



PRELIMINARY MARKET CONSULTATION CALL ON THE DESIGN, CONSTRUCTION AND INSTALLATION OF A FIRE SIMULATOR IN AIRCRAFT FOR TRAINING FIRE BRIGADES AND EMERGENCY BRIGADES FOR THE JOVELLANOS INTEGRAL MARITIME SECURITY CENTRE OF THE PUBLIC ENTITY "RESCUE AND SECURITY MARITIME SOCIETY"

This consultation is made under Article 115 of Law 9/2017 of November 8th on Public Sector Contracts (LCSP), which transposes into Spanish law the Directives of the European Parliament and of the Council 2014/23/EU and 2014/24/EU of February 26th 2014.

In accordance with this article, contracting authorities may carry out market studies and consult the economic operators active in the market in order to prepare the tendering procedure properly and inform the said economic operators of their plans and of the requirements they will have to meet in order to participate in the procedure.

To this end, contracting authorities may rely on the advice of third parties, which may be independent experts or authorities, professional bodies or, exceptionally, economic operators active on the market.

The advice shall be used for the planning of the tendering procedure and also during the conduct of the tendering procedure, provided that this does not have the effect of distorting competition or violating the principles of non-discrimination and transparency. The consultations carried out may not result in a contractual object that is so specific and delimited that it only corresponds to the technical characteristics of one of the parties consulted.

The result of the studies and consultations must, where appropriate, be specified in the introduction of generic characteristics, general requirements or abstract formulas that ensure better satisfaction of public interests, without, in any case, the consultations carried out being able to entail advantages with regard to the award of the contract for the companies participating in them. Subsequently, the actions carried out shall be recorded in a report. The report shall list the studies carried out and their authors, the entities consulted, the questions put to them and the responses to them.

This report shall state the reasons on which it is based, shall form part of the procurement dossier and shall be subject to the same obligations of publicity as the specifications.

In no case during the consultation process may the solutions proposed by the other participants be disclosed to the participants in the consultation process, and they shall only be known in their entirety by the participant.

As a general rule, the results of the consultations must be considered when drawing up the tender documents; if not, the reasons for not doing so must be stated in the above- mentioned report. Participation in the consultation does not preclude subsequent involvement in the procurement procedure.





In accordance with the above, a preliminary market consultation is hereby launched in order to properly prepare the tender subject of the following consultation:

I. OBJECT

The purpose of this Preliminary Market Consultation (hereinafter, PMC) is to promote the participation of economic operators active in the market in the presentation of proposals that respond to the following challenge to be addressed:

TECHNOLOGICAL CHALLENGE 1:

Design, construction and installation of an aircraft fire simulator for the training of Fire and Emergency Brigade teams.

It is intended that, based on the results of the PMC, The Jovellanos Integral Maritime Security Centre will have sufficient knowledge of the proposals of the economic operators and of the existing solutions on the market that respond to the technological challenge established in terms of technical and functional requirements. This will enable the definition and scope of the project to be put out to tender to be defined.

The scope of the challenge as well as the technical requirements of the training simulator covered by this CPM are set out in **APPENDIX I** to this document.

II. PARTICIPANTS

The call is open and addressed to economic operators individually or in joint venture and whose activity includes the manufacture and/or distribution of aircraft and aircraft fire training simulators.

Only one proposal per company, either individually or jointly with others, will be accepted.

III. PARTICIPATION IN THE PRELIMINARY MARKET CONSULTATION

3.1 PRESENTATION OF THE PROPOSED SOLUTIONS

For the submission of proposals, proposers shall follow the indications below:

- Participants should submit proposals that respond to Technology Challenge 1.
- Operators wishing to participate in the consultation should submit the completed questionnaire included in APPENDIX II of this document by the deadline stipulated in this document.



Centre.



