

Commercially confidential

Descriptive document
European tender in accordance with the public procedure
for the supply of a Virtual Reality Laboratory
for the benefit of
The Max Planck Institute for Psycholinguistics
12407/TN551917

Status	:	version 1.0
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Commissioned by	:	Max Planck Institute for Psycholinguistics, Nijmegen
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Overview of data and appendices

The following documents and forms are included as appendices to this Descriptive document and are available on the TenderNed tendering platform.

Part B Tender conditions

Appendix 1.A European Single Procurement Document (provided on TenderNed, ESPD digital)

Appendix 1.B References

Appendix 2.A Declaration regarding registration

Appendix 2.B Declaration of no Russian involvement

Appendix 3 Price sheet

Appendix 4 User Requirements Specification (URS)

Appendix 5.A Draft agreement

Appendix 6.A Yellow – VR Cave controlroom serverrack space

Appendix 6.B Cavelab power outlets

Appendix 6.C Situation around cave lab

Appendix 6.D Situation around cave lab details

Appendix 7 Site Acceptance Test (SAT)

1. INTRODUCTION

1.1 General

This Descriptive document concerns the public procedure for a Virtual Reality Laboratory for the Max Planck Institute for Psycholinguistics, hereinafter referred to as 'the contracting authority', with tender reference number 12407/TN551917.

The descriptive document consists of two parts. Part A, this document, contains a description of the contracting authority and the tender (Chapter 1), all the information you need to submit a tender, such as the tendering procedure (Chapter 2), the requirements for the company (Chapter 3), the requirements and wishes (Chapter 4) and the evaluation of the tenders (Chapter 5). Part B contains the NIC Tender Conditions applicable to this tender.

This tender is governed by German law, including the relevant provisions of the Gesetz gegen Wettbewerbsbeschränkungen (GWB), the Vergabeverordnung (VgV) and other applicable German regulations relating to public procurement.

The contracting authority is a German organisation, which means that German law applies to both the tender procedure and the contract to be concluded. Tenderers should note that any legal remedies and assessment frameworks will be applied in accordance with German procurement law.

Part B 'Tender Conditions The NIC' forms an integral part of this Descriptive document and can be found separately on the TenderNed tender platform. This document has been drafted based on the 'Aanbestedingswet 2012' (Dutch Public Procurement Act). An effort has been made to align its content with German legislation. Should any ambiguities or inaccuracies be identified, Tenderer is required to notify the contracting authority without delay. In all circumstances, German law shall prevail.

The tender will be conducted electronically via TenderNed (see www.tenderned.nl). For more information, see: <https://www.tenderned.nl/cms/nl/voor-ondernemingen/aanmelden-en-inschrijven-aanbesteding>.

Please note that the registration is only final once TenderNed has received and processed the SMS transaction code. Tenderers should therefore take into account the time required for sending and processing by TenderNed.

1.2 Description of the contracting authority

The Max Planck Institute for Psycholinguistics (MPI) is a world-leading research institute engaged in interdisciplinary research into the science of language and communication, with departments in the fields of genetics, psychology, development, neurobiology and multimodality of these fundamental human abilities. MPI investigates how children and adults acquire language, how speaking and listening occur in real time, how the brain processes language, how the human genome contributes to the development of a language-ready brain, how multiple modalities (such as speech and gesture) shape language and its use in different languages, and how language is related to cognition and culture and shaped by evolution.

MPI is part of the Max Planck Society for the Advancement of Science, an internationally renowned German independent organisation for scientific research that cannot be carried out at universities and colleges, with a focus on physics. The Max Planck Institute in the Netherlands, which conducts research into language and communication, is a non-profit organisation and is entirely dependent on subsidies. MPI needs to start a procurement process for a research room or VR lab. The reason for starting a procurement process is that the current research room is outdated and new technology is needed to carry out new research. The contract concerns the delivery, furnishing, installation and maintenance of a research room or VR lab with VR and observation equipment.

