

PROJECT OUTPUT T3.1
ESTABLISHMENT OF A TRANSNATIONAL COOPERATION NETWORK
TO JOINTLY TACKLE THE ENVIRONMENTAL VULNERABILITY FROM
SEISMIC RISK

WPT3 – Innovative training packages for enhancing skills and expertise for tackling seismic vulnerability

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Document Information

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Project URL	https://adriseismic.adrioninterreg.eu/

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Description of the deliverable (3-5 lines)	The report will focus on the interest generated in the project partners and universities towards environmental vulnerability issues through the realization of a Moodle platform that will increase knowledge of the organization joining the network
Key words	Transnational cooperation, network, seismic risk, Moodle platform

Document history

NAME	DATE	VERSION	DESCRIPTION
Moodle statistics	28/12/2022	0.1	First draft
Report on the transnational cooperation	27/04/2023	1.0	Final report signed by project partners and additional partners of the network

Definitions & Acronyms

Acronym	Full name
CA	Consortium Agreement
PP	Project Partner
LP	Lead Partner
WPT	Technical Work Package

1 Introduction

ADRISEISMIC overall objective is to exchange and systematize knowledge and practices in tackling the reduction of the seismic vulnerability of the built environment in PPs countries, to harmonize planning and management of emergencies after seismic events and the post-earthquake phase, in order to drastically improve the approaches for dealing with and to secure the reduction of seismic vulnerability among ADRION regions. Among others, particular attention is posed to the enhancement of skills and knowledge of all the actors involved in the seismic retrofitting process (WPT3) since there is a lack of specific and highly skilled figures to properly deal with seismic-related issues in the built-up environments.

Four training packages have been developed in the project framework addressing four macro-profiles (practitioner, civil servants, building workers and volunteers) and contents have been validated by PPs through the organization of four local workshops with key stakeholders in the field. The training packages are stored on the ADRISEISMIC Moodle platform, that is designed not only as a comprehensive repository of the training materials developed in the project, but also as a tool able to foster and enhance transnational cooperation.

Establishing a transnational cooperation network to jointly tackle the environmental vulnerability from seismic risk is one of the ADRISEISMIC project outcome to be achieved within WPT3. Project partners and associated partners catalyzed the attention towards the topic of environmental vulnerability issue through the setting-up of the Moodle platform that will increase the knowledge of the various organisations joining the network.

In the following chapters the description of the output is provided (Chapter 2) with a specific focus on the description of the tool to be used by the network (chapter 3) and activities to be developed (Chapter 4). Finally, the network membership is presented (Chapter 5).

2 Overall goal of the network

In the framework of ADRISEISMIC project and thanks to the transnational cooperation, there has been the possibility to homogenize the training offer in the ADRION territories, having first identified those skills and competences that are relevant for all the actors involved in the seismic retrofitting processes and, secondly, contributing to the enhancement of those competences through the development of the training courses.

The overall goal of the network is to increase knowledge of the organizations who accepted to join in order to tackle environmental vulnerability issues, maintaining as focal point the seismic risks.

3 Description of the used tool: the ADRISEISMIC Moodle platform

Transnational cooperation has been fostered and enhanced since the beginning of the project, when the ADRISEISMIC Moodle Platform has been designed and set-up. It has been conceived not only as a tool for uploading the training materials developed through the project (WPT3) to be shared with the stakeholders and the broad public, but also an entry point to collect the interest from various stakeholders to be part of the project transnational cooperation network.

As already reported in the Deliverable T3.2.5, the Moodle platform has been installed by the University of Crete and it is hosted in their data center. It is available at the link <https://adriseismic.nhmc.uoc.gr/> and includes all the training packages that have been developed within the project, addressing:

- Practitioners
- Building Workers
- Civil Servants
- Volunteers

The training packages are aimed at reducing the existing knowledge gap in the ADRION area related to seismic vulnerability reduction addressing the needs of all the actors involved in the seismic retrofitting process: from building workers to practitioners, from civil servants to volunteers’ groups.

In addition, being the platform multilingual, there are no linguistic barriers and limitation for everyone who wants to learn through online courses, especially if located in the ADRION area. In fact, beside English, the syllabi of all the courses are available in all the languages of the project namely:

- Italian
- Croatian
- Albanian
- Serbian
- Slovenian
- Greek.

Only Bosnian is missing among the languages that are spoken in the ADRION area.



Figure 1 – First page of ADRISEISMIC Moodle Platform

The possibility of choosing the language, is a key feature to foster the transnational cooperation. Thus, it allowed all the PPs to tailor the contents of the lessons to their local context, with the possibility to improve

the accessibility of the tool and eliminate as many barriers as possible for the development of skills related to the reduction of seismic risk.

The Italian page is the only one containing all the developed materials since the various training packages have been fully prepared to be tested at local level. Therefore, complete cycle of slides and video-lessons have been produced and uploaded on the Moodle. An excerpt of the Italian section is shown in Figure 2. However, some topics have been considered of great importance for the project scope and not dependent to the local specificities. For those, video-lessons have been produced in all the languages.

