ARTIFICIAL INTELLIGENCE SOURCE LIST

Presented by: Levent Ozmutlu, Syed Hasan and Jonathan Vinet
Presented to: CIPMM National Workshop
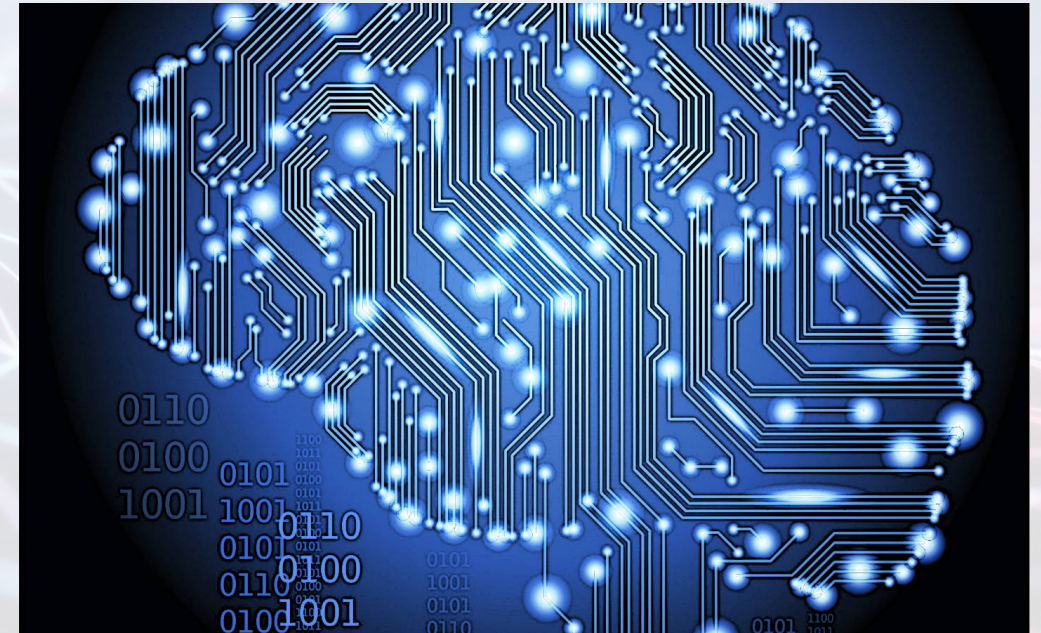Date: June 6, 2019

Public Services and Procurement Canada   Services publics et Approvisionnement Canada

INTRODUCTION

With the exponential advancement of Artificial Intelligence (AI) technology, the Government of Canada recognized both the need and the opportunity to create an innovative method of procurement for these technologies for the benefit of Canadians.

http://www.techminded.co/wp-content/uploads/2014/02/artificial-intelligence.jpg

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

WHAT IS AI?

Canada identified three broad AI categories:

1. Insights and Predictive Modelling
2. Machine Interactions
3. Cognitive Automation

https://4.bp.blogspot.com/-aNMRBv9BI3k/WQloBSe5osI/AAAAAAAAK8s/VaV6CsWUIFk6RmnqGgK_tvBJJkyUjeKXACLcB/s1600/jockeysuit_zpsda572b2b.png

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

ARTIFICIAL INTELLIGENCE (AI) SOURCE LIST
PROCUREMENT MODERNIZATION

Support Advancement of Procurement Modernization while meeting client objectives:

- ✓ Contract Simplification Initiative
- ✓ Promote Innovation
- ✓ Agile Procurement
- ✓ Accelerate, Simplify and Streamline Processes

https://www.movimento5stelle.it/parlamento/affaricostituzionali/Intelligenza-Artificiale-e-PA-678x381.jpg

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

CONTRACT SIMPLIFICATION INITIATIVE

The Contract Simplification Initiative (CSI) was created to respond to supplier concerns that:

➢ The contracting process is overly complex; and
➢ Our contract terms and conditions are not in line with industry practices.