All sections of this form are mandatory. This form can be downloaded from SASEMAR's contracting profile: Public Sector Procurement Platform (contrataciondelestado.es) and from the European Tenders Electronic Daily: https://ted.europa.eu/

- The form may be accompanied by additional documentation as appropriate, where the
 proposal can be developed in more detail, but please refer to the form to facilitate the
 analysis of the proposal.
- Proposals should be sent to the following e-mail address: <u>contratacionjove@centrojovellanos.es.</u>
 This will be the only means of communication with The Jovellanos Integral Maritime Security
- The subject of the mail should be specified as:
 PMC: Design, construction and installation of aircraft training simulator.
- Where a proposal for an innovative solution is submitted jointly by a group of economic operators, a single form must be submitted by a single legal entity representing all the others, indicating all the participating undertakings. A single e-mail address must be used for the purposes of identifying the proposal and liaising with the proposers.
- The Jovellanos Integral Maritime Security Centre will have no obligation to support or accept the proposals submitted. Likewise, the economic costs derived from participation in the call for proposals and the preparation of the proposal will be borne by the interested parties.

3.2 DEADLINE FOR THE PRELIMINARY MARKET CONSULTATION

The deadline for the submission of proposals shall begin on the day following the publication of this Resolution in the contracting party profile of the State Contracting Platform and in the European Tenders Electronic Daily (TED). The PMC deadlines are indicated below:

- Publication of the PCM: April 17th, 2023
- Online briefing in English: April 24th, 2023 at 10:00 a.m.
 <a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_YWE0ZWQ2MDUtNDM4Mi00NjEyLWI1Y2MtYjdiN2RIZWU5ZDUz%40thread.v2/0?context=%7b%22Tid%22%3a%2268ee54f7-912b-4908-af12-62ac62417fd0%22%2c%22Oid%22%3a%22b19c8b02-50cf-4d66-ba48-41562943eb0c%22%7d





- o Individuals/entities interested in participating in this online information session must register via the following email contratacionjove@centrojovellanos.es, indicating: full name of the entity, participant, telephone number and contact email address. Once the application has been received, a link to the online session will be sent.
- Visit to The Jovellanos Integral Maritime Security Centre facilities located in Gijón (Asturias-Spain) and the area set up for the simulator: May 16th 2023, at 11:30 am.
 - Persons/entities interested in visiting the facilities on that day should request their participation by sending an e-mail to <u>contratacionjove@centrojovellanos.es</u>, indicating: full name of the entity, corporate purpose, person participating in the visit, telephone number and contact e-mail address.
 - The location of the Jovellanos Integral Maritime Security Centre is as follows: https://goo.gl/maps/jF29mE4RA5Py9xkr8
- Deadline for submission and closure of the PMC: May 22th 2023 at 23:59 a.m

3.3 BUDGET

Estimated budget for the design, construction and installation of an aircraft fire simulator in the facilities of The Jovellanos Integral Maritime Security Centre and its maintenance for a period of 1 year, starting from its installation: 1.000.000 € (VAT not included).

3.4 LANGUAGE

The language of this PMC is English.

Communication with participants during the consultation procedure to answer their questions shall be in this language.

3.5 PUBLICITY AND INFORMATION

This Resolution shall be published on the Public Sector Procurement Platform, in the profile of the contracting party:

<u>Plataforma de Contratación del Sector Público (contrataciondelestado.es)</u> and on the European Tenders Electronic Daily https://ted.europa.eu/.

Additional documentation and updated information on the consultation will also be available on the above-mentioned platforms. This documentation will include the PMC results report.

In the course of this PMC, in order to ensure transparency and equal opportunities among participants, an online information session and a meeting with participants will be held at the The Jovellanos Integral Maritime Security Centre.





In addition, if deemed necessary, The Jovellanos Integral Maritime Security Centre may contact specific participants to obtain more information about their proposal, clarify doubts or request demonstrations.

3.6 CLOSURE OF THE PMC

All operators who have participated in the consultation up to that point will be notified of the closure of the consultation via the e-mail address provided.

IV. TECHNICAL GROUP

The Technical Group, constituted in the framework of this PMC, will be responsible for the implementation of the consultation process.

The Technical Group is composed of the following representatives of the The Jovellanos Integral Maritime Security Centre:

- Covadonga Suárez Antón, Head of Training Service
- Alejandro Odriosolo Fanjul, Head of the Administration and Innovation Area
- Eva González Bayón, Senior Technician in Administration and Contracting

External technical advisors may be involved, if deemed necessary.

