

## Answers – Information Memorandum I

| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Concerns   |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1.       | Draft Contract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Annex 1-10 |
| Question | In the contract, there is reference to Annex 1-10 which we can not find with the documents. Could you please share these files? Secondly, in Appendix 5, page 4 Section 9: Can operating instructions/ manuals be supplied in English only?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |
| Answer   | <p>The references to Annex 1-10 in the contract are mainly documents that will be added to the contract after the award decision, such as the price sheet. In the following break-down we'll show what the Annex is for and when Supplier needs to provide these.</p> <p><b>Annex 1 Specification VR-Lab (User Requirements Specification – URS)</b><br/>This is the same URS as Annex 4 of the tender documents. This will be added to the contract, after any minor changes have been made after the Memorandum of Information.</p> <p><b>Annex 2 Contact Person(s)</b><br/>This document is added after the award decision and shows alle the necessary contact persons for Supplier and Buyer.</p> <p><b>Annex 3 Milestone Plan and Schedule</b><br/>This document is added after the award decision. Supplier needs to make a Milestone Plan and Schedule for delivery and installation, which will be added to the contract. This will be part of the verification process after the award decision.</p> <p><b>Annex 4 Price Sheet</b><br/>This document is the same as appendix 3 – price sheet of the tender documents. The filled in version of this document will be added to the contract.</p> <p><b>Annex 5 Acceptance Test/Acceptance Form</b><br/>This document is the signed version of appendix 7 of the tender documents and will be added to the contract as appendix.</p> <p><b>Annex 6 Contractor's offer [date]</b><br/>This document will be added after the award decision and is the same as appendix 6 to be added by tendered as stated in paragraph 2.3 method of submitting tenders in tenderdocuments.</p> <p><b>Annex 7 Advance Payment Guarantee; Bank Guarantee</b><br/>Supplier needs to hand this document over after the award decision, and will be part of the verification process. In case Supplier can not provide MPI with the Advance Payment Guarantee, Supplier will be excluded.</p> <p><b>Annex 8 – License Terms Software</b><br/>Appendix 8 refers to the license terms issued by the rights owner of the software (e.g., Microsoft, IBM, or any other third-party software vendor). As stated in Article (5), these license conditions apply exclusively with regard to the rights of use of the software.</p> <p>Since the contracting authority are not the owner of the software and do not provide any license terms ourselves, Appendix 8 must be supplied by Tenderer. Tenderer is responsible for providing the applicable license conditions of the software owner whose products they propose to deliver.</p> <p><b>Annex 9 Data Processing Agreement</b><br/>This document is added to the tender documents. This may or may not become applicable,</p> |            |

|          | <p>depending on how the process functions and how data is shared. It will only be applicable in cases where data is exchanged.</p> <p>Annex 10 Maintenance contract<br/>Appendix 10 refers to the Service Level Agreement (SLA) that contracting authority expects to receive and finalize after contract award. General terms and conditions are already addressed in Article 1 (2.3), and therefore do not need to be repeated or submitted under Appendix 10.</p> <p>The instructions/manuals as stated in Appendix 5, page 4 Section 9 of the contract, can be provided in English only.</p>                                                                                                                                                                                                                                               |                          |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Concerns                 |
| 2.       | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.3 Payment arrangements |
| Question | <p>Tenderer requests payment against milestones with 50% advance payment on signing of contract. (% is negotiable). Thereafter payment on milestones delivered within 30 days. ( Design package submitted- 15%. Equipment delivery to site - 25%. Acceptance of installation - 10%. Tenderer does not use bank guarantees. Is this acceptable?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
| Answer   | <p>As described in the contract, payments as specified in a)b) can only be made with a bank guarantee. This is due to our special financing structure; we are financed exclusively from public funds, which are subject to guidelines and conditions.</p> <p>When preparing your quotation, please consider the possible costs and include them in the total quotation price. No subsequent recalculation is planned.</p>                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Concerns                 |
| 3.       | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | § 10.2                   |
| Question | <p>"Insofar as the contractor's background is necessary for the exploitation of the contractual services, the contractor hereby grants the client a simple, perpetual and non-transferable right of use to this background."</p> <p>Tenderer's End User Licence (EULA) to be signed by End User to have permission to access Tenderer's IP/software. EULA terms supercedes all other IP/software terms pertaining to Tenderer's IP/Software.</p>                                                                                                                                                                                                                                                                                                                                                                                               |                          |
| Answer   | <p>EULA will be part of Appendix 7. This is ok.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Concerns                 |
| 4.       | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | § 12.2                   |
| Question | <p>"In the event that any claims are established and asserted against the Client on the basis that the Works infringe an intellectual property right or other rights of third parties, the Contractor shall fully indemnify the Client against all third-party claims on that basis, including claims for the compensation of legal costs associated therewith. If a limitation of liability has been agreed under this Contract, it shall not apply in this regard"</p> <p>We request insertion of "Provided, however, the Parties hereby acknowledge Contractor's indemnity obligations pursuant to this section shall not apply to the extent any claim, damage, loss or expense is attributed to the gross negligence or intentional misconduct of any Indemnity" Alternatively: Tenderer requests Indemnity capped to contract value.</p> |                          |