The AI Method of Supply pilots CSI by:

➢ Using updated, modernized, and simplified solicitation and contract documents;
➢ Using plain language; and
➢ Reflecting modern practices

Public Services and Procurement Canada   Services publics et Approvisionnement Canada

ARTIFICIAL INTELLIGENCE (AI) SOURCE LIST
AGILE PROCUREMENT AND INNOVATION

https://thefuturesagency.com/wp-content/uploads/2016/12/Fotolia_human-machine-wheels-in-head-flipped.jpeg

- ✓ Early client and supplier engagement integrated into the procurement process
- ✓ Shortlist of eligible bidders established for each requirement
- ✓ Instead of prescriptive specifications, requirements will focus on suppliers seeking solutions, promoting innovation.
- ✓ Delivery of solutions in an iterative manner

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

Three key criteria were used:

1. **AI Ethics:** how suppliers address ethical considerations when delivering AI

2. **AI Implementation:** successful delivery of AI services, solutions, and products

3. **AI Talent:** qualified to deliver AI – expertise, experience, other skill sets

➢ 74 suppliers prequalified.

http://www.stevenaashishjacob.com/wp-content/uploads/2016/01/Brain-Neural-Network.png

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

ARTIFICIAL INTELLIGENCE (AI) SOURCE LIST
IS AI SOURCE LIST THE RIGHT TOOL FOR YOU?

The AI Source List is right for you if:

- ✓ The requirement includes an element of AI
- ✓ Has a total value of $9M or less
- ✓ Required AI technologies are commercially available

http://www.techeconomy.it/wp-content/uploads/2014/08/innovazione.jpg

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

ARTIFICIAL INTELLIGENCE (AI) SOURCE LIST
OTHER CONSIDERATIONS

➢ Client departments must forward their AI requirements to the PSPC AI procurement group for direction on how to process their requirements.

➢ Adherence to applicable policies (procurement and technical) is required (e.g. Contracting Policy, Management of IT, etc.)

https://geobrava.files.wordpress.com/2018/12/6_key_factors_infrastructure_blog_MTI.jpg?w=479

