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Title-Sujet Polar Epsilon 2 Project – Projet Polar Epsilon 2	
Solicitation No. - N° de l'invitation W8474-14PE02/A	**Date** 2013-10-24
Client Reference No. - N° de référence du client W8474-14PE02	
GETS Reference No. - N° de référence de SEAG PW-13-00510011	
File No. – N° de dossier 007ST.W8474-14PE02	**CCC No./N° CC – FMS NO. / N° VME**
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Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) **Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie)** **Signature** Dan Pole	**Date** 2013-10-24

Canada

REQUEST FOR INFORMATION (RFI) for

Polar Epsilon 2 Project

THIS IS *__NOT__* A REQUEST FOR PROPOSAL, QUOTATION, OR INVITATION TO BID NOTICE.

TABLE OF CONTENTS

REQUEST FOR INFORMATION (RFI) FOR 1

TABLE OF CONTENTS 2

1. INTRODUCTION 3

2. BACKGROUND 3

3. ADDITIONAL CONTENTS TO THE RFI 4

4. REQUEST FOR INFORMATION (RFI) 4

4.1. Recommendations, Suggestions or Comments 5
4.2. Government-Furnished Equipment (GFE) 5
4.3. Contractual information and Procurement Process 5
4.4. Industrial and Regional Benefits (IRBs) 5
4.5. Security Requirements 5
4.6. Controlled Goods Program 5

5. REQUIREMENT DESCRIPTION 5

5.1. Interim Operational Capability (IOC) 7
5.2. Change Requests (CR) 7

6. REQUESTED INFORMATION 8

7. NOTES TO INTERESTED RESPONDENTS 8

7.1. Confidentiality 9

8. INDUSTRY DAY AND INDUSTRY CONSULTATION MEETINGS 9

8.1. Industry Day Format 9
8.2. Location of the Industry Day 9
8.3. Industry Consultation Meetings 9

9. DELIVERY ADDRESS AND RESPONSE FORMAT 10

10. CLOSING DATE 10

11. RESPONSE EVALUATION AND INDUSTRY FOLLOW-UP 10

12. ENQUIRIES 11

13. LANGUAGE 11

14. PROCUREMENT AUTHORITY 11

ANNEX "A" – INDUSTRY ENGAGEMENT QUESTIONS 12

Questions to Industry 12
Feasibility of procurement for PE2 Project 12
Desirable Requirements for PE2 Project 13
Solution Delivery for PE2 Project 14
Basis of Payment (BOP) for PE2 Project 14
Procurement Strategy Process for PE2 Project 16
Benefits to Canada – Industrial and Regional Benefits 16

ANNEX "B" –ENGAGEMENT PARTICIPATION FORM ..... ERROR! BOOKMARK NOT DEFINED.

Appendix 1 to Annex "B" – Engagement Participation Form ..... Error! Bookmark not defined.
Appendix 2 to Annex "B" – Engagement Participation Form ..... Error! Bookmark not defined.

1. INTRODUCTION

Public Works and Government Services Canada (PWGSC), on behalf of The Department of National Defense (DND), is releasing this Request for Information (RFI) as a first step to inform industry and to seek input of the possible procurement of the Polar Epsilon 2 (PE2) Project.

The following details highlight Canada's initial high-level vision of requirements for the PE2 Project. As the RFI is the first step in engaging industry in the development and refinement of the system requirements, such requirements may be revised pending responses and discussions that will take place during the RFI process.

Engagement provides Industry with the opportunity to present their capabilities and considerations regarding Canada's requirements for the PE2 Project. Canada may use the information gathered to determine changes that should be included that will meet its needs and be consistent with Industry standard practices.

The Engagement process will include one Industry Day planned for **November 26, 2013,** at the location specified in Section 8.2 – Location of the Industry Day, consisting of a Public Industry Engagement Session followed by one-on-one meetings. Following Industry Day, the next step will be for the qualified Respondents to submit their responses to this RFI. Once the responses are received and reviewed by Canada, Respondents will be invited to present their responses at the Q&A meeting with representatives of Canada, in Ottawa.

One of the purposes of this RFI is to register interested parties for attendance to the Industry Day and for participation in one-on-one meetings. Industry Engagement Questions are included with this RFI to provide Industry the opportunity to review and prepare written comments which may serve to facilitate the consultation process during Industry Day and one-on-one meetings. The Rules of Engagement for the Consultative Process (Industry day and one-on-one meetings) can be found under Annex "B", Engagement Participation Form.

2. BACKGROUND

The DND Polar Epsilon (PE) Project was established to exploit information from Canada's RADARSAT-2 satellite to support Canadian defense by providing wide area surveillance over the ocean approaches to Canada, over Canada's Arctic region, and in foreign littoral areas where Canadian forces may be deployed. DND is now moving forward with the PE2 Project, which will exploit data from the RADARSAT Constellation Mission (RCM) satellites that are currently being designed by the Canadian Space Agency to replace RADARSAT-2, with a planned launch in 2018.

