



REQUEST FOR INFORMATION (RFI)

Request for Information for drone-as-a-service in
Stockholm City.





Introduction

The purpose of this Request For Information (RFI) is to solicit information from experienced drone operators for providing a remotely operated drone-in-a-box solution to deliver aerial inspection data for City of Stockholm and thereby also supporting the CITYAM project. The City of Stockholm and Kista Science City intend to conduct a procurement for this purpose, with drones in operation in 2024, pending the current capabilities and results of this RFI. In general, safety and societal acceptance is seen as key enablers and is reflected in this RFI.

Objectives of the City of Stockholm

The City of Stockholm is seeking innovative ways of optimizing and improving the city management, and utilizing contemporaneous aerial imagery has been evaluated as a way to improve;

- Traffic flow management
- Parking optimization
- Environmental zones monitoring
- Waste management and planning of cleaning and snow removal.
- Permit compliance and city planning project documentation.

Furthermore, the introduction of a municipally hosted drone service enables learning and citizen engagement, fostering the uptake of innovative aerial mobility in a responsible manner.

Objectives of CITYAM

CITYAM is an initiative to promote responsible and acceptable increase in urban air mobility (UAM) through transnational cooperation in the Baltic Sea region, aimed at cleaner and more sustainable transportation systems, and to:

- Enhance the knowledge of public officials regarding urban air mobility.
- Provide tools for designing airspace based on existing regulations and future tasks.
- Develop and adapt urban planning methods in relation to landing sites and airspace planning.
- Offer components and tools for a UAM strategy.
- Scale up city-owned drone operations as part of a multimodal transport system.
- Measure citizen acceptance of UAM.





Procedure

The industry participant schedules a presentation date with Kista Science City Point Of Contact (POC) found at the end of this document, in where the answers to this RFI is prepared and presented, and supporting documents with motivations for qualifications are shared. The presentation shall be scheduled and performed before submission deadline below.

Submission deadline: April 4, 2024

Contact details for queries to this RFI can be sent to Kista Science City POC.

Following this RFI, industry parts that have satisfactory requirements fulfilment will be invited to submit a formal quotation for the project execution.

Definitions of wordings in this document;

SHALL, expresses a mandatory requirement and is seen as “Mission essential”.

SHOULD, expresses a recommendation, and is considered as “High priority”.

MAY does not express a requirement, but is seen as added value, and is considered as “Nice to have”.

Scope of Work

The scope of work is to provide, install and operate a drone-in-a-box solution that enables drone-as-a-service for Stockholm City during 1 month in 2024, preferably starting in September.

In average two flights per weekday shall be performed during the projects operational phase.

The solution shall be installed at a city-provided location, where internet connection and power are available.

The installation and flights shall be performed in the ES R113 restriction area in Stockholm City, or a similar size area in the vicinity of Stockholm, pending coordination with authorities.

Coordination activities for the flight permit with regards to regional and national airspace authorities will be supported by the CITYAM project, and coordination activities have already been performed with the relevant Swedish airspace authorities (LFV, Transportstyrelsen, Bromma ATC and Regional Helicopter Airport mangement).

Data management and post-processing of the imagery will be handled by the customer, subject to approval of the authorities (Lantmäteriet, Sjöfartsverket and Länsstyrelsen), and subject to GDPR conformance. The method of delivery of the imagery data will be decided in dialogue with the operator.



Vendor / Service provider Qualifications

The operator SHALL have previous experience with SORA BVLOS operations at SAIL II and existing documentation to support this.

The operator SHALL provide a drone-in-a-box solution in which there is a drone that enables urban drone operation according to the SORA methodology (by using lightweight drone (<249g), include a parachute or other mechanisms to achieve High Robustness in GRC M2).

The operator SHALL have evidence of existing documentation to support experience.
The operator SHOULD have understanding of urban airspace management.
The operator MAY have conducted noise measurement on the drone system.

Information Requested

The following information is requested from the industry part;

1. Description of the proposed drone-in-a-box solution.
2. Technical specifications of the drone.
3. Image data (type and format, resolution and FOV (field of view)).
4. Safety features and compliance with regulatory requirements.
5. Documented experience with urban airspace integration.
6. Schedule and availability for starting city operations.
7. Case studies or references from previous implementations.
8. ROM (Rough Order of Magnitude) Quotation for;
 - a. Initial installation and project execution of the scope of work.
 - b. Continued monthly operational cost during 2025 as an option.

Evaluation Criteria

No evaluation criterion is shared in this RFI. Feedback is provided on a general level, if requested. The information submitted to this RFI shall not be made public other than the name of the company. The participants in this RFI will be invited to the formal RFP that follows.

Contact

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