1.3 Description and purpose of the tender

1.3.1. *Current situation*

The current research space with VR setup was furnished and completed in 2015. In recent years, scientific language studies have been conducted using WorldViz Vizard and, for the past two years, Unity. The test subject usually sits in the middle of the room and is presented with audiovisual stimuli (images, 3D models, talking and gesturing virtual agents). Various responses can be measured, such as oral responses, gestures, button responses, eye/head tracking and EEG measurements. Currently, two to three studies are conducted per year. At present, this setup is no longer sufficient and no longer meets the requirements, and more modern solutions are available. The equipment in the current VR lab is outdated and vulnerable, which means that studies no longer meet the standards that can be achieved with commercially available equipment. The aim is to be able to offer future research in Unreal and Unity with images that are as realistic as possible.

1.3.2. *Desired situation*

In the desired situation, a single supplier will be contracted to design, deliver, set up and maintain a VR LED CAVE with modern, innovative equipment that will enable research to be carried out optimally. Currently, 2-3 studies are conducted per year, but this is expected to increase with the new CAVE (approx. 5-10 studies). It must be possible to use the CAVE full-time (8 hours per day) for several weeks.

Brief overview of required equipment:

- LED panels
- Support structure
- LED controller
- Image processors (PC cluster)
- Cabling
- Audio system

The purpose of the above equipment is to present an immersive VR environment for scientific research. The current projector-based CAVE will be completely removed and the new LED CAVE will be installed in the same space. The image processors will be placed in the room next to the current VR Lab to reduce noise. The new setup must be permanently installed for a period of at least five years, taking into account interim modernisation, hardware replacement and software updates. The frequency of purchase is a one-off installation with interim replacement of parts or elements where necessary and periodic software updates in accordance with the manufacturer's

guidelines. MPI wishes to award the public contract for the supply of a LED-CAVE (CPV code used: 38000000-5) to a single party, whereby subcontractors are permitted under the supervision of the main contractor, who will also act as the point of contact for MPI. The supplier/main contractor is responsible for the design, layout, equipment, software and maintenance.

The contracting authority requires user training for at least three people, covering at least the following: how the system works, how everything is connected, the cabling diagram and which technical components are included.

1.4. Tendering procedure

1.4.1.1. Selection procedure

It has been decided to award the contract through a European public tender procedure. The estimated value exceeds the European tender threshold. It is expected that approximately four parties will submit a tender, thereby ensuring maximum market competition.

1.4.1.2. Division into lots

The tender is not divided into lots.

The reasons for this are:

- Contracting a single supplier ensures clear lines of communication, uniform contract management and the most efficient possible delivery and service provision. This allows both the client and the contractor to deploy capacity effectively;
- The administrative burden is significantly reduced.

1.4 Contracting party, advisor and contact persons and complaint handling

1.4.1. Contracting party

The contracting authority is the client and is responsible for the substantive aspects of this European tendering procedure. A project team consisting of representatives of the contracting authority has been formed for this European tender.

1.4.2. Role of the NIC

The NIC acts as advisor and process supervisor for the contracting authority.

Consultancy	The NIC		
<i>Process supervisor</i>	Marit Oortwijn	<i>Position</i>	Consultant
<i>Tel</i>	+31 (0)6 240 80 969	<i>Email</i>	Via the messaging module on TenderNed
<i>Deputy</i>	Matijs Arink	<i>Position</i>	Junior Consultant
<i>Tel</i>	+31 (0)6 144 07 411	<i>Email</i>	Via the messaging module on TenderNed

TenderNed	For technical questions about the tendering platform*		
<i>Contact</i>	TenderNed service desk		
<i>Telephone</i>	0800 8363 376	<i>Email</i>	ServiceDesk@TenderNed.nl

* For example, if you are unable to log in or submit documents.

1.4.2. Complaints procedure

The contracting authority acts in accordance with German law and regulations. As these do not require a complaints procedure, no such procedure is in place.