Under the PE2 Project, DND plans to develop its infrastructure to permit collection, processing, exploitation, and dissemination of RCM Synthetic Aperture Radar (SAR) and Automated Identification System (AIS) data. The PE2 Project will enhance maritime surveillance by providing detection, classification, and identification of seagoing surface vessels, with increased revisit frequencies over that currently provided by the RADARSAT-2 satellite. The PE2 Project infrastructure will include, but is not limited to, the data reception antennas, the SAR data processor, the AIS data processing service, telecommunications hardware, data exploitation software, and data links between multiple stakeholders' facilities.

3. ADDITIONAL CONTENTS TO THE RFI

The following documents will form part of the "RFI Documents Package" and will be provided to qualified Respondents at the time of submission of the Engagement Participation Form (attached at Annex "B"):

Attachment 1. Draft Request for Proposal to Qualify (RFP(Q)): *This document outlines the methodology potential bidders will be required to follow to qualify themselves under the RFP(Q). It also outlines the terms and conditions to which the successful bidders will be bound for the Development, Integration, Long Term Operation or Long Term Maintenance contracts of PE2. The RFP(Q) includes the Statement of Work (SOW), the System Requirements Specifications (SRS) and related documentation. Applicable References, identified in the SOW and that are not available in the public domain, will be included in the "RFI Documents Package".*

Attachment 2. Draft Change Requests: *These documents outline changes that have been proposed to the Polar Epsilon 2 requirements baseline that are expected to be baselined by the time the RFP(Q) is published. The RFI outlines the anticipated impact of these changes on the work to be performed by the successful bidders after contract award.*

Attachment 3. Appendix to the SOW - Draft Concept of Operations (CONOPS): *The CONOPS details who will use and control the capabilities to be delivered under the contract, what capabilities they will use, and how, where, when and why they will use these capabilities. In delivering the solution, the potential bidders will need to ensure that it supports and is consistent with the Concept of Operations.*

Attachment 4. Appendix to the SOW - Draft System Engineering and Management Plan (SEMP): *The SEMP details the engineering methodology and activities to be followed in delivering and maintaining the solution. The successful bidder's approach to delivering, operating and maintaining the solution must be consistent with the SEMP.*

Attachment 5. Appendix to the SOW - PE2 Test Management Plan: *The Test Plan details the objectives and approach to testing and requirements for test traceability. The successful bidder's approach to testing the proposed solution must be consistent with the test plan.*

Attachment 6. Appendix to the SOW - Draft Quality Plan: *The Quality Plan details the objectives and approach to ensuring quality of process and outcomes for the PE2 Project.*

Attachment 7. Appendix to the SOW - Draft Risk Management Plan: *The Risk Management Plan details the objectives and approach for tracking and managing risk on the PE2 Project.*

Attachment 8. Appendix to the SOW - Draft Change Management Plan: *The Change Management Plan details the objectives and approach to managing changes to requirements and solutions for the PE2 Project.*

4. REQUEST FOR INFORMATION (RFI)

"Respondents" to the RFI are defined as companies or consortia of companies with the capabilities to deliver the system requirements identified in this document. Respondents wishing to participate in Industry Day and the one-on-one engagement meetings must meet the registration criteria identified under Annex "B", Engagement Participation Form. The Respondents must also complete, sign and return the Engagement Participation Form, along with its Appendices, to the Procurement Authority identified in Section 14, in order to receive the "RFI Documents Package".

The information provided by Respondents may be used to refine the PE2 Project procurement strategy, the project cost envelope, and/or project timeline. The information gathered through the RFI may also be used to assist Canada in the refinement of the competitive two (2) stage "RFP(Q)" for the implemented PE2 capability.

The Respondents are invited to submit a reply to the RFI that addresses each of the topics identified in section 6.0, Requested Information and Annex "A", Industry Engagement

Questions. To facilitate the review of the responses, Respondents are asked to address and present the requested information in the order in which the topics are presented.

4.1. Recommendations, Suggestions or Comments

Respondents are invited to provide general feedback and/or any recommendations, inputs or comments (including technical and/or costing information) that could assist Canada in the refinement of any of the documents included in the "RFI Documents Package".

4.2. Government-Furnished Equipment (GFE)

For the purposes of the RFI, Respondents do not need to consider the items and services identified in the SOW and its Appendices as being Government Furnished.

4.3. Contractual information and Procurement Process

The 1st stage of the RFP(Q) is to qualify potential bidders in order to establish a PE2 qualified bidders list. The 2nd stage of the RFP(Q) includes the resultant "Development Contract" which will be governed in accordance with the Terms and Conditions (T&C) stipulated therein. The 1st stage RFP(Q) also includes baseline mandatory T&C for the Integration Contract and Long Term Maintenance and Long Term Operations contracts, all of which may be finalized in accordance with the terms of the "Development Contract". The Procurement Process can be found under Part 1 - General Information, Section 3 – Procurement Process Overview of the RFP(Q).

4.4. Industrial and Regional Benefits (IRBs)

Canada's Industrial & Regional Benefits (IRB) Policy will be a mandatory requirement for the PE2 Project. The potential Bidders will need to commit to the IRB terms included in the RFP(Q). The IRB Policy is administered by Industry Canada. The release of the RFI officially begins the IRB Achievement Period for the PE2 Project. To obtain more information about the IRB Policy, visit www.ic.gc.ca/irb.