Public Services and
Procurement Canada

Services publics et
Approvisionnement Canada
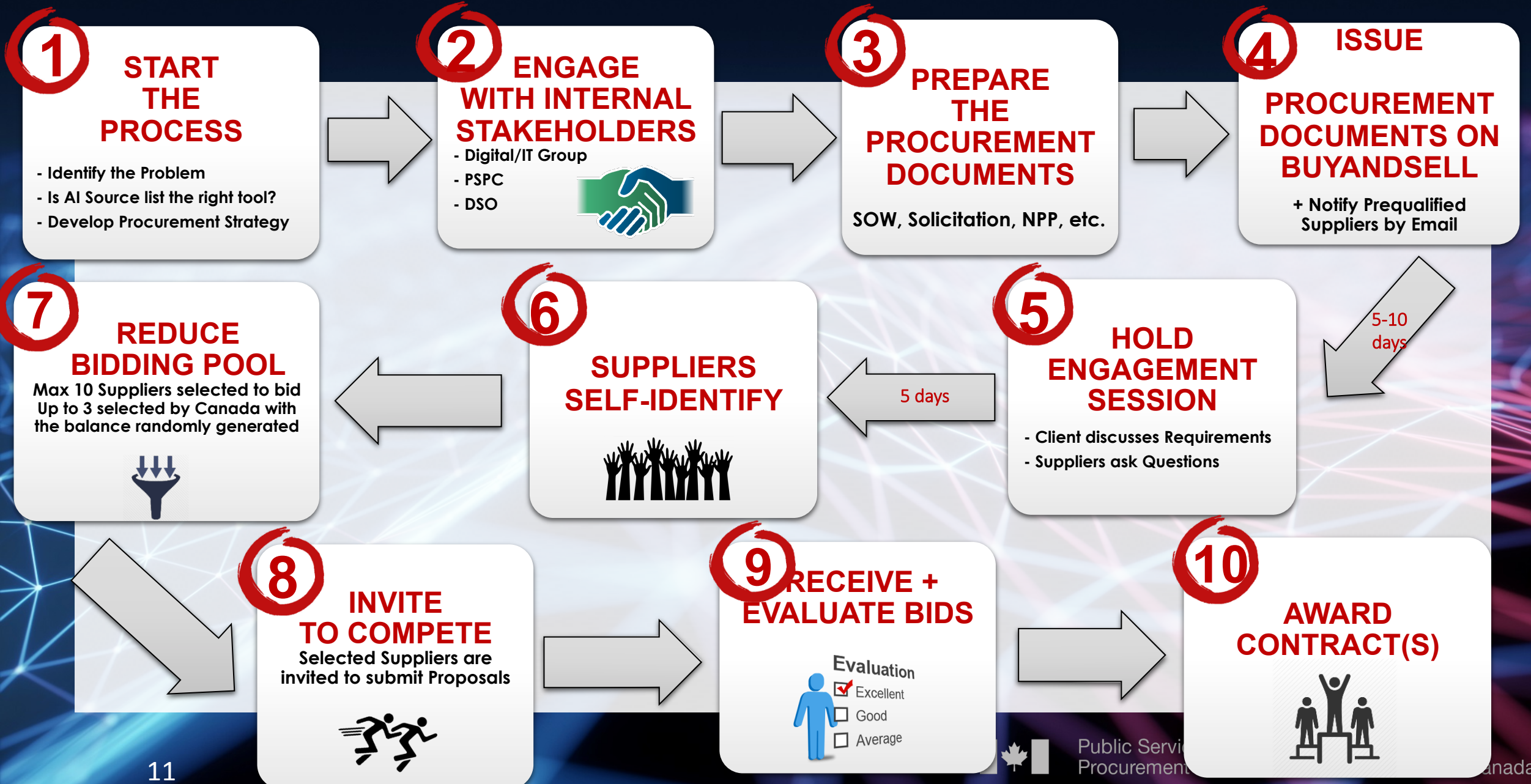
GUIDANCE TOOLS AND TEMPLATES

- ✓ User Guide
- ✓ AI Source List Decision Tree
- ✓ Simplified and standardized solicitation template
- ✓ Guide and template for Statement of Work
- ✓ Template for a Notice of Proposed Procurement
- ✓ Frequently Asked Questions

http://2.bp.blogspot.com/_HxIwUkPhGBU/Tla0w8ZeLBI/AAAAAAAAE40/Xg6q67YPvVk/s400/Nuevas-maneras-de-hacer-cosas-tradicionales.jpg

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

ARTIFICIAL INTELLIGENCE (AI) SOURCE LIST PROCESS MAP

1 **START THE PROCESS**
- Identify the Problem
- Is AI Source list the right tool?
- Develop Procurement Strategy

2 **ENGAGE WITH INTERNAL STAKEHOLDERS**
- Digital/IT Group
- PSPC
- DSO

3 **PREPARE THE PROCUREMENT DOCUMENTS**

SOW, Solicitation, NPP, etc.

4 **ISSUE PROCUREMENT DOCUMENTS ON BUYANDSELL**

+ Notify Prequalified Suppliers by Email

5-10 days

5 **HOLD ENGAGEMENT SESSION**
- Client discusses Requirements
- Suppliers ask Questions

5 days

6 **SUPPLIERS SELF-IDENTIFY**

7 **REDUCE BIDDING POOL**
Max 10 Suppliers selected to bid
Up to 3 selected by Canada with the balance randomly generated