More information about the contents of the training courses is available in the Deliverable T3.2.1 – Training package for practitioners, T3.2.2 – Training package for civil servants, T3.2.3 – Training package for building workers and T3.2.4 – Training toolkit for volunteers.

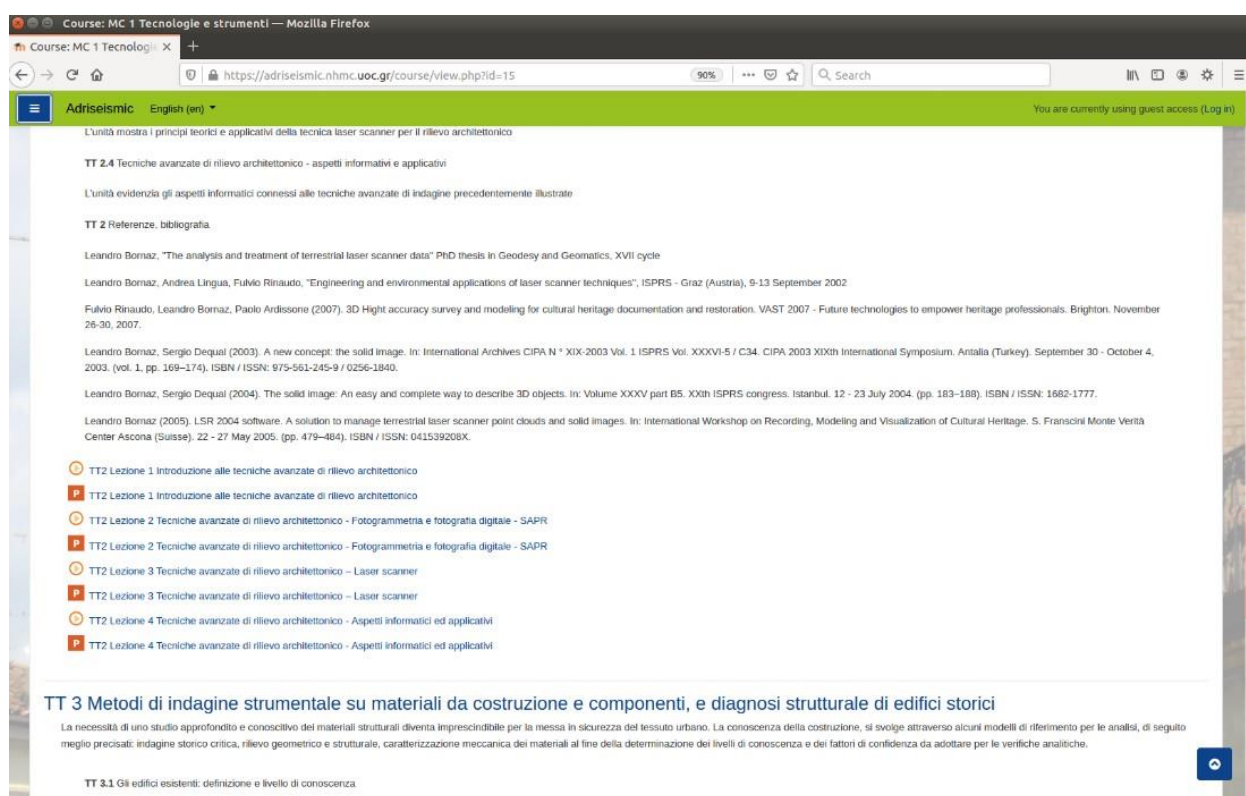


Figure 2 – Teaching materials for TT2 in Italian

4 Activities developed by the project to be further implemented by the network

The output mainly refers to the exploitation of the Moodle platform that has been described in the deliverable 3.2.5. Moreover, the training courses developed in the WPT3 are the core elements of the Moodle. The materials have been made available to teachers, students, training centres, civil servants and SMEs and to anyone that might be interested. Project Partners contributed to the finalization of the contents of the courses

and have been trained on how to use the Moodle platform, representing the main and most important network that has been established around the platform.

In addition, four series of local workshops have been performed in each PPs' Country aiming at

- 1) defining the specific learning needs;
- 2) validating the training programmes for practitioners;
- 3) validating the training programmes for building workers;
- 4) validating the training packages for civil servants and the toolkit for volunteers.

The 24 workshops allowed to build a strong network among the participants, ensuring a continuous engagement of the target groups and stakeholders identified. In the Annex a comprehensive overview of the participants to those events is provided, with institutions listed according the target group they belong to, while more details are available in the Deliverables T1.3.1, T1.3.2, T1.3.3, T1.3.4, T2.3.2, T2.3.2, T2.3.4, T2.3.5, T3.3.1, T3.3.2, T3.3.3, T3.3.4 concerning the reports on the different series of workshops in each PPs countries.