4.5. Security Requirements

There will be a requirement for SECRET level clearances for both proposed Contractor facilities and Personnel. The Respondents are requested to detail their current and planned capabilities and facilities, in terms of physical security and screened personnel, to address these requirements. Respondents are encouraged to familiarize themselves with potential security provisions. Details are available at: http://www.tpsgc-pwgsc.gc.ca/services/secinfo-eng.html.

4.6. Controlled Goods Program

The PE2 Project will require the production of or access to controlled goods that are subject to the Defence Production Act. Respondents are encouraged to familiarize themselves with the provisions of the Controlled Goods Program (CGP) at the earliest opportunity. Details on how to register under the CGP are available at: http://ssi-iss.tpsgc-pwgsc.gc.ca/dmc-cgd/index-eng.html

5. REQUIREMENT DESCRIPTION

It is planned that the implemented PE2 capability, which will be separate from and will not repurpose or reuse any components of the PE system, will be installed at the same locations as the current PE capability which is located primarily in Aldergrove, BC and Masstown, NS.

Furthermore, it is planned for the PE2 capability to be implemented with no impact, interruption or repurposing of the current operational PE system or any of its components.

The capabilities to be delivered by the PE2 Project will be based on an integrated mix of contractor-delivered components and GFE, as outlined in the SOW and the SRS.

The new innovation with the RCM project will be the collocation of both Synthetic Aperture Radar (SAR) and Automatic Identification System (AIS) sensors on each satellite within a three satellite constellation. The combination of sensors will allow association of SAR and AIS data points for ship detection purposes.

The proposed solution leverages SAR processing components to be provided to the PE2 Project as GFE by the RCM project, AIS processing services, and the integration of GFE SAR/AIS data exploitation components in support of ship detection.

The PE2 Project will be undertaken in three (3) contractual phases:

I. the Development Contract;
II. the Integration Contract; and,
III. the Long Term Maintenance Contract and Long Term Operations Contract (O&M).

The Development Contract will validate and finalize the requirements for the PE2 capability, resulting in a proposed system design. Its deliverables will provide the technical, cost and schedule details for the Contractor's proposed solution for the performance of the Work under the Integration Contract. The activity associated with the development work, as currently planned, is to be performed over a 12 month period starting upon contract award. Also, all work associated with the Development Contract are to be performed over a 24 month period.

Contingent upon the successful performance and completion of the Development Contract Work, DND will have to seek and obtain departmental funding authority for the Integration Contract. Also, the Integration Contract will only be awarded if PWGSC has been successful in obtaining required contract authority.

Within the Integration Contract, the proposed Contractor will be responsible for the delivery of contracted components (as per SOW and its appendices) and the installation and integration of all components of the solution, including GFE, and integration of the system into its environment (including interfaces to RCM, the data archive, connection to the infrastructure and network and GPS time services). DND, as represented by the PE2 Project will be responsible for the provision of the GFE elements of the system, as well as the verification and acceptance of the proposed Contractor work and deliverables.

The proposed Contractor will be required to provide the technical specifications for the infrastructure required to support the installation and operations of the antennas, as well as the integration of the GFE components indentified in the SOW and its appendices.

Following the award of the Integration Contract, the proposed Contractor will finalize the PE2 system design, and will then implement the design which will include manufacturing, installation, integration and testing. The Integration Contract will be performed over a period of (TBD) and will include an Interim Operations and Maintenance component of two (2) years, which may begin following system acceptance.

It is planned that separate contracts will be issued for each of the Long Term Operations and the Long Term Maintenance contracts (O&M), though the Work under each contract will cover both the SAR and AIS capabilities. The period of each contract will begin following completion of the

Interim Operations and Maintenance period under the Integration Contract, and will be for a period of three (3) years with irrevocable option periods of one (1) year each, for the life of the RCM program.

The Long Term Operations and Long Term Maintenance contracts will only be awarded following the successful completion of the Integration Contract, and provided PWGSC has been successful in obtaining required contract authority, and DND has sought and obtained funding authority for each of these contracts.

5.1. Interim Operational Capability (IOC)

The PE2 Project is currently scheduled to deliver its first production data thirteen (13) months later than the availability of the first production data from space to be provided by the RCM satellites. There is also currently a misalignment between the two projects' schedules (RCM and PE2) for the integration and end-to-end testing of components of the PE2 system that are Government Furnished Equipment (GFE) for the RCM system. The PE2 Project is working to align these two schedules, but some disconnects may remain that would have to be addressed during planning and cost-estimating of the work under the Integration Contract.

To mitigate the schedule risk that the PE2 system will not be ready for use by the time RCM delivers its first production data, the PE2 Project has considered potential options for delivering an IOC. Should it become evident that PE2 ground infrastructures will not be ready in time for the delivery of the first RCM production data, the IOC option currently under consideration is the capture and forward of RCM data to the RCM system from the PE2 reception stations in Aldergrove and Masstown. Ensuring that DND has the option to pursue this IOC requires the early delivery, installation and testing of the PE2 antennas and corresponding GFE infrastructure, which is one of the reasons this work is being addressed early in the project as a long lead time item.

5.2. Change Requests (CR)

At the time of posting of this RFI, there are a few outstanding CR's under consideration by the PE2 Configuration Management Board. Several of these could have an impact on the Work to be performed by the proposed Contractor. These CRs are identified in Attachment 2 of the "RFI Documents Package", with a short statement on the expected impact on the Contractor-delivered portions of the PE2 system.