| Answer   | The question is not understandable and the need for the change. If the damage was caused by Client, Contractor is not liable. This is an ordinary clause and the same clause must be find in the licence agreement, Client does accept.                                                                                                                                                                                                                                                           |                |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Concerns       |
| 5.       | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | § 14.4         |
| Question | <p>“Contractor shall grant the Client the non-exclusive, irrevocable and geographically unrestricted right of use to use the software upon conclusion of the Contract”</p> <p>It's not irrevocable, it is contingent on the purchase of the license and support agreement. Is this acceptable?</p>                                                                                                                                                                                                |                |
| Answer   | Yes. This is acceptable. Please compare the wording of §14.4: “Insofar as no other intended use is agreed in this Contract,.....”. § 14.5 takes precedence over § 14.4.                                                                                                                                                                                                                                                                                                                           |                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Concerns       |
| 6.       | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | § 15.1         |
| Question | <p>“Notwithstanding any further rights under statute, the Client shall have the right, at its choice, to either rescind from this Contract without having to observe a notice period or to terminate this Contract if the final acceptance cannot be successfully completed at the latest 3 months after the end date agreed under § 6(2) or if a defect reported after the final acceptance...”</p> <p>Tenderer requests a notice period of 30 days for client to rescind from this contract</p> |                |
| Answer   | Ok, although it is not necessary. Dates of milestones can be planned in such a way, that the final acceptance cannot be successfully complete at the latest 3 months after the end date agreed under § 6 (2).                                                                                                                                                                                                                                                                                     |                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Concerns       |
| 7.       | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | § 16.1         |
| Question | <p>“Contractor shall be liable in particular for all damages caused to legal interests of the Client.”</p> <p>We do not and can not accept liability for MPI's use/misuse of the system causing damage. The systems must conform to the client's own data protection standards and it is incumbent on them to ensure this.</p>                                                                                                                                                                    |                |
| Answer   | Customer is not liable, if the damage was caused by the Client. If only client is responsible for its own data protection standards, does depend on how the software work which is used. If the software owner is liable for data breaches to Customer, this is sufficient enough for Customer.                                                                                                                                                                                                   |                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Concerns       |
| 8.       | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Requirement 11 |
| Question | Who is responsible for testing the synchronization of the LED walls with the high-speed camera test? Is this on Tenderer or MPI? How do we demonstrate that we have met this criterior? Are you looking for Tenderer to create a framework for this testing?                                                                                                                                                                                                                                      |                |
| Answer   | MPI provides and operates the high-speed camera (240fps not 1000!).                                                                                                                                                                                                                                                                                                                                                                                                                               |                |

|          | <p>The Tenderer is responsible for delivering a system that is frame-synchronized and for supporting MPI during the test.</p> <p>No custom test framework is required—MPI will verify sync using high-speed video analysis during Site Acceptance Tests.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Concerns       |
| 9.       | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Requirement 27 |
| Question | Does this point suggest compatibility or hardware supply?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |
| Answer   | Compatibility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Concerns       |
| 10.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Requirement 18 |
| Question | What is the accurate depth perception? Can this be defined?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |
| Answer   | <p>Accurate depth perception means that the stereoscopic imagery is displayed in such a way that the user experiences a stable and correct 3D effect.</p> <p>This includes:</p> <ul style="list-style-type: none"> <li>• correct left/right eye separation</li> <li>• accurate geometric alignment of LED surfaces</li> <li>• uniform brightness/colour</li> <li>• frame-synchronized playback across all walls</li> </ul> <p>MPI will verify this using a stereo test scene during the Site Acceptance Test, we have 10+ years' experience working with a stereoscopic cave and know when something is off.</p> <p>No numerical value is required; it is a functional requirement ensuring the LED Cave provides a stable and correct 3D visual experience.</p> |                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Concerns       |
| 11.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Requirement 28 |
| Question | Does this point suggest compatibility or software supply?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |
| Answer   | MiddleVR license should be included.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Concerns       |
| 12.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Requirement 47 |
| Question | Tenderer isn't responsible for these platforms. Is it acceptable that updates outside Tenderer's control such as Unity/ Unreal/ MiddleVR are only installed after support from external vendors?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |
| Answer   | <p>Yes, but the following is important to us: - No custom/proprietary modifications to the engines or drivers may be required for running the system during SAT.</p> <p>We don't want to end up with a system that only runs a custom build of for example Unreal Engine 5.4. It's important that we can update Engines when we want to and don't rely on custom engine builds.</p>                                                                                                                                                                                                                                                                                                                                                                              |                |

| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Concerns                  |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 13.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Requirements 44 / 49 / 50 |
| Question | Is this an on-site warranty or return-to-base warranty? Our assumption would be that manufacturer warranty conditions regarding hardware would be passed on to MPI. We request clarification on line items 44/ 49/ 50 on how these align? Is logistical cost covered in this? And returning the hardware to manufacturer, or is MPI prepared to pay for this?                                                                                                                                                                                                                 |                           |
| Answer   | The manufacturer's warranty terms for hardware can be passed on to MPI.<br><br>MPI can bear the logistics costs for one way shipment and manufacturer pays return.                                                                                                                                                                                                                                                                                                                                                                                                            |                           |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Concerns                  |
| 14.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Requirement 58            |
| Question | What is connecting and smoking? And what is the commonly used 'standard'?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |
| Answer   | This is a mistake in the document. Can be ignored! The requirement is as follows:<br><br>"MPI will require a SAT (Site Acceptance Test) at MPI's location, performed by Tenderer. During this SAT, the Tenderer shall carry out the procedure as described in Annex 8, in order to demonstrate that the delivered system functions correctly and meets the required specifications."                                                                                                                                                                                          |                           |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Concerns                  |
| 15.      | Appendix 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Site acceptance           |
| Question | "High-speed camera ( $\geq 1000$ fps) or photodiode + scope (supplied by MPI)" - will this be made available to suppliers during the procurement phase                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |
| Answer   | No. During the procurement phase, MPI does not provide suppliers with access to its equipment.<br>The high-speed camera (240 not 1000!) or photodiode + oscilloscope will be used by MPI during the Site Acceptance Test (SAT) after installation by the awarded supplier.<br><br>Suppliers are not expected to use MPI equipment during the tender procedure. They only need to demonstrate, in their proposal, that their system supports proper frame synchronization and can comply with the requirement.<br>The actual verification will be performed by MPI during SAT. |                           |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Concerns                  |
| 16.      | Appendix 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Site acceptance           |
| Question | Class 1 sound meter (supplied by MPI)" - will this be made available to suppliers during the procurement phase.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |
| Answer   | No. During the procurement phase, MPI does not provide suppliers with access to its equipment.<br><br>The 45dB requirement is not a hard requirement. We want as little hardware that produces noise as possible to be present in the cave room, apart from the LED panels. We understand that, for example, the floor may require fans. This is not a problem! The 45 dB is a guideline — it would be great if we could get close to it.                                                                                                                                     |                           |