As mentioned before, a complete version of the training packages has been developed by IIPLE in Italian language in order to test it at local level. This is particularly relevant for training centers and schools since they can benefit from the project achievement and the materials produced to influence their training offer. Based on this good example occurred in ADRISEISMIC project, the network will have the opportunity to develop the complete versions of the training packages for each project partners' Country, thus influencing the training offer for all the actors involved in the seismic retrofitting process and for the volunteers.

The MOODLE platform allows to make the knowledge and results generated by the project more accessible and ensures to have such material available for other interested parties beyond the partnership and after the project end. Thanks to its properties, the MOODLE platform is able to spread all the training packages and toolkit to a wider audience making them immediately available.

5 Network membership: exploitation of the output and durability

As mentioned before, the platform has been conceived since the beginning to be shared with the stakeholders and also as an entry point to collect the interest from various stakeholders to be part of the project transnational cooperation network. In this regard, to establish a network and boost the exploitation of the ADRISEISMIC Moodle Platform, on 29th August – 2nd September 2022 UNIBO organised an International Summer School in Bologna on “New integrated approaches for seismic improvements of Adriatic and Ionian historic urban centres” in the framework of the Erasmus+ Blended Intensive Programme. The Moodle platform has been used in support of the organisation of the entire initiative and the materials stored and developed by ADRISEISMIC project have been made available to the students attending the summer school. They attended some key preparatory lectures online in their local languages, and they had the possibility to explore all the other contents uploaded. The University of Zadar, Zagreb, Belgrade, Crete have been involved and their students and teachers used the Moodle platform, creating an interesting and active network around the platform and the materials produced.

One more section has been set up under the English courses called “International Summer School on new integrated approaches for seismic improvements of Adriatic and Ionian historic urban centres” related to this initiative as it is possible to see in the following figures.

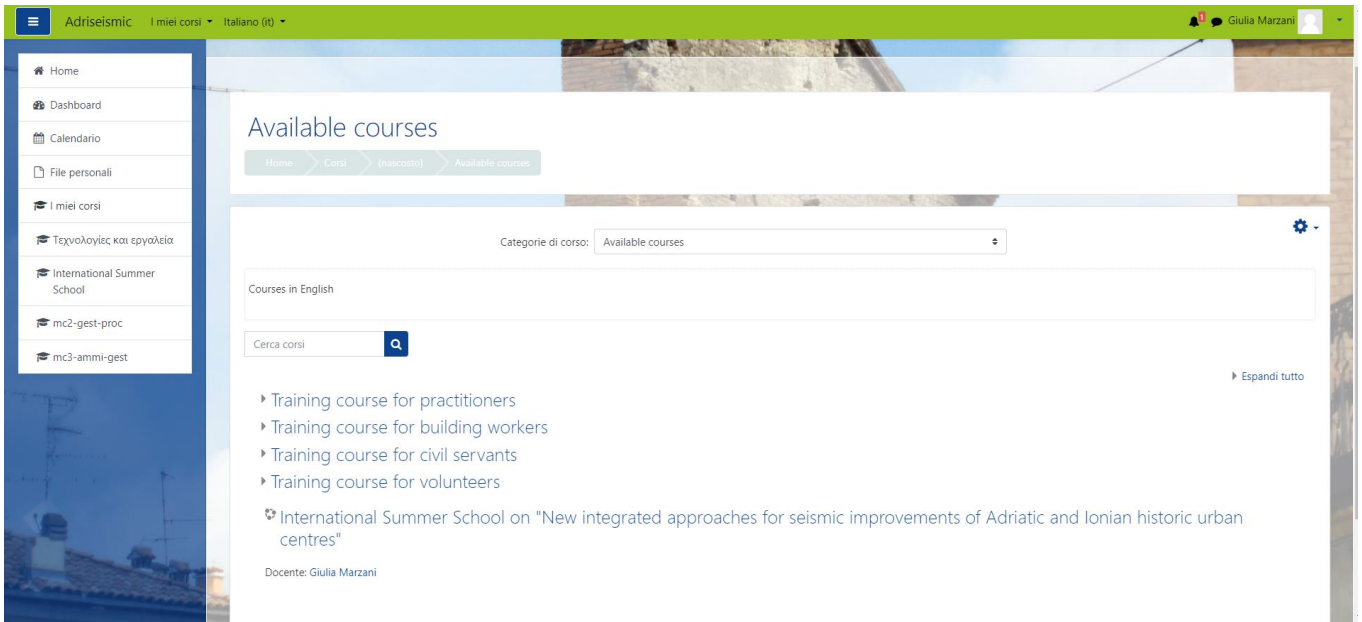


Figure 3: Screenshot of the English course of the Moodle platform with a dedicated section for the International Summer school

