



About the ALTI project

ACTIVE LEARNING THROUGH
IMPROVED INTERACTIVITY –
ALTI

ERASMUS+ PROJECT NO:
2020-HR01-KA226-SCH-094735

About:

Name: Active learning through improved interactivity – ALTII

Project number: 2020-1-HR01-KA226-SCH-094735

Duration: 1.3. 2021. – 28.2.2023.

Target group: teachers, subject teachers, professors

Project Coordinator: Aquilonis d.o.o.



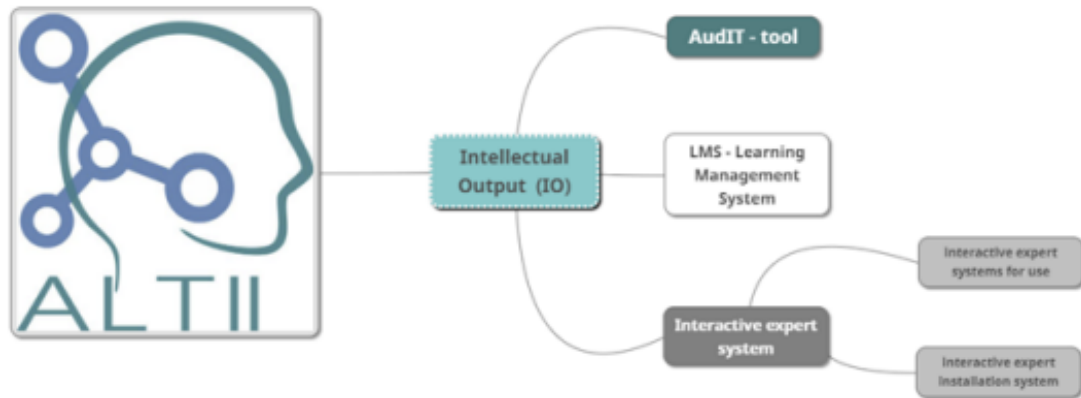
Web page
<https://altii.online/>

Facebook page:
[https://www.facebook.com/
ALTII-112107737591633](https://www.facebook.com/ALTII-112107737591633)



Helpdesk and email: altii@aquilonis.hr
Support for teachers: altii.team@aquilonis.hr

Main project results



As the first project result, we created an innovative tool to encourage interactivity in the lecture - **AudIT**, which has properties that are not found in most available tools for checking knowledge and interaction. Innovative features such as scoring unique answers, the possibility for the student to answer both anonymously and under his own name at the same time, the possibility to direct the answers to any application such as mind maps and games will significantly increase the motivation of students to actively participate in the lecture.

To make it easier for teachers to use AudIT, the consortium partners created an **LMS** (Learning Management System) with methodical instructions and examples. The LMS system is designed as a self-learning material and will provide teachers with additional education and ideas on how to improve interactivity in classes using AudIT.

AudIT also has **interactive expert systems** for use (a decision tree that guides teachers simply and easily to the answer) and an interactive expert system for installation.

AudIT



AudIT is a system for gathering feedback from the audience of a lecture, available at the URL <http://audit.altii.online/> and by scanning the above QR code.

It is intended for use in lectures, whether live or virtual, or other events where it is important to get feedback quickly from the audience. AudIT can be used in one of two roles: **lecturer** or **audience**. The lecturer role means that the user can open a virtual environment to collect and display data sent by the audience. The audience role means that the user can access the open virtual environment and send data in response to a question posed by the lecturer.

You are welcome to try and use AudIT. If you are trying it out on your own, you will need to open two browser tabs, one as the lecturer and the other as the audience, so that you can try out all forms of interaction.

AuditIT system is available in Croatian, English, Slovenian and Estonian.

Instructions can be found at:

<https://altii.online/wp-content/uploads/2023/03/AUDIT-usermanual.pdf>

AudIT Helpdesk contact: altii@aquilonis.hr

AudIT

AVAILABILITY - You can use it on any device connected to the Internet: desktop and/or laptop, tablet and smartphone. It has been shown that other tools usually have limitations in the use of certain functions available in the mobile or web view).

INSTALLATION - it does not need to be installed on a computer, AudIT uses a web browser.