These CRs may be approved and baselined into the SRS by the time the RFP(Q) is posted.

The PE2 Project is exploring the possibility of adding the data from three (3) to four (4) additional reception stations, delivered by other projects, to the two (2) that are currently indentified (Masstown and Aldergrove). The objective in doing this is to increase the near real time downlink capability by expanding the ground based footprint from which satellite signals can be received. Furthermore, the CRs identified in the "RFI Documents Package" will have an impact on network transportation. The impact assessment and planned subsequent re-baselining of the system requirements are being conducted with the objective of ensuring that the end-state network latency profile creates no impact on the performance requirements for the contractor-delivered components of the PE2 system. It should also be noted that, although the network capacity for delivery of data from the two stations located at Inuvik and Svalbard, Norway, may be lower than for the other stations, the PE2 Project plans to adjust

network capacity such that the ability to satisfy performance requirements should not be affected.

The PE2 system boundary (and therefore the starting point for the measurement of system performance) will be at sites (either Canadian Centre for Mapping and Earth Observation (CCMEO) offices in Ottawa (formerly known as Canada Centre for Remote Sensing (CCRS)) or Canadian Space Agency (CSA) offices in St-Hubert) where data will be transmitted at high speeds to the processing facilities. Consequently, the slower transmissions from these Northern sites should not have any impact on the ability of the proposed Contractor to satisfy PE2 system performance requirements.

Additionally, PE2 personnel will be testing network traffic optimization/compression technology to support the optimization of network transmission quality and speed to further reduce any risks of data latency problems in satisfying the PE2 system performance requirements.

6. REQUESTED INFORMATION

DND is seeking engagement with Industry to assess the technical feasibility of its proposed solution and the procurement strategy for the PE2 Project. DND is seeking advice from Industry on the proposed solution and specific questions identified under Annex "A", Industry Engagement Questions.

Due to the integration risk, the services of a single Contractor (which may include partners and/or sub-contractors) are sought for all contracts of the PE2 Project.

Respondents are invited to consult Annex "A", Industry Engagement Questions, in order to provide their response(s) to the requested information.

7. NOTES TO INTERESTED RESPONDENTS

The RFI is not a bid solicitation and does not constitute a commitment, implied or otherwise, that the Government of Canada will take procurement action in this matter. The issuance of the RFI does not create an obligation for Canada to issue a subsequent RFP, and does not bind Canada legally or otherwise, to enter into any agreement or to accept any suggestions from Respondents. Canada reserves the right to accept or reject any or all comments received.

Further, the Government of Canada will not be responsible for any cost incurred by Respondents in furnishing responses.

A review team composed of representatives of DND and PWGSC (where applicable) will review the responses on behalf of Canada. Canada may also use an independent consultant or any Government resources that it considers necessary to review response(s). Not all members of the review team will necessarily review all responses. If required, the independent consultant(s) will sign a non-disclosure agreement before they review any response. Canada will provide their information via an amendment to this RFI.

There will be no short listing of firms for purposes of undertaking any future work, as a result of this RFI. Similarly, participation in the RFI is not a condition or prerequisite for participation in any RFP(s). The establishment of a qualified bidders list will only be undertaken as part of the 1st stage RFP(Q).

7.1. Confidentiality

Respondents are advised that any information submitted to Canada in response to this RFI may be used by Canada in the finalization of a competitive RFP(Q). However, the Government is not bound to accept any Expression of Interest or to consider it further in any associated documents such as an RFP.

All industry consultations will be documented and this information is subject to the Access to Information Act. Respondents should identify any submitted information that is to be considered as either company confidential or proprietary. Canada will not reveal any designated confidential or proprietary information to public and/or third parties, except for independent consultant(s) which may participate in RFI response review.

8. INDUSTRY DAY AND INDUSTRY CONSULTATION MEETINGS

8.1. Industry Day Format

A Public Industry Day information session and one-on-one sessions will be held on November 26, 2013 as an opportunity to pose questions with regards to the PE2 Project. Two hour one-on-one meetings, with the PE2 Project team, will be held following the Public Industry Day information session. Depending upon responses, one-on-one meetings may be held on the following day. These time-limited meetings will provide an opportunity for Respondents to seek clarification on the presentation and to present only relevant technical input for the upcoming PE2 Project. Respondents are asked to please refrain from using the Industry Day as a forum for marketing purposes.

Following Industry Day and the submission of responses to Canada, Respondents may be invited to present their responses at a Q&A meeting with representatives of Canada. The Q&A meetings will be occurring at government facilities within the National Capital Region and will be held at a date and time agreeable to both PE2 Project Team and the Respondents.

Registration for Industry Day and one-on-one meetings are required on or before **November 8, 2013**. Respondents are limited to send a maximum of four (4) representatives. Upon registration, a meeting time will be allocated to each registering Respondents on a first come first served basis. To register, please complete, sign and return the Engagement Participation Form along with its Appendices, attached at Annex “B”, to the Procurement Authority identified in Section 14.

Participation at the Industry Day is not required in order to submit a response to the RFI nor any follow-on RFP.

