Development Canada | Government of Canada  
[Anne.Nino@ised-isde.gc.ca](mailto:Anne.Nino@ised-isde.gc.ca) | Tel: 343-572-8900 | TTY: 1-866-694-8389

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

### 7.6.2 Project Authority

The Project Authority for the Contract: (*To be entered at contract award*)

The Project Authority is the representative of Innovation, Science and Economic Development for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

### 7.6.3 Contractor's Representative

The Contractor's Representative responsible for general enquiries and delivery follow-up is:  
**Please fill in the below section:**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

E-mail address: \_\_\_\_\_

## 7.7 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2019-01](#) of the Treasury Board Secretariat of Canada. Refer to Annex "I".



## 7.8 Payment

### 7.8.1 Basis of Payment

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a firm price for a cost of \$\_\_\_\_\_ (*Amount to be inserted at contract award*). Customs duties are included, and Applicable Taxes are extra, if applicable.

Canada will not pay the Contractor for any changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### 7.8.2 Limitation of Price

Canada will not pay the Contractor for any modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### 7.8.3 Terms of Payment – Monthly Payments

Canada will pay the Contractor on a monthly basis for work performed during the month covered by the invoice in accordance with the payment provisions of the Contract if:

- a. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract.
- b. all such documents have been verified by Canada.
- c. the Work performed has been accepted by Canada.

*SACC Manual* clause H1008C (2008-05-12), Monthly Payment

### 7.8.4 Direct Request by Customer Department

1. Pursuant to paragraph 221 (1)(d) of the [Income Tax Act](#), R.S. 1985, c. 1 (5<sup>th</sup> Supp.), payments made by departments and agencies to contractors under applicable services contracts (including contracts involving a mix of goods and services) must be reported on a T1204 Government Service Contract Payments slip.
2. To enable departments and agencies to comply with this requirement, the Contractor must provide Canada, upon request, its business number, as applicable. (These requests may take the form of a general call-letter to contractors, in writing or by telephone)

### 7.8.5 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using the following Electronic Payment Instrument:

- a. Direct Deposit (Domestic and International).

As per Standard Acquisition Clauses and Conditions (SACC) Manual 470.55.5 Direct Deposit

- a. Contractor invoices may be paid via direct deposit. Direct deposit is an electronic fund transfer and is the preferred payment instrument by the Government of Canada (GC). Contractors are strongly encouraged but not obligated to accept payment via direct deposit. The GC offers direct deposit in Canada as well as in a large number of foreign countries (for a list, please consult the Receiver General website).
- b. While direct deposit does not carry the remittance information or "stub information", client departments and agencies can now send payment details via an email to contractors.



**Request for Proposal: IC 209383**

- c. If contractors want to receive a payment through direct deposit, they must follow the appropriate enrolment steps with the client department or agency responsible for issuing payment. Normally, a void cheque is required to document the accurate banking information.

### **7.8.6 Discretionary Audit**

The Contractor's certification that the price or rate is not in excess of the lowest price or rate charged anyone else, including the Contractor's most favoured customer, for the like quality and quantity of the goods, services or both, is subject to verification by government audit, at the discretion of Canada, before or after payment is made to the Contractor.

If the audit demonstrates that the certification is in error after payment is made to the Contractor, the Contractor must, at the discretion of Canada, make repayment to Canada in the amount found to be in excess of the lowest price or rate or authorize the retention by Canada of that amount by way of deduction from any sum of money that may be due or payable to the Contractor pursuant to the Contract.

If the audit demonstrates that the certification is in error before payment is made, the Contractor agrees that any pending invoice will be adjusted by Canada in accordance with the results of the audit. It is further agreed that if the Contract is still in effect at the time of the verification, the price or rate will be lowered in accordance with the results of the audit.

### **7.9 Invoicing Instructions**

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions along with the monthly maintenance report described in "*the Statement of Work*" of the Contract. Invoices cannot be submitted until all work identified in the invoice has been completed.

The original invoice along with the *monthly* maintenance reports must be electronically forwarded to the following address for certification and payment.

Communications Research Centre Canada  
Central Administrative Services Unit  
[casu-usac-crc@ised-isde.gc.ca](mailto:casu-usac-crc@ised-isde.gc.ca)

### **7.10 Certifications and Additional Information**

SACC Manual clause A3015C (2014-06-26), Certification

#### **7.10.1 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

#### **7.10.2 Federal Contractors Program for Employment Equity - Default by the Contractor**

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.