REGISTRATION is unnecessary, other tools of this type require at least the registration of the lecturer.

ANSWERS of the students are in free form, they are not predefined, and in addition to the answers, students can ask questions; **ANSWERS** - when answering, students use multiple choice or text.

ANONYMITY - depending on the agreement with the teacher, students can join the system with name, ID or anonymously. Answers can alternate between being anonymous or using a name or ID, depending on the agreement with the examiner; **ANSWER** - the examiner can choose which answer to accept: the first, the last, or all of a student's answers to a question.

SUBSEQUENT PROCESSING OF THE ANSWERS - the examiner can process the answers immediately or analyze them afterwards.

VIRTUAL ROOM - each lecture can have its own environment (virtual room) where students' answers are collected, or several consecutive lectures can share the same room;

ASSESSMENT - function to automatically evaluate the similarity of text answers, group them for more efficient display, or grade students for unique or first answers.

FORWARDING: Students' answers can be forwarded to any application (for word processing, for mind maps, various games, etc.).

SCORING OF ANSWERS - Students can be encouraged by real-time grading and feedback to give as many answers as possible to a question.

ENCOURAGEMENT OF UNIQUE ANSWERS - Students can be encouraged by real-time grading and feedback to give as many unique answers as possible to a question that no other student has given;

USER SELECTION - AudIT allows a predefined group of users or people to answer questions.

REPORTING TO AudIT - It is possible to allow answering from any location on the Internet or only from defined networks.

TRANSLATION - It is simple to translate the tool's user interface into any language.

INDEPENDENCE - The tool is independent, it is not embedded in or connected to any other tool, and it allows the use of other tools or a combination of tools in the lecture.

AudIT Redirect

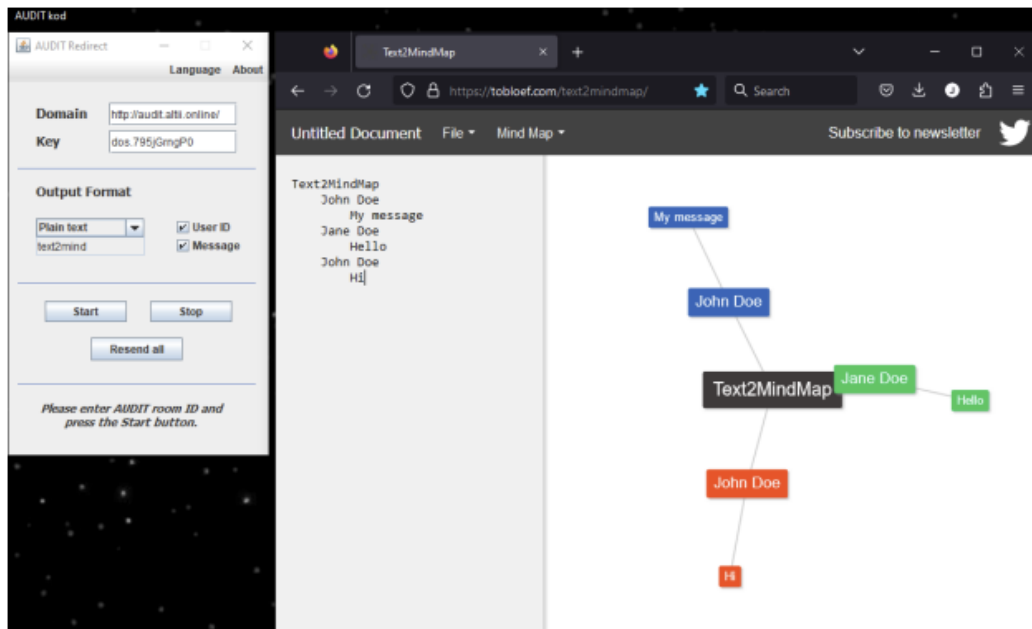
AUDIT Redirect is a desktop application DEVELOPED in ALTI project to be used together with AUDIT and which enables a lecturer to redirect textual messages that an audience sends to AUDIT to any other application so that they appear as if they were/are written on the keyboard of the lecturer's computer. AUDIT Redirect should be used in combination with an active plain text question on AUDIT.

