



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

Canada

Competitive Projects—Call for Proposals 002 Component 1a

On behalf of
Department of National Defence



IDEaS IDEeS

INNOVATION FOR DEFENCE EXCELLENCE AND SECURITY **INNOVATION POUR LA DÉFENSE, L'EXCELLENCE ET LA SÉCURITÉ**

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PART 1—GENERAL INFORMATION

1.1 Summary

Public Works and Government Services Canada (PWGSC) is issuing this Call for Proposals (CFP) on behalf of the Department of National Defence (DND) with the responsibility of providing the knowledge and technological advantage needed to address Canada's defence and security interests.

The CFP is an invitation to Bidders to submit innovative science and technology (S&T) proposals leading to potential contract award and performance in support of Canada's defence and security interests.

More specifically, this CFP identifies S&T Challenges (see Part 1, Attachment 1) for which innovative solutions are sought that relate to the Innovation for Defence Excellence and Security (IDEaS) Program of DND.

1.2 Background

The Innovation for Defence Excellence and Security (IDEaS) Program is new and was introduced by Canada's defence policy "[Strong, Secure, Engaged](#)". The Program fosters a competitive environment and challenges bidders with diverse skills and expertise from a variety of domains to develop innovative S&T solutions to Canada's defence and security challenges. IDEaS aims to encourage and progress innovative solutions along a 9 level solution readiness level (SRL) S&T maturity Continuum as defined in Part 1, Attachment 2.

Under the Continuum, solutions may be developed and/or tested by Canada through a four component process summarized below and in Part 1, Attachment 3. There is an SRL entry level for each component.

Solutions from 1a that are successful and of interest to Canada may be completed contiguously and solely through Components 1b, 3 and 4 for the same or similar S&T Challenge. Suppliers may be invited to participate in Components 1b, 3 and 4 without being subject to a competitive process. Successful solutions from 1b may be funded outside of IDEaS up to SRL 9 through Component 2 only, summarized below and in Part 1, Attachment 3.

- **Component 1: Competitive Projects** (IDEaS Program funding, Procurement)
 - o **Component 1a** – Establish S&T Merit, Innovativeness & Impact
The objective of this Component is to establish the S&T merit, innovativeness and impact of a solution to address a specific S&T Challenge. Entry into this Component is for solutions within SRL 1-6 (inclusive). Bidders present their solution in a proposal that is submitted in response to a Call for Proposal (CFP). Bidders are also requested to outline their intention to participate in Component 1b; however, bidders are not required to participate in this or other Components. Proposals are evaluated and only solutions that meet the evaluation, selection criteria and all other requirements of the CFP may be recommended for Contract award. Funds are limited to a maximum of

\$200,000 (excluding applicable taxes) per contract for a maximum performance period of six months. The project will be assessed by Canada at one or more points of its progress for the purpose of Canada exercising Go/No Go decisions for the then balance of the project to proceed.

- **Key Program Aspects**

To progress solutions to a higher SRL from Component 1a, Canada intends to generally apply the following procedures for Components 1b, 2, 3 & 4:

- Suppliers may receive an invitation from PWGSC/DND to further their solution's SRL continuum and would be requested to submit a proposal.
- Contracts may be awarded for Components 1b, 2 and 4 to eligible suppliers, as described herein. Component 3 is a non-procurement process.
- Selection of solutions will be determined through use of same or similar technical evaluation criteria and strategic considerations selection criteria of those listed in Part 4, Attachment 1, Table 3 of the 1a CFP. All criteria aim to ensure that the solution is in line with the evolution of the technology under a given S&T Challenge. Other considerations may also arise such as security and Intellectual Property (IP). Details of all requirements will be indicated in the specific Component invitation.
- If a supplier chooses to participate in Component 2, the solution is exiting IDEaS and will be funded by a different source to advance the solution to a higher SRL.
- Decision for Canada to proceed with Component opportunities is the sole discretion of Canada and is not guaranteed. Each Component is subject to the conditions outlined in the specific Component opportunity, if and when the opportunities arise.
- The IDEaS Program is in its infancy and subject to change.

o **Component 1b – Further Develop Component 1a Solution**

The objective of this Component is to continue the S&T efforts of Component 1a solutions for the purpose of progressing the solution along the S&T maturity continuum to a higher SRL. Entry into this Component is for successfully completed Component 1a solutions that are promising to Canada. Around the conclusion of Component 1a, Canada may invite the suppliers of the successful solutions to propose the advancement of their solution. Funds are limited to a maximum of \$1,000,000 (excluding applicable taxes) per contract for a maximum performance period of one year. The project will be assessed by Canada at one or more points of its progress for the purpose of Canada exercising Go/No Go decisions for the then balance of the project to proceed.

- **Component 2: S&T Solution Advancement (non-IDEaS Program funding, Procurement)**

The objective of this Component is to continue the S&T efforts from Component 1b solutions to a higher SRL within a same or similar S&T Challenge to Component 1. Canada's organizational unit offering the opportunity is outside of the IDEaS Program funding and considers the successful Component 1b solution to be of interest to Canada. Funds are limited up to \$20M (including applicable taxes) per contract for a performance period commensurate with the intended effort necessary to advance the solution to be ready for operational readiness (SRL 9). Each solution may be assessed by Canada at one or more points of its progress for the purpose of Canada exercising Go/No Go decisions for the then balance of the project to proceed.

- **Component 3: Sandbox** (No DND funding; Non-Procurement)
This is a non-procurement Component. Funds are not payable to the supplier. The objective of this Component is to enable the solution to be tested or demonstrated in a suitable environment and to receive feedback from DND on its applicability. Entry into this Component is for solutions within SRL 5-6 (inclusive).
- **Component 4: Innovation Assessment and Implementation (IAI)** (IDEaS Program funding; Procurement)
The objective of this Component is for DND operators to assess a solution's effectiveness in a realistic setting. Entry into this Component is for solutions within SRL 7-8 (inclusive) and for the same or similar S&T Challenge of Component 1. The intention is for Canada to purchase or rent, up to a limited quantity of the solution/prototype(s) developed through Components 1 and/or 3 for the purpose of incorporating the results of field testing and to demonstrate that the solution is suitable for production or supply in quantity to acceptable quality standards. This excludes quantity production or supply to establish commercial viability or to recover research and development costs.

Total funds allocated to IAI are unknown at this time, but estimated up to \$5M (excluding applicable taxes). Each solution may be assessed by Canada at one or more points of its progress for the purpose of Canada exercising Go/No Go decisions for the then balance of the project to proceed.
- There may be IDEaS Elements of Sandbox and Innovation Assessment and Implementation (IAI) running independently outside of this CFP for same or similar S&T Challenges. If any supplier wishes to participate in these they must compete through the associated formal solicitation(s).

1.3 Procurement – This CFP

This CFP invites proposals for Component 1a only and involves a three-stage procurement process. The steps of for each stage of the procurement are summarized below to better illustrate the overall process. Bidders are to refer to Parts 3 to 7 of this document for instruction.

Bidders are also requested to outline their intention to advance their solutions to Component 1b.

Stage 1: Proposal Submission

- Step 1: Bidder is to review the S&T Challenges and determine if they can address any of them with an innovation.
- Step 2: Bidder is to review the terms of the CFP including the requirements for submitting a proposal and determine its capability to submit a proposal; register with the online submission tool; prepare a proposal using the electronic Proposal Submission Form and submit the proposal on or before the bid closing date for the CFP.

Stage 2: Proposal Evaluation and Selection

- Step 3: DND, and other government departments (OGDs) where necessary, will evaluate the proposals against the requirements and evaluation criteria stated in the CFP. Proposal(s) having successfully responded to the evaluation criteria and other requirements of the CFP will be ranked by the scores received (highest to lowest) for consideration within Step 4.

- Step 4: DND may select proposals for funding for each S&T Challenge. Selection will be in descending order, from highest to lowest score given to the proposal. Additional proposals may be selected for funding should funds become available.

Stage 3: Contracting

- Step 5: Bidders of the selected proposals will be invited to engage in contract negotiations with PWGSC.
- The ranking and selection of proposals for funding does not constitute a guarantee on the part of Canada that a contract will be awarded.

1.4 Maximum Funding

Maximum funds for individual contracts are as set out in section 1.2. All proposals must be in Canadian dollars.

For Components 1 (a and b), 2 and 4 for the S&T Challenges of this CFP, total funding is estimated at \$98M (including applicable taxes). Component 3 is non-procurement and therefore excluded from the estimate.

1.5 Canadian Content

This procurement is conditionally limited to Canadian goods and Canadian services (see Part 3.2).

1.6 Security Requirements

There will be no security requirements associated with the resulting contract(s) for Component 1a.

1.7 Conflict of Interest

A successful Bidder (the Contractor), its subcontractor(s) or any of their agent(s) directly or indirectly involved in the performance of the work and/or in the production of the deliverables under any resulting contract will not be precluded from bidding on any potential future CFP related to the production or exploitation of any concept or prototype developed or delivered.

1.8 Agreements

1.8.1 Comprehensive Land Claims Agreements (CLCA)

Depending on the proposal received, the region of delivery for the goods and/or services may be in an area subject to Comprehensive Land Claims Agreements (CLCAs). If this occurs, the procurement will be subject to the applicable CLCA.

1.8.2 Trade Agreements

The Canadian Free Trade Agreement (CFTA) applies to this procurement. The CFP process is organized in a manner consistent with the principles of the CFTA in terms of equal access, fairness, and transparency.

This procurement is excluded from the North American Free Trade Agreement (NAFTA) as per Annex 1001.1b-2 Research and Development, all classes, and excluded from the application of the World Trade Organization—Agreement on Government Procurement (WTO-AGP) under Appendix 1, Annex 4, as well as excluded from the Canada-European Union Comprehensive Economic and Trade Agreement (CETA) as per Annex 19-5.

1.9 Contracting Authority

The Contracting Authority for this CFP is:

Kate Caves
Public Works and Government Services Canada
Acquisitions Branch
Defence Sciences Division
Email address: TPSGC.PAIDEeSProjetsComp-APIDEaSCompProjects.PWGSC@tpsgc-pwgsc.gc.ca

All questions regarding this CFP must be addressed to the Contracting Authority.

1.10 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 proposal, 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.

PART 2—BIDDER INSTRUCTIONS

2.1 Terminology

In this document, terms identified below and their meaning referenced in the 2003 (2018-05-22) *Standard Instructions* are identified in the table below.