8 **INVITE TO COMPETE**
Selected Suppliers are invited to submit Proposals

9 **RECEIVE + EVALUATE BIDS**

Evaluation
- ☑ Excellent
- ☐ Good
- ☐ Average

10 **AWARD CONTRACT(S)**

11

Public Service
Procurement

Canada

START THE PROCESS

A. Identify the problem you wish AI to solve

B. Determine which band your requirement belongs in:

1. Band 1: Up to $500K before taxes

2. Band 2: Up to $4M before taxes

3. Band 3: Up to $9M before taxes

C. Start developing the procurement strategy

https://1.bp.blogspot.com/_7TuiUzBpuWI/SYvGlTH-JHI/AAAAAAAAF10/SkRgKNtHEZ0/s400/10+(www.cute-pictures.blogspot.com).jpg

Public Services and Procurement Canada

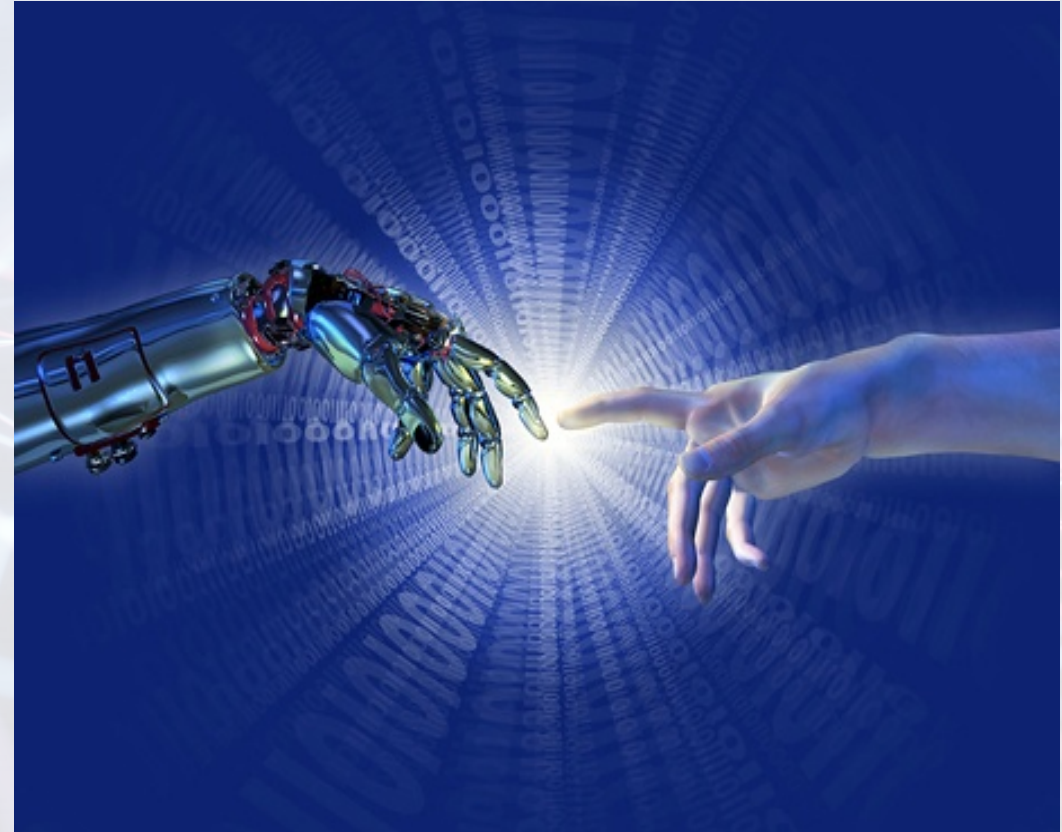Services publics et Approvisionnement Canada

ARTIFICIAL INTELLIGENCE (AI) SOURCE LIST
ENGAGE WITH INTERNAL STAKEHOLDERS

Engage with:
- ✓ Your organization's digital or IT group
- ✓ PSPC AI procurement group
- ✓ Your Departmental Security Officer (DSO), etc.

