DESCRIPTION OF PROCUREMENT SUBJECT

DEVELOPMENT OF A METHODOLOGY FOR SCANNING AIRCRAFT INTERIOR PARTS ADAPTED FOR 3D PRINTING USING AI

Identification No.NP/001/09/2025

Riga, 30th September, 2025.

1. **General information about the contractor:**

1.1.	Contractor:	SIA "AM Craft"
1.2.	Tax payer's No.:	LV53603080861
1.3.	Address of contractor:	Braslas iela 22D, Rīga, LV-1035
1.4.	Place of service:	Braslas street 22D, Riga, LV-1035
1.5.	Service provision period:	25.10.2025-31.06.2026

2. **Description of the procurement subjects:**

The procurement subject is the purchase of a research and development service for investigating and developing methods to convert 2D images and drawings into watertight 3D models, within the framework of project No. 5.1.1.2.i.0/2/24/A/CFLA/004 "Validation of new materials for use in aviation and development of new aircraft interior parts and testing their performance in real-world usage scenarios."

The service shall focus on:

- Research of 2D-to-3D conversion capabilities, including definition of image requirements, scanning methodology development, and validation of the process.
- Ensuring that data from testing and requirement analysis is digitally structured, stored, and reusable, providing a foundation for research, certification traceability, and future development activities.

3. **Requirement for the procurement subject:**

No. pc.	Description of the order item	Requirements
1.	**Requirements for activity No. 1. Research of "Drawing to 3D capability"**	
1.1	Investigate and test methods for converting submitted 2D images/scans of parts into watertight, manufacturable 3D models (STL format)	≥300 images tested
1.2	Define the necessary qualifying criteria for 2D inputs (e.g., photo quality, file format, scanning methodology) to ensure successful 3D conversion.	Must be provided
2.	**Requirements for activity No. 2 Scanning Methodology Development**	
2.1	Define the scanning methodology applicable to aircraft interior parts, including process steps and technical approach.	Must be provided

2.2	Identify and document key parameters specific to aircraft interior parts that must be captured and stored.	Must be provided
2.3	Test and evaluate an AI-based analysis tool to assess the 3D printing feasibility of parts based on scanned data and 2D-to-3D conversion results.	Must be provided
3.	**Requirements for activity No. 3 Validation of Methodology**	
3.1	Apply the developed methodology to selected test cases	Must be provided
4.	**Other requirements**	
4.1	Requirements for the applicant	Previous experience working with aviation clients, at least 4 projects within the last 2 years. Relevant experience in development of software tools.
4.2	Price	The offer must include the total price for conducting the research, covering all activities and all costs related to the provision of the service (administration, documentation preparation, etc.).

4. Requirements for preparing the tender offer

4.1. Tender offer is prepared in Latvian or English language,

4.2. Information about the supplier (company details) provided,

4.3. Requirements of the procurement subject must be indicated in accordance with Section 3,

4.4. The offer is valid until 31.06.2026,

4.5. Price of the tender offer in EUR without VAT,

4.6. Date of the tender offer, preparer's name, surname, position, signature provided.

Initial offer must be submitted until 24th of October, 2025 5.00 p.m. electronically by sending it to the email address: elina@am-craft.com.

Member of board
Didzis Dejus