Climademy

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Deliverable D4.2 “CLAUDI site available”

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V1.0	26/05/2023	CLAUDI site available-University of Crete - 1st Version
V1.1	28/08/2023	EU logo and disclaimer added
Reviewed	YES	

Contents

Executive Summary

A platform is designed and developed to support an effective community building that will help all involved in the training (organisations, educators and partners) to prepare, adapt and enrich the training activities and run the large-scale implementation activities. Modules developed in WP2 and WP3 will be available there. Additionally, the platform will support the creation of new learning activities following the Academy's methodology and approach. The platform, called CLAUDI, links together the four national hubs initially established by the Consortium and will be extended to new associated partners during the course of the programme. CLAUDI will make available all educational material prepared in CLIMADEMY. It is structured so that each national hub has its domain. Therefore, users from each country may find information relevant to their geographical, cultural and linguistic context easily. CLAUDI additionally offers the user the option to browse its content based on thematic criteria and access additional material.

Deliverable 4.2, "CLAUDI site available", regards the design, installment, and setting up of the CLAUDI platform. The CLAUDI platform is based on the open-source LMS software moodle (https://moodle.org). In what follows, the basic characteristics of the platform are described.

Abbreviations and acronyms

Abbreviation / Acronym	Description
WP	Work Package

Partner short name used in this document	Full Partner Name
EA	Ellinogermaniki Agogi Scholi Pangea Savva A
FG	Fondazione Golinelli
RDPSEC	Regional Directorate of Primary and Secondary Education of Crete
UBREMEN	University of Bremen
UH	Helsingin Yliopisto (University of Helsinki)
UNIBO	University of Bologna
UOC	University of Crete

1 Introduction

The current deliverable, D4.2 "CLAUDI site available", describes the design of the Climate Auditorium (CLAUDI) platform, the development and the configuration so that it will be operative.

The CLAUDI platform is based on the open-source LMS software moodle (https://moodle.org). It acts as a place where teachers can develop and distribute their educational material and modules. When the material refers to one of the four already participating countries, the users will be guided on preparing their material following guidelines developed in WP2 and WP3. The teaching material will be reviewed by the national hub representatives and will be accepted only when meeting the quality standards set by the Academy.

Furthermore, CLAUDI can serve as the e-learning platform of the CLIMADEMY. It will host all the features for real-time and asynchronous learning, so that training courses can be supported. CLAUDI is used in parallel to the national hubs so that blended mobility is promoted. Through CLAUDI, webinars can be organized. Moreover, discussion fora to foster communication between the teachers and trainees are launched.

In what follows, the CLAUDI platform is described in detail.

2 Project Description

CLAUDI is central to the CLIMADEMY project for training, supporting, networking, and is developed within WP4 of the project.

The Climademy project is divided into 6 work packages, listed below.

- WP1: Project management, coordination and governance
- WP2: Educational materials on climate change
- WP3: Development of educational model for teacher training
- WP4: Establishment of a common virtual Climate Auditorium (CLAUDI) and National Hubs
- WP5: Implementation of the Training Activities
- WP6: Impact assessment, dissemination and sustainability

In WP1 the project coordination and management bodies will be established, in order to ensure the general project coordination and monitoring of progress. In WP2 educational material will be collected and further developed to understand the main drivers of climate change. WP3 will focus on the development of an educational model suitable for teacher training. WP4 is concerned with the establishment of the four national hubs and the development of the virtual Climate Auditorium (CLAUDI) platform. The aim of WP5 is to organize the large-scale implementation of the Training Activities leading to an enhanced notion on Climate Change Education of participating teachers and eventually to their professional development. Finally, WP6 is concerned with the dissemination and sustainability of the project deliverables.