The Technical Group will be responsible for carrying out, among others, preparatory tasks for the PMC, dissemination tasks, tasks of analysis and ranking of the proposals for innovative solutions received, tasks of gathering relevant information for the potential future tender, decision on the correct course of the consultation and proposal for closure.

V. APPLICATION OF THE PRINCIPLES OF TRANSPARENCY, EQUAL TREATMENT, NON-DISCRIMINATION AND NON-DISTORTION OF COMPETITION

Participation in this PMC, contacts with participants and exchanges of information shall be governed by the Community principles of transparency, equal treatment and non-discrimination. In no case may they have the effect of restricting or limiting competition, or of conferring advantages or exclusive rights in the subsequent tendering process in the field covered by this Resolution.

Failure to comply with them may be considered an infringement. To this effect, the technical group of The Jovellanos Integral Maritime Security Centre will adopt the necessary measures to guarantee the maintenance of the aforementioned principles, both in the development of this call and in any possible subsequent contracting procedure.

Any doubts and questions that may arise during the PMC process from economic operators will be answered through the "frequently asked questions" document, published on the aforementioned procurement platforms in order to ensure that all interested participants have the same information at their disposal.

Participation in the PMC does not confer any right or preference with regard to the award of any contracts that may subsequently be concluded within the scope of this call and, as a consequence, does not entail any obligation to fund or accept the proposals submitted.





VI. RESULT OF THE PRELIMINARY MARKET CONSULTATION

The Technical Group will study the proposals submitted and may use them, in accordance with the provisions of Article 126 of Law 9/2017 of November 8th, on Public Sector Contracts, to define the detailed functional or technical specifications that may be used by The Jovellanos Integral Maritime Security Centre in the framework of the future tender.

The Technical Group will prepare a Final Conclusions Report of the PMC detailing the actions carried out. In any case, the Conclusions Report will list the studies carried out and their authors, the entities consulted, the questions posed to them and the responses. The Conclusions Report will be published on the aforementioned procurement platforms.

VII. PROTECTION OF PERSONAL DATA AND CONFIDENTIALITY

The Jovellanos Integral Maritime Security Centre will be responsible for the processing of the personal contact details of the participants in the process, for the sole purpose of establishing a communication channel with the proposers during the PMC process.

To ensure the transparency of the process, the availability of as much information as possible and the effective exchange of experiences and opinions, participants shall expressly state their agreement that The Jovellanos Integral Maritime Security Centre shall keep accessible and updated the necessary information, in whole or in part, on their proposals, without prejudice to that which has been designated as confidential.

To this end, participants shall indicate the technical or commercial documentation or information in their proposal that is confidential in the points of APPENDIX II provided for this purpose, and it is not acceptable to make a generic statement to the effect that all information is confidential. This confidential nature protects, in particular, technical secrets and confidential aspects of the solutions.

VIII. EXPLOITATION OF INTELLECTUAL AND INDUSTRIAL PROPERTY RIGHTS

The use of the content of the proposals is limited exclusively to their possible inclusion in the technical or functional specifications of a possible subsequent procurement procedure.

IX. PUBLIC PROCUREMENT

On the basis of the proposed ideas for solutions collected as a result of this PMC, The Jovellanos Integral Maritime Security Centre will be able to define the technical and/or functional specifications, which will serve as a basis for the definition, with the necessary degree of specificity, of the object of contracting of the corresponding subsequent procedure.

This potential future procedure will be open to all bids that meet, where appropriate, the conditions set out in the procedure, whether or not they have participated in this PMC.





X. JURISDICTION

An appeal may be lodged against this Resolution, in accordance with the provisions of articles 123 and 124 of Law 39/2015, of October 1th on the Common Administrative Procedure of Public Administrations, within a period of one month, or a contentious-administrative appeal may be lodged directly before the competent contentious-administrative courts, by virtue of the provisions of articles 8.3, 14.1 and 46 of Law 29/1998, of July 13th, Regulating Contentious-Administrative Jurisdiction, within a period of two months, in both cases from the day following publication.

Gijón, on March 13th, 2023.