8.2. Location of the Industry Day

The Industry Day and one-on-one meetings will be held at the following address:

- To be determined (within the National Capital Region)

8.3. Industry Consultation Meetings

The PE2 Project Team may request or consider Respondents’ requests for additional one-on-one meetings, either in person or by teleconference. In person meetings will occur at government facilities within the National Capital Region. Meetings will be held at a date and time agreeable

to both PE2 Project Team and the Respondents. Meetings may be held at the Respondent's facilities at the sole discretion of the PE2 Project Team. In addition, the PE2 Project Team reserves the right to conduct such meetings beyond the closing date identified in this Notice or until further notice. To arrange a meeting, please contact the Procurement Authority identified in Section 14.

All substantive and non-proprietary questions and answers discussed during these meetings will be noted and made available to all Respondents participating in the Industry Consultation Process. Questions may be edited, so that the proprietary nature of questions is eliminated.

9. DELIVERY ADDRESS AND RESPONSE FORMAT

Responses to the RFI questions must be sent to the Procurement Authority, identified in Section 14, by registered mail or courier.

Respondents are requested to provide their responses in two (2) printed copies and one (1) electronic copy (CD-ROM). The electronic file formats of the responses must be in either Adobe Portable Document Format (PDF) ™ or in a file format that is readable by the 2003 Microsoft Office ™ Suite.

Provision of an electronic copy is required in order to facilitate the distribution of the RFI responses to the PE2 Project Team.

10. CLOSING DATE

Responses to this RFI should be submitted, on or before the following date and time:

The closing date to submit a response is January 3, 2014, 2:00 pm EST.

11. RESPONSE EVALUATION AND INDUSTRY FOLLOW-UP

Following receipt of responses to this RFI, PWGSC and DND will review responses received for the purpose of refining its way forward on this requirement. In order to maintain awareness within the bidding community for this requirement, PWGSC will publish a RFI findings document.

The RFI findings document may include, but is not limited to, the following information:

- the number of firms that participated
- the identification of firms submitting responses
- a collective assessment on the responses received including anticipated changes, if any. Proprietary information will not be disclosed.
- an assessment of the structure of the resulting procurement – Will there be a Development Contract?
- an estimated schedule for any resulting procurement, as applicable; and,
- next steps.

The RFI findings document will be distributed to Respondents that submitted responses to this RFI, and will be published as a RFI follow-up document on the PWGSC Buy and Sell website. It is anticipated that the RFI findings document will be distributed within three (3) months after the closing date of the RFI.

12. ENQUIRIES

All enquiries and other communications related to this RFI must be directed exclusively to the PWGSC Procurement Authority identified in Section 14. Respondents that intend on responding to this RFI are asked to advise the Procurement Authority of their intention to respond, in order that they may be notified of any changes to the notice on the PWGSC Buy and Sell website, which may occur during the posting period.

13. LANGUAGE

Responses and consultation meetings are to be provided/held in one of the two Official Languages of Canada (English or French).

14. PROCUREMENT AUTHORITY

All enquiries and other communications related to this RFI must be directed to the Procurement Authority as follows:

John Caldwell
Science Procurement Directorate
Services and Specialized Acquisitions Management Sector
Public Works and Government Services Canada (PWGSC)
11C1, Phase III, Place du Portage
11 Laurier Street,
Gatineau, Quebec, Canada
K1A 0S5

Telephone Number: 819-956-1373
Fax: 819-997-2229
E-mail address: john.caldwell@tpsgc-pwgsc.gc.ca

Canada

ANNEX "A" – INDUSTRY ENGAGEMENT QUESTIONS

In order to respond to the following questions, we highly suggest that the Respondents read the documents forming part of the "RFI Documents Package" (provided to Respondents upon registration to this RFI process). In the following Questions, the word "Team" refers to your Partners and/or subcontractors.

The issuance of this RFI does not bind Canada legally or otherwise, to enter into any agreement or to accept any suggestions from Respondents. Be advised that Canada reserves the right to accept or reject any or all comments received.

Questions to Industry	
1.0	**Feasibility of procurement for PE2 Project**
Q1.1	Based on the provided documentation, do you or your team have the capability, either individually or through partnership(s) or sub-contracting, to deliver the requirements for each contractual phase? Please explain your answer.
A1.1	
Q1.2	Briefly describe which capabilities would be delivered and by which partner(s) or sub-contractor(s), as applicable?
A1.2	
Q1.3	Do you or your team have any concerns about the feasibility or can you recommend improvements to the system requirements and/or the requested solution presented by the PE2 Project? If so, what are your concerns and what solutions would you propose to address them?
A1.3	
Q1.4	What Project Management Methodology is used by your company in delivering solutions to your clients? Based on the information provided within the SOW and the SRS, will this Project Management Methodology be used under the PE2 Project or will it be customized?
A1.4	
Q1.5	Briefly describe your firm's Project Management Framework and reporting standards that will be used under the PE2 Project?
Q1.5	