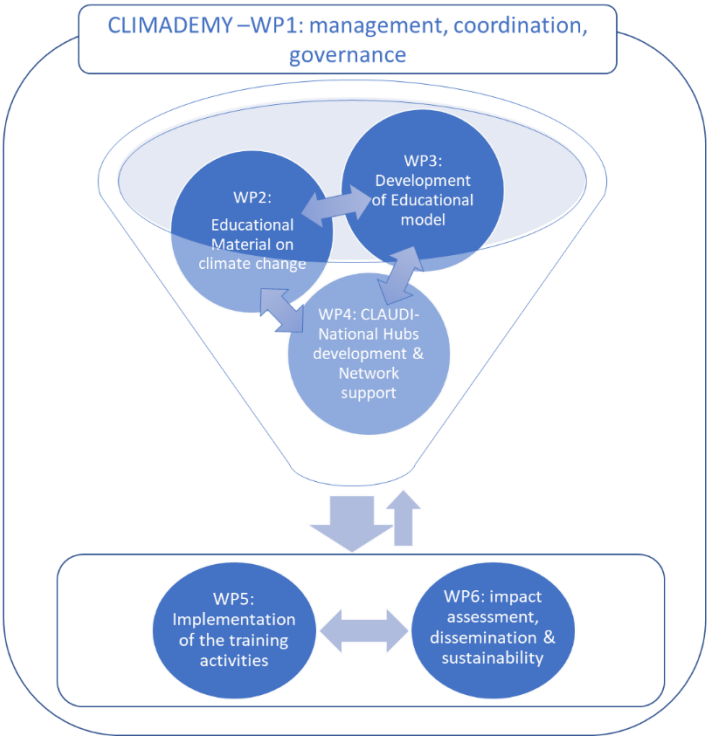


Figure 1 Pert chart. of CLIMADEMY work packages

3 The CLAUDI site

3.1 The Moodle software

Moodle is one of the most used and popular Learning Management Systems worldwide. It is open source, with a large and active community. Among its many advantages is the fact that it is extremely customizable and flexible while many plugins are available to satisfy any kind of need. Also, it should be stressed that one can find great support and documentation.

Main component of a Moodle platform is the e-course. An e-course:

- Supports multiple pedagogical (Classes can be instructor-led, self-paced, blended or entirely online)
- Encourages collaboration and teamwork
- Integrates external resources and learning tools
- Can include multimedia content
- Possess customizable grade management
- Can include peer and self-assessment
- It disposes high levels of security and privacy.

Main learning tools utilized by an e-course are:

- Resources and activities: files, pages, videos, quizzes, assignments, fora, etc.
- Communication tools
- Teamwork
- Assessment management
- E-Course management and monitoring.

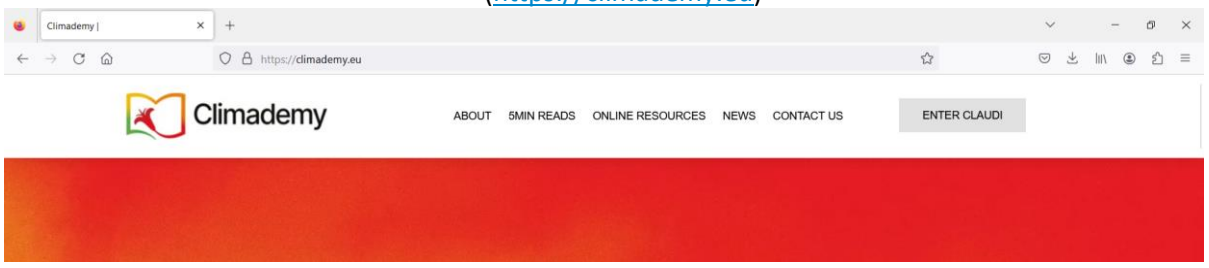
3.2 The CLAUDI platform

For the purposes of the CLIMADEMY project, a Moodle platform has been installed and configured. The platform is hosted in the University of Crete data center and can be found at the following address:

https://claudi.chemistry.uoc.gr/

or through the ENTER CLAUDI bottom on the CLIMADEMY web front page

(https://climademy.eu)



English (en) Log in

CLAUDI
climademy.eu

Welcome to the CLimate AUDItorium

The CLAUDI platform hosts the material, online courses and the forum where all teachers and learners meet and exchange ideas and experiences, thus building the Teachers' Academy.

About CLIMADEMY

The CLIMAte change teachers' acaDEMY (CLIMADEMY) aims to create a European network to offer a comprehensive program where teachers will learn by using an efficient methodology how to educate the next generation of European citizens on climate change issues.