Term (in this document)	Term (2003 Standard Instructions)
Call for Proposals (CFP)	Solicitation or bid solicitation
Proposal	Bid

2.2 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in this CFP by number, date and title are set out in the [Standard Acquisition Clauses and Conditions \(SACC\) Manual](#) issued by PWGSC

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

The 2003 (2018-05-22) Standard Instructions—Goods or Services—Competitive Requirements are incorporated by reference into and form part of this CFP; some sections have been amended and are listed below.

Section 04—Definition of a Bidder is amended as follows:

Delete:

It does not include the parent, subsidiaries or other affiliates of the Bidder, or its subcontractors.

Section 05—Submission of Bids is amended as follows:

Paragraph (4):

Delete:

Proposals will remain open for acceptance for a period of not less than 60 days from the closing date of the proposal solicitation unless specified otherwise in the bid solicitation.

Insert:

Proposals will remain open for acceptance for a period of no less than 1 year from the closing date of the solicitation period. The Contracting Authority may modify this period by sending written notice to the Bidder following Canada's completion (partial or entire) of Stage 2 and at any other time.

Section 08—Transmission by facsimile or by epost Connect and Section 09—Customs Clearance are amended as follows:

Delete:

The following sections are deleted in their entirety:

- Section 08 Transmission by facsimile or by epost Connect
 - Section 09 Customs Clearance
-

2.3 Enquiries about the CFP

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

Bidders must reference as accurately as possible the numbered item of this CFP 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 Bidders 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.

PART 3—PROPOSAL PREPARATION INSTRUCTIONS

3.1 Who May Apply

This CFP is open to individuals, academia and industry. The Bidder will assume the responsibility of submitting the proposal and serving as the point of contact for the duration of the CFP. Bidders will be required to obtain a Procurement Business Number (see Part 5.2.9).

3.1.1 Federal Public Service employees are subject to the Values and Ethics Code for the Public Sector <http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=25049>

3.1.2 All Bidders are subject to the provision of 2003 (2012-03-02) Conflict of interest—unfair advantage <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/23#conflict-of-interest>

3.2 Canadian Content

This procurement is conditionally limited to 50 percent of Canadian content—goods and services. Bidders are to provide a valid Canadian Content certification with the proposal (see Part 5).

3.3 Electronic Proposal Submission Form

3.3.1 Bidders must submit their proposal using the electronic Proposal Submission Form at https://dnd-ideas.smapply.io/prog/IDEaS_CFP2a order to complete and submit a proposal, Bidders must first register with the online submission system and obtain a username and password.

3.3.2 When a proposal is successfully submitted, an automated email is sent to the Bidder. This email serves as confirmation of receipt.

3.3.3 If a large number of Bidders access the web-based system at the same time, the electronic submission of proposals may be delayed. Bidders are solely responsible for ensuring their proposal is submitted properly in its entirety and on time. Bidders will not be able to retrieve or edit their proposals once they have submitted.

3.3.4 Should there be technical difficulties accessing or using the web-based system, Bidders must use the contact information located on the website. Technical assistance is restricted to issues associated with mechanics of the online system. The personnel providing technical assistance are not associated with the CFP and are not in a position to comment on or provide interpretation on the CFP.

3.3.5 All non-technical assistance for proposal submission is to be directed to the Contracting Authority.

3.3.6 Classified proposals will not be accepted for this CFP.

3.4 Proposal Preparation

Mandatory and Point-Rated Evaluation Criteria

3.4.1 The mandatory and point-rated criteria are detailed in Part 4, Attachment 1. The criteria are also included in the electronic Proposal Submission Form. Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe, in a thorough, concise and clear manner, their approach for carrying out the work while respecting the allotted word count for each criterion.

Statement of Work and Cost Proposal

3.4.2 Bidders must complete the Statement of Work (SOW) and Cost Proposal set out in the electronic Proposal Submission Form. Responses provided in the electronic Proposal Submission Form will form the Bidder's SOW and Cost proposal.

3.4.3 All prices identified in the SOW must be in Canadian dollars. The prices submitted with the proposal must be in accordance with the [PWGSC Contract Cost Principles 1031-2](#). Furthermore, the total amount of profit must not exceed 15 percent (15%) of the total bid price. For academic institutions, prices must be in accordance with 10.40 of the *Supply Manual* (see: <https://buyandsell.gc.ca/policy-and-guidelines/supply-manual/section/10/40>). The Bidder must also provide a Price Certification as set out in Part 5.

3.4.4 Requests for exchange rate fluctuation risk mitigation are not permitted as per [C3011T \(2013-11-06\) Exchange Rate Fluctuation](#)

3.5 Eligible Costs

Funds can only be used for incremental resourcing costs associated with delivering a proposed solution—for example, material and supplies, equipment rentals, subcontractors, casual or permanent employees (incremental labour costs for indeterminate employees at the federal level of the government in Canada cannot be included). Therefore, the funds can only be used for expenditures that are not amortized.

Travel and living expenses must be identified and compliant with the [National Joint Council Travel Directive](#). Expenses are to be at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Directive and with the other provisions of the Directive referring to “travelers”, rather than those referring to “employees”.

Travel justifications must be provided in Part 4, Attachment 1.

Canada has the right to request audits at any time during and after contract award up to a period of six years, as per 2040 42. The amount claimed under the contract, calculated in accordance with the Basis of Payment provision in the Articles of Agreement, is subject to government audit both before and after payment is made. If an audit is performed after payment, the Contractor agrees to repay any overpayment immediately on demand by Canada. Canada may hold back, deduct and

set off any credits owing and unpaid under this section from any money that Canada owes to the Contractor at any time (including under other contracts). If Canada does not choose to exercise this right at any given time, Canada does not lose this right.

For additional information, please refer to General Conditions – Research and Development 2040 42 (2018-06-21) Accounts and audit found at: <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/3/2040/18#accounts-and-audit>.

3.6 Intellectual Property

The Bidder must certify that it owns all relevant background Intellectual Property (IP) requisite to proceed with the work as defined in the SOW. (See Part 5)

The default position of Canada is to allow contractors to retain the IP rights with a licence granted to Canada for IP rights, which would include the right to use and have used the IP for Canada’s activities. More information on IP is available from the following sources and, in particular, the licencing provisions are in the General Conditions 2040 30:

- Definition of IP under SACC Manual issued by PWGSC, found at: <https://buyandsell.gc.ca/policy-and-guidelines/supply-manual/section/3/95>
- General Conditions 2040 30 (2018-06-21) Licences to Intellectual Property Rights in Foreground and Background Information found at: <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/3/2040/18#licenses-to-intellectual-property-rights-in-foreground-and-background-information>
- Policy on Title to Intellectual Property Arising under Crown Procurement Contracts, found at: <http://www.ic.gc.ca/eic/site/068.nsf/eng/00005.html>

3.7 Component 1b Interest

Suppliers submitting proposals for Component 1a may be interested in participating in Component 1b as outlined in Part 1.2 of this CFP. If interested, Bidders should complete the section “Solution Progression to Component 1b” in the Statement of Work (Annex A) under article D of Section 2 “Project Description.”

3.8 Component 1b, 2, 3, 4 Advancement within the SRL Continuum

Suppliers of successful solutions from Component 1a may be invited to participate in Component 1b. Suppliers of successful solutions from Component 1b may then be invited to participate in Component 2 and/or Component 3 and/or Component 4 at a later undetermined date.

3.9 Completing the Statement of Work - Cost Proposal and Cost Proposal Breakdown

Annex A and Attachment 3 to Part 4 will form the SOW & Cost and the Cost Proposal Breakdown, respectively, once completed. Sections and elements of these documents are to be completed by the Bidder via the electronic proposal submission form following the instructions therein. Certain elements are already populated by Canada and are not to be changed by the Bidder.

Following contract award (if awarded), the terms “Bid” and “Bidder” may be changed to “Contract” and “Contractor” and if not changed will be interpreted to mean, instead, “Contract” and “Contractor” unless otherwise noted. However, this does not change the requirement for the Bidders to complete and submit the information with the bid.

3.10 Certifications

Required certifications and relevant additional information are identified in Part 5.

PART 4—EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- 4.1.1 Proposals will be assessed in accordance with the entire requirement of this CFP including the technical and strategic considerations criteria and financial evaluation criteria.
- 4.1.2 An evaluation team composed of representatives of Canada will evaluate the proposals. If required, Canada may use external Subject Matter Experts (SMEs) to evaluate any proposal. External SMEs will be required to confirm they are not in a conflict of interest, and sign a non-disclosure agreement.
- 4.1.3 For each S&T Challenge, the evaluation team will determine first if there are two or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and fewer than two responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.
- 4.1.4 In conducting its evaluation of the proposals, Canada may, but will have no obligation to verify any information provided by Bidders through independent research, use of any government resources or by contacting third parties.

4.2 Evaluation Criteria

4.2.1 Mandatory Technical, Strategic Considerations and Financial Criteria

Proposals must meet all mandatory criteria identified in Part 4, Attachment 1. Proposals that fail to meet all mandatory criteria will be declared non-responsive (non-compliant).

4.2.2 Point-Rated Evaluation Criteria

Each proposal that meets all of the mandatory criteria will be evaluated and scored in accordance with the point rated evaluation criteria in Part 4, Attachment 1, Table 2. Proposals must obtain a minimum score of 40 points to be declared responsive.

4.2.3 Strategic Considerations Criteria

Each proposal that meets the minimum required score of 40 points within 4.2.2 will be evaluated and scored in accordance with the strategic considerations criteria in Part 4, Attachment 1, Table 3.

4.2.4 Bidders are to complete all the identified elements in the SOW & Cost, Annex A and the Cost Proposal Breakdown, Attachment 3 to Part 4.

4.2.5 Classified bids will not be accepted and therefore will not be evaluated. The bid may need to be opened to determine if it is classified.

4.3 Ranking Proposals

Proposals that satisfy all of the mandatory, point-rated and financial criteria in sections 4.2.1 to 4.2.4 as well as meet all other requirements of the CFP will be ranked in the order of highest to lowest score per S&T Challenge. A total of 86 points is possible and a minimum of 40 points is required. All ranked proposals will be considered by the Senior Management Funding Oversight team for proposal selection purposes.