### 7.10.3 Canadian Content Certification

1. The Contractor warrants that the certification of Canadian Content submitted by the Contractor is accurate and complete, and that the goods, services or both to be provided under the Contract are in accordance with the definition contained in clause [A3050T](#).
2. The Contractor must keep proper records and documentation relating to the origin of the goods, services or both provided to Canada. The Contractor must not, without obtaining before the written consent of the Contracting Authority, dispose of any such records or documentation until the expiration of six (6) years after final payment under the Contract, or until settlement of all outstanding claims and disputes under the Contract, whichever is later. All such records and documentation must at all times during the retention period be open to audit, inspection and examination by the representatives of Canada, who may make copies and take extracts. The Contractor must provide all facilities for such audits, inspections and examinations, and must furnish all such information as the representatives of Canada may from time to time require with respect to such records and documentation.
3. Nothing in this clause must be interpreted as limiting the rights and remedies which Canada may otherwise have pursuant to the Contract.

### 7.11 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

### 7.12 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement.
- (b) the supplemental general conditions Part 7.
- (c) the general conditions Part 7.
- (d) Annex A, Statement of Work.
- (e) Annex B, Basis of Payment.
- (f) the Contractor's bid dated \_\_\_\_\_,

### 7.13 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".



## ANNEX "A"

### STATEMENT OF WORK

#### 1. Title

Crowdsourced Wireless Data

#### 2. Background

Innovation, Science and Economic Development (ISED) works with Canadians in all areas of the economy and in all parts of the country to improve conditions for investment, enhance Canada's innovation performance, increase Canada's share of global trade, and build a fair, efficient, and competitive marketplace.

This includes managing Canada's airwaves and overseeing its bankruptcy, incorporation, intellectual property, and measurement systems; providing financing and industry research tools to help businesses develop, import, and export; encouraging scientific research; and protecting and promoting the interests of Canadian consumers.

To deliver on its mandate, ISED builds information technology platforms and applications for spectrum data management and analysis, some of which are hosted on-premises while others are cloud-based. These platforms and applications provide users the ability to conduct custom data processing, analysis, and visualization for various data types. ISED's objective with this RFP is to make available the crowdsourced wireless data so that it can be ingested, processed, analyzed, and visualized by ISED systems in an automated fashion.

Furthermore, through its wireless R&D laboratory, the Communications Research Centre (CRC), ISED conducts research and development focused on improving the approaches and methods to manage the wireless spectrum. Related to this procurement, the specific objective is to continue and expand ongoing analysis of real-world quality of service for Telecommunication Services, to gain a better understanding of broadband availability and of wireless spectrum usage, and to use resulting insights to improve spectrum management frameworks.

#### 3. Objective

ISED is expanding its data collection initiatives on the state of Wireless services in Canada, by capturing network performance metrics reported by wireless smartphone devices.

By collecting large scale crowdsourced wireless data, ISED seeks to improve its ability to monitor the performance and availability of Telecommunications Services across Canada, and generate data-driven evidence in support of the development of regulations and policies related to radio spectrum and broadband programs .

#### 4. Scope Of Work

ISED is interested in purchasing crowdsourced wireless data, collected across Canada, consisting of geolocated measurements of wireless network access metrics via mobile networks and WiFi networks, thus directly or indirectly including connections of all types, including mobile, fixed wireline and wireless broadband, satellite, etc. Optionally, ISED is also interested in purchasing similar data for the United States of America (USA).