Educational material focused on the drivers causing the human-induced climate perturbations, the impacts of climate change and the measures for sustainability, will be tailored for initial education and professional development and made openly available to all education institutions across Europe. The material will be jointly developed, designed to be easily accessed, adopted and replicated, using modern educational practices and tools,with teachers acting both as trainees and co-designers. It will be the basis for the Teachers' Academy for climate change education to be established through one common virtual Climate Auditorium (CLAUDI) and four hubs in separate countries with specific foci driven by the regional particularities. The CLAUDI platform will host the material, online courses, and the forum where all teachers and learners meet and exchange ideas and experiences, thus building the Teachers'. The material will be developed in English, German, Italian, Greek and Finnish.

More information about the project: https://climademy.eu/

Climate Auditorium

Enter

National Hubs

Four national hubs will be developed on CLAUDI, which will host the bulk of the developed material, each in the language of the participating countries (Finnish, German, Greek, Italian). The educational material will focus on i) The main drivers of climate change, ii) Detecting climate change by analyzing in situ, satellite data and model results, iii) Impacts, iv) Mitigation/adaptation. It will be developed through the work in a community of practice, which will include experts from the fields of natural science and science education and in-service teachers.

German Hub

Enter

Finnish Hub

Enter

Italian Hub

Enter

Greek Hub

Enter

Get the mobile app

The platform includes educational content organized in the following categories, which correspond to the national hubs established in other tasks of WP4 as well as to the whole community of teachers (Climate Auditorium):

- Finnish hub
- German hub
- Greek Hub
- Italian hub
- Climate Auditorium.

The platform is multilingual, so the users can choose the language they prefer to navigate in the platform. Also, there exists educational material for all languages of the project, that is:

- Finnish
- German
- Greek
- Italian
- English.

Regarding the appearance of the platform, CLAUDI implements the open-source theme: “Adaptable”, which is a highly customizable responsive two column theme designed for use on both large University installations as well as small training companies (https://docs.moodle.org/402/en/Adaptable_theme). The CLAUDI platform appearance is designed in accordance with the CLIMADEMY site, https://climademy.eu/ .

Hosting and administration of the CLAUDI platform, are important issues that should be well designed and applied in order to provide data reliability, availability and security. The CLAUDI platform consisting of Moodle, Big Blue Button, and any other additional plugins/software, is installed in the data center of the University of Crete (UOC) and is customized to the needs of the project. The administration of the platform ensures functionality on a daily basis, whereas backup procedures have been designed to ensure data availability and security. Upgrades are applied when it is needed to the platform as well as to the underneath systems. The utilization of the platform can be shown through usage statistics.

3.3 Hub Structure

Each Hub includes the following:

1. Resources and material
In this category the user can find educational content further organized in:

- Articles
- Tools
- Videos
- Games.

It should be stressed there is already some content in place on CLAUDI, but also new material is being added constantly.

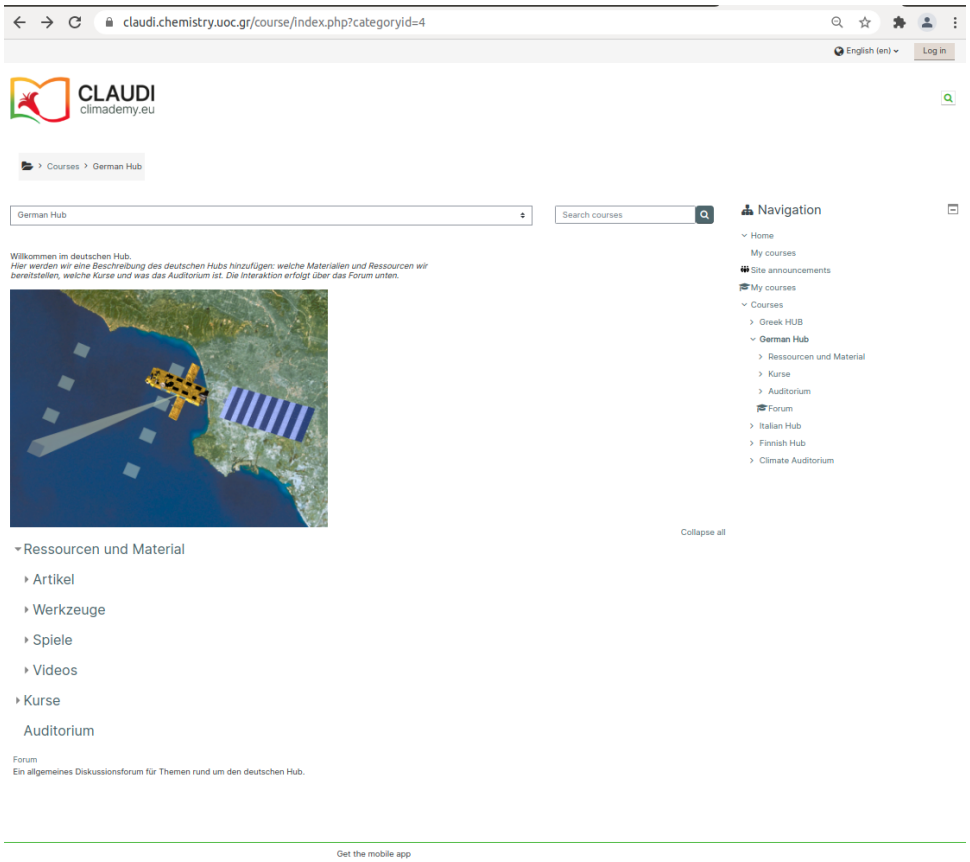
2. Courses
This category will include courses that will be developed for training teachers and trainees.

