



**1st Call for H.F.R.I. Research Projects
for the Support of Faculty Members and Researchers
and the Procurement of high-cost Research Equipment**

PROJECT TITLE

**CREATIVE MULTILINGUALISM: FROM PRACTICE TO
RESEARCH TO EDUCATION (MEinART)**

PROJECT NUMBER

HFRI-FM17-710

HOST INSTITUTION

UNIVERSITY OF THESSALY

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DELIVERABLE 30

REPORT

ON VIRTUAL LEARNING PLATFORM

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1. Introduction

This deliverable outlines the implementation, pedagogical, and technical evaluation of a virtual learning platform designed to facilitate online and blended educational activities for refugee women, in the framework of the MEINART project.

The virtual learning platform (<https://www.meinart-project.eu/elearning>) aims to provide a flexible, accessible, and engaging educational environment for refugee women. It was designed to host activities complementary to face-to-face activities of public pedagogy, implemented by the team of MEINART project. Key objectives of the online learning platform included improving learners' performance through interactive and self-paced study options, fostering collaboration between learners and facilitators, and enabling pedagogical innovation. The online learning platform operated from September 2022 to March 2024.

2. Selection of the E-Learning Platform to Customise

One of the goals of WP5 of the MEINART project was to **select an existing Learning Management System (LMS)** and customise it so as to support the requirements described in the Introduction. These requirements might be summarized in the following list:

- 1) Shared repositories
- 2) Shared documents edition
- 3) Shared calendar
- 4) Annotation of contributions
- 5) Surveys and rating tools
- 6) Flexible groups
- 7) Students belonging to different groups in different moments
- 8) Groups with different roles
- 9) Embedding of web content
- 10) Questionnaires in exportable/standard formats
- 11) Embedding of educational resources in standard formats
- 12) Sending suggestions, reminders, and other information
- 13) Integration of external tools via open interfaces.

Since all the MEINART project team members, from both GLML and the University of Thessaly, involved in the design and implementation of the learning activities, had previous experience with

the widely known **Moodle** (<https://moodle.org/>) LMS, the decision was made to use Moodle as the starting point of the development of the MEINART e-Learning Platform. Additionally, Moodle provides multilingual support which is an obvious advantage, given the objectives, scope and content of the MEINART project.

After the decision was made, two main development efforts were carried out to customise Moodle so as to fulfil the posed requirements to the MEINART e-Learning Platform:

- a) To integrate the *Glue!* architecture with the latest versions of Moodle
- b) To integrate Moodle with the VCP Platform being developed within WP5.

A prototype of the e-Learning Platform has been developed and set up using Moodle 3.9.1 (one of the most recent versions in 2022). A *Glue!* VLE adapter for this version of Moodle has been developed and connected to an installation of the implementation of the Glue! architecture. Finally, the resulting Platform has been integrated with the prototype of the MEINART VCP Platform using *Joomla!*.

3. Overview of the Key Functional Requirements and Main Use Cases

Based on best practices, the platform incorporated the following key functional requirements (using Moodle as a foundation):

- **VCP member:** a user with an account in the Virtual Community of practice that can also access the e-Learning platform (thanks to the integration carried out with Joomla!). It is important to underline that from the perspective of this section, a VCP member is also a student enrolled in the Moodle LMS that is part of the e-Learning Platform.
- **e-Learning Platform course manager:** a user with an account in the e-Learning platform that has the manager role in a course (e.g., a pilot designer or a teacher delivering the online learning module of a pilot). e-Learning Platform course managers can enrol students (and/or accept enrolment requests) in the courses they manage.
- **e-Learning Platform Manager:** a user with an account in the e-Learning platform that is able to create/modify/delete courses and enrol students in any of the courses already created in the e-Learning Platform.
- **e-Learning Platform Course Student:** a user with an account in the e-Learning platform that is enrolled in one or several of the courses of the platform and that take part in their learning activities.

4. Implementation, Pedagogical Evaluation and Technical Assessment

Implementation of the platform demonstrated both high potential and specific challenges based on user experience data:

- **Impact on Engagement:** Blended learning models—combining face-to-face with online elements—often yield higher engagement compared to fully remote courses. Active interaction is critical to combat the feeling of isolation.
- **Student Experience:** While students find the platform important, they sometimes lack understanding of its full potential due to limited initial training. Over 50% of users generally prefer a hybrid approach over fully virtual or fully in-person.
- **Effective Strategies:** Utilizing gamification (badges, points) and structured, well-organized course content enhances student motivation.

The **technical evaluation** of the platform indicates satisfaction of the following performance trends:

- **Performance Metrics:** the platform offered strong content creation tools, effective multimedia integration, and robust assessment capabilities.
- **Accessibility:** the platform prioritised mobile device accessibility and compliance with privacy regulations.
- **Standards Compliance:** Platform satisfactorily adhered to an international standard such as SCORM to ensure content interoperability.

During the lifetime of the project MEINART, **15 modules** were created on the online learning platform:

- Human Rights
- Asylum procedure
- Social and Economic aspects of migration
- The refugee phenomenon
- Inequality and discriminations
- Stress and trauma
- Cultural Mediation
- Linguistics and Language Acquisition
- Multilingual initiation to languages 1
- Multilingual initiation to languages 2
- Multilingual initiation to languages 3

- Greek 1
- Greek 2
- Greek 3
- Greek 4,

with the participation of **78 students – refugee women** in total, **and 23 instructors**.

As far as the **website statistics** are concerned, **meinart-eu** counted:

1.041 unique visitors,

3.291 sessions,

3 min 21 sec average of time spent per session, and

5.283 page views

on 31 January 2026.