4.4 Proposal Selection

For each S&T Challenge, the Senior Management Funding Oversight team (comprised of the Assistant Deputy Minister of S&T/DRDC/DND and the Director General of IDEaS/S&T/DRDC/DND) will select proposals for funding (via recommendation for contract award) starting with the highest ranked proposal and following a descending order (highest to lowest). Selection is subject to available funding. If additional funding becomes available at a later date, additional highest ranked proposals may be funded. The Senior Management Funding Oversight team will be responsible for funding allocation and approval

Tie breaker

If there is a tie in Total Score amongst proposals once ranked in descending order, Canada will use the distinguishing factors found on the list below to break the tie.

1. Total Technical Score out of 70 points;
2. Strategic Considerations Score for Investment Viability out of 6 points;
3. Strategic Considerations Score for Operational Requirement out of 5 points; and
4. Strategic Considerations Score for Operational Capacity out of 5 points;

4.5 Debriefing

PWGSC will inform Bidders of their individual results via email. Contract award notices will posted on BuyandSell.gc.ca. Canada may, on request by the Bidder, provide unsuccessful Bidders with additional clarification. Bidders must make their requests to the Contracting Authority within 15 working days after the receipt of their individual results.

4.6 Contracting Process

Further recommendations for contract award will be based on the available funding and the success in completing the following steps.

4.6.1 Financial Capability and Certifications

PWGSC may undertake the following:

- a) obtain financial information from Technical/Scientific Authority to verify the Bidder's capacity to undertake the work identified in the SOW;
- b) request certifications and other information before the contract award; and
- c) negotiations as set out in Part 4.6.2.

If a Bidder fails to demonstrate adequate financial resources to complete the work, or fails to provide the certifications and additional information, the proposal will be considered non-responsive and given no further consideration.

4.6.2 Contract Negotiation

PWGSC may initiate the negotiations for the following, as applicable:

- a) pricing and cost breakdown;
- b) the provision by the Bidder of price support to substantiate the costs to Canada; and
- d) Bidders must provide information requested by PWGSC within two business days of receiving the request. Failure to achieve consensus on any aspect of the negotiations will result in the proposal to be set aside and not given any further consideration.

4.6.3 Contract Award

Upon successful completion of contract negotiations, PWGSC may internally recommend, for approval, contract(s) to be awarded.

4.7 Human and Animal Ethics

Proposals that include human subjects, human tissues, laboratory animals, or animal tissues, must not proceed without prior approval of the project team's Human Subjects Research Ethics Committee or the institutional Animal Care Committee and must not be conducted in contravention of the respective Committee's conditions of approval.

PART 5—CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the certifications and relevant 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 proposal non-responsive, or will declare a contractor in default if any certification made is found to be untrue, whether made knowingly or unknowingly, during the proposal evaluation period or during the contract period.

PWGSC has the right to ask for additional information to verify the Bidder's certifications. Failure to comply and cooperate with any request or requirement imposed by PWGSC will render the proposal non-responsive or constitute a default under the contract.

5.1 Certifications Required with the Proposal

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

5.1.1 Canadian Content Certification

This procurement is conditionally limited to Canadian goods and Canadian services.

Subject to the evaluation procedures contained in the CFP, Bidders acknowledge that only bids with a certification that the goods and services offered are Canadian goods and Canadian services, as defined in clause A3050T as modified below, may be considered.

Failure to provide this certification completed with the bid will result in the goods and services offered being treated as non-Canadian goods and non-Canadian services.

The Bidder certifies that:

() a minimum of 50 percent of the total bid price consists of Canadian goods and Canadian services as defined in paragraph 5 of clause A3050T, as amended herein.

For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult Annex 3.6. (9), Example 2, of the *Supply Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/supply-manual/annex/3/6>).

5.1.2. SACC Manual clause A3050T (2014-11-27), Canadian Content Definition, is amended as follows:

DELETE: 80 percent

INSERT: 50 percent

5.1.3 Integrity Provisions—Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, if applicable, the Integrity declaration form available on the Forms for the

Integrity Regime website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications and Additional Information Precedent to Contract Award

The certifications and additional information listed below must be submitted with the proposal in the online tool. If any of these required certifications or additional information are not completed and submitted as requested, PWGSC will inform the Bidders of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame specified will render the proposal non-responsive.

5.2.1 Integrity Provisions—Required Documentation

In accordance with the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

Integrity Provisions—Declaration of Convicted Offences

Pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide a completed Declaration Form (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), as applicable, to be given further consideration in the procurement process.

5.2.2 Former Public Servant Certification

Contracts awarded to former public servants (FPSs) 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 awarded to FPSs, Bidders must provide the information required below before the contract award. If the answer to the questions and, as applicable, the information required has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-responsive.

Definitions: 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.

5.2.3 Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a 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; and
- 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 FPS 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: 2012-2 and the Guidelines on the Proactive Disclosure of Contracts.

5.2.4 Work Force Adjustment Directive

Is the Bidder a 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) names 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) rates 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.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including applicable taxes.

5.2.5 Controlled Goods

Will the resulting contract involve controlled goods?

YES () NO ()

For further information on the Controlled Goods Program, visit the website: <http://ssi-iss.tpsgc-pwgsc.gc.ca/dmc-cgd/index-eng.html>.

5.2.6 Status and Availability of Resources

The Bidder certifies that, should it be awarded a contract as a result of the bid solicitation, every individual proposed in its bid will be available to perform the Work as required by Canada's representatives and at the time specified in the bid solicitation or agreed to with Canada's representatives. If for reasons beyond its control, the Bidder is unable to provide the services of an individual named in its bid, the Bidder may propose a substitute with similar qualifications and experience. The Bidder must advise the Contracting Authority of the reason for the substitution and provide the name, qualifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Bidder: death, sickness, maternity and parental leave, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Bidder has proposed any individual who is not an employee of the Bidder, the Bidder certifies that he or she has the permission from that individual to propose his/her services in relation to the work to be performed and to submit his/her résumé to Canada. The Bidder must, upon request from the Contracting Authority, provide a written confirmation, signed by the individual, of the permission given to the Bidder and of his/her availability. Failure to comply with the request may result in the bid being declared non-responsive.

5.2.7 Procurement Business Number

Suppliers are required to have a Procurement Business Number (PBN) prior to the contract award in order to receive a PWGSC contract. Suppliers may register for a PBN online at Supplier Registration Information (<https://srisupplier.contractscanada.gc.ca>). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agents.

PBN: _____

5.2.8 Rate or Price Certification

The Bidder is requested to provide one of the following certifications, as applicable, with its Cost Proposal:

_____ The Bidder certifies that the price proposed is based on costs computed in accordance with Contract Cost Principles 1031-2, and includes an estimated amount of profit of _____. The total amount of profit must not exceed 15 percent (15%) of the total bid price.

OR

_____ The Bidder certifies that the price proposed is based on costs computed in accordance with 10.40 (a) to (i) of the *Supply Manual PWGSC*, on the pricing of research, and development contracts with universities and colleges.

5.2.9 Intellectual Property

(Reference: Part 3, section 3.6 “Intellectual Property”).

The Bidder certifies that it owns all relevant background Intellectual Property (IP) requisite to proceed with the work as defined in the SOW.

5.2.10 Applicable Laws

(Reference: Part 1, article 1.10 “Applicable Laws”)

The Bidder is to indicate the choice of the Canadian province/territory below if choosing other than Ontario.

“The laws in force in the Canadian province/territory of _____ will apply instead of Ontario.”

5.2.11 Certification Acknowledgment

The Bidder certifies that the information submitted herein, and the information submitted in its bid, is accurate and complete.

The Bidder has read, understands and acknowledges the instructions and the clauses and conditions contained in all parts of the solicitation document.

By clicking the button, the signatory certifies the above and that they are an authorized signing authority of the Bidder.

PART 6—SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1 Security Requirements

There is no security requirement associated with Component 1a.

6.2 Controlled Goods Program—Bid

SACC Manual clause A9130T (2014-11-27), Controlled Goods Program.

PART 7—RESULTING CONTRACT CLAUSES

The instructions, clauses and conditions identified below will form part of any resulting Contract. The instructions, clauses and conditions do not represent a complete list. PWGSC may update, add or delete, as applicable, the standard terms and conditions contained herein.

7.1 Statement of Work

The Contractor must perform the work in accordance with the SOW under Annex A.

7.2 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *SACC Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by PWGSC.

7.2.1 General Conditions

2040 (2018-06-21), General Conditions—Research & Development, apply to and form part of the Contract.

7.3 Security Requirement

There is no security requirement associated with the resulting contract

7.4 Term of Contract

The Contract period is for a maximum performance period of six months. The Work is to be completed by *TBD*.

The Contract period and Work will commence no later than 5 business days after contract award, unless agreed to by Technical Authority.

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

TBD for each individual contract

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.

7.5.2 Technical Authority

The Technical Authority for the Contract is:

TBD for each individual contract

The Technical Authority is the representative of the department or agency 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 Technical Authority; however, the Technical 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.

7.5.3 Procurement Authority

The Procurement Authority for the Contract is:

TBD for each individual contract

The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority, however, the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

7.5.4 Contractor's Representative

TBD for each individual contract

7.6 Proactive Disclosure of Contracts with Former Public Servants

SACC Manual clause A3025C (2013-03-21)

7.7 Payment

7.7.1 Basis of Payment—Firm Price

SACC Manual clause C0207C (2013-04-25)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price *as specified in Annex A for a cost of \$_(to be completed by Canada at contract award)*. Customs duties are included and Applicable Taxes are extra.

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

7.7.2 Method of Payment

7.7.2.1 Milestone Payments

Canada will make milestone payments in accordance with the Work Plan, Deliverables and Payment table detailed in the SOW (Annex A) and the payment provisions of the Contract if:

- a) an accurate and complete claim for payment using form PWGSC-TPSGC 1111 (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>), Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b) all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;
- c) all work associated with the milestone has been completed and accepted by Canada.

7.7.3 SACC Manual Clauses

A9117C (2007-11-30), T1204— Direct Request by Customer Department

7.8 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 general conditions 2040 (2018-06-21);
- c) Annex A, Statement of Work and Cost;
- d) Annex B, Milestone 1 and Milestone 2 Report Template(s);
- e) Annex __, Insurance - Specific Requirements; *if applicable*; and
- f) The Contractor's proposal, dated *_TBD_*, as amended (if applicable)

7.9 Discretionary Audit

One of the following SACC Manual clauses will apply.

- C0101C (2010-01-11), Discretionary Audit—Non-commercial Goods and/or Services;
- C0102C (2010-01-11), Discretionary Audit—Canadian Universities and Colleges; or
- C0705C (2010-01-11), Discretionary Audit.