SIGNATURE:

CAMUS
BERGARECHE JULIAN - DNI
51377717H
Recognition name (DNI): c=ES,
0=SOCIEDAD DE SALVAMENTO Y
SEGURIDAD MARITIMA
OU-CESTEMI JOVELLANOS,
serialNumber-IDCES 51377717H,
sn-CAMUS BERGARECHE,
givenName=JULIAN, cn-CAMUS
51377717H
Date: 2023.03.31 11:11:45 +02:00

Julián Camus Bergareche Director of The Jovellanos Integral Maritime Security Centre





APPENDIX I

TECHNOLOGICAL CHALLENGE 1: Design, construction and installation of an aircraft fire simulator to carry out training tasks for Fire and Emergency Brigade teams.

1. Background

The Jovellanos Integral Maritime Security Centre is the Training Centre of The Rescue and Security Maritime Society, a Public Business Entity under the Ministry of Transport, Mobility and Urban Agenda. Its mission is to implement, develop and design a comprehensive training in rescue and maritime security of high quality and highly specialised, ensuring the highest levels of professional training for public bodies and national and international private companies.

The Jovellanos Integral Maritime Securiy Centre, located in Gijón (Asturias), integrates training experiences in its facilities that simulate real emergencies: Fire Fighting, Flash Over, Backdraft, Survival and Rescue at Sea, Fire Fighting on Ships, Offshore, Rescue at Height and Confined Spaces, Diving, Marine Pollution Fighting, Aircraft Emergencies, Chemical Emergencies, Marine Navigation Simulators and VTS, Liquefied Natural Gas (LNG) Emergencies and Crisis Management Simulator with Virtual Reality.

In order to carry out its training activities for professionals, The Jovellanos Integral Maritime Security Centre needs to equip its facilities with suitable, high-quality equipment for simulating real emergency situations.

2. Description of the technological challenge

The Jovellanos Integral Maritime Security Centre is the national and international reference centre and its mission is to respond to the training needs of public and private companies in the field of safety and rescue. These needs require the use of full-scale simulation systems, using the most advanced and safest technology on the market.

One of the emergency situations that is simulated for the training of firefighting teams and emergency brigades in the centre's facilities is the generation of a fire on board an aircraft using systems that offer different scenarios and training options. This simulator has a limited lifetime due to the extreme conditions in which the training takes place.

In consideration of all of the above, The Jovellanos Integral Maritime Security Centre is considering the need to design, build and install a fire simulator in aircraft for training firefighting teams and emergency brigades, as well as the necessary works to adapt the facilities to this new simulator.





Due to the nature of the procurement, where innovative technology with a certain degree of development is sought to be implemented, it will be necessary that the solutions submitted have a Technological Challenge (TRL) of at least 7 and will be determined in the framework of this PMC.

3. Technical aspects to be considered in the proposal

The Jovellanos Integral Maritime Security Centre establishes a series of technical prescriptions which are detailed below:

- **3.1 Model:** the simulator (hardware and software included) must simulate the type structure of an aircraft, BOEING 777, AIRBUS 350 or similar model that replaces the old BOEING 767 on which the current simulator is built.
- **3.2 Dimensions**: The approximate dimensions of the fuselage shall be as follows:

-Length: 25 metres

-Inner diameter: 4 metres

- **3.3 Location**: the simulator covered by this PMC will be installed by the supplier company in the facilities of The Jovellanos Integral Maritime Security Centre in the area fitted out for the current simulator, located at Camín del Centro de Salvamento nº 279. 33393. Gijón. Asturias.
- **3.4 Maintenance:** the simulator supplier shall maintain the simulator for one year from its installation and commissioning at the centre's facilities. The supplier company must provide inhouse training to the Centre's human resources on the operation and maintenance of the simulator.
- **3.5 Aircraft fuel supply**: The Jovellanos Integral Maritime Security Centre has a liquified petroleum gas (LPG) supply facility for the performance of practices and fire simulation, which can be accessed by means of a counter. Proposals from suppliers must consider the mandatory use of this type of fuel for the new simulator.

In order to have all the information necessary to respond to this PMC, a plan of the facilities will be provided and an on-site visit to The Jovellanos Integral Maritime Security Centre will be carried out within the timeframe established in this PMC.