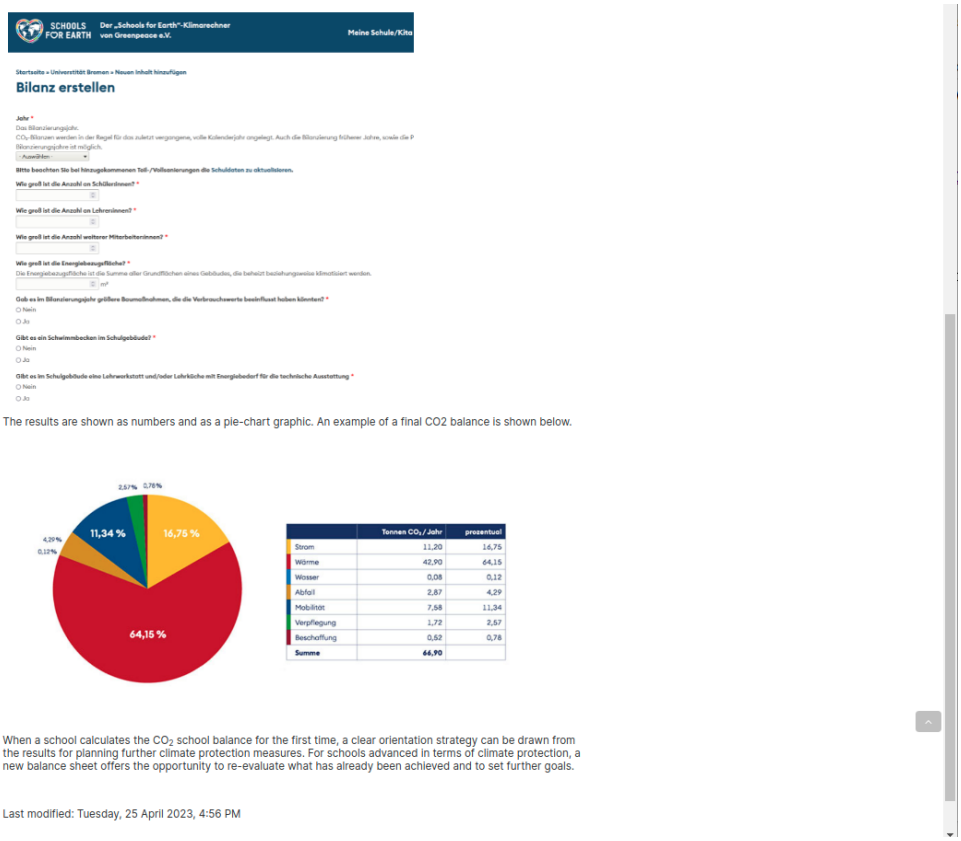
3. Auditorium

This area will be used for any live meetings between partners or teachers in the context of the project. Big Blue Button will be used for these meetings (see below more details).

4. Forum

In each hub there will be a forum open for all, in the language of the hub. The purpose is to help people to form a large community to exchange teaching ideas, content, etc. Also, there exists a forum in the Climate Auditorium for users from all hubs, in English.