7.10 Invoicing Instructions

The Contractor must submit a claim for progress payment using form PWGSC-TPSGC 1111 (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>), Claim for Progress Payment.

Each claim must show:

- a) all information required on form PWGSC-TPSGC 1111;
- b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
- c) the description and value of the milestone claimed as detailed in the Contract.

First claim must be supported by a copy of the Interim Progress Report.

Second claim must be supported by:

- a) a copy of the Final Report; and,
- b) if applicable as set out in Annex A, the Solution Progression to Component 1b overview.

The Contractor must prepare and certify an original claim on Form PWGSC-TPSGC 1111, and forward it to the Technical Authority for certification with a copy to the Contracting Authority, in an electronic format, to the electronic mail address identified under section entitled "Authorities" of the Contract. Portable Document Format (.pdf) format is acceptable. The Technical Authority will inspect and certify the claim for work and forward the certified claim to the Payment Office for the remaining certification and payment will take place.

The Contractor must not submit claims until all work identified in this claim is completed.

7.11 Certifications

7.11.1 Compliance

Compliance with the certifications (attestations) and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract.

7.11.1 SACC Manual Clauses

A3060C (2008-05-12), Canadian Content Certification

7.12 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in *(to be inserted by Canada at the contract award)*.

7.13 Insurance

SACC Manual clause G1005C (2016-01-28), Insurance - No Specific Requirement

OR

Insurance - Specific Requirements

(Note to Bidders: the selected proposal(s) may necessitate specific insurance requirements in lieu of or in addition to G1005C. This will be addressed with the selected Bidder prior to Contract award and may be a condition of contract award. If not applicable, this clause will be deleted.)

The Contractor must comply with the insurance requirements specified in Annex (to be completed by PSPC if applicable). The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. For Canadian-based Contractors, coverage must be placed with an insurer licensed to carry out business in Canada, however, for Foreign-based Contractors, coverage must be placed with an insurer with an A.M. Best Rating no less than "A-." The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

7.14 Controlled Goods Program

7.14.1 SACC Manual clause A9131C (2014-11-27), Controlled Goods Program—Contract

7.14.2 SACC Manual clause B4060C (2011-05-16), Controlled Goods

7.15 Canadian Armed Forces Site Regulations

For the work to be performed at a Canadian Armed Forces site, the Contractor must comply with all standing orders or other regulations, instructions, and directives in force on the site where the Work is performed.

7.16 Go/No Go—Work Authorization

Following the Contractor's completion of Milestone 1 and the Technical Authority's receipt of the Interim Progress Report, and despite any other condition of the Contract, Canada will review and evaluate the Work and decide, at its discretion, whether to continue with the Work.

If Canada decides to continue with Work, the Technical Authority will advise the Contractor in writing to commence work on Milestone 2. The Contractor must immediately comply with the notice.

If Canada decides not to proceed with the Work, the Technical Authority will advise the Contractor in writing of the decision and the Contract will be considered completed at no further costs to Canada. In no event will the Contractor be paid for any cost incurred for unauthorized Work.

7.17 Applicable Foreign Nationals (Canadian Contractor OR Foreign Contractor)

SACC Manual clause [A2000C](#) (2006-06-16) Foreign Nationals (Canadian Contractor)

OR

SACC Manual clause [A2001C](#) (2006-06-16) Foreign Nationals (Foreign Contractor)

7.18 Successful Solution

Following completion of the solution through performance of Milestones 1 and 2, the solution will be assessed for the purpose of establishing the success or non-success of the solution in order to be considered for participation in Component 1b. The following assessment will be used.

A successful solution is defined by:

1. The receipt and acceptance of Milestone 2 deliverable, Final Report, by the Technical Authority;
2. The qualifiers found within Annex B – Milestone 1 and Milestone 2 Report Template(s): scientific or technical merit, novelty/innovative, impact, feasibility and approach, gender based analysis plus, and cost performance which will be used to assess the success of the solution, at Canada's discretion.

If successful, PWGSC may invite the Contractor to submit a proposal for the purpose of advancing the SRL of the solution through Component 1b. The proposal will be evaluated against criteria that are same or similar to those in Part 4, Attachment 1, Tables 2 and 3, including costing requirements of the Call for Proposal (CFP) no. **W7714-196613**.

7.19 Joint Venture

Note: This section will be deleted if the Bidder awarded the Contract is not a joint venture. If the Contractor is a joint venture, this clause will be completed with information provided in the bid.

7.19.1 The Contractor confirms that the name of the joint venture is _____ and that it is comprised of the following members: *[list all the joint venture members named in the Contractor's original bid]*.

7.19.2 With respect to the relationship between the members of the joint venture Contractor, each member agrees, represents and warrants (as applicable) that:

- i. _____ has been appointed as the “representative member” of the joint venture Contractor and has fully authority to act as agent for each member regarding all matters relating to the Contract;
- ii. by giving notice to the representative member, Canada will be considered to have given notice to all the members of the joint venture Contractor; and
- iii. all payments made by Canada to the representative member will act as a release by all the members.

7.19.3 All the members agree that Canada may terminate the Contract in its discretion if there is a dispute among the members that, in Canada’s opinion, affect the performance of the work in any way.

7.19.4 All the members are jointly and severally, or solitarily, liable for the performance of the entire Contract.

7.19.5 The Contractor acknowledges that any change in the membership of the joint venture (i.e., a change in the number of members or the substitution of another legal entity for an existing member) constitutes an assignment and is subject to the assignment provisions of the General Conditions.

7.19.6 The Contractor acknowledges that all security and controlled goods requirements in the Contract, if any, apply to each member of the joint venture Contractor.

Part 1, Attachment 1—S&T Challenges

Challenge #1: Detection of concealed explosives

The Department of National Defence and the Canadian Armed Forces (DND/CAF) seek to improve stand-off detection of concealed explosives in order to mitigate the threat to soldiers operating in high-risk environments.

Background and Context

The evolving nature of the threat posed by concealed explosives, or Improvised Explosive Devices (IEDs), presents an ongoing and significant challenge for soldiers in operations. To counter this threat, assorted tactics, tools, and procedures have been implemented, as well as new vehicle designs to disperse the explosive impacts and technical solutions to locate the IEDs. Currently, the CAF uses an Expedient Route Opening Capability which consists of vehicles equipped with Ground Penetrating Radars and metal detectors that are capable of finding roadside and buried IEDs.

However, adversaries have shown themselves to be highly adaptable by using low-cost technologies to develop increasingly sophisticated IEDs and operating in urban environments has proven significantly more challenging due to underground infrastructure and the presence of significant electromagnetic traffic. In light of this evolving nature of the IED threat, new technologies and methods are required to mitigate the risk to soldiers.

Desired Outcomes and Considerations

DND/CAF is looking for novel solutions to increase the distance for stand-off detection of explosives, and to improve the speed at which detection occurs. The desired outcome is a solution for detecting concealed explosives with sufficient warning to allow the CAF to avoid concealed IEDs. (“Concealed” is to be interpreted as an IED device being below the surface level and/or covered such that it is not visible.)

It is desirable that proposed solutions can detect the location of concealed explosives in real-time from a distance of at least five metres with a 95% confidence factor.

Challenge #2: Respiratory protection for DND/CAF members with facial hair

The Department of National Defence and the Canadian Armed Forces (DND/CAF) require respiratory protection systems for members with facial hair who must operate in Chemical, Biological, Radiological and Nuclear (CBRN) environments in order to maximize their safety while also ensuring their ability to operate freely for prolonged periods of time.

Background and Context

Historically, only a small segment of Canadian Armed Forces members were allowed to have beards. The vast majority were required to be clean-shaven. The CAF has begun to loosen its restrictions on

members with beards, but presently, military members are still required to be clean-shaven for safety reasons, e.g., to maximize their level of protection when operating in Chemical, Biological, Radiological and Nuclear (CBRN) environments.

The problem with negative pressure gas masks is that facial hair degrades their performance below acceptable levels by preventing a flawless seal between the mask surface and the wearer's face. Some respiratory protection systems claim they can accommodate facial hair, but they have been observed to offer a limited period of protection for emergency evacuation purposes only, and they do not meet the stated requirement of ensuring the wearer can operate freely for prolonged periods.

Desired Outcomes and Considerations

The DND/CAF is looking for respiratory systems that can accommodate facial hair and still provide maximum protection in Chemical, Biological, Radiological and Nuclear (CBRN) environments. Key outcomes are: ease of use, protection levels, allow wearer to operate freely for prolonged periods, and must integrate with existing Canadian Armed Forces Chemical, Biological, Radiological and Nuclear (CBRN) protective suits. The solution must accommodate a wide range of Canadian Armed Forces face shapes and sizes.

Challenge #3: An integrated human resources data management solution

The Department of National Defence and the Canadian Armed Forces (DND/CAF) require novel tools and methods to seamlessly and securely access, share, integrate, and analyze disparate types and sources of human resources management data residing in different applications and storage systems.

Background and Context

Decision-making related to personnel is significantly strengthened by timely access to accurate and complete data. Data on personnel in DND/CAF currently exists on multiple, disconnected applications and storage systems, which makes integrating and analyzing data from various sources labour intensive, error-prone, and inefficient. Moreover, only a small fraction of personnel currently have access to their own data. The dispersed nature of DND/CAF operations adds additional challenges to data management, including the need to access data while deployed overseas or operating at home, at bases across Canada or in headquarters, or in any of the many CAF recruitment centres across Canada. The sensitive and varied nature of this data – including performance assessment, career management plans, and medical data – necessitates a flexible system that can be tailored to each individual as a function of their role. DND/CAF's goal is to explore solutions for the secure storage, integration, and analysis of data necessary for decision-making and operations at home and in theatre. Although many vendors offer viable solutions (e.g. cloud services), a critical consideration in this case is an ability to host, access and use DND/CAF data, while ensuring data is protected from threats such as access by unauthorized personnel, hackers, or foreign governments.

Desired Outcomes and Considerations

The desired outcome of this activity is the development and demonstration of novel technologies and methods to seamlessly and securely access, share, integrate, and analyze disparate types and sources of human resources management data residing in different applications and storage systems.

Successful proposals must include a detailed discussion of all factors to be considered when assessing the viability of a solution in the Canadian and DND/CAF context. Proposed solutions should be:

- Secure, with an ability to transmit sensitive data securely and protect data from unauthorized access;
- Flexible, with an ability to integrate various forms of data residing on disparate data storage systems;
- Scalable and adaptable, with an ability to incorporate new functionality, data sources and forms of data, e.g. video, as well as new users and access sites;
- Customizable, with an ability to tailor access to individuals based on their role;
- Compliant with applicable Canadian Government policies/regulations regarding data storage and management;
- Internet accessible and user-friendly, requiring minimal training; and
- Cost-effective across the full life-cycle.