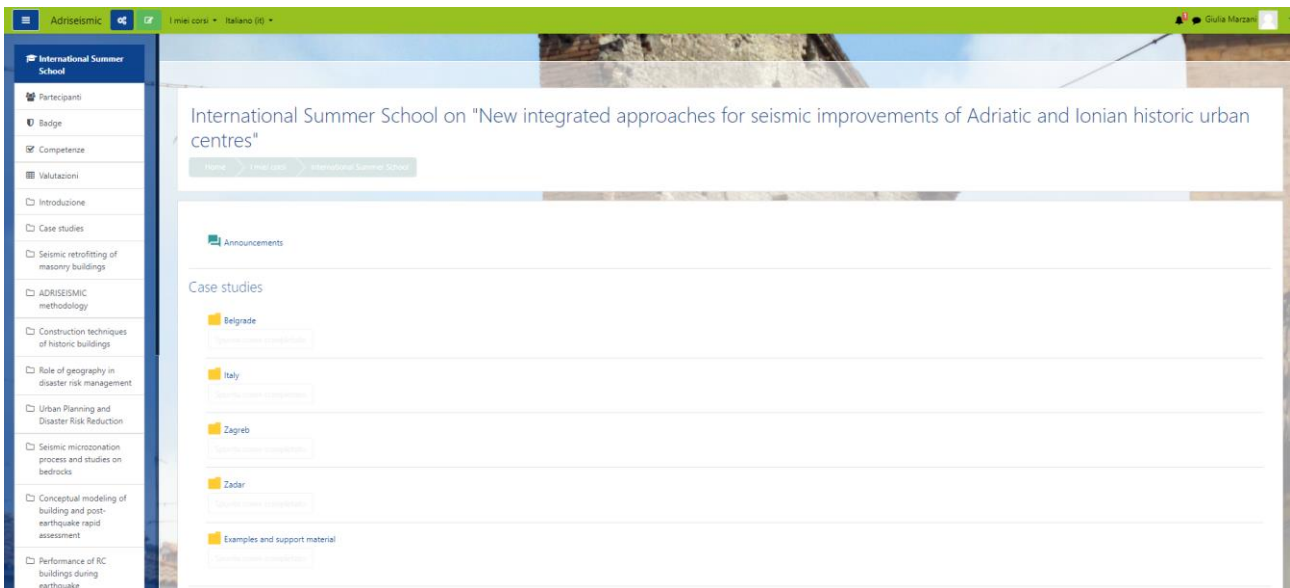


Figure 4: Excerpt of the Moodle platform section for the international summer school. Case studies presentations.

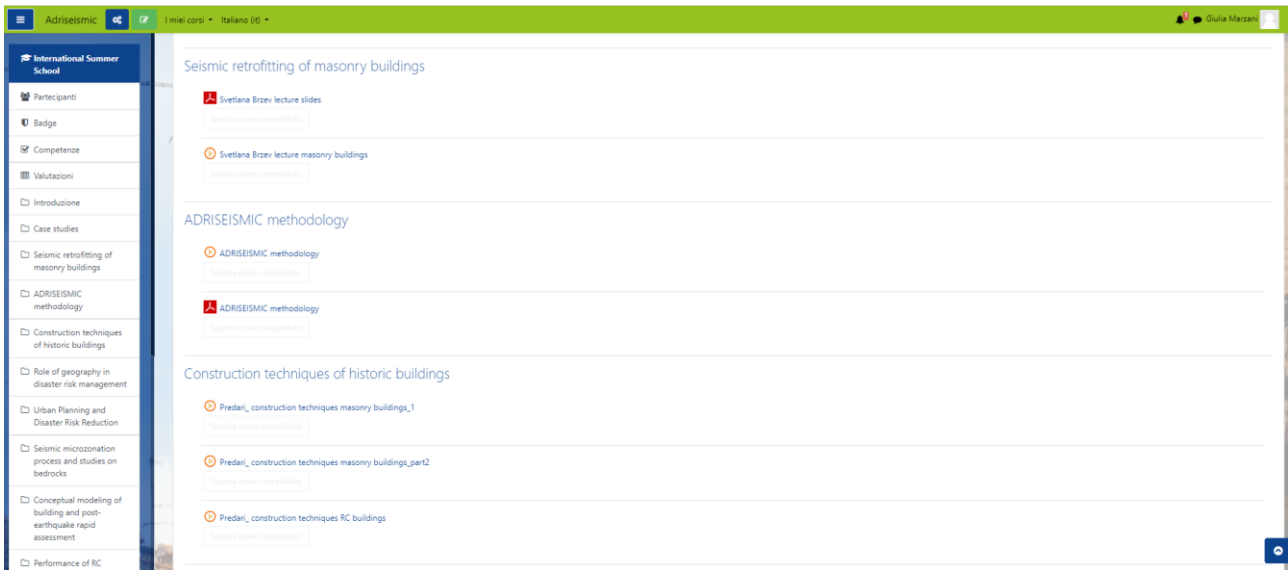


Figure 5: Excerpt of the Moodle platform section for the international summer school. Preparatory lectures stored in the platform and available for students.