SCHOOLS FOR EARTH Der „Schools for Earth"-Klimarechner von Greenpeace e.V. Meine Schule/Kita

Startseite » Universität Bremen » Neuen Inhalt hinzufügen

Bilanz erstellen

Jahr *

Das Bilanzierungsjahr.

CO_2-Bilanzen werden in der Regel für das zuletzt vergangene, volle Kalenderjahr angelegt. Auch die Bilanzierung früherer Jahre, sowie die P Bilanzierungsjahre ist möglich.

Auswählen

Bitte beachten Sie bei hinzugekommenen Teil-/Vollsanierungen die Schuldaten zu aktualisieren.

Wie groß ist die Anzahl an Schülerinnen? *

Wie groß ist die Anzahl an Lehrerinnen? *

Wie groß ist die Anzahl weiterer Mitarbeiterinnen? *

Wie groß ist die Energiebezugsfläche? *

Die Energiebezugsfläche ist die Summe aller Grundflächen eines Gebäudes, die beheizt beziehungsweise klimatisiert werden.

m²

Gab es im Bilanzierungsjahr größere Baumaßnahmen, die die Verbrauchswerte beeinflusst haben könnten? *

○ Nein
○ Ja

Gibt es ein Schwimmbecken im Schulgebäude? *

○ Nein
○ Ja

Gibt es im Schulgebäude eine Lehrwerkstatt und/oder Lehrküche mit Energiebedarf für die technische Ausstattung *

○ Nein
○ Ja

The results are shown as numbers and as a pie-chart graphic. An example of a final CO2 balance is shown below.

	Tonnen CO_2 / Jahr	prozentual
Strom	11,20	16,75
Wärme	42,90	64,15
Wasser	0,08	0,12
Abfall	2,87	4,29
Mobilität	7,58	11,34
Verpflegung	1,72	2,57
Beschaffung	0,52	0,78
Summe	**66,90**	

When a school calculates the CO_2 school balance for the first time, a clear orientation strategy can be drawn from the results for planning further climate protection measures. For schools advanced in terms of climate protection, a new balance sheet offers the opportunity to re-evaluate what has already been achieved and to set further goals.

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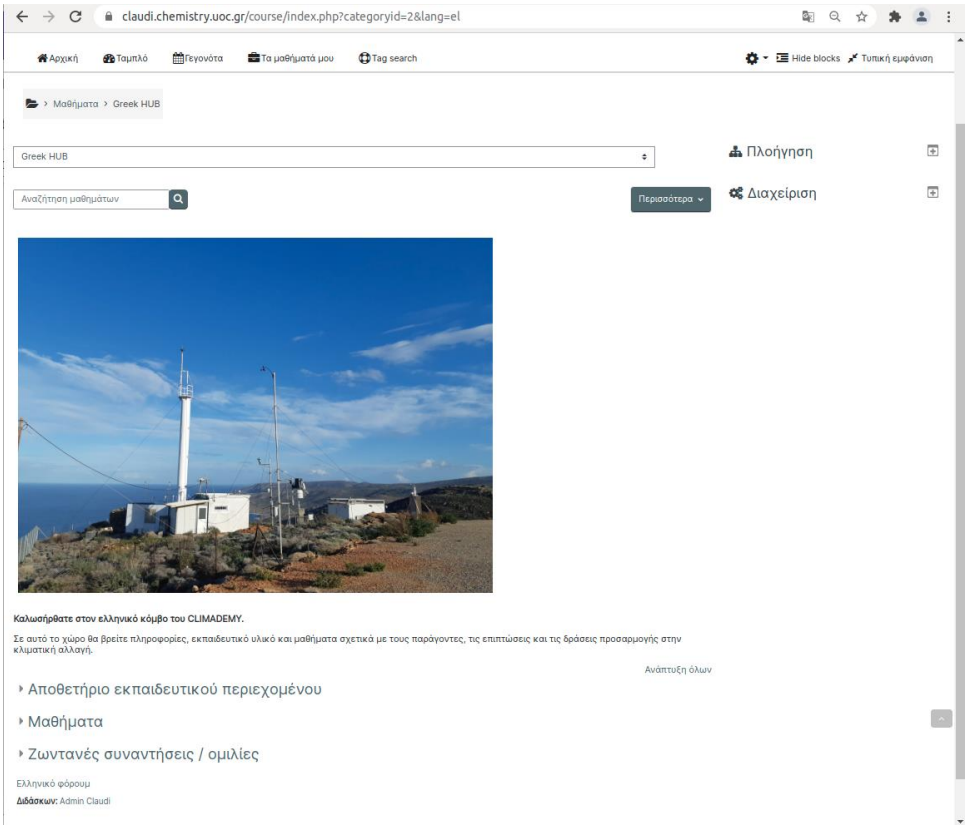