PSPC can help ensure that you are on the right track and provide guidance.

http://m1.bfm.ru/news/maindocumentphoto/2011/02/17/kiborgi-3.jpg

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

PREPARE THE PROCUREMENT DOCUMENTS

Prepare:

✓ Statement of Work (SOW)

✓ Solicitation and resulting contract clauses

✓ Notice of Proposed Procurement (NPP), etc.

http://action-nogent.fr/wp-content/uploads/2014/04/documents-_image.png

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

ISSUE THE PROCUREMENT DOCUMENTS

- ✓ Post the NPP and solicitation (including SOW, etc.) on BuyandSell.gc.ca.

- ✓ Email all suppliers prequalified for the applicable band for your requirement, to advise them that an AI opportunity has been posted.

http://attorneyitaly.com/wp-content/uploads/Img-for-How-to-Buy-Sell-Transfer-a-Company-in-Italy.jpg

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

HOLD A SUPPLIER ENGAGEMENT SESSION

✓ The purpose of this session is to help prequalified suppliers decide whether they have a solution to meet your needs.

✓ This is the opportunity for:
  ➢ The Client to discuss the requirements
  ➢ Suppliers to ask questions

✓ Aim to host session between **5-10 calendar days** after the solicitation posting date.

https://environz.files.wordpress.com/2011/04/stakeholders1.jpg

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

SUPPLIERS SELF-IDENTIFY

Within five calendar days after the engagement session, suppliers must express their interest in bidding.

Public Services and
Procurement Canada

Services publics et
Approvisionnement Canada

REDUCE BIDDING POOL

➢ A maximum of 10 suppliers can be invited to bid.

➢ You can choose up to three from the list of suppliers who have self-identified.

➢ The remaining self-identified suppliers will be randomly selected by PSPC.

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

INVITE SUPPLIERS TO COMPETE

Invite the selected suppliers to compete:

- Notify selected suppliers by email
- Update NPP on BuyandSell to release the list of suppliers selected to bid.

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

RECEIVE AND EVALUATE BIDS

➢ Proposals will be evaluated by Canada and may include in-person or virtual bidder presentations

➢ Winning bidder(s) will be selected in accordance with solicitation documents

➢ Canada may encourage two or more bidders to work together

Evaluation
☑ Excellent
☐ Good
☐ Average

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

➢ Once the evaluation is completed and necessary contract approvals are obtained, the contract(s) can be awarded.

➢ The contractor(s) can now begin the work!

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

ARTIFICIAL INTELLIGENCE (AI) SOURCE LIST
AI PROCUREMENT PILOT

1. PSPC is working with CSPS on the first procurement to use the AI Source List. The solicitation was issued on BuyandSell on Feb 28, 2019.

2. CSPS, on behalf of various federal regulatory organizations, has a requirement for an interactive hosted cloud-based regulatory evaluation platform.

3. AI Requirement: An interactive user-friendly interface to search, analyze, visualize and generate reports on over 2,600 regulations.

4. Agile Process:
   ➢ Up to 3 contractors to develop prototypes.
   ➢ Then, one contractor selected to deliver a production-ready AI solution.

Public Services and Procurement Canada

Services publics et Approvisionnement Canada

ARTIFICIAL INTELLIGENCE (AI) SOURCE LIST
NEXT STEPS

1. PSPC is finalizing tools/websites to support broader use of the AI source list by clients.

2. The AI Source List will be refreshed regularly to add new suppliers and make improvements.

https://3.bp.blogspot.com/-Za9_EnOP4JM/ThV--MNs9Ql/AAAAAAAAEKU/RDh22LWsAac/s1600/steps1.jpg

Public Services and
Procurement Canada

Services publics et
Approvisionnement Canada

ADDITIONAL RESOURCES

✓ The GCCollab space available to all users, inside and outside Government.
  https://gccollab.ca/groups/profile/1341234/engovernment-of-canada-ai-source-listfr

✓ Please send your questions or feedback to:
  IA-AI@tpsgc-pwgsc.gc.ca

http://dev.noubel.com/wp-content/uploads/question_mark_cloud_293%C3%97220.jpg

Public Services and
Procurement Canada

Services publics et
Approvisionnement Canada