## 4.1 General requirements

- 4.1.1. The provided data, either from Canada or optionally from the USA, must include data across all wireless Internet access technologies, such as, Wi-Fi, mobile cellular (2G, 3G, 4G, 5G), satellite. The data shall be collected and reported from all geographic areas of Canada. The optional data from the USA may be limited to one single USA state, including all its metro, urban and rural areas, and limited to the following list of states: New York, California, Illinois, Texas.
- 4.1.2. Data must be collected free of charge to users (there may be some costs charged by the service provider strictly due to data usage, not for the test itself).
- 4.1.3. Data must be collected automatically without requiring user intervention (i.e. tests should not have been solicited by the end-users).
- 4.1.4. No personal user information shall be included in the data set(s). The data collection, storage and processing must comply with the Canadian Privacy Act. ISED shall not allow the fusing or correlation of the crowdsourced data acquired through this procurement with any other data set for the purposes of revealing or identifying any personal user information.
- 4.1.5. The data must be curated (cleaned, free of redundancies or errored data points).
- 4.1.6. The contractor shall provide background information and documentation regarding the data collection methodology, the data storage platform, and any other insights to ensure ISED can maximize the use of the data
- 4.1.7. The following information must be included for every data record:
  - a. Geolocation (latitude, longitude, altitude)
  - b. Timeliness (e.g., measurement date and time)
  - c. Internet access technology used (cable, fiber, Wi-Fi, mobile cellular (2G, 3G, 4G, 5G), satellite)
  - d. Internet performance metrics, as applicable (e.g., upload and download speed and latency, as detailed in the following section on deliverables, QoS metrics)
  - e. For radio technologies, access point ID (e.g., 3GPP global cell ID, such as 3G CGI, 4G ECGI, 5G NCGI), Radio Frequency and Signal Strength (e.g., RSSI for Wi-Fi, RSRP for 4G/LTE, etc.) for the active connection used for the Internet Speed Test (e.g., serving cellular tower), as well as passive RF measurements (e.g., serving and, as available, neighboring cellular towers).
  - f. Mobile Network Operator or ISP
  - g. Information on reporting device such as manufacturer and model

For a detailed list of the parameters required, refer to Annex D.

## 4.2 Technical requirements

### 4.2.1 Data granularity

The latitude and longitude coordinates of the measurements shall be reported in degrees with a minimum of 5 decimal points precision. Only in areas with a very low density of measurements, and limited to less than 5% relative to the total number of measurements, a lower geographic precision may be acceptable to protect user privacy. The contractor shall provide a detailed justification and description of their obfuscation criteria in such cases.

The altitude of the measurements shall be reported in meters with a precision of 1m or better.



The measurement date and time shall be reported with a granularity of 1 hour or better.

#### 4.2.2 Number of measurements

The crowdsourced Canada wireless data must meet the following average monthly requirements (averaged over the past 12 months):

- a. The contractor must provide crowdsourced wireless data from at least 100,000 unique reporting crowdsourced wireless data-collecting smartphones per month.
- b. The contractor must provide at least 30 million “Category A” samples per month of crowdsourced wireless data from the crowdsourced wireless-collecting smartphones. Of these samples, at least 10 million must have valid RSRP and RSRQ field values.
- c. The contractor must provide at least 400 thousand “Category B” samples per month of crowdsourced wireless data from the crowdsourced wireless data-collecting smartphones.
- d. The data provided by the contractor via the crowdsourced wireless data-collecting smartphones must include, at a minimum, the data included in the mandatory data fields listed in Annex D

The crowdsourced USA wireless data must meet the following average monthly requirements (averaged over the past 12 months):

- a. The contractor must provide crowdsourced wireless data from at least 1 million unique reporting crowdsourced wireless data-collecting smartphones per month.
- b. The contractor must provide at least 1 billion “Category A” samples per month of crowdsourced wireless data from the crowdsourced wireless data-collecting smartphones. Of these samples, at least 500 million must have valid RSRP and RSRQ field values.
- c. The contractor must provide at least 1 million “Category B” samples per month of crowdsourced wireless data from the crowdsourced wireless data-collecting smartphones.
- d. The data provided by the contractor via the crowdsourced wireless data-collecting smartphones must include, at a minimum, the data included in the mandatory data fields listed in Annex D

If the contractor is providing USA data for a single state only, the minimum number of measurements required shall be a fraction of those stated above for the USA data. The fraction in such case is determined by the ratio of the state’s population over the entire USA population.

**Example:** if data is being provided for California with a population of 39,538,223 (based on census of 2020), with the USA population of 331,449,281, the minimum number of unique reporting smartphones required for California dataset would be:

$$39,538,223 / 331,449,281 \times 1 \text{ million} = 119288 \text{ (rounded down to nearest integer)}$$

“Category A” samples must contain, at a minimum, all data fields contained in tables 1.1, 1.2, 1.3 and 1.4 in Annex D.

“Category B” samples must contain, at a minimum, all data fields contained in tables 1.1, 1.2, 1.3, 1.4 and 1.5 in Annex D.