- **3.6 Fuel spill simulators:** The Centre will maintain the current arrangement of the fuel spill simulators as well as the water buckets integrated into the floor.
- **3.7 Card and PLC panel:** located adjacent to the control cabin, outside the aircraft structure, in the area freely accessible for maintenance and repair work and away from exposure to flames and extinguishing water.





The button layout shall be similar to the existing one: Start/Stop/Standby/Pilot

call/Emergency stop.

3.8 Wings: The fuselage shall be fitted with a starboard wing of similar dimensions to that of the simulated aircraft. The structure shall support a minimum weight corresponding to the weight of 5 firefighters equipped with full firefighting suits and breathing apparatus. The wing shall house a landing gear on which fire-fighting exercises can be conducted.

3.9. Engines. The airframe must be fitted:

- An engine in the lower part separated from the floor by a corresponding distance.
- A tail motor to simulate the APU battery storage area.
- **3.10** Airframe release and cooling lance drilling simulator: a plan shall be provided to give information on the location of the simulator. The installation of a structure raised to the height of a standard aircraft and supported by pillars shall be carried out.

The centre of the structure will have an area in which a flat steel plate can be extracted and on which the release and penetration practices with the cooling lance will be carried out.

The structure shall be installed independently and shall not be connected to the LPG or refrigeration network.

- **3.11 Cold smoke:** in the whole interior area. Non-toxic. The generating machine shall be in an easily accessible area not exposed to flames or cooling water.
- **3.12 Doors:** the fuselage shall include doors corresponding to the simulated real model, which shall be operated from inside or outside the fuselage and shall incorporate all the necessary systems to enable safe practices to be carried out and which shall have dimensions similar to those of the real model. They shall be constructed of robust but lightweight aluminium-type material. The layout shall be as follows:
 - Passenger doors: two forward and one aft.
 - Emergency door on the starboard wing to simulate those of the CN-235 rescue aircraft.
 - Cargo compartment door.
 - Two luggage doors to starboard.
 - Overhead hatch doors.
 - Ventilation hatches.
- **3.13 Interior fires:** independent controlled from the control cabin.
 - · Cockpit.
 - Passenger compartment front section.
 - Passenger compartment midsection.
 - Cargo compartment.





- Toilet.
- On passenger cabin roof (Flash-Over).
- Fire in passenger seat in row 1 of the aircraft.
- Fire in passenger seat in row 2 of the aircraft (opposite row 1).

3.13 Interior fires:

- Cockpit with pilot and co-pilot seat and control panel.
- Passengers front section 2-2-2 on both sides.
- Passengers middle section 2-2-2 on one side.
 NOTE: From the midsection to the aft area the floor will be sloped simulating that the aircraft is in an unstable area.
- Cargo compartment aft.
- Toilet.
- Kitchen.





APPENDIX II

FORM

Note: All sections must be completed and accompanying documentation is accepted.

The form must be submitted in digitally signed .pdf format before the deadline to the e-mail address contratacionjove@centrojovellanos.es and indicating in the subject line:

PMC: Supply of aircraft training simulator.

The form is freely available on SASEMAR's contractor profile on the state procurement platform and the European Tenders Electronic Daily (TED).

Once all the information has been received, The Jovellanos Integral Maritime Security Centre will carry out an analysis and present its conclusions, which will be published in the same place where the consultation was publicized, so that its contents can be freely accessed.

1. General details of the operator and the proposal

Name of the entity submitting the proposal	
Name and surname of the representative or interlocutor	
Description of the activity	
Contact telephone number	
Email	
Number of employees on staff	
Turnover for the last year:	
Does it have an R&D&I department?	YES: NO:
	If yes, please indicate the number of employees. Indicate any work carried out or in progress that is related to the subject of the PMC.
Title of the proposed solution	
TRL of the proposed solution: TRL not less than 7	TRL of the proposed solution:
Do you intend to apply for future tenders related to the challenge(s) you are applying to?	

2. Technical characteristics

The proposals to be submitted must answer the following questions by providing detailed and complete information (technical characteristics, approvals, certifications, etc.)





