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Coordinating Institution	BENAKI PHYTOPATHOLOGICAL INSTITUTE
Coordinator	Dr. Maria K. Doula
Address	St. Delta Str., n° 8, 145 61, Kifissia, Attica, Greece
Telephone No	+30 210 8180321
Fax No:	+30 210 2842 129
E-mail:	mdoula@otenet.gr ; m.doula@bpi.gr
Project web site:	https://life-climamed.eu/

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Summary	The purpose of this deliverable is to facilitate user engagement with the CMM platform by providing structured, accessible, and multimedia-based training resources. The video tutorials ensure that users can efficiently navigate and utilize the platform's tools for GHG monitoring and management. Additionally, by incorporating multilingual subtitle support, the training center is designed for future scalability and broader accessibility.



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Extended Summary

The Multimedia Training Center for users is developed as part of Deliverable C4.2 to provide structured and easily accessible training materials for users of the CMM platform. By offering a collection of instructional videos, the training center enhances users' ability to navigate the platform and utilize its functionalities for GHG monitoring and management. The tutorials support self-paced learning, ensuring that users can efficiently understand and apply the platform's features.

The training materials are available online, hosted on a Vimeo playlist and accessible via the project's official website. To accommodate a broad audience, the videos include English and Greek subtitles, with the option to add further language support in the future. This deliverable promotes knowledge transfer and user engagement by providing high-quality, multimedia-based learning resources.

Introduction

The CMM platform is a comprehensive system designed for monitoring and managing greenhouse gas (GHG) emissions. The platform introduces a wide range of functionalities tailored for different user roles. Thus providing structured training resources is essential to ensure effective adoption and use. Deliverable C4.2 - Multimedia Training Center for Users addresses this need by offering a series of instructional video tutorials that guide users through the platform's core features and functionalities.

The training center was developed to support users in learning how to:

- Navigate the CMM platform's interface.
- Monitor emissions data using IoT and LiDAR devices.
- Utilize interactive dashboard features for real-time insights.
- Manage system settings, including user access, cultivation areas, and background GHG concentrations.

To ensure accessibility, all tutorials have been screen-recorded using OBS Studio and edited with Adobe Premiere Pro, delivering high-quality instructional content. The videos are hosted on Vimeo in a structured playlist, allowing users to access the tutorials at their convenience. Additionally, all content is available through the project's official website in the following link: <https://www.life-climamed.eu/training-center>.

The multilingual support is a key feature of the training center. All videos include English and Greek subtitles, ensuring accessibility for a diverse audience. Furthermore, the subtitle

system is designed to accommodate additional translations in the future, allowing the training materials to reach a wider international user audience.