## 5. Deliverables And Associated Schedule

### 5.1 Crowdsourced wireless data

The contractor shall provide to ISED crowdsourced wireless data collected across Canada, with the parameters described in Section 4.

The period of time for the crowdsourced test data collection and delivery shall be as follows:

- Year 1: Canada Data: Start: February 1, 2024; End: January 31, 2025  
Historical Year Canada Data: Start February 1, 2023; End January 31, 2024
- Option Year 1: Start Canada Data: February 1, 2025; End January 31, 2026
- Option Year 2: Start Canada Data: February 1, 2026; End January 31, 2027
- Option Historical Year US Data: Start February 1, 2023; End January 31, 2024
- Option US data: Start: February 1, 2024; End: January 31, 2025

The above crowdsourced measurement data shall be delivered to ISED in the form of datasets accessible via the Internet. The crowdsourced data shall be made available to ISED via electronic transfer no more than twenty business days from the date of collection. The historical crowdsourced data shall be made available no more than twenty business days from the start of the contract.

The proposal must clarify how the measurement data will be structured, possibly in multiple datasets following different table formats. The description should include information about the expected volume and size of each dataset, their structure and, as applicable, linkage across them.

## 6. Official Languages

Written and oral communication between the third-party and ISED staff will be in English.

## 7. Travel Requirements

There is no travel requirement associated with this contract.

## 8. Contract and Schedule Changes

The Project Authority is responsible for approving any modifications to the work schedule or to the technical content of the Work.

The Contractor will not implement any changes to the Work in the Contract before the Project Authority has authorized a Change Order. The Change Order will specify the nature of the change, the time frame in which it must be carried out and any additional cost associated to the change.

A copy of the approved Change Order will be provided to the Contractor and to the Project Authority by the Contracting Authority.



**ANNEX "B"**

**BASIS OF PAYMENT**

**BID AND ACCEPTANCE FORM AND UNIT PRICE TABLE  
UNIT PRICE TABLE AND BID AND ACCEPTANCE FORM**

**PROJECT TITLE: Crowdsourcing Data Service**

**Note:** Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

**1. NAME AND ADDRESS OF THE BIDDER**

Name:

Address:

Telephone:

Fax:

PBN (if applicable):

GST/HST Registration Number:

**2. CONTACT PERSON FOR THE PURPOSE OF THE TENDER (AN AUTHORIZED REPRESENTATIVE OF THE BIDDER)**

Name:

Title:

Telephone:

Fax:

Cell:

Email address:

**3.0 OFFER:**

The Bidder offers to His Majesty the King in right of Canada to perform and complete the Work for the above-named project in accordance with the Request for Proposal (RFP) for the Total Lump Sum Cost bid hereunder.



**3.1 Basis of Payment:**

The Contractor will be paid in accordance with the following Basis of Payment for Work performed pursuant to the Contract.

The Offeror must complete this pricing schedule and include it in its financial proposal. **Pricing must only be contained in the financial proposal.** A price breakdown must be provided for the firm all-inclusive rates.

Offerors shall quote in Canadian dollar (CAD), firm prices/rates as indicated in the table below that include all costs necessary to perform the work. Any applicable taxes must be indicated separately, as applicable. Failure to provide pricing for an item will render the bid non-responsive.

The prices given below for the services will remain in force for the entire duration of the contract.

**Pricing Schedule**

**Firm all-inclusive rates as detailed in the Statement of Work.**

<b>Crowdsourced Test Data Collection and Delivery, excluding GST</b>		
<b>Item</b>	<b>Estimated start date</b>	<b>Price</b>
1	Year 1 Canada Data: February 1, 2024 to January 31, 2025	\$ _____
2	Historical Year Canada Data: Start February 1, 2023; End January 31, 2024	\$ _____
3	Option Year 1 Canada Data: Start February 1, 2025; End January 31, 2026	\$ _____
4	Option Year 2 Canada Data: Start February 1, 2026; End January 31, 2027	\$ _____
<b>Total Price of Item 1+2+3+4</b>		\$ _____
<b>Applicable GST/HST Amount:</b>		\$ _____
<b>TOTAL LUMP SUM COST:</b>		\$ _____



Please note: The below pricing will not be included in the bid evaluation but will form part of the contract.

Crowdsourced Test Data Collection and Delivery, excluding GST		
Item	Estimated start date	Price
5	Option US data: Start: February 1, 2024; End: January 31, 2025	\$ _____
6	Option US Historical data: Start: February 1, 2023; End: January 31, 2024	\$ _____

Note: The Contracting Authority may exercise the option(s) after contract award by sending a written notice to the Contractor.