1.5 Planning

The planning for the tender is set out below. The dates shown *in italics* are final and binding, unless otherwise stated in writing by the contracting authority. The other dates are indicative and not binding.

Inspection

To enable Tenderers to obtain a good and realistic picture of the space and the technical and practical requirements for the design of the VR Lab, the contracting authority is organising a mandatory inspection.

The nature of the work requires that Tenderers have physically inspected the space and conditions to be able to submit a suitable and feasible tender. Tenderers who cannot demonstrate that they were present at the inspection will be excluded from further participation in the tendering procedure. An attendance list will be available on site, which each Tenderer must sign to confirm their presence. Afterwards, each participant will receive a certificate of participation, which must be attached to the Tender.

The inspection will take place on Monday, 1 December 2025 at the Max Planck Institute in Nijmegen – Wundtlaan 1, 6525 XD Nijmegen.

Registrants must register for the inspection no later than [registration date]. A maximum of 3 persons may be registered. Registration can be done via the message module in TenderNed, stating:

- Name of the registering party;
- Name and position of the person(s) attending the inspection;
- Contact details

If the registrant is demonstrably unable to attend on the date specified, they must notify the contracting authority of this, stating the reasons, via the message module in TenderNed no later than [date]. An alternative date will be sought in consultation. Please note: it is up to the contracting authority to assess whether an alternative is possible; failure to participate in the inspection will result in exclusion.

Friday, 24 October 2025	Sending of announcement Descriptive document including appendices will be made available on the tendering platform
Monday, 27 October 2025	Publication on TenderNed (and TED)

Wednesday, 26 november 2025 13:00 (1 pm)	Latest registration date for inspection
Monday, 1 December 2025 13:00 (1 pm)	Inspection (mandatory attendance) Wundtlaan 1, 6525 XD Nijmegen
<i>Wednesday, 26 November 2025 14:00 (2 pm)</i>	<i>Closing date for submitting questions regarding this Descriptive document (information memorandum 1)</i>
Thursday, 4 December 2025	Target date for making the information memorandum available 1
<i>Friday, 19 December 2025 09:00 (9 am)</i>	<i>Closing date for submitting questions (information note 2)</i>
Monday, 29 December 2025	Target date for availability of information memorandum 2
<i>Monday, 9 February 2026 10:00 (10 am)</i>	<i>Closing date for submitting proposal</i>
Week 7 - 8	Evaluation of proposals
Friday, 6 March 2026 / week 10	Expected date/week of notification of the award decision
Saturday, 7 March 2026 – Monday, 23 March 2026	Opportunity to ask questions and submit any objections as soon as possible after the award decision has been announced, but no later than 15 calendar days after the date of the award decision.
Tuesday, 24 March 2026	Final Award
Tuesday, 7 April 2026	Intended date of commencement of the agreement

2. REGISTRATION PROCEDURE

This chapter describes the registration procedure. Registrations must be made in accordance with the instructions in this chapter.

2.1 Information

Questions regarding the content of the tender may only be submitted via the question module on TenderNed. Please refer to [this manual](#) for more information. We can only answer your questions if they are submitted in this manner and in a timely manner. If questions are submitted after the deadline, the contracting authority cannot guarantee that they will be answered.

2.3 Method of submitting tenders

Tenders must be drawn up and submitted in full compliance with the requirements set out below. If a tender is not drawn up and/or submitted in full compliance with the requirements set out below, the contracting authority may decide to exclude it from further participation in this procedure. The tender in question will then no longer be eligible for award.

The tender deadline is the date and time stated in the Planning section under '*Closing date for tenders*'. Tenders submitted after the tender deadline will not be considered.

The templates that must be completed for your tender can be found separately on the tendering platform. Only digital tenders submitted via the tendering platform will be considered by the contracting authority. Documents that must be legally signed must bear a 'wet signature' and be scanned or bear an advanced electronic signature. Upon request, the tenderer must provide the original document with a 'wet' signature within seven working days of a request to that effect and submit it to the contracting authority. Failure to enclose the aforementioned appendices may result in your tender not being considered for award.