AUDIT redirect can be downloaded from a link available on AUDIT lecturer's interface

(<http://audit.altii.online/redirect/AUDITredirect.jar>).

AUDIT Redirect is a .jar application meaning it can be run on Windows/Linux/Mac operating system.

AUDIT Redirect should be used in combination with an active plain text question type on AUDIT web interface. AUDIT Redirect can be used with rich text question type, but rich text questions use HTML formatting so it depends on the application you redirect the input to if the result will be usable.



LMS



To systematically support teachers in introducing interactivity into the teaching process, the project partners have developed an LMS (Learning Management System).

It is not enough to enable the tool, **systematic support and strengthening of the teaching profession is needed** so teachers will regularly use AudIT (or any other tool that improves interactivity).

LMS contains methodical instructions and examples . The LMS system is designed as a **selflearning material** and will provide teachers with **additional education and ideas** on how to improve interactivity in classes using AudIT.

The LMS contains over 40 examples of good practice that can be downloaded and used in classes.

In addition to examples of good practice, it also contains lessons that interested parties should learn:

1. what questions to ask students,
2. how often to set them,
3. how to construct questions to reveal ignorance, gaps in previous knowledge, misunderstanding of new things or inability to apply knowledge.

The LMS is available at the link:

<https://lms.altii.online/>

LMS

SUPPORT - LMS with examples of best practices is of particular importance for encouraging interactivity.

It can serve as inspiration for interested lecturers in devising new methods in teaching, which will achieve the desired level of interaction with students.

SOLUTIONS: teachers can download one of the prepared methods and use it in class. The methods are classified according to subject groups, subject name and lesson title.

SELF-STUDY - In the LMS, you can also find self-study lessons that can guide teachers through the process of acquiring knowledge about interactivity.

SUSTAINABILITY - the innovativeness of the project is reflected in institutional sustainability, because the LMS enables the newly created practices and methods to continue to develop, and thus the newly acquired knowledge will continue to be used or supplemented.

UTILIZATION - In order to enable the utilization and enrichment of the LMS on the project's official website access to the system is enabled and it is possible to use and produce new methods/examples of good practice.

OBJECTIVE OF THE PROJECT - The first, original, goal of ALTI project is to encourage teachers to dare to change the way they teach by providing them support, tools and examples of how to increase interactivity in classes, and thus active learning.

SYSTEMATIC SUPPORT - the project developed a core of practitioners - teachers who improved their knowledge of interactivity during the project. Practitioners have been added to a joint email list and are ready to respond to inquiries from teachers and others interested in increasing interactivity and creating new methods and examples.

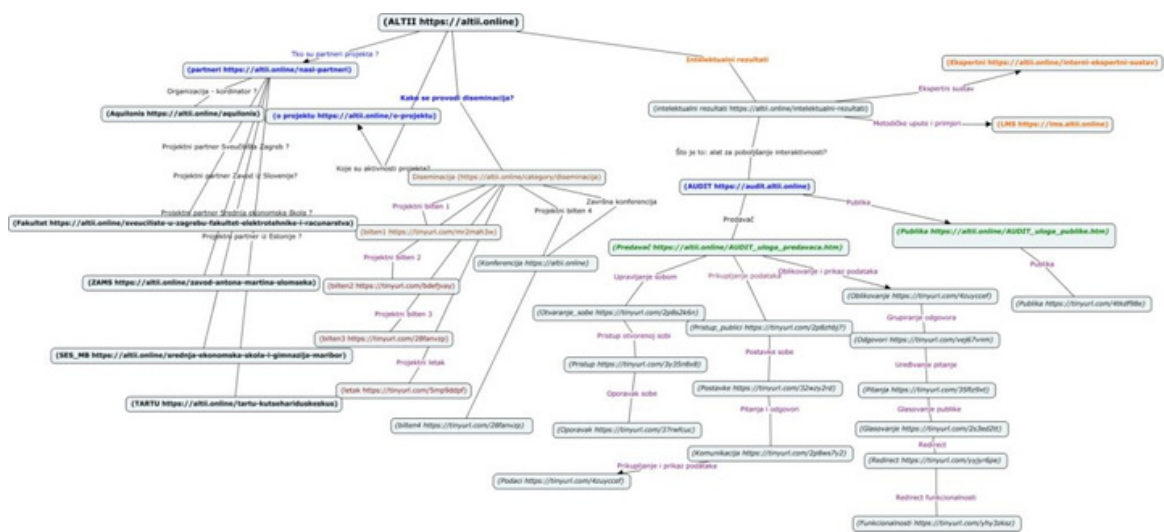
Practitioner's contact: altii.team@aquilonis.hr



For easier monitoring and use of AudIT, the ALTII team designed and prepared an interactive expert system, conceived as a decision tree that will guide teachers/lecturers simply and easily through the process quick mastering of all functions of AudIT.