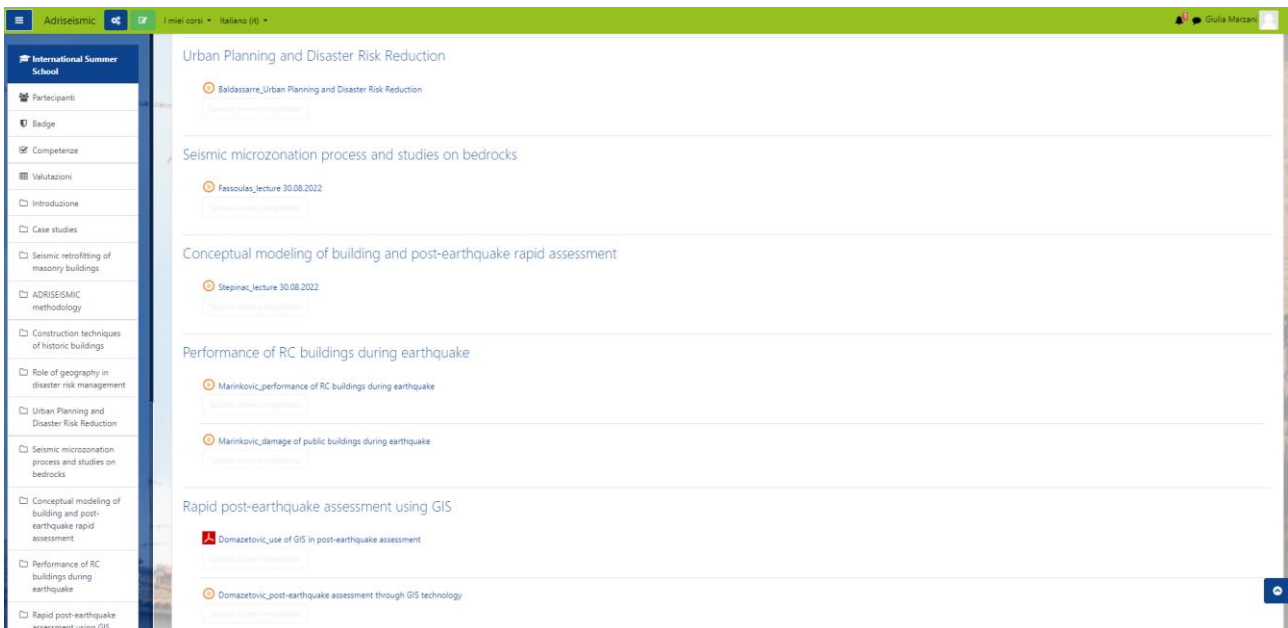


Figure 6: Excerpt of the Moodle platform section for the international summer school. Recordings of the lectures held in Bologna.

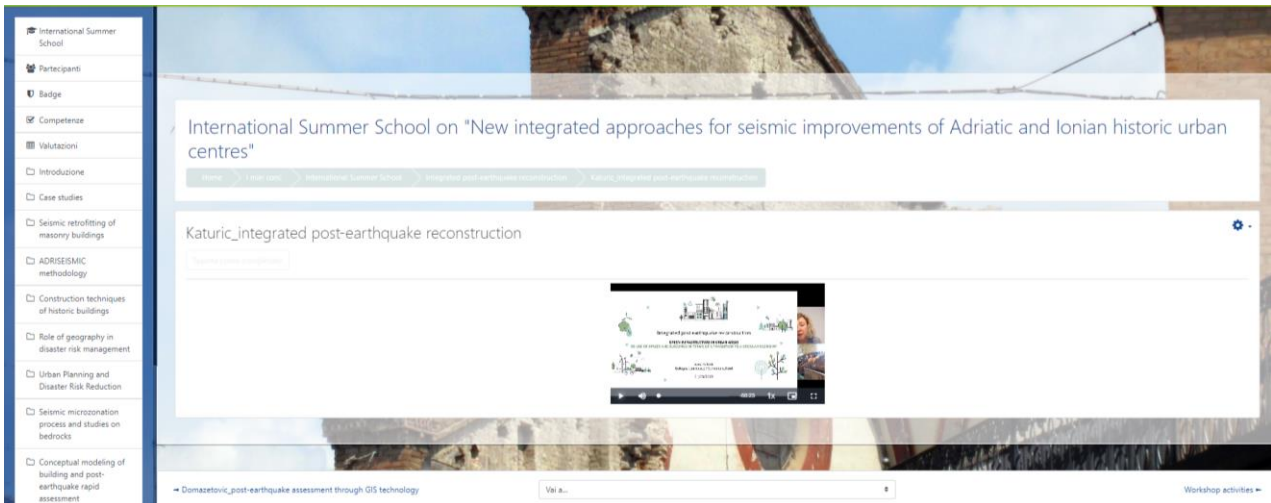


Figure 7 Excerpt of the Moodle platform section for the international summer school. Example of the recordings stored in the platform.