Total Price of Bid will include Pricing Schedule (1+2+3+4+5+6):\$ \_\_\_\_\_

Applicable GST/HST Amount: \$ \_\_\_\_\_

TOTAL LUMP SUM COST: \$ \_\_\_\_\_

\_\_\_\_\_  
(Signature of the authorized representative)

\_\_\_\_\_  
(Print name and title)

\_\_\_\_\_  
(Print company name)

\_\_\_\_\_  
(Date)





**ANNEX “C”**

**MANDATORY / POINT-RATED CRITERIA**

**Mandatory Criteria:**

<p><b>Mandatory Requirements are evaluated on a pass or fail basis only. Failure on the part of the Bidder to meet any one (1) of the following Mandatory Requirements will result in the proposal being deemed non-responsive and ineligible for any further consideration or evaluation. It is the responsibility of the Bidder to ensure that the proposal meets <u>ALL</u> of the Mandatory Requirements as indicated below.</b></p>				
<p><b>Attention Bidders:</b> Write beside each of the criteria the relevant page number(s) from your proposal which addresses the requirement identified in the criteria.</p>				
<b>N°</b>	<b>Description</b>	<b>Met/ Not Met</b>	<b>Bid Page #</b>	<b>Comments</b>
M1	The Bidder must demonstrate that it has at least one (1) year of experience in collecting Canadian crowdsourced wireless data using smartphone application(s), for example by providing references to similar work for other clients.			
M2	The Bidder must demonstrate that data samples are collected automatically (i.e. are not user-initiated), and that data collection is free of charge to the user.			
M3	The Bidder must certify that the data collection, storage and processing complies with the <a href="#"><u>Canadian Privacy Act</u></a> .			



M4	<p><b>U.S. Usage</b></p> <p>The Bidder must demonstrate that they can provide current and historical USA RF usage, availability, and performance data for 2G, 3G, 4G LTE, 5G, and Wi-Fi meeting the requirements below:</p> <ul style="list-style-type: none"><li>• The Bidder must demonstrate that they have had crowdsourced wireless data-collecting software installed and running on at least 1 million average monthly reporting smartphones across the US over the past twelve months (provide report with statistical averages for the last 12 months).</li><li>• The Bidder must demonstrate that they can provide at least 1 billion “Category A” samples per month of RF spectrum data from the RF spectrum data-collecting smartphones. Of these samples, at least 500 million must have valid RSRP and RSRQ field values.</li><li>• The Bidder must demonstrate that they can provide at least 1 million “Category B” samples per month of RF spectrum data from the RF spectrum data-collecting smartphones.</li><li>• The Bidder must demonstrate that the data collected by the RF spectrum data-collecting smartphones includes, at a minimum, the mandatory data fields listed in Annex D.</li></ul> <p>If the contractor is providing USA data for some US states only, the minimum number of measurements required for the</p>			
----	---	--	--	--



	<p>section M4 shall be a fraction of those stated above for the entire USA dataset. The fraction in such case is determined by the ratio of the included state(s) population over the entire USA population. Example: if data is being provided for California with a population of 39,438,223 (based on census of 2020), with the US population of 331,449,281, the minimum number of unique reporting smartphones required for California dataset would be:</p> $39,438,223 / 331,449,281 \times 1 \text{ million} = 119288 \text{ (rounded down to nearest integer)}$			
--	--	--	--	--

**Point-Rated Criteria:**

<p><b>Bidders must achieve or exceed a minimum technical score in each of the Point-Rated Requirements established for evaluation of the technical proposal. Only those proposals receiving a minimum noted score in each of the Point-Rated Requirements will be considered further. Compliant proposals, being those meeting ALL Mandatory Requirements AND achieving the minimum technical scores for the Point-Rated Requirements, will be evaluated on the basis of the Bidder's Cost/price proposal. The value of the technical proposal evaluation is 60% in the overall score for the submission.</b></p>				
<p><b>Attention Bidders:</b> Write beside each of the criteria the relevant page number(s) from your proposal which address the requirement identified in the criteria</p>				
CRITERIA	Page #	Points Allocated	Minimum Points Required	Score
<p><b>R1 – Canadian Usage</b> The Bidder must demonstrate in their proposal, that they can provide current and historical Canadian RF usage, availability, and performance data for 2G, 3G, 4G LTE, 5G, and Wi-Fi meeting the requirements below:</p> <ol style="list-style-type: none"> <li>1. They have had RF spectrum data-collecting software installed and running on a minimum number of smartphones across Canada (provide report with statistical averages for the last 12 months)             <ol style="list-style-type: none"> <li>a. 8 Points: at least 100,000 average monthly reporting smartphones across Canada over the past twelve months;</li> <li>b. 9 points: at least 200,000 average monthly reporting smartphones</li> </ol> </li> </ol>		<b>9</b>	<b>8</b>	