The following documents must be included in your tender:

Appendix 1	Appendix 1.A European Single Procurement Document (legally signed) <i>Suggested file name: 'Name of tenderer – ESPD'</i> Appendix 1.B Reference contract (legally signed) <i>Suggested file name: "Name of tenderer – Reference contract"</i>
Appendix 2	Appendix 2.A Declaration regarding registration (legally signed) <i>Suggested file name: "Name of tenderer – Declaration regarding registration"</i> Appendix 2.B Declaration of no Russian involvement (legally signed) <i>Suggested file name: "Name of tenderer – Declaration of no Russian involvement"</i>
Appendix 3	Cost statement for registration in accordance with Appendix 3 Price sheet <i>Suggested file name: "Name of tenderer – Price sheet"</i>
Appendix 4	Response to/reaction to the qualitative criteria <i>Suggested file name: "Name of tenderer – Response to Qualitative Award Criteria"</i>
Appendix 5	Certification of participation (mandatory) Inspection <i>Suggested file name: "Name of tenderer – Certification of participation inspection"</i>

Appendix 6

Detailed overview of the product specifying for each item the item number, product description, unit price excluding and including VAT, and the applicable VAT percentage (in PDF)
Suggested file name: Name of tenderer – Product overview - quotation”

2.4 Conditions

This tender is subject to the NIC Tender Conditions set out in Part B. By submitting a tender, you agree to these tender conditions.

3. REQUIREMENTS FOR THE TENDERER

This chapter describes the information you must provide with your tender and the criteria your company, whether or not in collaboration with others, must meet in order to be eligible for award.

3.1 Exclusion and suitability

Tenderers will be considered suitable if none of the grounds for exclusion listed in the European Single Procurement Document apply and if the tenderer meets all the suitability requirements.

Tenderers must complete the European Single Procurement Document in full and correctly, without reservation or conditions, and sign it in a legally valid manner (see TenderNed, ESPD digitally provided). Failure to submit the European Single Procurement Document with a valid signature or making changes to the European Single Procurement Document may result in exclusion.

If evidence is requested in relation to the European Single Procurement Document this evidence must, insofar as no deviating or additional provisions have been laid down in the tender documents, be submitted within seven days of the request being sent. If necessary, the contracting authority may ask for the statements and documents submitted to be explained and supplemented. The request to submit evidence shall be sent together with the notification of the award decision or as soon as the progress of the procedure makes this necessary.

You must have a certificate of good conduct for public procurement, which must not be more than two years old at the time of submission of the tender. The successful tenderer may also be asked to submit a certificate from the tax authorities. Please ensure that you request these supporting documents in good time, as it can take approximately six weeks to obtain them.

3.2 Suitability requirements

3.2.1. Financial and economic capacity:

- The tenderer has sufficient financial and economic capacity to guarantee the continuity of its business operations during the contract period, including any extensions;
- The tenderer has sufficient financial and economic capacity to fulfil all obligations arising from the (framework) agreement during the entire contract period, including any extensions;
- The tenderer is not aware of any claims and, to the best of its knowledge, no investments are necessary during the term of the (framework) agreement that could jeopardise the financial and economic capacity of its company or the continuity of its business operations;
- The most recent auditor's report issued to the tenderer in respect of the annual accounts (or, where applicable, an assessment or compilation report) does not contain a so-called continuity paragraph;
- The tenderer has taken out adequate insurance against professional risks with a minimum cover of €250,000.00 per claim. The insurance must be adequate and customary in the sector. The tenderer must demonstrate this by submitting a copy of the insurance policy or a statement of willingness to take out insurance as soon as the contract is awarded to the tenderer;

- If the tenderer relies on the financial and economic capacity of other natural persons or legal entities, both the tenderer and those other natural persons or legal entities are jointly and severally liable for the performance of the relevant contract.
- According to German law, a bank guarantee is required to ensure that, in the event of bankruptcy, the contractor will be able to complete the order in full. Please include the costs for the bank statement in the quotation, not as an add-on afterwards the award decision.