claudi.chemistry.uoc.gr/course/index.php?categoryid=2&lang=el

Αρχική | Ταμπλό | Γεγονότα | Τα μαθήματά μου | Tag search | Hide blocks | Τυπική εμφάνιση

Μαθήματα › Greek HUB

Greek HUB

Αναζήτηση μαθημάτων

Περισσότερα

Πλοήγηση

Διαχείριση

Καλωσήρθατε στον ελληνικό κόμβο του CLIMADEMY.

Σε αυτό το χώρο θα βρείτε πληροφορίες, εκπαιδευτικό υλικό και μαθήματα σχετικά με τους παράγοντες, τις επιπτώσεις και τις δράσεις προσαρμογής στην κλιματική αλλαγή.

Ανάπτυξη όλων

- Αποθετήριο εκπαιδευτικού περιεχομένου
- Μαθήματα
- Ζωντανές συναντήσεις / ομιλίες

Ελληνικό φόρουμ

Διδάσκων: Admin Claudi

The material and courses offered through the CLAUDI platform covers the three broad categories:

- Drivers of climate change: difference between weather and climate; energy balance of the Earth; greenhouse gases, pollutants and aerosols properties and impacts on energy balance and climate; sources and sinks of greenhouse gases and aerosols; links between the cryosphere, the ocean, the atmosphere and the biosphere in climate change.
- Impacts on environmental, biological and social systems and linkages to other Sustainable Development Goals (SDGs): extreme weather (droughts, floods); wild-fires; sea-level rise; coastal corrosion; shifts in seasons; ecosystem shifts; food and water security; biodiversity and ecosystems health; human health.
- Mitigation/Adaptation measures: strategies against climate-induced environmental, economic, political, and ethical impacts; measures for the protection of the well-being of the society; measures to reduce climate change (renewable energy, bioclimatic building, changes in agriculture etc).

3.4 Users of CLAUDI

The CLAUDI platform has the following types of users:

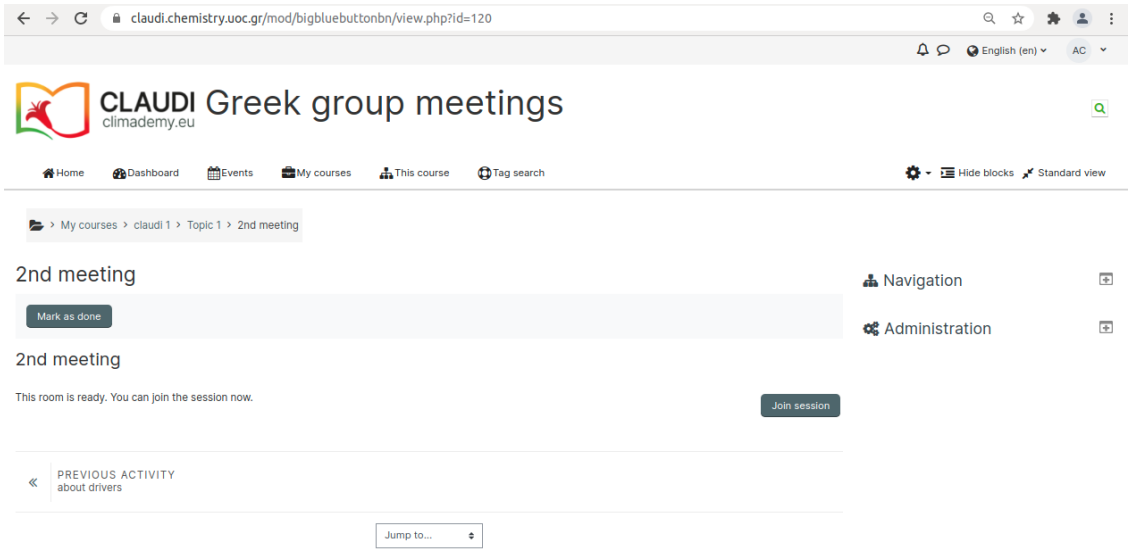
- Admin users: They perform the administration of the platform.
- Managers of the hubs: They administer the hub areas and are responsible for content uploading and structure in each hub.
- Teachers/content creators: They will be the teachers of the courses created in the hub areas.
- Simple users/students: People that register to the platform. Most areas on the platform will be open for visiting or enrollment. So, registered users can view available content, participate in courses or participate in a hub forum (they can choose according to their language, or they can participate in the Climate Auditorium forum in English).