	 What type of material do you propose to use and what is its linear coefficient? What is the minimum thickness of the structure's plates? What kind of reinforcement do you propose to provide to the structure?
Aircraft support	1. What type of support do you propose for lifting the aircraft? from the ground at a height that simulates a real aircraft model?
Cooling systems	1.What type of cooling systems do you propose to use for the outdoor area? 2.What type of cooling systems do you propose to use for the interior area, and where do you propose to locate them inside the fuselage so as not to be in direct contact with the flames?
Piping and valves and fittings must comply with safety standard concerning fuel transport and installation demand.	 What type of material should be used for valves? What system do you propose for closing and openingthe valves?
Doors The fuselage shall include doors that correspond to the simulated real model and shall be operated from inside and outside the fuselage.	 What are the systems that you propose to integrate these doors for the development of safe practices? What are the dimensions of these doors? What material should the doors be made of to make them robust and lightweight? Number of doors and distribution by zone
Wing Considering the weight to be supported and its location in the fuselage	1. What feature should it have to enable training to be carried out in safe conditions but simulating a real
Interior fires Bearing in mind that different emergency situations must be simulated	Proposal from layout fires independent interior fires by distribution zones
Aircraft interior layout From the midsection to the aft area, the floor will be sloped tosimulate the aircraft is in an unstable area.	Detailed indication of the layout of the interior sections
Sensors and detectors	 What control systems do you propose to prevent the ignition of gases? for remote ventilation? What systems do you propose for airframe sheetmetal temperature control and monitoring? What system is proposed for gas control to preventthe ignition of gases within the explosive range? Which remote gas ventilation system is proposed in case that the gas control system is activated?





3. Economic assessment of the proposed solution

Indicate the budget broken down by items

Items	Amount excluding VAT
Design	
Construction	
Installation and adaptation works	
Maintenance 1 year	
Training	
Other items covered	
TOTAL	

4. Intellectual property rights

The use of the content of the proposals is limited exclusively to their possible inclusion in the functional or technical specifications of a possible subsequent procurement procedure.

5. Mandatory declarations

The innovative solution proposal submitted is free of commercial patents, copyright or any other author's or company rights that would prevent its free use by the Management of the Rescue and Security Maritime Society or any other company collaborating in the development of the future contract.

[YES/NO]

I authorise The Jovellanos Integral Maritime Security Centre to use the contents of the proposals for innovative solutions, which may be shared with this user PUBLIC ADMINISTRATION and with an external group of experts, for the sole purpose of assessing the possible inclusion of the contents in the definition process in the specifications of an eventual contracting procedure through a Public Procurement of Innovative Technology.

[YES/NO]

In accordance with Regulation (EU) 2016/679, of April 27th 2016, or General Data Protection Regulation (GDPR) and Organic Law 3/2018, of December 5th, on Personal Data Protection and guarantee of digital rights (LOPDGDD), we inform you that your personal data are processed by The Jovellanos Integral Maritime Security Centre in its capacity as data controller, for the purpose of facilitating contact with the participant during the preliminary market consultation process.





We therefore ask you to confirm your express consent to the processing of your data for the purposes described above.

We will retain your personal data for as long as it is necessary for these purposes, unless you exercise your right to erasure. In this regard, you may exercise your rights of access, portability, revocation, rectification, deletion, opposition and limitation of the processing of your personal data by sending a written communication to the following e-mail address: contratacionjove@centrojovellanos.es with the reference "GDPR right" or by writing tothe following postal address: Centro de Seguridad Marítima Integral Jovellanos, Camino del Centro de Salvamento nº 279. 33393. Gijón. Asturias - Spain accompanied in both cases by a copy of the identification document.

If you are not satisfied with the response provided by the Jovellanos Integral Maritime Security Centre in the exercise of your rights, you may lodge a complaint with the Spanish Data Protection Agency or with any other supervisory authority competent in the field of data protection in the European Union.

You therefore expressly consent to the processing of your personal data by The Jovellanos Centre in the terms set out above.

[YES/NO]

6. List of attached documents provided

If any, indicate the documentation accompanying your proposal that provides further information about your proposal.

File name	Brief description of the file	Confidentiality of the archive
		YES / NO

(Add as many rows as files submitted)