

## i- CALL FOR TENDERS

**Call for Tenders No.:** 21-220285-A

**Title:** PJ02-W2 14.7 Dynamic Pairwise Wake Separations based on real time wake risk monitoring – Lidar data processing

**General:** EUROCONTROL\* is an intergovernmental organisation with 41 Member and 2 Comprehensive Agreement States. We are committed to building, together with our partners, a Single European Sky that will deliver the air traffic management (ATM) performance required for the twenty-first century and beyond.

**Technical subject matter:** The purpose of the Contract to be let with the successful Tenderer is to:

- Improve the current processing / post-processing of lidar wake data so that it is reliably and efficiently processed continuously and in real time / quasi real time. In addition, improvements to the current wake post-processing software will be required to increase the hit rate of wake measurements as well as the accuracy and reliability of the wake data measurements and filter irregular tracks (e.g. (tracks that are too long tracks, or tracks related to specific wind patterns like wind shears or range ambiguities);
- Synchronise and integrate the lidar wake data collected in real time with aircraft / surveillance and meteorological data obtained from different sources e.g. ADS-B, METAR, so that it can be input into a ML model developed by EUROCONTROL.

**Main selection, assessment and award criteria:**

TECHNICAL CAPACITY CRITERIA
The Tenderer shall be familiar with wake data measurements obtained from a ground based lidar proven by means of involvement of a

\* EUROCONTROL – European Organisation for the Safety of Air Navigation

**SUPPORTING EUROPEAN AVIATION**

**Member States:** Albania, Armenia, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Moldova, Monaco, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom.



previous project in the last 3 years working with lidar wake vortex data from a ground based lidar
The Tenderer shall have experience developing data processing software proven by the development of such data within the last 4 years

<b>TECHNICAL ASSESSMENT CRITERIA</b>
Demonstrable experience in developing software for processing wake vortex lidar data proven by previous activities undertaken developing software for lidar data/measurements
Familiarity with wake behaviour and data and demonstrable experience in the testing and validation of lidar related software and system prototypes proven by previous experience in a project where such testing/ prototype validation has been required
Familiarity with wake vortex related concepts to optimise runway throughput capacity proven through previous experience on wake vortex related projects
Ability to write technical documentation in English

The economically most advantageous offer will be established in accordance with the following:

For the Technical tender, a weighting of 60% is applied, for the Financial tender, a weighting of 40%.

**Tender closing date:** 28-07-2021 at 15:00 CET

**Point of Contact:** If you wish to receive the Call for Tenders please see the “Important Notice” below and if you have any other related questions, please contact:

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**If this Call for Tenders should interest you, please read the important information below:**

### **IMPORTANT NOTICE**

The full i-Call for Tenders documentation is in electronic format (.pdf).

If you wish to obtain the i-Call for Tenders documentation please read and follow carefully the instructions below:

1. If you are already registered in the EUROCONTROL Supplier Portal, please send an e-mail to the Point of Contact mentioned above to get access to the documentation.
2. If you are not yet registered as a EUROCONTROL supplier, please follow the 3-step process described on the following link: <https://www.eurocontrol.int/portal/supplier-portal>
3. EUROCONTROL accepts no responsibility whatsoever for the completeness, accuracy and/or timeliness of the transmission of the electronic documents (nor for the electronic documents themselves).
4. Submission of tenders shall be made electronically and shall be exclusively made in strict accordance with the instructions given in the tendering documentation.
5. You may:
  - a) print out the documents;
  - b) forward the documents further on a strictly need to know basis (always fully acknowledging the source, i.e. EUROCONTROL), and
  - c) use print-outs of the electronic i-Call for Tenders documents for the submission of tenders (especially the Price Offer Form ref: I-TSF-E).
6. You may not:
  - a) modify, edit and/or change the electronic documents other than to submit the required info and to sign/stamp where required;
  - b) transmit such documents to any third person who has no need to know them;
  - c) post such documents on any private or public website;
  - d) alter the originating source (EUROCONTROL) and or copyright signs etc., and
  - e) transmit the documents without indication of the source.

**An environmental notice:**

With a view to reduce the exponential growth of paper consumption, we would invite you only to print out electronic documents received and/or request paper copies of the price enquiry documentation if you are actually considering to submit a tender.