<p>across Canada over the past twelve months</p> <p>2. They can provide a minimum number of samples per month (provide a statistically relevant data sample):</p> <ul style="list-style-type: none"> <li>a. 8 Points: at least 30 million “Category A” samples per month of RF spectrum data from the RF spectrum data-collecting smartphones. Of these samples, at least 10 million must have valid RSRP and RSRQ field values.</li> <li>b. 9 Points: at least 90 million “Category A” samples per month of RF spectrum data from the RF spectrum data-collecting smartphones. Of these samples, at least 20 million must have valid RSRP and RSRQ field values.</li> </ul> <p>3. They can provide a minimum number of “Category B” samples per month (provide a statistically relevant data sample)</p> <ul style="list-style-type: none"> <li>a. 8 points: at least 400 thousand “Category B” samples per month of RF spectrum data from the RF spectrum data-collecting smartphones.</li> <li>b. 9 points: at least 800 thousand “Category B” samples per month of RF spectrum data from the RF spectrum data-collecting smartphones.</li> </ul> <p>4. The data collected by the RF spectrum data-collecting smartphones includes, at a minimum, the mandatory data fields listed in Annex D.</p> <ul style="list-style-type: none"> <li>a. 8 Points: all mandatory data field in Annex D are included</li> <li>b. 9 points: all mandatory fields and a minimum of 15 optional fields (marked “if available”) are included</li> </ul>		<p style="text-align: center;"><b>9</b></p> <p style="text-align: center;"><b>9</b></p> <p style="text-align: center;"><b>9</b></p>	<p style="text-align: center;"><b>8</b></p> <p style="text-align: center;"><b>8</b></p> <p style="text-align: center;"><b>8</b></p>	
---	--	---	---	--



<b>R2 – Data Granularity</b>				
<p>The Bidder must demonstrate by providing data samples with sufficient volume, that the crowdsourced wireless measurements are collected with the following granularity in time and geography:</p>				
<p>1. Lat / Long precision</p> <p>a. 5 points: The latitude and longitude coordinates of the measurements shall be reported in degrees with minimum of 5 decimal points precision. Only in areas with a very low density of measurements, and limited to less than 5% relative to the total number of measurements, a lower geographic precision may be acceptable. The Bidder shall provide a detailed justification and description of their obfuscation criteria in such cases.</p> <p>b. 10 points: The latitude and longitude coordinates of the measurements shall be reported in all areas, in degrees with minimum of 5 decimal points precision.</p>	<b>10</b>	<b>5</b>		
<p>2. Altitude precision</p> <p>a. 4 points: The altitude of the measurements shall be reported in meters with a precision of 1m or better.</p> <p>b. 5 points: The altitude of the measurements shall be reported in meters with a precision of 0.5m or better.</p>	<b>5</b>	<b>4</b>		
<p>3. Timing precision</p> <p>a. 5 points: The measurement date and time shall be reported with a granularity of 1 hour or better.</p> <p>b. 9 points: The measurement date and time shall be reported with a granularity of 1 second or better.</p>	<b>9</b>	<b>5</b>		
<b>Total Technical Points</b>		<b>60</b>	<b>46</b>	