Challenge #4: Alternative recruitment models

The Department of National Defence and the Canadian Armed Forces (DND/CAF) require a modern, agile, and cost-effective recruitment system that reduces reliance on physical recruitment sites and leverages novel approaches to engage with applicants located across Canada.

Background and Context

Enhancing the efficiency of the CAF recruiting system is a key defence priority. The CAF recruitment model continues to rely on 'bricks and mortar', where applicants are required to report to a recruiting center to complete many of the steps involved in the application process. Although applicants can now apply online, the majority of the recruitment and selection process involves direct involvement of CAF members (e.g. administration, testing, evaluation of learning equivalencies, file tracking and processing, etc.). The CAF would like to explore strategies to reduce their reliance on physical recruitment sites, while maintaining (or, preferably, increasing) access to the applicant pool and ensuring applicants receive the exposure they require to make informed decisions about a career in the CAF.

Desired Outcomes and Considerations

The desired outcome of this activity is the development and demonstration of innovative approaches to recruit personnel for the CAF, while decreasing the footprint, maintaining/increasing access to the applicant pool, and ensuring applicants have access to information necessary to make decision (which could include but is not limited to the employment of virtual recruitment technologies/processes, the use of artificial intelligence to identify and attract individuals with specific competencies and attributes and up to the complete outsourcing of the early phases of recruitment). Proposals should be tailored to the unique context of the CAF. Proposals should include a detailed discussion of the factors to be considered in assessing alternative recruitment approaches, including cost/benefit considerations (i.e. personnel and funding to set up and sustain the capability). Proposals should build upon best practices observed across a broad range of organizational types (i.e. private, public, non-profit, other).

Challenge #5: Verification of full motion video integrity

The Department of National Defence and the Canadian Armed Forces (DND/CAF) along with Canadian public security partners in law enforcement and national security are looking for solutions for authenticating Full Motion Video (FMV) in order to protect video from unintended or malicious tampering.

Background and Context

Full motion video has become a crucial asset when making operational decisions. A massive amount of FMV is now being captured and stored, and practitioners must rely on automated tools for processing and exploiting the contents of video libraries. Automated tools offer significant benefits, but relying on these tools also creates risks as the technology grows in sophistication. Automated tools can be used by adversaries to gain access to and manipulate FMV assets. Militaries and security organizations who rely on video data must be able to protect it from tampering and verify its authenticity, in order to guarantee the trustworthiness. After video is captured, subsequent changes, performed by either an adversary or insider threat, can be difficult or impossible to detect and trace to their source. Tools and methods are needed for creating a digital “chain of custody” during processing, exploitation and dissemination and for files stored in video libraries. The ability to maintain version control is also needed when downgrading and declassifying videos.

Desired Outcomes and Considerations

The desired outcome of this effort is a suite of automated tools and methods for encoding, detecting and protecting full motion video from tampering during capture, storage, retrieval or processing operations.

The expected outcomes may include but are not limited to:

- Ability to determine whether video assets, upon later retrieval, are the same as when they were originally recorded, and version control to maintain records of authorized changes;
- Tools and methods for detecting sophisticated tampering of surveillance video;
- Ability to detect and thwart counter-automation spoofing techniques;
- End-to-end platform-to-platform protection with a complete and automated forensic analysis to prevent tampering and to maintain the data integrity of surveillance video;
- Ability to downgrade and declassify video by removing metadata fields or segments, while maintaining video authenticity and a record of the source of authorized changes; and
- Ability to create a digital “chain of custody” for video files to ensure data integrity once file sharing has begun.

Challenge #6: Persistent maritime surface sensor system

The Department of National Defence and the Canadian Armed Forces (DND/CAF) require an integrated and persistent sensor, information, and decision system that provides indications and warnings of surface and near-surface threats in Canada's three oceans maritime estate.

Background and Context

DND/CAF requires a persistent, effective, reliable and secure system capable of detecting and continuously tracking a full-spectrum of threats in the maritime environment including, but not limited to, small maritime vessels (65 feet or less), low-observable cruise missiles, small and micro Unmanned Aircraft Systems, and other small radar cross-section objects, at a sufficient range that permits an appropriate, scalable response.

Desired Outcomes and Considerations

The goal of the challenge is to enhance maritime domain awareness. The national commands and agencies responsible for maritime continental defense and security need sufficient time to conduct threat assessments and effectively respond to threats in the maritime environment. Innovative solutions are sought that will support the DND/CAF's ability to reliably detect, characterize and track objects within the maritime approaches to Canada. Of particular interest are innovative solutions that bolster defense and security in northern regions of Canada.

Research, analysis, concepts and technologies are sought that address, but are not limited to, one or more of the following characteristics associated with an enhanced maritime domain awareness system:

- Capable of unhindered operation regardless of environmental and weather conditions, including, but not limited to, high Arctic conditions (e.g., low temperature and low light);
- Capable of extended operation in remote locations with power storage capabilities;
- Flexibility to adjust to changing threat characteristics and behaviours, such as mode of operation, physical properties and spectrum of emissions;
- Enable prompt and reliable detection of relevant objects in order to permit sufficient time for threat characterization, assessment and response;
- Capable of detecting and tracking multiple concurrent objects and anomalies;
- Allow for persistent tracking of maritime surface and near-surface threats in the maritime environment (i.e., enduring or prolonged presence covering an area of interest);
- Have the ability to maintain contact of maritime surface and near-surface threats (i.e., continuous tracking) by some means (e.g., radar, visual, infrared, etc.) as required; and
- Allow for trusted and secure real-time data transmission and communication of data and information to appropriate agencies in order to permit near-real time decision-making.

Challenge #7: Understanding cyber intent

The Department of National Defence and the Canadian Armed Forces (DND/CAF) require the means to differentiate between targeted malicious and broad and opportunistic cyber-attacks in order to triage and prioritize cyber responses.

Background and Context

The DND/CAF is responsible for managing large IT networks that are continuously under attack by online hackers who seek to thwart security protocols and whose motivation and level of sophistication varies. Most attacks do not target the department specifically, however others are highly targeted and sophisticated.

Even with reliable and accurate detection capabilities, DND/CAF must keep pace with change by investing in new and better automated tools that can be used to reveal malicious cyber-activity. While detection is critical, it is only the first part of the equation; as such, DND/CAF is seeking ways to discern the intent of would-be attackers which is a key component of a risk-based approach for proactively managing cyber-attacks. Bolstering the cyber intent capability would allow DND/CAF to better focus its resources to limit the impacts of malicious attacks or in other, more extreme cases, to take offensive measures to defeat the most serious threats.

Desired Outcomes and Considerations

Innovations are needed that permit DND/CAF to optimize its cyber response efforts. Tools and methods are sought that can greatly increase the detection of malicious cyber-attacks, but also the efficiency, speed and accuracy of human “triage” activities.

Examples of significant outcomes include but are not limited to:

- Automated tools and methods for boosting “detection” accuracy and reliability;
- Better “tripwires” for revealing malicious activity;
- Ways to discern the “intent” of would-be attackers in order to make judicious use of resources when deciding which cyber-attacks to address, counter and defeat;
- Risk assessment tools and methods that will help to optimize response efforts;
- Understanding patterns of behavior associated with adversarial tactics;
- Better intelligence with respect to changing strategies and tactics of adversaries;
- The ability to identify adversaries based on patterns of behavior in cyberspace; and
- Forensic analysis of successful and failed attacks to uncover patterns and trends.

Challenge #8: Detecting and responding to hostile information activities

The Department of National Defence and the Canadian Armed Forces (DND/CAF) require the means to rapidly identify, assess and respond to adversaries’ use of social media, mass communications and other tools that are being used to influence targeted audiences.

Background and Context

Adversarial states and non-state actors are engaging in hostile influence activities, e.g., information-based techniques, deception, and image-manipulation activities, to undermine a nation's reputation, values, cohesion, authority and decision-making processes. Even though many nations are under threat from these types of activities, not all are aware of their existence. Most hostile influence activities are thought to occur in contexts and fora that are not being monitored by the security apparatus of the nations being targeted. But even when nations are aware of these subversive activities, few are thought to have devised strategies and plans for protecting their populations to their potential harm or responding skillfully to mitigate the consequences.

Desired Outcomes and Considerations

There is a need to understand when hostile actions are being undertaken, followed by a clear understanding of the population segments that are being targeted and their vulnerability to manipulation. Understanding the triggers and thresholds for mobilization is also crucial. Reliable indicators are needed for knowing when influence activities are achieving their desired effect (e.g., a measurable change in a population's opinion or sentiment).

Examples of significant outcomes of this challenge include but are not limited to:

- Developing a typology of past hostile influence activities against Canada, using examples and case studies to discern patterns specifically related to social media strategies and techniques for organizing attacks (e.g., deriving sympathy, influence and financing);
- Identifying indicators of change in public opinion and behaviour, and the attendant triggers and thresholds;
- Developing tools and methods (e.g., a tactical warning tool) for detecting hostile activities affecting Canadian interests;
- Conducting research on adversarial motives, intent, strategies and information-based, social media techniques to develop a framework for identifying, assessing, and skillfully responding to hostile influence activities conducted on social media;
- Conducting research to explore relationships between influence activities, individual- and group-level vulnerabilities and the likelihood of mobilization in response to manipulations;
- Undertaking cross-cultural analyses to understand how and when hostile influence activities are used to exploit cultural sensitivities, fuel intercultural tensions or undermine social cohesion; and
- Identifying and analyzing case studies where other Allied nations have responded to information warfare activities in order to discern lessons learned.

Challenge #9: Full spectrum communications in the Arctic

The Department of National Defence and the Canadian Armed Forces (DND/CAF) require a reliable, trusted and affordable communications solution to provide both support and command and control to forces engaged in domestic and continental defence, security and safety missions in the Northern regions including the Arctic.

Background and Context

The Arctic region is beyond the range of geostationary satellites, and conventional high frequency (HF) beyond-line-of-sight communication is unreliable due to ionospheric conditions. As a result, DND/CAF lacks the connectivity required among forward operating locations, including Canadian and Allied land, sea or air units and platforms, across the Arctic region, including the approaches to North America. An Arctic-wide, robust and secure communications architecture (voice, datalink, full motion video) is needed North of approximately 65 degrees latitude to conduct command and control of the full spectrum of forces, which includes intelligence, surveillance and reconnaissance, maritime domain awareness, search and rescue, and air intercept operations.

