# *ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract title: Supply of equipment: Data migration and aggregation tool and web-portal with digital makerspace and tools p 1/**

**Publication reference:** **RORS00227 – LPSRBVMMI – TD02**

**Columns 1-2 should be completed by the contracting authority**

**Columns 3-4 should be completed by the tenderer**

**Column 5 is reserved for the evaluation committee**

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

* Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
* Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words ‘compliant’ or ‘yes’ are not sufficient)
* Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offeredspecifications.

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| **1** | **Data migration and aggregation tool**  The Tender will have to offer a ready-to-use digital archive platform which provides free access to digitized cultural, scientific, and artistic content. The solution has to enable intuitive search and has to give possibility of continuous expansion with specialized databases on the request of the Contracting Authority, for example:  • A literary database with information on authors and their works  • An art database featuring visual artists and their creations  • Database on places and their heritage  • Other possibilities for media content  The platform has to give possiblity to include an evergrowing digital libraries and periodicals, supporting the publication of books, artist profiles, a digital photo library, and a digital folklore archive.  The Built on a PHP-based Drupal 9 backend, the system has to leveragee individually developed Drupal modules for flexible content management. All new developments have to be fully compatible with the existing backend structure at the Contracting Authority, ensuring seamless data migration and uninterrupted service.  Key features and maintenance tasks have to include:  • Regular database cleaning and optimization  • Updating software packages and security protocols  • Proactive server monitoring to prevent issues  • Performance tuning to meet growing user demand  • Configuration, and deployment of new servers as needed  • Secure data migration with minimal downtime  • Implementation of backup and rapid recovery solutions  • Infrastructure optimization for stability and scalability  • Structured archival and reactivation of existing content, ensuring ongoing access and fast retrieval  • Automated content renewal and categorization aligned with platform improvements  Ongoing monthly maintenance covers:  • Core module updates and security patches |  |  |  |
|  | • Monthly security audits  • Performance testing and acceleration features  • Manual system reviews and quality assurance after each update  • Minor development tasks for continuous improvement  This out-of-the-box product has to be designed for seeking a robust, scalable, and secure digital archive solution, with comprehensive support for content management, digital asset handling, and long-term digital preservation using Drupal as the core platform.  OTHER INFORMATION:  The key features for the effective media management have to include:  • A centralized library for storing and organizing all media assets, supporting a wide range of file types and formats  • User-friendly media library interface for browsing, searching, filtering, and reusing assets, with options for grid or list views  • Support for multiple media types, such as images, audio, video, documents, and external media sources, with the ability to define custom asset types  • Drag-and-drop uploading and intuitive embedding of media into content, streamlining the content creation process  • Reusable media assets, allowing the same files to be used across different projects or content pieces  • Metadata tagging and management, enabling detailed asset descriptions, categorization, and advanced search capabilities  • Integration with third-party sources for easy embedding and management of externally hosted media  • Extensible and customizable workflows, allowing the system to adapt to specific organizational needs and support additional metadata fields or approval processes2  • Permission controls and user roles to manage access, editing, and sharing of media assets securely  • Automated backup, archiving, and version control features to ensure asset preservation and easy recovery  These features together will have to enable efficient, scalable, and secure management of digital media collections.  **Number of UI lanuages:** minimum 4 |  |  |  |
| **2** | **Web-portal with digital makerspace and tools**  **Portal description:**  Drupal modules for flexible content management. All new developments have to be fully compatible with the existing backend structure at the Contracting Authority, ensuring  seamless data migration and uninterrupted service.  Key features/Necessary options for:  • Regular database cleaning and optimization  • Updating software packages and security protocols  • Proactive server monitoring to prevent issues  • Performance tuning to meet growing user demand  • Configuration, and deployment of new servers as needed  • Secure data migration with minimal downtime  • Implementation of backup and rapid recovery solutions  • Infrastructure optimization for stability and scalability  • Structured archival and reactivation of existing content, ensuring ongoing access and  fast retrieval  • Automated content renewal and categorization aligned with platform improvements  Ongoing monthly maintenance covers:  • Core module updates and security patches  • Monthly security audits  • Performance testing and acceleration features  • Manual system reviews and quality assurance after each update  • Minor development tasks for continuous improvement  This out-of-the-box product has to be designed for seeking a robust, scalable, and secure digital archive solution, with comprehensive support for content management, digital asset  handling, and long-term digital preservation using Drupal as the core platform. Built on a PHP-based Drupal 9 backend, the system leverages individually developed.  **The Portal is to have the following features:**  **- Searching and browsing with facettes, timeline and map. The interface is to serve different predefined user groups: researchers, teachers, students, etc.**  **- Thematic collections on different topics**  **- Online registration for volunteers and online forms to contribute with data enrichment and digital content.**  **Number of UI lanuages:** minimum 4 |  |  |  |
|  | **Description of digital makerspace and tools**  Technical background:  - Keycloak authentication for admins (teachers, curators, volunteers)  - Kong API Gateway  - Database: Mongodb and Postgres SQL  - Browser independent and mobile view UI  Main features:  User authentication for admin function.  Creating teaching materials which can be:  - virtual exhibitions  - tour guides  Both can include quiz questions.  Admin functionality for virtual exhibitions:   * unlimited number of exhibitions * unlimited slides per exhibitions * admin (creator) can customise the colours, style and fonts of each exhibition * there are ready-to-use slide samples available (at least 6) * admin can edit the text with wysiwyg editor and upload any type of media (image, sound, video, 3D object) * within an exhibition, many routes and intersections can be created, meaning that the visitor has multiple options to watch the exhibition * there must be a topology view to help visitors navigate the application. The view should indicate the visitor’s location. * search box should assist the admin and also the visitor to look for specific slide in the exhibition. * the application saves all changes automatically, the admin can interrupt editing at any time * admin can publish finalized exhibitions to the Digital Makerspace website |  |  |  |
|  | Options for visitors:   * choose from the published exhibitions * switch between slide view and topology view   Admin functionality for the tour guides:   * unlimited number of locations, POI (point of interest) can be added * with metadata, GPS coordinates, media files * admin can edit the text with wysiwyg editor and upload any type of media (image, sound, video, 3D object) * QR codes can be downloaded to every POI * unlimited tours can be created by linking POI-s together * it it possible to generate a persistent URL to every rour * admin can customize the colours and the front screen of the web interface * admin can upload logos to customize the landing page of the tour guides * unlimited quiz questions can be edited within the tours   Options for the visitors:   * tour mode * game mode earning points by answering the quiz questions * team mode: competition between players   The makerspace and tools are to contain easy-to-use, web- based tools to create new, value-added digital content from the resources of the portal. Such digital content can be  - virtual exhibition,  - quiz games,  - teaching materials  - guided tours for mobile.  **Number of UI lanuages:** minimum 4 |  |  |  |
|  | **Comment:** all of the above systems will be installed to the servers in Senta at the premises of the Contracting Authority.  The installation, settin up a back-up solution and creating an operating maintenance documentation for the staff in Senta. The activities are to be part of the 1-year-long software support. |  |  |  |
|  | **After-sales service**: help-line included for at least 1 year |  |  |  |
|  | **Training:** 2-days/item |  |  |  |