|          | <p>The soundmeter will be used by MPI during the Site Acceptance Test (SAT) after installation by the awarded supplier.</p> <p>Suppliers are not expected to use MPI equipment during the tender procedure.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Concerns        |
| 17.      | Appendix 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Site acceptance |
| Question | Performance - How will you measure this? Are we expected to develop this in the projects?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |
| Answer   | MPI will measure performance using the built-in frame-timing tools of the rendering engine (e.g. Unreal Engine nDisplay stat commands and Unity's Profiler), combined with MPI-authored logging scripts over a 1-hour run.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Concerns        |
| 18.      | Appendix 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Site acceptance |
| Question | Performance - When you say sustained is this based on the 2 second average?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |
| Answer   | <p>Yes. "Sustained" refers to behavior that persists beyond the 2-second rolling average window.</p> <p>In other words:</p> <ul style="list-style-type: none"> <li>Rolling 2-second average <math>\geq 50</math> Hz per eye</li> <li>A "sustained frame drop" means the effective framerate stays <math>&lt;45</math> Hz per eye for longer than that 2-second period.</li> </ul> <p>So:</p> <ul style="list-style-type: none"> <li>Short dips (e.g., 200–300 ms) are acceptable as long as the 2-s rolling average remains <math>\geq 50</math> Hz.</li> <li>Longer, persistent dips (e.g., several seconds of <math>\sim 30</math> Hz) count as "sustained" and therefore fail the requirement.</li> </ul> |                 |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Concerns        |
| 19.      | Appendix 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Site acceptance |
| Question | VICON - Is it acceptable to demonstrate these numbers with a different brand tracker during submission and have MPI accept differing times with a VICON tracker if it doesn't perform as well – or are we expected to buy/rent a VICON during tender submission to be confident in this                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
| Answer   | It is not required for the Tenderer to buy or rent a Vicon system solely for submission testing. Demonstrations using a different brand tracker are acceptable for the purpose of submission, as long as the Tenderer documents expected performance with a Vicon system. MPI understands that measured timings may differ when the final system is integrated with Vicon hardware.                                                                                                                                                                                                                                                                                                                          |                 |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Concerns        |
| 20.      | Appendix 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Site acceptance |
| Question | Pixel health - Is this to cover the active screen or all spares to?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| Answer   | The pixel-health requirement applies only to the active installed LED screens . Spare LED modules must meet the manufacturer's standard warranty criteria, but the "no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |

|          | uncorrected bright dots or cluster defects beyond warranty” requirement is not intended to impose additional stricter conditions on all spare modules.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Concerns                        |
| 21.      | Appendix 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Site acceptance                 |
| Question | Pixel health - Define cluster defects please                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |
| Answer   | <p>A group of two or more neighboring pixel defects that occur in close proximity, forming a visible patch rather than isolated single-pixel failures, when viewed from a 1m distance.</p> <p>A cluster defect includes:</p> <ul style="list-style-type: none"> <li>• Two or more adjacent bright pixels,</li> <li>• Two or more adjacent dark/dead pixels, or</li> <li>• A mix of bright and dark failed pixels,</li> </ul> <p>within a small local area (radius of 1–3 pixels, depending on manufacturer policy), .</p>                                                                                                                                                                                                                                       |                                 |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Concerns                        |
| 22.      | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Revised Contract Clarifications |
| Question | Tenderer request payment against milestones with 50% advance payment on signing of contract. (% is negotiable). Thereafter payment on milestones delivered within 30 days. ( Design package submitted- 15%. Equipment delivery to site - 25%. Acceptance of installation - 10%. Tenderer does not use bank guarantees. Is this acceptable?                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |
| Answer   | See answer on question 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Concerns                        |
| 23.      | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Revised Contract Clarification  |
| Question | <p>10.2 "Insofar as the contractor's background is necessary for the exploitation of the contractual services, the contractor hereby grants the client a simple, perpetual and non-transferable right of use to this background.</p> <p>Tenderer's End User Licence (EULA) to be signed by End User to have permission to access Tenderer's IP/software. EULA terms supercedes all other IP/software terms pertaining to Tenderer's IP/Software.</p>                                                                                                                                                                                                                                                                                                            |                                 |
| Answer   | See answer on question 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Concerns                        |
| 24.      | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Revised Contract Clarification  |
| Question | <p>12.2 "In the event that any claims are established and asserted against the Client on the basis that the Works infringe an intellectual property right or other rights of third parties, the Contractor shall fully indemnify the Client against all third-party claims on that basis, including claims for the compensation of legal costs associated therewith. If a limitation of liability has been agreed under this Contract, it shall not apply in this regard"</p> <p>We request insertion of "Provided, however, the Parties hereby acknowledge Contractor's indemnity obligations pursuant to this section shall not apply to the extent any claim, damage, loss or expense is attributed to the gross negligence or intentional misconduct of</p> |                                 |