3.2.2. Technical and professional competence

Core competencies

The tenderer has the following core competencies.

- The tenderer has experience in building a 3D stereoscopic immersion LED CAVE system;
- The tenderer has experience in using Unity and Unreal engine within the context of a delivered CAVE system;
- The tenderer has experience in setting up a CAVE system (mechanical framework) for at least one client;
- The tenderer has experience in accurately measuring visual and tracking latency for at least one client.

The tenderer must demonstrate that it possesses these core competencies by means of references. Each core competency must be demonstrated by means of one reference.

The reference(s) must meet the following requirements:

- The reference must include the name of the client.
- The reference contains a description of the services provided for this reference and that these were performed satisfactorily.
- The reference must not be older than three years from the date on which the registration period closes.
- Only fully completed assignments may be provided as references or, if an assignment that has not yet been (fully) completed is used, only the results actually achieved in the current assignment may be provided and a forecast of the results is not sufficient.
- The reference assignment must have been carried out to the satisfaction of the client. The contracting authority may verify this with the referees.
- A reference may relate to more than one competence. If several requested competences are demonstrated in a single completed project, the same reference assignment may be used to demonstrate these multiple competences.

The references to be provided must be completed in Appendix 1.B References.

3.2.3. Professional competence

The tenderer is registered in the professional or trade register in the Member State where it is established. The tenderer shall indicate the registration number in the relevant register in the European Single Procurement Document.

If the tenderer wishes to subcontract part of the contract, it must describe this in its ESPD and also enclose an ESPD from the subcontractor concerned with its tender, stating that none of the grounds for exclusion mentioned

in the European Single Procurement Document apply to the subcontractor concerned. This European Single Procurement Document must be legally signed by the subcontractor concerned.

The contracting authority will only request the majority of the documents, including supporting documents, proving that you comply with the above from the successful tenderer. When submitting your tender, you only need to enclose:

- the ESPD; and
- the references;
- extract(s) from the (Trade Register) of the Chamber of Commerce.

The following supporting documents will only be requested from the successful tenderer:

- A statement of conduct for tendering, as proof that the grounds for exclusion do not apply to your organisation;
- The annual accounts with an auditor's report (or, where applicable, an assessment or compilation report) without a continuity paragraph or a written statement from the auditor that the annual accounts have been prepared on a going concern basis;
- The insurance policy or a certificate showing the insurance cover and that the premium has been paid.
- Advance Payment Guarantee; Bank guarantee

The latter documents must be provided by the tenderer within seven working days of the date on which they are requested by the contracting authority.

4. REQUIREMENTS AND WISHES PACKAGE AND SPECIAL CONDITIONS

4.1 Requirements and preferences

The tenderer must unconditionally agree to all the requirements set out in Appendix 4.A *User Requirements Specification (URS)* by completing, legally signing and submitting Appendix 2 *Declaration regarding tender* with their tender. By registering for this tender, the tenderer also automatically agrees unconditionally to all provisions set out in this Descriptive document, including appendices, under which the contractual provisions are included. The tenderer confirms this by completing Appendix 2 *Declaration regarding registration*, signing it in a legally valid manner and submitting it with their tender. Furthermore, the tenderer must submit a quotation based on the provisions and requirements set out. Where the tenderer has indicated in the tender how it meets a quality criterion, the costs thereof must be included in the price submitted by the tenderer in Appendix 3 Price sheet.

For those parts of the contractual provisions with which you do not (immediately) agree, you may submit text proposals or explain the nature of your objection before the date and time specified in the Planning section under 'Closing date for submitting questions regarding this Descriptive document'. No later than ten days before the date stated in the Planning section under 'Closing date for submission of tenders', the contracting authority will inform all tenderers by means of a note of information of the points on which and the manner in which the agreement will be amended. This amended version will then form a fixed basis for your tender. In other words, registration means agreement with the draft agreement and the terms and conditions forming part thereof, as well as with the proposed amendments that have been accepted and announced in the information note.