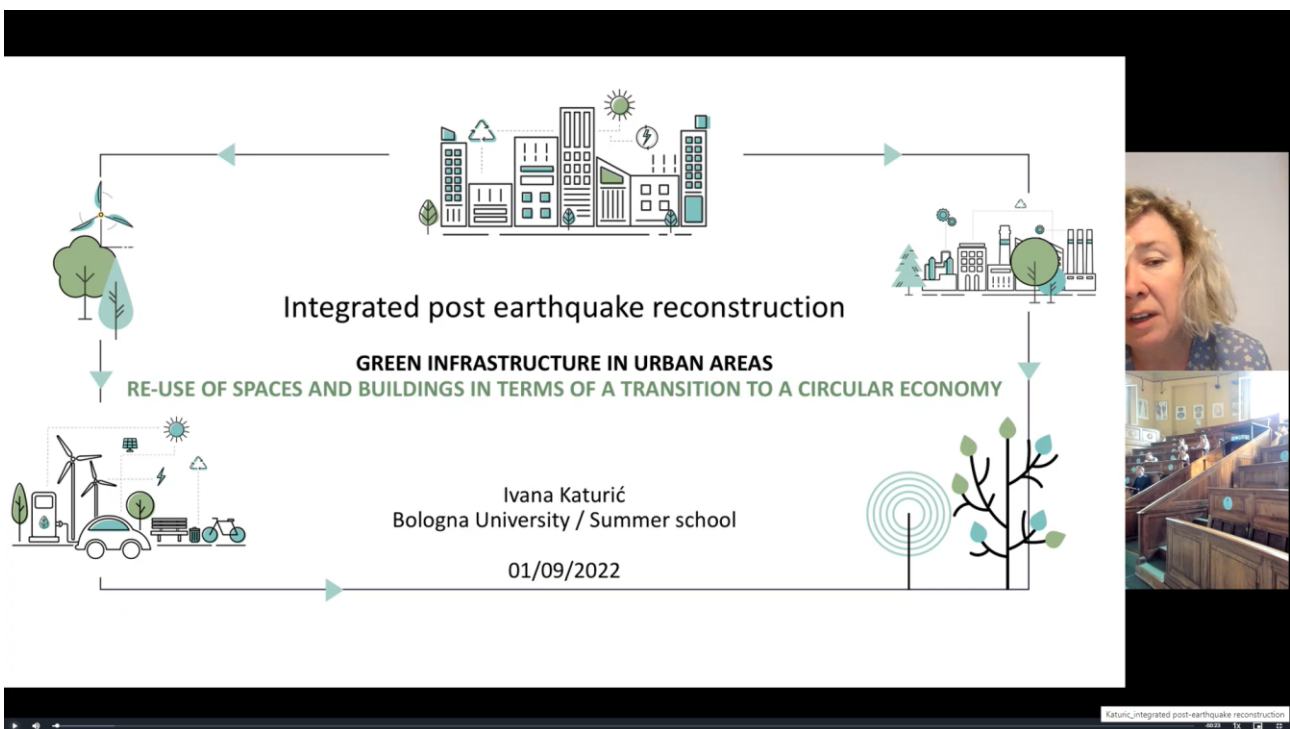


Figure 8: Detail of the online lecture held in Bologna during the summer school. Recording stored in the Moodle platform.



Figure 9: Photo of the participants of the summer school. Italian case study presentation.

In Figure 10 and Figure 11 the report includes the statistics of the Moodle platform usage. Regarding the users' characteristics, there has been the possibility to access the platform both as registered users and guests using a password for enrolling. Is it possible to see that the "Guest" modality is the most chosen.

When it comes to the registered users, at present 78 people are counted coming from:

- Greece (23)
- Slovenia (5)
- Serbia (10)
- Italy (17)
- Croatia (13)
- Not specified (10)