|          | any Indemnity"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|          | Alternatively: Tenderer request Indemnity capped to contract value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
| Answer   | See answer on question 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Concerns                       |
| 25.      | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Revised Contract Clarification |
| Question | <p>"14.4 Contractor shall grant the Client the non-exclusive, irrevocable and geographically unrestricted right of use to use the software upon conclusion of the Contract"</p> <p>It's not irrevocable, it is contingent on the purchase of the license and support agreement. Is this acceptable?</p>                                                                                                                                                                                                                                                                  |                                |
| Answer   | See answer on question 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Concerns                       |
| 26.      | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Revised Contract Clarification |
| Question | <p>15.1 Notwithstanding any further rights under statute, the Client shall have the right, at its choice, to either rescind from this Contract without having to observe a notice period or to terminate this Contract if the final acceptance cannot be successfully completed at the latest 3 months after the end date agreed under § 6(2) or if a defect reported after the final acceptance..."</p> <p>Tenderer request a notice period of 30 days for client to rescind from this contract</p>                                                                     |                                |
| Answer   | See answer on question 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Concerns                       |
| 27.      | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Revised Contract Clarification |
| Question | <p>"16.1 Contractor shall be liable in particular for all damages caused to legal interests of the Client." We do not and cannot accept liability for MPI's use/misuse of the system causing damage. The systems must conform to the client's own data protection standards and it is incumbent on them to ensure this.</p>                                                                                                                                                                                                                                              |                                |
| Answer   | See answer on question 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Concerns                       |
| 28.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Revised Clarifications         |
| Question | <p>5: How will you isolate the LED screen from other noise sources to test this? And can all rack equipment in the neighboring room be excluded from this or is the supplied expected to manage all sound isolation form neighbouring areas?</p>                                                                                                                                                                                                                                                                                                                         |                                |
| Answer   | <p>The hardware rack with PCs and the LED processor etc. will be located in a separate technical room. This room is not audible from the center of the CAVE, and is therefore excluded from the 45 dB noise requirement.</p> <p>Inside the CAVE room itself, no additional hardware will be present other than the LED structure. The Tenderer is not expected to manage noise isolation from neighboring rooms; the requirement applies only to the LED installation and its associated cooling/noise-emitting components that are physically inside the CAVE room.</p> |                                |

| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Concerns               |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 29.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Revised Clarifications |
| Question | 11: who is responsible for testing the synchronization of the LED walls with the high-speed camera test? Is this on Tenderer or MPI? How do we demonstrate that we have met this criteria? Are you looking for the supplier to create a framework for this testing? Are you willing to travel to the LED factory to verify this on site and will you cover costs for this?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |
| Answer   | See answer on question 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Concerns               |
| 30.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Revised Clarifications |
| Question | 18: What is accurate depth perception? Can this be defined?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |
| Answer   | See answer on question 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Concerns               |
| 31.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Revised Clarifications |
| Question | 20. Define calibration please                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
| Answer   | <p>Calibration refers to the initial geometric, color, and brightness alignment of the LED panels so that all walls and the floor behave as one seamless display surface.</p> <p>This includes:</p> <ul style="list-style-type: none"> <li>• Geometry calibration:<br/>Ensuring that all LED modules are mechanically aligned so that edges match and there are no visible steps, gaps, or misalignments.</li> <li>• Colour and brightness calibration:<br/>Matching white balance, gamma, brightness, and colour across all modules and all CAVE walls using the LED controller's calibration data (factory calibration and on-site adjustment).</li> <li>• Uniformity calibration:<br/>Ensuring consistent luminance and chromaticity across the full LED surface, compensating for individual module variances.</li> <li>• Controller calibration data:<br/>Uploading the factory-provided calibration files to the LED processor and ensuring proper per-panel correction (e.g., brightness maps, chroma correction, scan mapping), so all tiles respond identically.</li> </ul> <p>The requirement "automatic calibration or no need for recalibration" simply means:</p> <ul style="list-style-type: none"> <li>• MPI expects a stable system that does not require periodic colour/brightness recalibration</li> <li>• MPI does not expect the supplier to provide proprietary calibration rigs or complex workflows</li> <li>• The system must remain uniform without user intervention, except rare module replacements</li> </ul> |                        |

| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Concerns               |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 32.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Revised Clarifications |
| Question | 27: Does this point suggest compatibility or hardware supply?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |
| Answer   | See answer on question 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Concerns               |
| 33.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Revised Clarifications |
| Question | 28: Does this point suggest compatibility or software supply?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |
| Answer   | See answer on question 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Concerns               |
| 34.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Revised Clarifications |
| Question | 47: Tenderer aren't responsible for these platforms. Is it acceptable that updates outside Tenderer's control such as Unity/ Unreal/ MiddleVR are only installed after support from external vendors?                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |
| Answer   | See answer on question 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Concerns               |
| 35.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Revised Clarifications |
| Question | 44/ 49/ 50: Is this an on-site warranty or return-to-base warranty? Our assumption would be that manufacturer warranty conditions regarding hardware would be passed on to MPI. We request clarification on line items 44/ 49/ 50 on how these align? Is logistical cost to be covered in this? And returning the hardware to manufacturer, or is MPI prepared to pay for this? The standard is client pays one way shipment and manufacturer pays return – going outside this will have cost implications At what point does the warranty start - most LED suppliers state from shipment date, is this acceptable or do you want the increased cost of extended warranty |                        |
| Answer   | See answer on question 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Concerns               |
| 36.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Revised Clarifications |
| Question | 51: Is online portal acceptable (as opposed to online and phone) for the first hour of the day In regards to on site intervention what do you expect for the following situations User replaceable spares – such as a LED panel Failure of components that don't have a spare (eg the LED processor – which will be too expensive to have a spare on site and have very low failure rates) or spares are back at the manufacturer being repaired (understand there should be enough spares...but what if there isn't)                                                                                                                                                     |                        |
| Answer   | <p><b>Helpdesk availability</b></p> <p>Yes — having only an online portal during the first hour of the day is acceptable, provided phone support starts at 10:00 CET and response-time requirements are met.</p> <p><b>On-site intervention expectations</b></p>                                                                                                                                                                                                                                                                                                                                                                                                          |                        |

|          | <p><b>1. User-replaceable spares (as defined in our URS)</b><br/>MPI can replace all spare parts listed in the URS ourselves:</p> <ul style="list-style-type: none"> <li>• spare LED panels</li> <li>• spare I/O cards</li> <li>• spare power supplies</li> </ul> <p>For failures covered by these on-site spares, no on-site visit is required. Remote support is sufficient.</p> <p><b>2. High-value components without on-site spares (e.g., LED processor)</b><br/>MPI understands that these components can't be replaced easily. Longer replacement lead times from the manufacturer are acceptable.</p> <p><b>3. Spares temporarily at the manufacturer for repair</b><br/>The supplier should manage spare availability responsibly. If a rare component is under repair and temporarily unavailable, MPI understands that replacement may take longer; this does not violate the SLA as long as the diagnostic visit occurs within the agreed timeframe.</p> |                        |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Concerns               |
| 37.      | Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Revised Clarifications |
| Question | 58: What is connecting and smoking? And what is the commonly used 'standard'?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |
| Answer   | See answer on question 14.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Concerns               |
| 38.      | Appendix 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| Question | We wish to submit a tracked and commented version of the contractual document (Appendix 5) for your review, prior to submission. There is no option to do this on the portal, could you please advice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Answer   | Apart from the points that have been clarified here with the questions, the contract will only be amended in the sections that need to be completed. An open version will not be available via TenderNed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Concerns               |
| 39.      | x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Software Licenses      |
| Question | Regarding software, multiple packages are mentioned, like Unreal, Unity, Tracker, MiddleVR and others. Does MPI deliver the licences for this?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |
| Answer   | Unreal – Yes (free)<br>Unity – Yes<br>Vicon Tracker – Yes<br>MiddleVR – No<br><br>Others like Adobe suite, Autodesk programs - Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Concerns               |
| 40.      | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | x                      |

| Question | As already mentioned during yesterday's visit, we are wondering if a total height of the Cave of 2.5 m would be sufficient. The reason is that we have a cabinet size of 500 x 500 mm and therefore we can either provide a total height of 2.5 m or 3.0 m in total.                                                                                                                                                                                                                                                                      |                  |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Answer   | This is acceptable. The requirements specify a height of 2.55 m, but a deviation of approximately five centimeters, either above or below, is acceptable to the contracting authority.                                                                                                                                                                                                                                                                                                                                                    |                  |
| Nr.      | Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Concerns         |
| 41.      | x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Software license |
| Question | <p>I would also like to know if we can propose two main tenders including two different suppliers for the client to choose. The reason is that we want the client to choose which product they prefer as they vary in the specifications and also pricing. For example: we can provide a LED product with 600 nits or alternatively with 800 nits. The pixel pitch varies from 1.27 to 1.25 mm.</p> <p>For our understanding it makes sense to propose both options separately and leave it to the client which solution they prefer.</p> |                  |
| Answer   | This is not in line with the tender procedure. The Tenderer has to submit one single offer, representing what they consider to be the most compliant and competitive offer in accordance with the requirements set by the contracting authority.                                                                                                                                                                                                                                                                                          |                  |