It allows practitioners to use the AudIT tool, adjust it for special applications and install the tool if they want to have a version on their own server. It is possible to use it as a consultant based on artificial intelligence.

<http://diana.zesoi.fer.hr:8080/decisionTreeResolverAltii/runExample?fileName=Examples/AudIT-eng.txt>



Transnational Project Meeting

Transnational project meeting of the ALTII project was held on June 30, 2022. in Maribor, Slovenia.

TPM was hosted by Srednja ekonomska šola in gimnazija Maribor (Slovenia). All representatives of the project partners attended the TPM: Anne Krull (Tartu Voco, Estonia), Mirko Dukić (ZAMS, Slovenia), Maja Vičič Krabonja (SEŠ-MB, Slovenia), Juraj Petrović and Ivica Vukoja (FER, Croatia) and Vesna Kezdorf and Marija Vurnek (Aquilonis, Croatia).

The main goal of the project meeting was to determine the status of the project and the realization of the planned activities, and to adopt the work plan for the next 6 months.

The term of the 2nd TPM was chosen in the middle of a very important project activity - the creation of methodologies (O1.A2.8) with the aim of determining guidelines "face to face" through partnership work, in a more relaxed atmosphere, and reacting in time if deviations are noticed or omissions in work.

After the formal part of the project meeting, the partners went to the Zavod Antona Martina Slomška (ZAMS), which is located in another part of Maribor. Agreements regarding project activities, especially dissemination activities, continued there. Given that ZAMS participates in numerous EU projects, there is an open space for cooperation and the use of ALTII project results in other EU projects as well.



Final Conferences

The final conference in Estonia was held on January 30, 2023. It was hosted by Tartu VOCO (Tartu, Estonia). The final conference in Croatia was held on February 16, 2023. The host was Aquilonis (Zagreb, Croatia). The final conference in Slovenia was held on February 23, 2023. It was hosted by the Anton Martin Slomšek Institute (Maribor, Slovenia).

The main goal of the conferences was to ensure the visibility of the project, to familiarize the public with the results, to disseminate the project and to ensure the long-term use of the project results. The project results - AudIT, LMS and interactive expert systems - were presented to the conference participants.