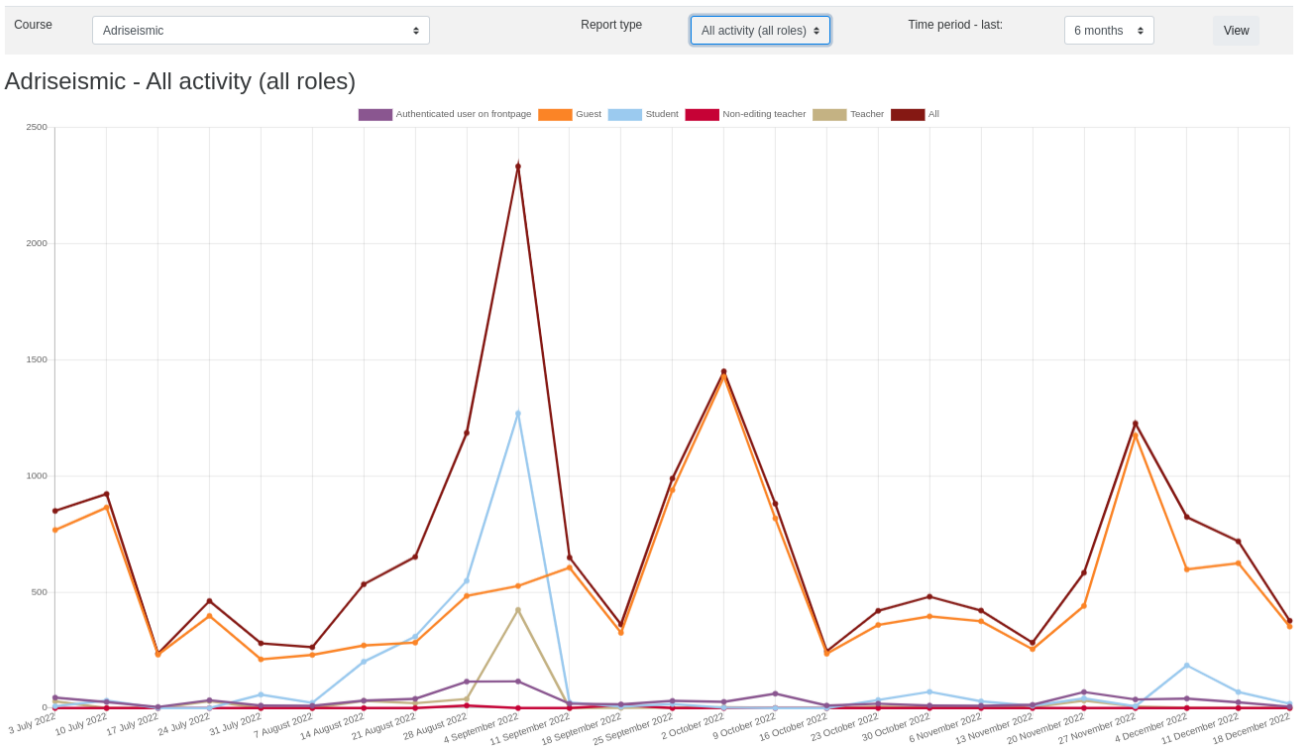


Figure 10: ADRISEISMIC Moodle platform statistics July 2022- December 2023

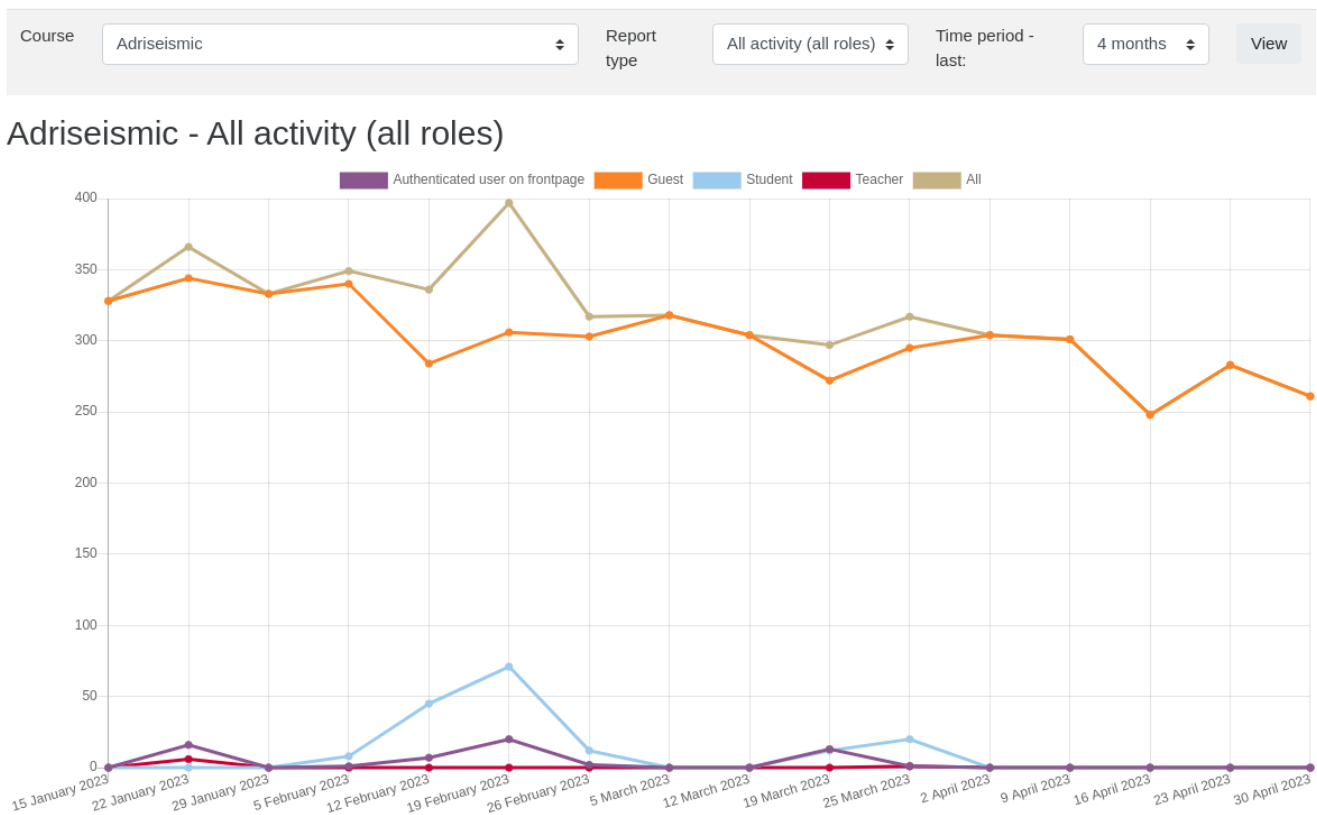


Figure 11: ADRISEISMIC Moodle platform statistics January - April 2023

The experience of the summer school enlarged the core network represented by the partnership, allowing to create the new transnational network formed by:

- Alma Mater Studiorum – University of Bologna
- Institute for Vocational Training of Construction Workers in the province of Bologna – I.I.P.L.E.
- City of Kaštela
- Municipality of Gjirokaster
- Regional Development Agency Bačka
- Slovenian national building and civil engineering institute - ZAG
- University of Crete
- Region of Crete
- University of Belgrade
- University of Zadar
- University of Zagreb

A larger representation of higher education and research Institutions will ensure both the exploitation of the lessons already stored in the platform and the development of new modules and teaching materials in local languages. In fact, teaching skills were less present in ADRISEISMIC consortium, and the involvement of other universities allows to overcome this gap. Local and regional authorities will guarantee the exploitation of the materials by accessing trainings and workshops to transfer this knowledge and experience to the local professionals involved in the process.

In terms of further development, additional editions of the summer school held in Bologna can be organized in the countries involved in the network taking the opportunity of preparing more teaching materials in local languages (e.g. Croatian and Serbian).

In addition, the Moodle platform has been identified among the tools suitable for the capitalization activities of the ADRION Thematic Sub-cluster 2.2 “Tools analysis to improve risk prevention and increase disaster resilience”. In fact, it can be used by the cluster participants to whom it has been presented during the last cluster meeting held in Rome on 30th September 2022.

As shown in the case of the above-mentioned International summer school, the tool is used to establish the network of organisations which are interested in transnationally tackling environmental vulnerability and thanks to its flexibility, the platform can be structured to host a dedicated session related to “risk prevention and disaster resilience” with the possibility to upload different types of materials focused on the sub-cluster topics and developed by the participants.