2.0	Desirable Requirements for PE2 Project AIS Processing Service
(Reference for the desirable questions): System Requirements Specification requirement MC-AIS-005 - The AIS RF signal attributes of received raw AIS data should be analysed to validate ship location, course and speed. *Note – The PE2 Project would like to verify what capabilities industry can bring to bear to compare individually rendered NMEA messages with the RF signal attributes of the related source RF data capture to establish whether and to what degree of precision the ship location, course and/or speed being reported in the NMEA message can be validated or confirmed. All NMEA messages, regardless of validation results, shall be forwarded to the exploitation system. Details regarding the specifics of this validation and interactions with the exploitation system will be determined during the system design.)*	
Q2.1	What are your existing capabilities to reproduce NMEA messages from Class B AIS transmissions from space based monitoring platforms and what is the expected detection performance from a single sensor (including observation time, ships detected over expected number of ships transmitting)?
A2.1	
Q2.2	What are your existing capabilities to predict ship location, course and speed based on analysis of RF signal attributes from space sensor sampled AIS receptions?
A2.2	
Q2.3	What data products can you currently produce as a result of this analysis?
A2.3	
Q2.4	Assuming a high rate (765 MB per downlink, i.e., per processing session) of AIS data to be processed, how quickly can you perform RF signal analysis? (The 765 MB is based on a full orbit of AIS data collected (17 minutes at a sampling rate of 6 Mbps) and would be the equivalent of the theoretical maximum downlink of near-real time acquired AIS data.)
A2.4	
Q2.5	What confidence is associated with these predictions and how is it measured?
A2.5	
Q2.6	What are your service models for AIS processing for the following elements: o Class A signal decollision; o Class B signal decollision; and o RF signal analysis to verify or estimate ship location, course and speed accuracy in comparison to AIS data.
A2.6	

3.0	**Solution Delivery for PE2 Project**
Q3.1	Can you or your team deliver, for each of the Development and Integration contracts, the proposed solution in accordance with the "Contract Milestones", identified in the SOW? Please explain your answer.
A3.1	
Q3.2	If you or your team cannot deliver the Contract Milestones within the indicated timeframe, explain why? Also, can you or your team identify schedule variances and problematic areas, if any?
A3.2	
Q3.3	If you answered "yes" at question **Q3.1**, can you or your team deliver the Contract Milestones more quickly than the proposed timeframe (excluding any elements outside of your control – refer to contingents at Section 5, above)? If so, explain how you can shorten the proposed timeframe and by how much of time.
A3.3	
Q3.4	If the proposed timeframe can be improved, would there be, and to what extent, a cost associated with such a modification? In the affirmative, what incentive/late delivery price reduction model(s) could be employed?
A3.4	
Q3.5	Would you be able to provide a Commercial Off the Shelf solution for rules-based association of SAR and AIS data points for ship detection, including the production of ship detection reports in a customized format?
A3.5	
Q3.6	OceanSuite software was developed using military standard 498 (MIL-STD 498, superseded by IEEE 12207). For consistency it would be preferable to have all software development for the project following the same standard. Please refer to Section 11.5 – Quality Plan, at page 73 of 386 of the RFP(Q). Are the software design/development standards used in your organization published industry standards, and if so which standards are you using?
A3.6	
4.0	**Basis of Payment (BOP) for PE2 Project**
Q4.1	It is anticipated that the basis of payment of the resultant contracts will be based as follows (Task Authorization Work excluded): Development Contract: Ceiling Price Integration Contract: Firm Price (including Interim O&M) Long Term O&M Contracts: Firm Monthly Rates Do you or your team have any concerns about the proposed Basis of Payment? If so, what are your concerns and what change would you propose to address them?
A4.1	

Q4.2	What are your price models for AIS processing for the following elements: o Class A signal decollision; o Class B signal decollision; and o RF signal analysis. For example, do you grant enterprise licenses, licenses per service or have a transaction data volume based pricing structure? Do you price services per satellite?
A4.2	
Q4.3	Can you estimate (not binding, confidential) the cost of the proposed solution, including CRs (Task Authorization Work excluded)? The requested cost estimates below should be based on the assumptions that the CR's will be approved and baselined into the PE2 system. The estimates should only address specified requirements and work. Can you also estimate the costs of the proposed solution while assuming that the procurement of the Synthetic Aperture Radar (SAR) processing components will not be obtained as GFE from the RCM Project, but rather will be purchased from the vendor in the current contracting process? *(Please note that the established budget may or may not be revealed during the Procurement Process.)*
A4.3	**Proposed Solution:** Development Contract and Long Lead Items Est. $_____ Integration Contract: Est. $_____ Long Term Operations Contract: Est. $_____/Year Long Term Maintenance Contract: Est. $_____/Year **SAR Components purchased by Respondent:** Development Contract and Long Lead Items Est. $_____ Integration Contract: Est. $_____ Long Term Operations Contract: Est. $_____/Year Long Term Maintenance Contract: Est. $_____/Year
Q4.4	If CR's are not baselined before contract award, would there be a schedule and/or cost impact? If so, to what extent (for each contractual phase)?
A4.4	
Q4.5	Taking into consideration that Long Term O&M covers AIS and SAR, are there technical costs or programmatic disadvantages to this approach?
A4.5	
Q4.6	In the event that the Long Term O&M contracts are extended for the life of the RCM Satellites, what models or indices would be applied for estimating future costs for these extensions?
A4.6	