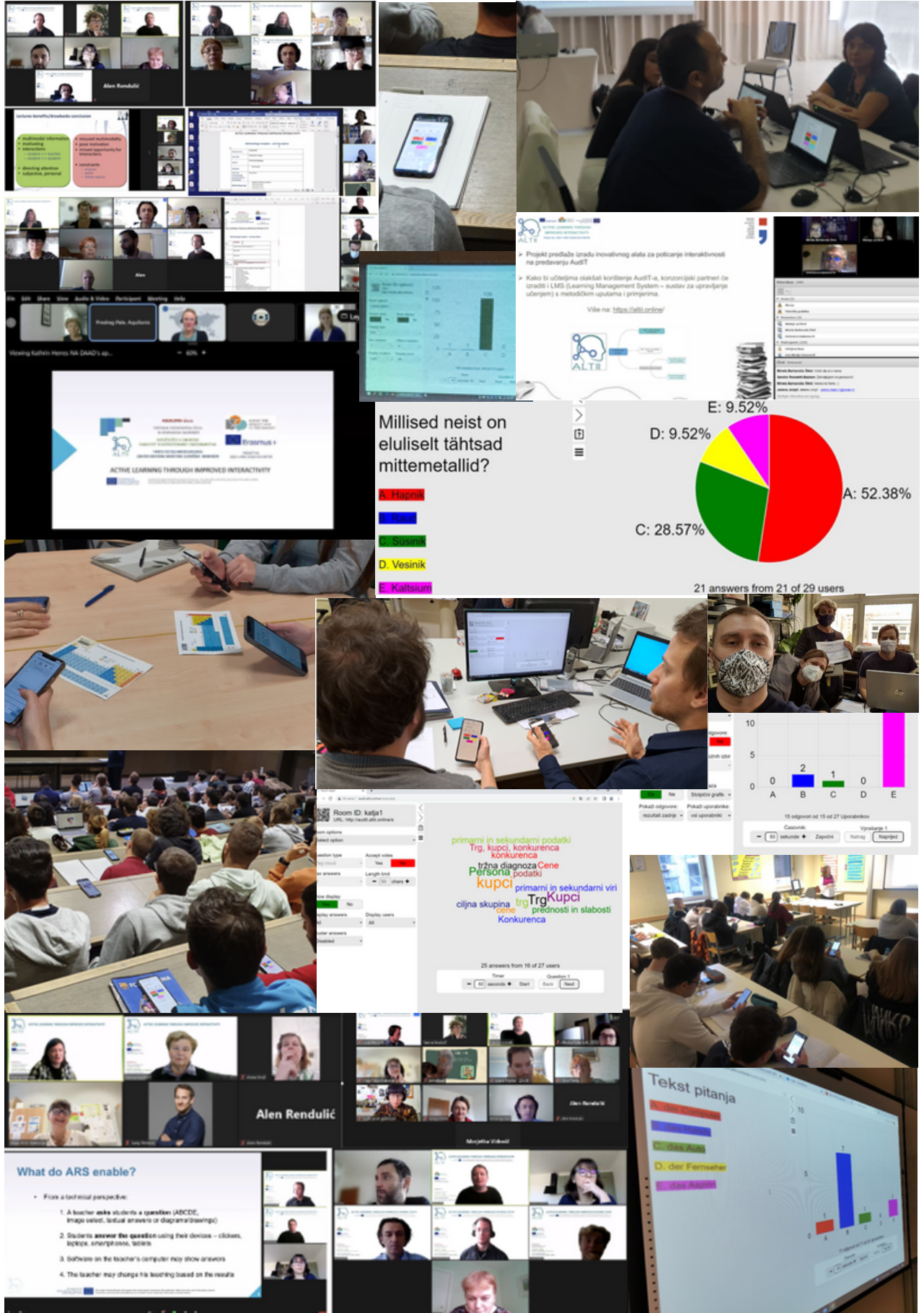


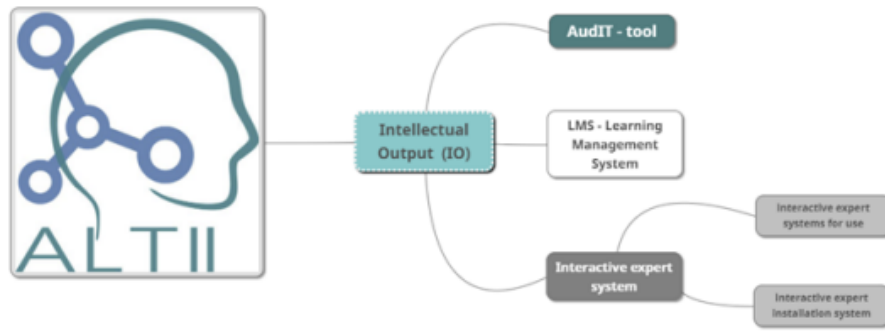
The message from the hosts and organizers of the Final Conferences to the participants is that they should dare to make changes in the way they teach because of the ALTI project and its results:

- AuditIT system (<https://audit.altii.online/>), which is available in Croatian, English, Slovenian and Estonian
 - LMS (<https://lms.altii.online/>)
- a core of practitioners (altii.team@aquilonis.hr) with over 30 teachers who can be contacted for ideas or advice related to active learning
 - an organized technical support team that can be contacted for help and support with the AuditIT system (altii@aquilonis.hr)
 - an interactive expert system that allows them to find their way around quickly
 - video tutorials

to help them strengthen their profession.







AudIT & Helpdesk:
altii@aquilonis.hr

LMS & the core of
practitioners:
altii.team@aquilonis.hr



<https://altii.online/>

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