The tenderer's general terms and conditions are expressly rejected.

5. ASSESSMENT AND AWARD PROCEDURE

This chapter describes the assessment procedure (section 0) and the award procedure (section 0). The options for asking questions or lodging objections following the award decision are set out in section 4 of part B (Tender conditions).

5.1 Assessment procedure

Tenders that are not submitted on time will not be considered. These tenders will be set aside and will not be eligible for award.

After the closing date for tenders, each tenderer will be assessed on the basis of the tender documents to determine whether any of the grounds for exclusion apply and whether the tenderer meets the suitability requirements. If the tenderer is not deemed suitable for the contract to which the tender relates, they will not be considered for the award and their tender will not be assessed further.

The tenders of tenderers who are found to be suitable will be assessed in terms of content. First, compliance with the requirements will be checked. Tenders that do not meet the requirements will not be considered further. The remaining tenders that meet the requirements will then be evaluated on the basis of the sub-award criteria set out in section 5.1.2. These are criteria relating to quality (quality criteria) and price.

The contract will be awarded to the tenderer who meets the requirements set out in this Descriptive document and has submitted the most economically advantageous tender based on the best price-quality ratio.

5.1.1. Compliance with the requirements

It is expressly stated that the **requirements** for the deliveries and services set out in this Descriptive document must be fully met. Failure to meet a **requirement** means that the tenderer will not be considered for award on the basis of this tender.

5.1.2. Assessment based on the (sub)award criteria.

The assessment is based on the 'weighted factor method'. This means that a weighting between price and quality is applied. The table below shows which (sub)award criteria are used and the corresponding weighting factor.

The assessment of the sub-award criteria will be carried out by an assessment team consisting of five (5) subject matter experts. If, due to unforeseen circumstances, members of the assessment team are unable to participate, the contracting authority reserves the right to replace these employees with employees with comparable expertise and roles. If they cannot be replaced, the contracting authority reserves the right to remove this assessor. The assessment of the various tenders will always be carried out by the same team for each subcriterion. The award criteria will be assessed using the assessment framework stated in each award criteria.

First, the elaboration of the quality criteria is assessed. Each team member assesses the tenders independently and, without consulting other team members, assigns values to the tenders for each quality criterion based on the assessment system set out in each award criteria.

The arguments that led to the individual scores are discussed in a plenary meeting of the assessment team. The assessment team then reaches a unanimous decision based on consensus. This decision forms the basis for the further course of the award procedure.

For each tender, the values of the quality criteria determined by the assessment team are added together. The price component is then based on the total price as stated in Appendix 3 Price sheet, which is the tender price.

The total number of points obtained determines which Tenderer offers the best price-quality ratio. The Most Economically Advantageous Tender (MEAT) is the tender that has obtained the highest total score on the award criteria.

In the event that two or more Tenders end up with an equal total score after assessment, the following applies:

- The contract will be awarded to the tenderer with the highest score on the most important award criterion (Q1).
- If the scores for the most important award criterion, rounded to two decimal places, are also equal, the contract will be awarded to the tenderer with the highest score for price.
- If the scores for price, rounded to two decimal places, are also equal, a draw will take place under notarial supervision.

Quality: to be determined on the basis of:

Criteria relating to quality		Maximum points to be awarded
Q1.	Latency tracking and analysis	350
Q2.	System quality	350
Q3	Support and aftercare	100
P1.	Total price	200
<i>Total maximum value of the quality criteria</i>		1.000

Price: to be determined on the basis of the registration price as stated in the Price sheet:

Price		Price offered
P1	<i>Total price stated on the Price sheet</i>	€

5.1.3. Explanation of the sub-award criterion 'quality'

The quality criteria are described in more detail below, along with a description of how the tenders will be assessed on the basis of these quality criteria.