Concerning the durability of the output, the platform will be managed also beyond the project lifetime by linking it through the project website.

6 Conclusions

Transnational cooperation has been fostered and enhanced since the beginning of the project, when the ADRISEISMIC Moodle Platform has been designed and set-up. It is more than a simple repository of the materials produced in WPT3 framework, since it has been considered a focal hub to collect interest from different stakeholders to be part of transnational cooperation network. In this regard, to establish the new

network and boost the exploitation of the ADRISEISMIC Moodle Platform, on 29th August – 2nd September 2022 UNIBO organised an International Summer School in Bologna on “New integrated approaches for seismic improvements of Adriatic and Ionian historic urban centres” in the framework of the Erasmus+ Blended Intensive Programme. The Moodle platform has been used in support of the organisation of the entire initiative and the materials stored and developed by ADRISEISMIC project have been made available to the students attending the summer school. The University of Zadar, Zagreb, Belgrade, Crete have been involved and their students and teachers used the Moodle platform, creating an interesting and active network around the platform and the materials produced.

The experience of the summer school enlarged the core network represented by the partnership, allowing to create the new transnational network formed by:

- University of Bologna
- I.I.P.L.E.
- City of Kaštela
- Municipality of Gjirokaster
- RDA Bačka
- ZAG
- University of Crete
- Region of Crete
- University of Belgrade
- University of Zadar
- University of Zagreb

In addition, the Moodle platform and its contents have been presented in the framework of the ADRION Thematic Sub-cluster 2.2 “Tools analysis to improve risk prevention and increase disaster resilience” as a possible tool for capitalization activities, having shown the possibility of enriching it with new sections dedicated to the cross-cutting issues of disaster risk prevention and resilience.

In order to ensure the maximum exploitation, the platform will be managed and kept open also beyond the project lifetime by linking it through the project website.

7 Annex I

In the following tables, the list of participants to the 24 local workshops is provided divided according the target group they belong to.