Q4.7	At any point, would an alternate Basis of Payment be more appropriate, with a view of reducing the annual costs under the Long Terms O&M contracts, while maintaining the required level of availability of the PE2 System?
A4.7	
Q4.8	Does Canada's use of the processed data will impact pricing such as the extent of processed data distribution within the Government of Canada, other Government and/or non-governmental organization?
A4.8	
Q4.9	Does the proposed Contractor's use of RAW and/or processed data (for distribution to a third party) impact pricing for Canada?
A4.9	
Q4.10	How early in the Development Contract can Integration Contract pricing be provided by your team?
A4.10	
Q4.11	What is the impact, if any, on the risk allocation (contingencies) by providing pricing earlier?
A4.11	
5.0	**Procurement Strategy Process for PE2 Project**
Q5.1	Do you or your team have any concerns or comments about the procurement clauses and conditions to be used during the solicitation stage or under any resulting contracts? If so, please indicate what clause(s) and/or condition(s) that are causing you problems, and explain why.
A5.1	
Q5.2	Do you or your team have any concerns about the licensing and/or intellectual property (IP) clauses to be used in any resulting contracts (refer to Part 8 - Resulting Contract Clauses of the RFP(Q))? If so, provide any suggestions that, in your opinion could assist Canada in the refinement of these clauses.
A5.2	
Q5.3	Do you or your team have any concerns or comments about the evaluation criteria, identified under Attachment 2 – Evaluation Criteria, of the RFP(Q)? If so, provide any suggestions that, in your opinion could assist Canada in the refinement of the evaluation criteria and/or the basis of selection of the Contractor.
A5.3	
6.0	**Benefits to Canada – Industrial and Regional Benefits**
Q6.1	Will you or your team be able to satisfy the Industrial Regional Benefits requirements identified in the RFP(Q)?
A6.1	
Q6.2	What level of direct (vs. indirect) IRBs your team can achieve under each of the Development and Integration Contract?
A6.2	

ANNEX "B" – ENGAGEMENT PARTICIPATION FORM

In order to participate to the RFI process and also to register to the Industry Day, Respondent(s) must complete and sign the following Participation Form along with its Appendices, and send it back to the Procurement Authority identified in section 14, above. Upon receipt of the Participation form and its Appendices, the Respondent(s) will receive the "RFI Documents Package" by mail, on an electronic media. It is very important that the Respondent(s) provides its complete mailing address in order to receive the package.

Primary Participant Name	**Company Name**

Primary Participant Title	**Primary Participant Business Address**

Preferred language of communication

English ◉ French ○

Will you attend to the Industry Day

		Number of Participant(s)
Yes	☐	
No	☐	

Are you requesting a One-on-One Meeting

		Number of Participant(s)
Yes	☐	
No	☐	

If you have more than one (1) participant, please provide their name and title

#	Name	Title	Company
1			
2			
3			

If your response to this RFI involves partner and/or subcontractor, would you please provide the following information:

Partner/Subcontractor Name	Business Address (Town, Province, Country)

I certify that the information provided on this Engagement Participation Form and its Appendices is accurate.

_____ _____

Signature (Signature required) Date

(I have the authority to bind the Company)

_____ _____

Name (Print) Title or Position (Print)

Appendix 1 to Annex "B" – Engagement Participation Form

Rules of Engagement

An overriding principle of the Industry Engagement Process is that it be conducted with the utmost of fairness and equity between all parties. No one entity shall not receive nor be perceived to have received any unusual or unfair advantage over the others.

The Industry Engagement Process begins following the publication on Buy and Sell website of the Notice for RFI Package Release and concludes with the dissemination of the RFI Findings Document. The Industry Engagement Process will consist of the following events:

- Buy and Sell Posting of the Notice for RFI Package Release;
- Release of the Request for Information (RFI) Package;
- Industry Day;
- One on One Industry Day Meetings;
- Submission of RFI Responses;
- One on One Post RFI Submission Meetings; and,
- Release of RFI Findings Report.

At any point within the Industry Engagement Process, the above listed Industry Engagement events or their scheduling may change. Except for changes brought on an unforeseen events or adverse weather, a minimum five (5) calendar day notice will be provided to participants of any planned change. Industry Day, as well as all one on one meeting will be held at a location within the National Capital Region.

Following the release of the Request for Information Package, all written information provided by Canada with respect to this industry engagement will be provided only to those entities that:

- have requested the RFI documentation;
- meet the registration criteria for Industry Day and the One on One Industry Day Meetings (Industry Day or the Post RFI Submission one on one meetings); and,
- have signed the Rules of Engagement Terms and Conditions identified below.

Rules of Engagement Terms and Conditions

a) Entities wishing to participate, (hereinafter referred to as "Participants"), in Industry Day or the one on one engagement meetings (Industry Day or the Post RFI Submission one on one meetings) must meet registration criteria, indicated below, and submit with their signed participation agreement, written and supported evidence of their possession of corporate experience in any one of the following areas:

   - systems integration; or,
   - synthetic aperture radar ground station development; or,
   - ground based Automated Information System (AIS) signal decollision;

b) Participants wishing to participate in Industry Day, or the one on one engagement meetings (Industry Day or the Post RFI Submission one on one meetings) must register in advance for each of these events;

c) Participants are expected to discuss their views concerning the PE2 Project and to provide positive resolutions to the issues in question. Each participant shall be provided equal opportunity for information exchange, and in the submission of questions;

d) Participants will NOT reveal or discuss any information to the MEDIA/NEWSPAPERS regarding the PE2 Project during this Industry Engagement Process. If participants receive a question from the Media, participants are to direct the Media to contact the PWGSC Media Relations Office at 819-956-2313;

e) Participants are to direct inquiries and comments only to authorized representatives of Canada, as directed in notices given by the Procurement Authority from time to time. Any communication to unauthorized representatives of Canada may be subject to full disclosure by Canada to all Participants that have requested the RFI documentation;

f) The number of persons from any one Participant (company, consortia, bidding team, joint venture) is limited to four (4) persons for the Industry Day. Similarly, the number of persons from any one Participant is limited to four (4) persons for any Industry Day one on one meeting, but is not limited for any Post RFI Submission one on one meeting;

g) Media cannot participate in Industry Day or the one on one meetings;

h) Canada is not obligated to issue any RFP/RFP(Q), or to negotiate any contract for any of the identified PE2 requirements or phases;

i) Throughout the entire Industry Engagement Process, all questions from industry, exchanges of information and all of the industry feedback shall be provided in writing to the contracting Authority. In accordance with and subject to the Access to Information Act, R.S., 1985, c. A-1, and any other legislative or legal requirement, all information which is provided by a Participant and which is clearly marked as "Proprietary" will not be released or disclosed;

j) Proceedings from the Industry Day will be recorded. The information gathered will be summarized and provided to all Participants;

k) If Canada does release a RFP/RFP(Q), the terms and conditions shall be subject to Canada's absolute discretion;

l) Canada will not reimburse any Participant for any cost incurred in participating in this Industry Engagement Process;

m) Participation is this Industry Engagement Process will not be a mandatory requirement for any subsequent RFP/RFP(Q). An entity will not be precluded from submitting a proposal under any subsequent RFP/RFP(Q) on account of they not being a Participant;

n) Failure of an entity to meet the registration criteria for Industry Day and the one on one meetings, or failure of an entity to agree to and sign this Rules of Engagement Participation Agreement will result in exclusion of the entity from participation in the Industry Day, exclusion of the entity from participation in the one-on-one meetings, as well as exclusion of the entity from the provision of updates to the RFI documentation;

o) A dispute resolution process to manage impasses throughout this consultative process shall be adhered to in accordance with Appendix 2 of Annex "B" – Engagement Participation Form, below. All requests to use the dispute resolution process shall be directed to the Procurement Authority who will make the appropriate arrangements;

p) At any point within this process, a Participant may provide notice to the Procurement Authority that they no longer wish to participate in the Industry Engagement Process. Upon the Procurement

Authority's receipt of such notice, the Participant will not be scheduled for participation in any future one on one engagement meetings;

q) One on one Post RFI Submission meetings will be held with only those Participants that have submitted a complete response to the Request for Information Package;

r) Participation in the one on one Industry Day meetings, and, or the one on one Post RFI Submission meetings is conditional on the Participant's formal acceptance of all of the above Rules of Engagement. This Industry Engagement Agreement shall be signed by a duly authorized officer of the Participant in this respect; and,

s) The RFI Findings Report will be published and distributed to all Participants including any which may have previously indicated that they no longer wish to participate in the Industry Engagement Process.

_____ _____

Signature (Signature required) Date

(I have the authority to bind the Company)

_____ _____

Name (Print) Title or Position (Print)

_____

Company (Print)

Appendix 2 to Annex "B" – Engagement Participation Form

Dispute Resolution Process

1. By informal discussion and good faith negotiation, each of the parties shall make all reasonable efforts to resolve any dispute, controversy or claim arising out of or in any way connected with this Industry Engagement Process.

2. Any dispute between the Parties of any nature arising out of or in connection with this Industry Engagement Process shall be resolved by the following process:

   a) Any such dispute shall first be referred to the Participant's Manager and the PWGSC Manager managing the Industry Engagement Process. The parties will have 3 Business Days in which to resolve the dispute.

   b) In the event the representatives of the Parties specified Article 2.a. above are unable to resolve the dispute, it shall be referred to the DND DGIMPD Portfolio Manager and the PWGSC Senior Director of the Division responsible for managing the Industry Engagement Process. The parties will have 3 Business Days to resolve the dispute.

   c) In the event the representatives of the Parties specified in Article 2.b above are unable to resolve the dispute, it shall be referred to the Participant's Senior Representative responsible for this project and the PWGSC Director General, who will have 3 Business Days to resolve the dispute.

   d) In the event the representatives of the Parties specified in Article 2.c. above are unable to resolve the dispute, it shall be referred to the Participant's CEO and the PWGSC Assistant Deputy Minister, Acquisitions Branch who will have 5 Business Days to resolve the dispute.

   e) In the event the representatives of the Parties specified in Article 2.d. above are unable to resolve the dispute, the Procurement Authority shall within 5 Business Days render a written decision which decision shall include a detailed description of the dispute and the reasons supporting the Procurement Authority's decision. The Procurement Authority shall deliver a signed copy thereof to the Participant.

By signing this document, the individual represents that he/she has full authority to bind the company identified below and that the individual and the company agree to be bound by all the terms and conditions contained herein.

_____ _____

Signature (Signature required) Date

(I have the authority to bind the Company)

_____ _____

Name (Print) Title or Position (Print)

_____

Company (Print)