

## AMENDMENT 1

### QUESTIONS AND ANSWERS

**Q1.** The type of system outputs and the computations and data needed to provide them depend largely on the use to which they will be put. Who are the intended system users within the Government of Canada departmental user group; hydrological engineers, infrastructure engineers, climate scientists, general researchers, policy makers, general staff?

**A1.** Public Services and Procurement Canada (PSPC) will be the primary user of the system. The intended system user could be engineers, scientists, researchers, policy makers, general staffs as well as stakeholders outside of the Government of Canada. The type of system outputs, the computational requirements and data needed should be as mentioned in the desired outcomes and considerations section of the challenge notice.

**Q2.** Decision support systems are generally designed to support specific decision processes. What is/are the workflow(s) of the existing manual decision process(s) that this system is required to support?

**A2.** The portal will be used by different user groups (please see the answer to Q1) for their respective decision making rather than any specific decision process to follow.

**Q3.** Is the solution restricted to Government of Canada infrastructure in the existing 1008 locations and 10,000 existing structures or must it assess risk to coastal communities, their infrastructure and the overall effects of climate change driven coastal hazards on their well-being and continued viability?

**A3.** No. The solution is not restricted to Government of Canada infrastructure in the existing 1008 locations and 10,000 existing structures. The challenge shall develop a portal to provide desired outcomes as indicated in the challenge notice. Available information at Government of Canada sites will be updated into the portal and the system should be capable of adding new sites and updating existing sites information as will be available in future.

**Q4.** Will Government of Canada provide all available and relevant Government of Canada data: i.e. plans for each structure, infrastructure dependencies, value, operational profile etc.?

**A4.** All relevant Government of Canada data may not be available. Available information relevant to the system would be provided for testing and uploading to the portal.

**Q5.** Where data is not held as part of the National Spatial Data Infrastructure will Government of Canada request and supply relevant data from provincial/municipal agencies and ports authorities or is that the responsibility of the offeror?

**A5.** The final system will primarily include data owned by the Government of Canada. It is the responsibility of the offeror to ensure that the system is tested and capable of providing the desired outcomes in the challenge notice.

**Q6.** Will Government of Canada commission and supply missing or outdated datasets?

**A6.** The portal will include available data and will be continually updated whenever the updated information is available. Regarding missing data, the proponent shall provide solutions in the system to general missing data, based on available data, as would be required at a site.

**Q7.** Will Government of Canada host the platform(s) (i.e. provide the necessary host server infrastructure) in phases 1 and 2?

**A7.** Government of Canada will not host the platform in Phase 1 and Phase 2. The proponent will develop the platform on other server or cloud that would be accessible via secure login. The necessary info regarding the Government of Canada host server infrastructure would be provided and the platform should be tested to host server compatibility at phase 2.

**Q8.** Will Government of Canada provide the integration development and testing lab environment and software licences (e.g. ESRI and Autodesk etc) for phases 1 and 2?

**A8.** Government of Canada will not provide the integration development and testing lab environment and software licensing. The proponent needs to do the integration development works between any proprietary formats of data and systems it may use or pull information from.

**Q9.** Security considerations must be built into the architecture and not added as an afterthought. When complete this system represents a high value information asset to potential aggressors. What will be the security classification of the system once complete? How does Government of Canada anticipate controlling unauthorized access?

**A9.** Security consideration must be considered while developing the system as the completed systems will include information of various security levels. Security classifications of the information will be varied and some information could be accessible by users outside the Government of Canada through secure log-in system. The offeror will ensure the security considerations of the portal system itself. Government of Canada Will control unauthorized access to the system once the final portal will be hosted on the Government Server.

**Q10.** What would be the minimum browser(s) to be supported for web accessibility?

**A10.** Web accessibility should be supported by commonly used browsers (e.g., Internet explorer, Chrome etc.) in pc and mobile devices.

**Q11.** What is the criteria for probability? Such as period/duration for future outlook etc...? Will there be a process for verification of probability models and/or use of standard scientific approach?

**A11.** The probability of different extreme events should be in terms of return periods as indicated in desired outcome and considerations section of the challenge notice. This is up to the proponent should the proponent use a process of verification of probability models and/or use of standard scientific approach.

**Q12.** May you provide a sample of the data format(s) what will be required to parse and extract the data sets?

**A12.** It is the part of this challenge and the offeror will propose data format(s) what will be required to parse and extract the data sets, which will be evaluated as part of the proposed solution of the challenge.

**Q13.** May you provide a sample of “nearshore coastal parameters” that is of interested for the outcome?

**A13.** Please see the desired outcomes and considerations section of the challenge notice for interested nearshore coastal parameters.

**Q14.** Clarify “include of government infrastructure sites” (position with regards to sea level, geometric models etc..)?

**A14.** “include of government infrastructure sites” means the system should be able to include locations of government infrastructures sites. The proposed system should be able to deal with various geographic datum and projections where this information could vary across data sets.

**Q15.** What is the target CLF platform? (ex. the look and feel of “Canada Lands Survey System”)

**A15.** The offeror will propose the target CLF platform which will be evaluated depending on proposed processes to extract, calculate, interpret and visualize the results and maps.