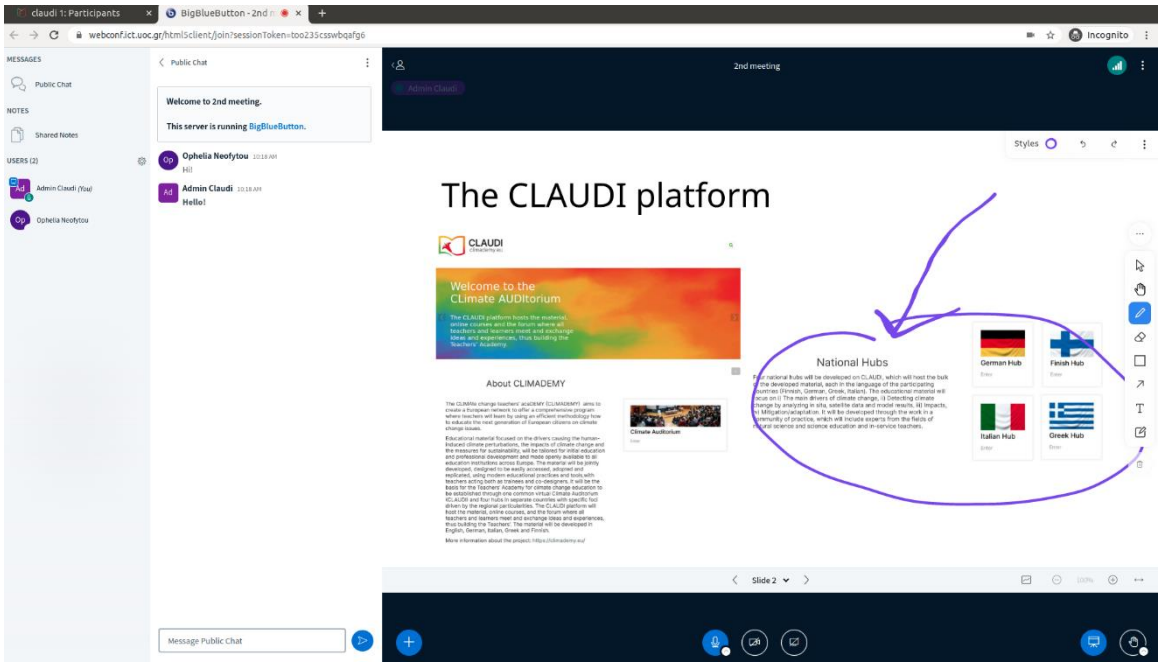
3.5 Synchronous learning through CLAUDI

CLAUDI platform supports not only asynchronous but also synchronous learning. This can be achieved by using Big Blue Button (https://bigbluebotton.org/), an open-source software for web-conferencing, mainly intended for real-time online e-learning. It offers features such as:

- real-time sharing of audio, video, screen-public/private chat-upload of documents
- interactive whiteboard
- integration with phone systems
- Splitting in subgroups
- Recording
- Administration of meeting by the moderator.

It should be mentioned that Moodle software includes a plugin that integrates with Big Blue Button, so the user of the CLAUDI platform will participate in all asynchronous and synchronous activities through one and only platform.





4 Conclusions

The CLAUDI platform has been established and is intended to be the place where teachers from different countries of Europe will upload and exchange educational content, meet and learn about climate change and ways to communicate it to their students. As the CLIMADEMY project evolves, The CLAUDI platform will be continuously enriched, following the evolution of the CLIMADEMY project, with new content and activities, in order to provide a helpful tool for teachers' support, training and networking.