Desired Outcomes and Considerations

Research, analysis, concepts and technologies are sought that address, but are not limited to, one or more of the following characteristics associated with the need for robust, reliable and resilient communications connectivity solutions (voice, image and video) in the Arctic region:

- Assured communications beyond geostationary satellite range, where conventional HF communication technology does not support sufficient bandwidth or reliability, commercial communication infrastructure is limited or non-existent, and the weather conditions are harsh;
- On-demand connectivity to support secure voice, data and video applications;
- Automated link set-up and control to enable unmonitored operation;
- Multiple simultaneous links providing reliable beyond-line-of-sight communications between mobile or fixed platforms within the Arctic region and Southern Canada;
- Secure communication exchange between forward operating locations and DND/CAF, NORAD, and Government of Canada networks in Southern Canada;
- Capable of secure operation at all times of day in the full range of environmental and weather conditions experienced in the high Arctic;
- Resistant to interference and exploitation from hostile forces; and
- Alternate power sources to operate for extended periods in remote locations and in extended darkness.

Part 1, Attachment 2—Solution Readiness Levels for Innovation Progression

The Solution Readiness Levels (SRL) definitions are identified below:

SRL 1: Identification—basic principles and/or properties are observed.

SRL 2: Definition—practical applications and/or concepts are formulated.

SRL 3: Observation and Analysis—analytical and/or laboratory research and/or experiments are undertaken.

SRL 4: Proof of Concept—basic integration of applications and/or concepts to demonstrate viability.

SRL 5: Validation—refined integration of applications and/or concepts to confirm validity.

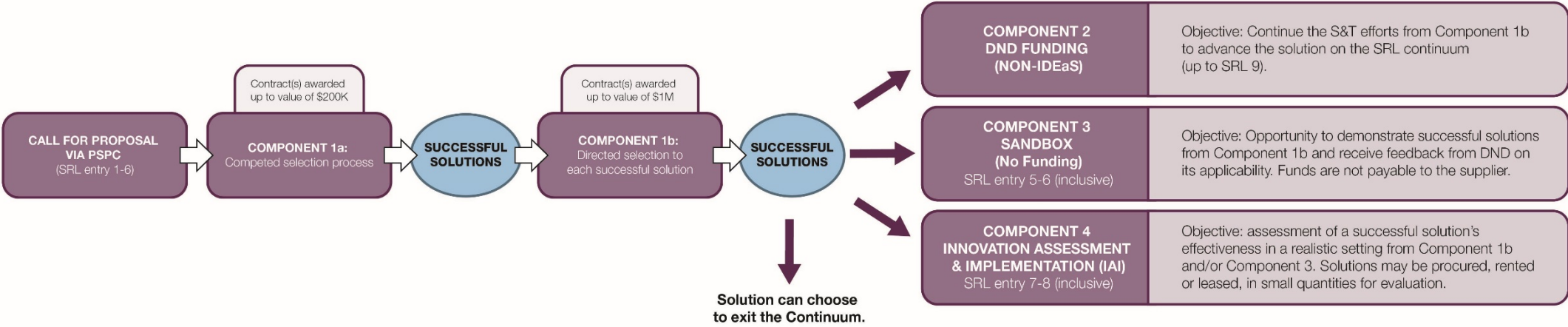
SRL 6: Simulated Demonstration—near-end state solution is demonstrated and tested in a simulated environment.

SRL 7: Real-World Demonstration—near-end state solution is demonstrated and tested in an appropriate real-world environment.

SRL 8: Qualified Solution—end state solution is completed and refined through testing.

SRL 9: Proven Solution—final solution is implemented and proven successful.

Part 1, Attachment 3— Component 1-4 Flow Chart



Part 4, Attachment 1—Evaluation Criteria

Table 1: Mandatory Criteria (MC)

Proposals must meet all mandatory criteria identified. Proposals that fail to meet the mandatory criteria will be declared non-responsive.

Mandatory Criteria (Bidder’s proposal must address)		
MC-1: One S&T Challenge of Annex B	Supporting Information	Evaluation Schema (Pass/Fail)
The proposal must identify one S&T Challenge identified in Part 1, Attachment 1.	The Bidder must identify the S&T Challenge in section 1.A of Annex A (SOW) and in the online tool, via the drop-down menu.	PASS: Proposal identifies one S&T Challenge that is listed in Part 1, Attachment 1.
MC-2: Alignment with S&T Challenge	Supporting Information	Evaluation Schema (Pass/Fail)
The objective of the proposed solution must address and align with the identified S&T Challenge.	In a maximum of 300 words, the Bidder must complete section 2.A of Annex A (SOW). The information must articulate how the project’s objective meets the criterion.	PASS: The proposal clearly articulates, within 300 words, that the criterion is met.
MC-3: Solution Readiness Level (SRL) – Project Start	Supporting Information	Evaluation Schema (Pass/Fail)
The SRL* of the proposed solution, before work is undertaken to advance the solution, is no greater than 6. *As defined in Part 4-Attachment 2.	The Bidder must identify the SRL in section 2.B of Annex A (SOW) and in the online tool, via the drop-down menu.	PASS: Proposal identifies SRL that is no greater than 6
MC-4 - Budget	Supporting Information	Evaluation Schema (Pass/Fail)
- The Cost Proposal does not exceed the individual contract maximum listed in	Bidder must provide the information required at Part 4-Attachment 3 (Cost Proposal Breakdown)	PASS: The proposal meets the criterion and contains the information required in Part 4-Attachment 1.

<p>Part 1, section 1.2 for Component 1a of this CFP; and</p> <ul style="list-style-type: none">- The Cost Proposal for Milestone 1 is no greater than 70% of the total Cost Proposal for Milestones 1 and 2, combined.		
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Table 2: Point-Rated Criteria (PRC) – 70 Points

Canada requests that the Bidder complete Annex A (SOW). The Bidder’s information added to Annex A (SOW) will be used to assess the proposal against each point-rated criterion. A total of 70 points are available, and a minimum score of 40 is required to be considered responsive.

Point-Rated Evaluation Criteria (Bidder’s proposal to address)		
PRC-1: Scientific and/or Technical Merit	Supporting Information	Evaluation Schema
<ol style="list-style-type: none"> 1. The proposed solution is supported by sound and logical scientific evidence and/or technical evidence. 2. The scientific concepts and/or technical concepts are based on state-of-the art thinking and practice in the relevant methodological area. 	<p>The Bidder should complete Section 2.C of Annex A (SOW) with a degree of information sufficient to enable Canada’s assessment of the proposal against the criteria and the Evaluation Schema.</p>	<ol style="list-style-type: none"> i. Insufficient and/or no information to permit analysis of any of the two sub-criteria. <i>0 points</i> ii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets one of the two sub-criteria. <i>5 points</i> iii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets both sub-criteria. <i>10 points</i>

PRC-2: Novel and Innovative	Supporting Information	Evaluation Schema
<p>The proposed project solution is novel** and innovative*** over existing solutions (for example, how is this project a game changer?).</p> <ol style="list-style-type: none"> 1. There will be new knowledge, science and/or technology improvements integrated into the work. These include novel concepts, approaches or methodologies, tools, or technologies. 2. There will be enhanced capabilities and/or improved efficiencies created over the current state-of-the-art and existing solutions. 3. The proposed work has projected potential to lead in creating new knowledge and/or technology enhancement over existing solutions. 	<p>The Bidder should complete Section 2.C of Annex A (SOW) with a degree of information sufficient to enable Canada’s assessment of the proposal against the criteria and the Evaluation Schema.</p>	<ol style="list-style-type: none"> i. Insufficient and/or no information to permit analysis of any of the three sub-criteria. <i>0 points</i> ii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets one of the three sub-criteria. <i>5 points</i> iii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets two of the three sub-criteria. <i>10 points</i> iv. Sufficient and clear information is provided and permits concrete analysis that the proposal meets all three sub-criteria. <i>15 points</i>
<p>** Novel: An original idea.</p> <p>*** Innovative: at least one of the following:</p> <ul style="list-style-type: none"> • A new technology or new process that is not currently available in the marketplace; • New knowledge advancing knowledge in social science; • Significant modifications to the application of existing technologies/process that are applied in a setting or condition for which current applications are not possible or feasible; • An improvement to an existing technology/process that represents a significant improvement in functionality, cost or performance of goods and services that are considered state-of-the-art or the current industry best practice. 		

PRC-3: Impact	Supporting Information	Evaluation Schema
<p>The proposed project solution should impact the field of the identified S&T Challenge.</p> <ol style="list-style-type: none"> 1. The proposed solution addresses a gap or critical barrier in the S&T Challenge. 2. The proposed solution improves scientific knowledge and/or technical capability. 3. The proposed solution describes a positive change to the concepts, methods or technologies that drive the field of the S&T Challenge. 	<p>The Bidder should complete Section 2.C of Annex A (SOW) with a degree of information sufficient to enable Canada’s assessment of the proposal against the criteria and the Evaluation Schema.</p>	<ol style="list-style-type: none"> i. Insufficient and/or no information to permit analysis of any of the three sub-criteria. <i>0 points</i> ii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets one of the three sub-criteria. <i>5 points</i> iii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets two of the three sub-criteria. <i>10 points</i> iv. Sufficient and clear information is provided and permits concrete analysis that the proposal meets all three sub-criteria. <i>15 points</i>
PRC-4: Feasibility and Approach	Supporting Information	Evaluation Schema
<p>The approach and feasibility of the project to address the identified S&T Challenge.</p> <ol style="list-style-type: none"> 1. The proposed solution is feasible, defined as being applicable and could be accomplished in practice in Canada. This determination is at the sole discretion of the evaluation team. 2. The approach is adequately developed, well-reasoned and appropriate. 3. Proposed deliverables clearly define a solution. 	<p>The Bidder should complete section 2.C of Annex A (SOW) with a degree of information sufficient to enable Canada’s assessment of the proposal against the criteria and the Evaluation Schema.</p>	<ol style="list-style-type: none"> i. Insufficient and/or no information to permit analysis of any of the three sub-criteria. <i>0 points</i> ii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets one of the three sub-criteria. <i>5 points</i> iii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets two of the three sub-criteria. <i>10 points</i> iv. Sufficient and clear information is provided and permits concrete analysis that the proposal meets all three sub-criteria. <i>15 points</i>