**ANNEX “D”**

**DATA PARAMETER REQUIREMENTS**

**1. Android & iOS Mandatory Data Fields**

**1.1 Device Information**

<b>Name</b>	<b>Description</b>	<b>Android</b>	<b>iOS</b>
Device ID	Unique device ID	If available	If available
Manufacturer	Device manufacturer	Required	Required
Manufacturer Market Name	Common (user-friendly) name of device manufacturer	If available	If available
Model	Device model	Required	Required
Model Market Name	Common (user-friendly) name of device model	If available	If available
Operating System	Name and version of the device operating system	Required	Required
Operating System Market Name	Common (user-friendly) name and version of the device operating system	If available	If available
Language	Preferred device language	If available	If available
Locale	Device locale country code (number, time, and currency formatting)	If available	If available
Screen Width	Device screen width in pixels	If available	If available
Screen Height	Device screen height in pixels	If available	If available
Total Storage	Total available storage of the device	If available	If available
Used Storage	Used storage of the device	If available	If available
Free Storage	Free storage of the device	If available	If available
Total Memory	Total available memory of the device	If available	If available
Used Memory	Used memory of the device	If available	If available
Free Memory	Free memory of the device	If available	If available
CPU Utilization	Current CPU utilization of the device	If available	If available
Battery Level	Battery level of the device	If available	If available
Battery State	State of the device battery (e.g. charging, unplugged)	If available	If available
System Uptime	Amount of time elapsed since the last boot of the device	If available	If available
Speed	Current speed of the device	Required	Required
Bearing	Current bearing of the device	if available	if available
Mobile Country Code	MCC of the current device SIM mobile base station	Required	Required
Mobile Network Code	MNC of the current device SIM mobile base station	Required	Required
Service Provider	Current device SIM service provider	Required	Required
Service Provider Market Name	Common (user-friendly) name of the current device SIM service provider	If available	If available
Code Version	Version of the custom code used to capture these data fields	Required	Required



### 1.2 Connection Information

Name	Description	Android	iOS
Start Time	UTC timestamp of the connection start time	Required	Required
End Time	UTC timestamp of the connection end time	Required	Required
Time Zone	Time zone of the device during connection	If available	If available
Connection Type	Type of current data connection (e.g. Wi-Fi, Commercial Mobile)	Required	Required
Mobile Technology	Commercial mobile technology of the current connection (e.g. GSM, CDMA)	Required	Required
Mobile Generation	Commercial mobile generation of the current connection (e.g. 2G, 3G, 4G)	Required	Required
Mobile Country Code	MCC of the connected mobile base station	Required	Required
Mobile Network Code	MNC of the connected mobile base station	Required	Required
Location Area Code	LAC of the connected mobile base station	Required	If available
Cell ID	Cell ID of the connected mobile base station	Required	If available
Service Provider	Connected mobile service provider	Required	Required
Service Provider Market Name	Common (user-friendly) name of the connected mobile service provider	If available	If available
Mobile Channel	Connected mobile EARFCN (or equivalent, depending on technology)	Required	If available
Mobile Band	Connection's mobile frequency band (e.g., PCS, AWS, 3500MHz, etc.)	Required	If available
Base Station Identity Code	BSIC of the connected mobile base station (GSM)	Required	If available
Physical Cell ID	Physical cell ID of the connected mobile base station (LTE)	Required	If available
BSSID	BSSID of the connected Wi-Fi access point	If available	If available
SSID	SSID of the connected Wi-Fi access point	If available	If available
Wi-Fi Frequency	Wi-Fi frequency of the connected Wi-Fi access point	Required	If available
Bytes received	Total bytes received over the current connection since last test	If available	If available
Bytes transmitted	Total bytes transmitted over the current connection since last test	If available	If available

### 1.3 Location Information

Name	Description	Android	iOS
Latitude	Latitude of the device	Required	Required
Longitude	Longitude of the device	Required	Required
Altitude	Altitude of the device	Required	Required
Horizontal Accuracy	Accuracy of the device latitude and longitude	Required	Required
Vertical Accuracy	Accuracy of the device altitude	Required	Required



**Request for Proposal: IC 209383**

Country	Country of the device based on location	Required	Required
Region (State/Province)	Region of the device based on location (e.g. Ontario)	Required	Required
City	City of the device based on location	Required	Required
Indoor/Outdoor	Identify whether the location of the test was indoors or outdoors	If available	If available
<u>Altitude - Pressure sensor</u>	<u>Pressure sensor data provided to measure absolute altitude</u>	If available	If available