Q1: Latency tracking and analysis

Background and importance:

Extremely low roundtrip latency between user movement (tracking input) and visual output on the LED walls is crucial for this project. The system is used in a four-sided stereoscopic CAVE environment and controlled by a real-

time render cluster with Unreal Engine/nDisplay and Unity/middleVR. The visual experience directly depends on minimal delay between tracking, rendering, and LED output.

Purpose of this criterion:

The contracting authority wishes to distinguish bidders based on their proven ability to measure, analyze, and optimize this roundtrip latency in a comparable system environment.

Description:

The latency tracking system must meet the minimum requirements described in section 33–42 appendix 4 User Requirements Specification (URS). Points will be awarded for the extent to which the bidder exceeds these minimum requirements, provides verifiable evidence, and demonstrates proven integration in comparable projects.

Required documentation:

- Technical description of the measurement setup, including timing controller, IMU, photodiode;
- (Optional) Demonstrable reference or report of a previous project in which the measurement system was operational;
- (Optional) A short demo video of the measurement system in operation.

Assesment of the award criteria

Points (max=350)	Requirements met
350	Fully functional latency system beyond appendix 4 User Requirements Specification (URS) baseline with extensive documentation displaying a well thought out plan to measure systems latencies, ERP/audio/visual sync, and microsecond-level multi-stage analysis. And has been successfully used in at least one project of similar scale and technical complexity (proven with documentation).
200	Meets appendix 4 User Requirements Specification (URS) but limited extra features; documentation and references are present but not extensive.
0	Meets minimum as stated in appendix 4 User Requirements Specification (URS) only, no significant evidence or added value.

Q2: System quality

Description:

The system quality component assesses the overall technical performance, durability, and integration capability of the proposed solution. A maximum of 350 points can be awarded in this category, with points allocated across key sub-criteria that directly impact the usability, reliability, and longevity of the MPI VR-LAB upgrade.

This evaluation covers the visual quality of the LED walls, rendering capabilities, and the ability to deliver consistent high-fidelity output under demanding conditions. It also considers the system’s maintainability, upgradeability, and software compatibility, ensuring long-term adaptability without vendor lock-in. Additional

factors include audio quality, noise control, and compliance with the laboratory's operational requirements.

Bidders are encouraged to provide verifiable evidence, technical documentation, and relevant references to support their claims in each sub-category.

Assessment of the award criteria:

Points (max=350)	Requirements met
350	The system fully meets all annex 4 User Requirements Specification (URS) and provides substantial added value beyond the baseline, including: - End-to-end latency <160ms (Shutter glass movement to visible movement on screen) - Spare parts availability guarantees, ≥10% spare LED panels, ≥5% spare I/O cards, ≥5% spare power supplies.
200	The system meets all annex 4 User Requirements Specification (URS) and provides some evidence of added value, including at least: - Rendering performance at 3K to 4K/120Hz with complex Metahumans, Nanite, Lumen UE5.5 scenes. - End-to-end latency 160ms to 180ms (Shutter glass movement to visible movement on screen) - Spare parts availability guarantees, <10% spare LED panels, <5% spare I/O cards, <5% spare power supplies
0	The system meets the minimum annex 4 User Requirements Specification (URS) only, with little or no added value beyond baseline. Upgradeability and spare part guarantees are minimal. - Rendering performance at 3K /120Hz with complex Metahumans, Nanite, Lumen UE5.5 scenes.

Q3: Support and aftercare

Description:

The bidder demonstrates the ability to provide high-quality technical support, maintenance, and training. Special value is placed on:

- Response time for technical failures
- Possibility of immediate hardware replacement
- Availability (during working days and possibly beyond)
- Quality and completeness of training offerings
- Support for software updates of game engines and system drivers for 2 years
- Broken LED panels repaired without additional cost

Required documentation:

- Service Level Agreement

Assessment of the award criteria:

Points (max=100)	Requirements met
100	Excellent support, evidenced by SLA: - Initial response time: ≤4 hours during helpdesk hours. - Remote resolution time: ≤2 working days for software-related issues. - Pixel warranty to ISO 9241-307 Class 0 or 1 pixel defect standards, meaning zero defective pixels (dead, stuck, bright) are acceptable. - Any defective pixel that occurs during the warranty period will result in free repair or replacement of the affected panel. - ≥3-year full system warranty, LED repair at no cost.
70	Good support, evidenced by SLA: - Initial response time: ≤6 hours during helpdesk hours. - Remote resolution time: ≤3 working days for software-related issues. - Pixel warranty to ISO 9241-307 Class 2 - 3-year full system warranty, LED repair at no cost.
50	Adequate support, evidenced by SLA: - Initial response time: ≤8 hours during helpdesk hours. - Remote resolution time: ≤4 working days for software-related issues. - Pixel Warranty to ISO 9241-307 Class 3 - 2-year full system warranty, LED repair at no cost.

5.1.4. Explanation of the sub-award criterion price

The price will be assessed based on the total tender price. A linear scale will be used to calculate the price score. This means that the closer the tenderer's price is to Pmax, the more points the tenderer will receive in relation to the maximum number of points. The formula used for this is:

$$\text{Tenderer's price score (Pi)} = \text{Maximum score} * ((\text{Pmax}-\text{Pi})/(\text{Pmax}-\text{Pmin}))$$

Where:

- Pi: the price submitted by the Tenderer
- Pmin: the lowest possible tender price
- Pmax: the maximum tender price (no points outside the bandwidth)
- Maximum score: the maximum number of points that can be achieved for price (200 points)

Pmax is € 1.300.000,00 excluding VAT

Pmin is € 1.000.000,00 excluding VAT

Example

Offered price	Score
€ 1.000.000,00	200
€ 1.050.000,00	166,67
€ 1.120.000,00	120
€ 1.250.000,00	33,33
€ 1.300.000,00	0
€ 1.310.000,00	Excluded from further participation

If a registration price exceeds Pmax, the Registration will be excluded from further participation. Submitting a registration price lower than Pmin will not result in higher points.

All prices and rates stated must be in euros, excluding VAT. The prices and rates you offer must include all other taxes and/or levies. Prices are quoted to two decimal places.

All numbers and figures included in Appendix 3 are indicative, based on past data. No rights can be derived from this, and deviations in the realisation may occur.

The tenderer shall state the prices requested in Appendix 3, Prices, sign this appendix in a legally valid manner and enclose it with their tender. Tenderers shall upload the fully completed and legally valid signed Appendix 3, Prices, as an .xls(x) and .pdf file.

Submitting an unrealistic or manipulative tender may result in exclusion:

- Tenderers may not submit prices (per item/unit) that manipulate or disrupt the award system.
- Tenderers must offer a realistic price per item/unit. The following prices are presumed to be unrealistic:
 - negative prices;
 - prices of 0 euros;
 - abnormally low prices.

If prices that are considered unrealistic as described above are used in the tender, the tenderer must provide detailed reasons why they are not unrealistic. The tenderer must substantiate this with evidence. If the contracting authority considers this explanation to be insufficient, it will ask the tenderer to provide further clarification. If the contracting authority remains of the opinion that the prices are unrealistic, the tender will be deemed invalid.

Tenderer must submit, together with the quotation, a detailed overview specifying for each item the item number, product description, unit price excluding and including VAT, and the applicable VAT percentage. The overview must be provided in PDF format.

5.2 Award procedure

All tenderers will receive written notification of the award decision. This notification does not constitute acceptance of the tenderer's tender, and therefore no agreement is concluded as a result of this provisional award decision.

Tenderers whose tenders have been rejected will receive the reasons for the rejection in the written notification of the award decision. This notification shall state the name(s) of the tenderer(s) who submitted the most economically advantageous tender based on the best price-quality ratio, as well as the characteristics and advantages of the winning tender(s) compared to their own tender.

Objections to the rejection must be made in accordance with the provisions of Part B, point 4.