PRC-5: Gender Based Analysis Plus	Supporting Information	Evaluation Schema
<p>The proposal addresses one of the two following scenarios:</p> <p>1. (GBA+)* considerations have been identified</p> <p><u>Integration of GBA+:</u> The proposal clearly and fully demonstrates how Gender-Based Analysis Plus (GBA+) consideration is embedded in the overall analysis. And when pertinent, its findings are mentioned throughout the document.</p> <p><u>Intersectionality and impact:</u> Multiple relevant intersectional factors and their compounding importance have been clearly considered in assessing the potential impact of this initiative (the proposal) on diverse groups of Canadians.</p> <p><u>Data:</u> The data presented are thorough and clearly support the conclusion.</p> <p><u>Response:</u> The proposed response clearly addresses all the issues emerging from the GBA+.</p> <p><u>Monitoring:</u> Indicators clearly stem from integration of GBA+ to overall analysis and propose intersectional targets where relevant. Collected data supports indicators.</p> <p>2. No GBA+ considerations have been identified</p> <ul style="list-style-type: none"> - There is insufficient data or information available to rule out the possibility of GBA+ considerations. In this regard, the proposal has set out a plan to secure the information or data that would be needed for the GBA+ analysis. - The proposal shows evidence that GBA+ analysis was undertaken and supports the conclusion of no GBA+ 	<p>The Bidder should complete section 2.C of Annex A (SOW) with a degree of information sufficient to enable Canada’s assessment of the proposal against the criteria and the Evaluation Schema.</p>	<ul style="list-style-type: none"> i. Insufficient and/or no information to permit analysis against either of the two scenarios. <i>0 points</i> ii. Sufficient and clear information is provided and permits concrete analysis that the proposal addresses one of the two scenarios. <i>5 points</i>

<p>considerations being relevant (conclusion is supported by sufficient data and information).</p>		
<p>*https://www.swc-cfc.gc.ca/gba-acsc/course-cours-2017/eng/mod03/mod03_03_02.html</p>		
<p>PRC-6: Cost Proposal</p>	<p>Supporting Information</p>	<p>Evaluation Schema</p>
<p>The cost estimate is commensurate with the solution work, and specifically:</p> <ol style="list-style-type: none"> 1. Is realistic for the technical approach offered. 2. Aligns with, and is reasonably relative to: <ul style="list-style-type: none"> • each labour category proposed per milestone; • the number of labour hours proposed per milestone; • the types and kinds of materials, equipment, costs and other associated items. • each task for which travel and living is proposed, the travel and living costs are explained and reasonable. 	<p>The Bidder should complete Part 4- Attachment 1 (Cost Proposal Breakdown) with a degree of information sufficient to enable Canada’s assessment of the proposal against the criteria and the Evaluation Schema.</p>	<ol style="list-style-type: none"> i. Insufficient and/or no information to permit analysis of any of the two sub-criteria. <i>0 points</i> ii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets one of the two sub-criteria. <i>5 points</i> iii. Sufficient and clear information is provided and permits concrete analysis that the proposal meets both of the sub-criteria. <i>10 points</i>

Table 3: Strategic Considerations Criteria (SCC) – 16 Points

Canada requests that the Bidder complete Annex A (SOW)- Section 2.C - Investment Viability, Operational Requirement and Operational Capacity. Proposals that obtain 40 points or more based on the point-rated evaluation criteria within Table 2 above will be further assessed against each strategic consideration criterion. A total of 16 additional points are available, and these points will be added to the score from Table 2, to a maximum score of 86 points. The degree the proposal achieves the Evaluation Schema is at the sole discretion of the evaluation team.

Strategic Considerations Criteria (Bidder's proposal to address)		
SCC-1: Investment Viability	Supporting Information	Evaluation Schema
<p>The proposed solution represents a worthwhile investment by DND including:</p> <ul style="list-style-type: none"> - Aligning with current and emerging departmental and/or Government of Canada priorities; and/or - Aligning with emerging operational and policy issues but not duplicating previous/existing and/or other planned work (classified or unclassified) of Canada and its Allies (known at the time of evaluation); and/or - the distinction of the proposed solution offers greater potential in advancing defence and security capability from available/existing solution(s) (known at the time of evaluation). 	<p>The Bidder should complete Section 2.C of Annex A (SOW) with a degree of information sufficient to enable Canada's assessment of the proposal against the criterion and the Evaluation Schema.</p>	<ul style="list-style-type: none"> I. Insufficient and/or no information to permit analysis OR none of the sub-criteria are met. <i>0 points</i> II. The proposal clearly articulates that a minimum of one sub-criterion is met. <i>2 points</i> III. The proposal clearly articulates that a minimum of two sub-criteria are met. <i>4 points</i> IV. The proposal clearly articulates that all sub-criteria are met. <i>6 points</i>

SCC-2: Operational Requirement	Supporting Information	Evaluation Schema
<p>The proposed solution meets current and emerging operational requirements of the Canadian Armed Forces including but not limited to being aligned with military systems, doctrine, and standard operational practice.</p>	<p>The Bidder should complete Section 2.C of Annex A (SOW) with a degree of information sufficient to enable Canada's assessment of the proposal against the criterion and the Evaluation Schema.</p>	<ul style="list-style-type: none"> <li data-bbox="1741 310 2494 375"><i>I.</i> Insufficient and/or no information to permit analysis OR the criterion is not met. <i>0 points</i> <li data-bbox="1741 415 2494 553"><i>II.</i> The proposal partially meets current and emerging operational requirements of the Canadian Armed Forces as limited information was provided to permit analysis. <i>2 points</i> <li data-bbox="1741 594 2494 691"><i>III.</i> The proposal fully meets current and emerging operational requirements of the Canadian Armed Forces. <i>5 points</i>
SCC-3: Operational Capacity*	Supporting Information	Evaluation Schema
<p>The DND/CAF operational capacity investment for the advancement of the proposed solution is reasonable.</p> <p>*Operational capacity is defined as the resource requirement investment by DND/CAF.</p>	<p>The Bidder should complete Section 2.C of Annex A (SOW) with a degree of information sufficient to enable Canada's assessment of the proposal against the criterion and the Evaluation Schema.</p>	<ul style="list-style-type: none"> <li data-bbox="1741 802 2494 899"><i>I.</i> The operational capacity investment for the advancement of the proposed solution is unreasonable. <i>0 points</i> <li data-bbox="1741 940 2494 1005"><i>II.</i> The operational capacity investment for the advancement of the proposed solution is reasonable. <i>5 points</i>

Annex A - Statement of Work (SOW) & Cost

This Statement of Work describes a project aimed at establishing the knowledge and technological advantage needed to address Canada’s defence and security interests for the S&T Challenge listed below.

1. S&T Challenge

A.	S&T Challenge being addressed by this project:	
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2. Project Description

A.	Project Objective: <i>(In maximum of 300 words, the Bidder must address the criteria and supporting information for MC-2 of Part 4, Attachment 1.)</i>
B.	Solution Readiness Level (SRL) of the solution before starting the project (under the Contract):
C.	Project Overview: Synopsis of Project’s S&T Merit, Novelty & Innovation, Impact, Feasibility and Approach, Gender Based Analysis Plus. <i>(In a maximum of 1,500 words, the Bidder should address the criteria and supporting information PRC-1 to PRC-5 of Part 4, Attachment 1.)</i>
	S&T Merit <i>(In a maximum of 200 words):</i>

Novel & Innovation <i>(In a maximum of 200 words):</i>	
Impact <i>(In a maximum of 200 words):</i>	
Feasibility and Approach <i>(In a maximum of 200 words):</i>	
Gender Based Analysis Plus <i>(In a maximum of 200 words):</i>	
D.	Solution Progression to Component 1b: <i>(In a maximum of 200 words, the Bidder is requested to briefly describe the S&T work to be performed under Component 1b, and, what the solution/idea may be at the end of Component 1b, including the end-state SRL and its capabilities and benefits for Canada. If the Bidder is not proposing to progress to Component 1b, insert "N/A.")</i>

3. Work Plan and Deliverables

This section will be used to assess the criteria and supporting information of PRC-4 of Part 4, Attachment 1.

Each column of Table 1 below contains specific tasks and deliverables (Work). Work must be distributed into two Milestones. Work for Milestone 1 must render the project to a point of progress sufficient to enable the Technical Authority to assess the potential of the Project Description through completion of Milestone 2. The Interim Progress Report must provide the information listed in Annex B- Milestone 1 and Milestone 2 Report Template(s).

Bidders should specify in Table 1 below, or in a similar format, the work activities to be performed being sure to decompose the work activities to a level that exposes all risk factors, and that allows accurate estimation of the requirements and the schedule duration for each task activity (maximum 100 words per table entry).

Table 1—Work Plan & Deliverables

Milestone 1						
Work Activities				Risks and Mitigation		
Tasks	Description of Deliverable (Articulation of the deliverable or product to be provided to the Technical Authority)		Estimated Level of Effort (Days or Weeks)	Deliverable Due Date	Risk(s) (Description, probability and impact [both based on a High/Medium/Low assessment])	Risk Mitigation Strategy (ies)
<i>Task 1 Description Here</i>	<i>Input</i>		<i>Input</i>	<i>Within 13 weeks of contract start date</i>	<i>Input</i>	<i>Input</i>
<i>Task 2 Description Here</i>	<i>Input</i>		<i>Input</i>	<i>Within 13 weeks of contract start date</i>	<i>Input</i>	<i>Input</i>
<i>Task 3 Description Here</i>	<i>Input</i>		<i>Input</i>	<i>Within 13 weeks of contract start date</i>	<i>Input</i>	<i>Input</i>
<i>Bidder to add/delete rows as required</i>						
Interim Progress Report to be completed and delivered in accordance with the SOW. <i>(Bidder not to modify content of this task and deliverable, due date, and other information for this Report.)</i>	<i>Input not required</i>	<i>Input not required</i>	<i>Interim Progress Report</i>	<i>No later than 2 business days after completion of the Work Activities of this Milestone 1.</i>	<i>Input not required</i>	<i>Input not required</i>
<i>Firm Milestone Price: \$</i>						

Table 1—Work Plan & Deliverables (continued)

Milestone 2						
Work Activities				Risks and Mitigation		
Tasks	Description of Deliverable (Articulation of the deliverable or product to be provided to the Technical Authority)		Estimated Level of Effort (Days or Weeks)	Deliverable Due Date	Risk(s) (Description, probability and impact [both based on a High/Medium/Low assessment])	Risk Mitigation Strategy (ies)
<i>Task 1 Description Here</i>	<i>Input</i>		<i>Input</i>	<i>Within 26 weeks of contract start date</i>	<i>Input</i>	<i>Input</i>
<i>Task 2 Description Here</i>	<i>Input</i>		<i>Input</i>	<i>Within 26 weeks of contract start date</i>	<i>Input</i>	<i>Input</i>
<i>Task 3 Description Here</i>	<i>Input</i>		<i>Input</i>	<i>Within 26 weeks of contract start date</i>	<i>Input</i>	<i>Input</i>
<i>Bidder to add/delete rows as required</i>						
Component 1a Final Report to be completed and delivered in accordance with the SOW. <i>(Bidder not to modify content of this task and deliverable, due date and other information.)</i>	<i>Input not required</i>	<i>Input not required</i>	<i>Final Report</i>	<i>No later than 2 business days after completion of the Work Activities of this Milestone 2.</i>	<i>Input not required</i>	<i>Input not required</i>
<i>Firm Milestone Price: \$</i>						

3.1 Post-Contract Award Engagement

Once a contract has been awarded, the Bidder will receive an engagement email to establish communication with key contacts and information.