**1.4 Cellular Signal Information**

Name	Description	Android	iOS
Timestamp	UTC timestamp of the measurement time	Required	Required
RSRP	RSRP of the LTE connection of the device or the equivalent 5G indicators (i.e., CSI-RSRP, SS-RSRP)	Required	If available
RSRQ	RSRQ of the LTE connection of the device or the equivalent 5G indicators (i.e., CSI-RSRQ, SS-RSRQ)	Required	If available
RSSNR	RSSNR of the LTE connection of the device or the equivalent 5G indicators (i.e., CSI-SINR, SS-SINR)	Required	If available
Channel Quality Indicator	CQI of the LTE connection of the device or the equivalent 5G indicator (i.e., CSI-CQI)	Required	If available
Timing Advance	TA of the LTE connection of the device	Required	If available

**1.5 Speed Test Information**

Name	Description	Android	iOS
Upload Speed	Measured upload speed of the current wireless connection	Required	Required
Upload Size	Size of the file used in the upload test	Required	Required
Upload Server	Hostname and IP of the server used in the upload test	Required	Required
Download Speed	Measured download speed of the current wireless connection	Required	Required
Download Size	Size of the file used in the download test	Required	Required
Download Server	Hostname and IP of the server used in the download test	Required	Required
Latency	Measured latency of the current wireless connection	Required	Required
Jitter	Measured jitter of the current wireless connection	Required	Required
Packet Loss	Measured packet loss of the current wireless connection	Required	Required
Test Server	Hostname and IP of the server used in the test for latency, jitter, and packet loss	Required	Required
Link Speed	Wi-Fi link speed of the connected Wi-Fi access point (theoretical max).	Required	If available
Signal Strength	Wireless signal strength of the current wireless connection in dBm	Required	If available





## **2. Samples and Categories**

A “sample” is a row of collected RF spectrum data that contains the data fields listed in section 1 of this Annex. A sample can be one of two categories: Category A or Category B.

A “Category A” sample must contain all of the data fields listed in sections 1.1, 1.2, 1.3, and 1.4 of this Annex.

A “Category B” sample must contain all of the data fields listed in sections 1.1, 1.2, 1.3, 1.4, and 1.5 of this Annex.

## **3. Additional Information**

All of the data fields listed in section 1 of this Annex must meet the following requirements:

- a) the data field must be collected to the best of the contractor’s ability, barring any cases where the field is clearly not applicable, and
- b) the data field must match the corresponding description.

“To the best of the contractor’s ability” means that the contractor has taken proper measures to ensure the accuracy and validity of the data within Android / iOS limitations.

“Cases where the field is clearly not applicable” are samples in which the type of connection is incompatible with the data field (e.g. an LTE connection does not have a corresponding Wi-Fi frequency).

A “required” data field must be provided to ISED as a part of 4.1 Annex A.

An “if available” data field can be provided to ISED as a part of 4.1 Annex A.

Additional relevant data fields can be provided to ISED as a part of 4.1 Annex A.



## ANNEX "E"

### FORMER PUBLIC SERVANT

Contracts with former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts with FPS, bidders must provide the information required below.

For the purposes of this clause, "*former public servant*" is any former member of a department as defined in the [Financial Administration Act](#), R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual.
- b. an individual who has incorporated.
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"*Lump sum payment period*" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"*pension*" means a pension or annual allowance paid under the [Public Service Superannuation Act](#) (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the [Supplementary Retirement Benefits Act](#), R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the [Canadian Forces Superannuation Act](#), R.S., 1985, c. C-17, the [Defence Services Pension Continuation Act](#), 1970, c. D-3, the [Royal Canadian Mounted Police Pension Continuation Act](#), 1970, c. R-10, and the [Royal Canadian Mounted Police Superannuation Act](#), R.S., 1985, c. R-11, the [Members of Parliament Retiring Allowances Act](#), R.S. 1985, c. M-5, and that portion of pension payable to the [Canada Pension Plan Act](#), R.S., 1985, c. C-8.



#### Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder an FPS in receipt of a pension? **Yes ( ) No ( )**

If so, the Bidder must provide the following information, for all FPSs in receipt of a pension, as applicable:

- a. name of former public servant.
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with [Contracting Policy Notice: 2019-01](#) and the [Guidelines on the Proactive Disclosure of Contracts](#).

#### Work Force Adjustment Directive

Is the Bidder an FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **Yes ( ) No ( )**

If so, the Bidder must provide the following information:

- a. name of former public servant.
- b. conditions of the lump sum payment incentive.
- c. date of termination of employment.
- d. amount of lump sum payment.
- e. rate of pay on which lump sum payment is based.
- f. period of lump sum payment including start date, end date and number of weeks.
- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.