3.2 Location of Work

Bidder is to add applicable location(s), where instructed, and not to change text.

The Contractor will perform the work, including Travel and Living, in the following location(s):

Input here.

3.3 Language of Work

Bidder to input where instructed at "Input," and, not to change text.

The Contract will require work to be performed in either or both of the Official Languages of Canada. The language will be established following the decision to fund a proposal.

The Bidder is to indicate its capability for either or both Official Languages. Inputs: English, French, or English and French.

3.4 Reporting

The Contractor is to complete and deliver the documents below by the date listed in Table 1. The information to be provided for each report is listed below. One copy is to be delivered to the Technical Authority (TA). The TA will review the report and assess the progress for the purposes of the Go/No Go Decision set out in article 7.16 of the Contract.

- A. Interim Progress Report – mandatory to provide. Provide the information requested in Annex B.
- B. Final Report – mandatory to provide. Provide the information requested in Annex B.

3.5 Government Furnished Property (Materiel or Equipment or Information)

Canada will not provide government furnished property, including but not limited to access, information, and personnel to enable the Contractor to conduct the Work.

4. Special Considerations-Communication notification

The Government of Canada retains the right to make primary contract announcements. Canada and the Contractor shall consult with each other, after contract award, about all proposed new releases or public announcements relating to the Contract. This is to provide all parties sufficient notice of key project communications, and, where appropriate, the time to determine a course of action (including a mutually agreed date and location), line up representatives and prepare joint material. Notwithstanding the advance notice requirement, consent shall not be

unreasonably withheld by either Party if a news release or public announcement must be issued in less than 15 working days as the result of unforeseeable circumstances, including matters of public safety or where an emergency response is required.

5. Program Surveys

As a condition of the program, the Contractor is required to respond to short surveys from the IDEaS Secretariat for up to two years following project completion. The results of the surveys will feed into the measurement of performance indicators through the reporting requirements of the IDEaS program.

This obligation survives the expiry of the Contract until completed or the Contractor ceases to exist.

6. Glossary

Bidder to add at "input here" and is not to change text.

If acronyms and/or uncommon terms are utilized, Bidder is to add and define here. Note: If none, Canada will leave this article blank or delete it.

The following terms are used in this SOW and have the definitions assigned to them below:

Input here.

7. Reference Documents

Bidder to add at "input here" as applicable, and is not to change text.

If the Work details include references to documents critical for understanding the basis of the Work, the Bidder is to fully describe these documents here. The minimal information required is a name/title of the document, authorizing person/organization, its relevance to the work, its date. Note: if none, Canada will leave this article blank or delete it.

The following documents form part of the Contract:

Input here.

Part 4 - Attachment 3 - Cost Proposal Breakdown

In the tables below, specify the various costs proposed for Milestones 1 and 2 (excluding applicable taxes). This section will be used to assess the criteria and supporting information for MC-4 and PRC-6 of Part 4, Attachment 1. Bidder to add information to complete the tables, as applicable.

Milestone 1			
Milestone 1 Labour			
Category (Example: software developer)	Labour (h) (number of hours)	Rate (\$/h)	Total (\$)
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
Total Labour Cost			\$ —

Other Costs	Description	Cost
Other Direct Cost		\$ —
Subcontractor		\$ —
		\$ —
Other Total Costs		\$ —

Milestone 1 Materials	Qty	Unit Cost	Total
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
Total Material Cost			\$ —

Milestone 1 Travel & Living

Trip #	Purpose	Destination	# Travellers	# Days	Total
1					\$ —
2					\$ —
3					\$ —
4					\$ —
Total Travel & Living					\$ —

TOTAL FIRM MILESTONE 1 PRICE (including labour, other costs, materials, travel & living) (excluding applicable taxes)		\$ —
--	--	-------------

Milestone 2			
Milestone 2 Labour			
Category (Example: software developer)	Labour (h) (number of hours)	Rate (\$/h)	Total (\$)
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
Total Labour Cost			\$ —

Other Costs	Description	Cost
Other Direct Cost		\$ —
Subcontractor		\$ —
		\$ —
Other Total Costs		\$ —

Milestone 2 Materials	Qty	Unit Cost	Total
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
			\$ —
Total Material Cost			\$ —

Milestone 2 Travel & Living

Trip #	Purpose	Destination	# Travellers	# Days	Total
1					\$ —
2					\$ —
3					\$ —
4					\$ —
Total Travel & Living					\$ —

TOTAL FIRM MILESTONE 2 PRICE (including labour, other costs, materials, travel & living) (excluding applicable taxes)	\$ —
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PROVINCE OF WORK	
APPLICABLE TAX RATE (%)	

Annex B— Milestone 1 and Milestone 2 Report Template

Project Number:	<i>To be provided by the IDEaS Program Office</i>	Project Title:	<i>From SOW</i>
PSPC Contract Number:	<i>To be added by PWGSC.</i>	Report Date:	<i>Input</i>

Work Plan & Deliverable Performance								
Proposed Work Activities (based on SOW)					*Actual Work Activities			Progress Comments
Tasks	Description of Deliverable		Estimated Level of Effort (Days or Weeks)	Deliverable Due Date	Start Date (dd mm yyyy)	End Date (dd mm yyyy)	Deliverable Due Date (dd mm yyyy)	
<i>Task 1 Description from SOW</i>	<i>From SOW</i>	<i>From SOW</i>	<i>From SOW</i>	<i>From SOW</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
<i>Task 2 Description from SOW</i>	<i>From SOW</i>	<i>From SOW</i>	<i>From SOW</i>	<i>From SOW</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
<i>Task 3 Description from SOW</i>	<i>From SOW</i>	<i>From SOW</i>	<i>From SOW</i>	<i>From SOW</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
<i>New/Additional Task Description (if applicable).</i>					<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
<i>Contractor to add/delete rows as required.</i>								
<i>Progress/Final Report completed and delivered</i>	<i>Input not required</i>	<i>Input not required</i>	<i>Progress Report</i>	<i>As per SOW*</i>	<i>Input not required</i>	<i>Input not required</i>	<i>Input</i>	<i>Input reason if date is different from that specified in the SOW*.</i>

***Actual Work Activities-Instruction:** The Contractor cannot change the fixed work and due dates without the prior written approval of the Contracting Authority evidenced through a Contract amendment. Firm-priced milestone contracts do not pay variances in actual costs, only the firm price is payable by Canada.

Considering the information provided in the “Work Plan & Deliverable Performance” Table above, is the project on track, on schedule and within scope? If no, why not and what is/are the solution(s) and when is/are the solution(s) to be implemented?

Input your answer here.

Cost Performance* (*Instruction above regarding variances also applies hereunder)

Cost Proposal Breakdown (based on SOW)		Actual Cost Breakdown	Progress Comments
Labour			
Category	Total \$	Total \$	Progress Comments
<i>Category Description from SOW</i>	<i>From SOW</i>	<i>Input</i>	<i>Input</i>
	<i>From SOW</i>	<i>Input</i>	<i>Input</i>
	<i>From SOW</i>	<i>Input</i>	<i>Input</i>
<i>New/Additional Category Description (if applicable).</i>		<i>Input</i>	<i>Input</i>
<i>Contractor to add/delete rows as required.</i>			
Materials			
Description	Total \$	Total \$	Progress Comments
<i>Description from SOW</i>	<i>From SOW</i>	<i>Input</i>	<i>Input</i>
<i>New/Additional Description (if applicable).</i>		<i>Input</i>	<i>Input</i>
<i>Contractor to add/delete rows as required.</i>			
Travel and Living			
Description	Total \$	Total \$	Progress Comments
<i>Trip Destination from SOW</i>	<i>From SOW</i>	<i>Input</i>	<i>Input</i>
<i>New/Additional Trip (if applicable).</i>		<i>Input</i>	<i>Input</i>
<i>Contractor to add/delete rows as required.</i>			

Other Costs			
Description	Total \$	Total \$	Progress Comments
<i>Description from SOW</i>	<i>From SOW</i>	<i>Input</i>	<i>Input</i>
<i>New/Additional Description (if applicable).</i>		<i>Input</i>	<i>Input</i>
<i>Contractor to add/delete rows as required.</i>			
<i>Firm Milestone Price:</i>	<i>From SOW</i>	<i>Input*(Does not change amount payable by Canada)</i>	<i>Input</i>

Considering the information provided in the “Cost Performance” Table above, is the project within scope and within the Firm Price budget? If yes, what (if any) budget re-allocations were made? If no, why not and what is/are the scope change(s)?

Input your answer here.

Explain whether the progression of this project to a higher SRL is, or is not, of interest and/or benefit to Canada.*

Input your answer here.

What were the main findings/conclusions of the work undertaken? (Summary of S&T results)

Input your answer here.

Answering this question is optional in the Interim Progress Report (Milestone 1), but mandatory in the Final Report (Milestone 2).

Please provide references to S&T publications, reports, technical memoranda, journal papers, conference proceedings, scientific letters, or other media where full details of S&T results can be found.

Provide a transition overview explaining how the Contractor would progress the project to a higher Solution Readiness Level during Component 1b contract.*

Input your answer here.

Answering this question is optional in the Interim Progress Report (Milestone 1), but Mandatory in the Component 1 A Final Report (Milestone 2).