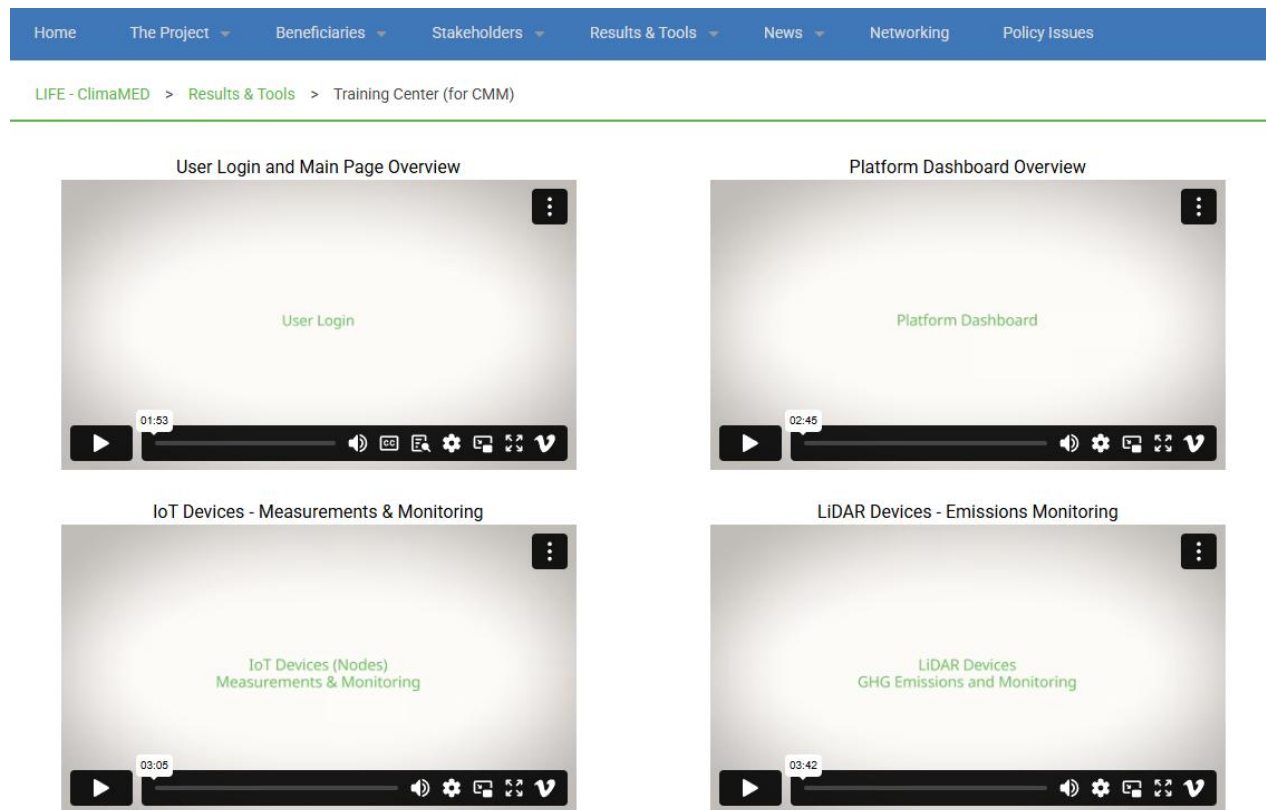


Figure 1. ClimaMED project CMM Training Center.

By providing a comprehensive, structured and interactive learning experience, the Multimedia Training Center plays a crucial role in enhancing user proficiency with the CMM platform. It empowers users with the knowledge to effectively engage with GHG monitoring and environmental data management tools, supporting the overall objectives of the LIFE ClimaMED project. The following sections present each video tutorial in detail. Additionally, the report outlines the multilingual subtitle support available for the tutorials and provides an appendix with the full English subtitles for reference.

Training Center

The Multimedia Training Center consists of a structured set of video tutorials designed to help users navigate and operate the CMM platform effectively. Each tutorial focuses on a specific feature or functionality of the platform, guiding users step-by-step through key operations such as logging in, monitoring emissions, managing settings, and handling system configurations.

To ensure accessibility, the tutorials are available in a dedicated Vimeo playlist, allowing users to access the content on demand. Each video includes English and Greek subtitles, and additional languages can be added in the future to accommodate a broader audience. Screenshots are provided for each tutorial to give users a preview of the training content.

The following sections present each tutorial in detail, including a summary of the tutorial, a direct link to the video, and a representative screenshot.

User Login

This tutorial provides an introduction to the CMM platform's main screen, explaining its features for non-authenticated users. The interactive map displays device locations in real-time, while toggle buttons allow users to filter devices based on type. Users can zoom and navigate through the map to focus on specific regions or devices.

The tutorial also demonstrates the login process, guiding users to enter their credentials and sign into the platform. Once logged in, users can edit their profile settings, including updated personal information and changing their password. Additionally, the tutorial explains how to switch between English (EN) and Greek (EL) using the language toggle button, ensuring accessibility for multilingual users.

Video link: <https://vimeo.com/105332630>

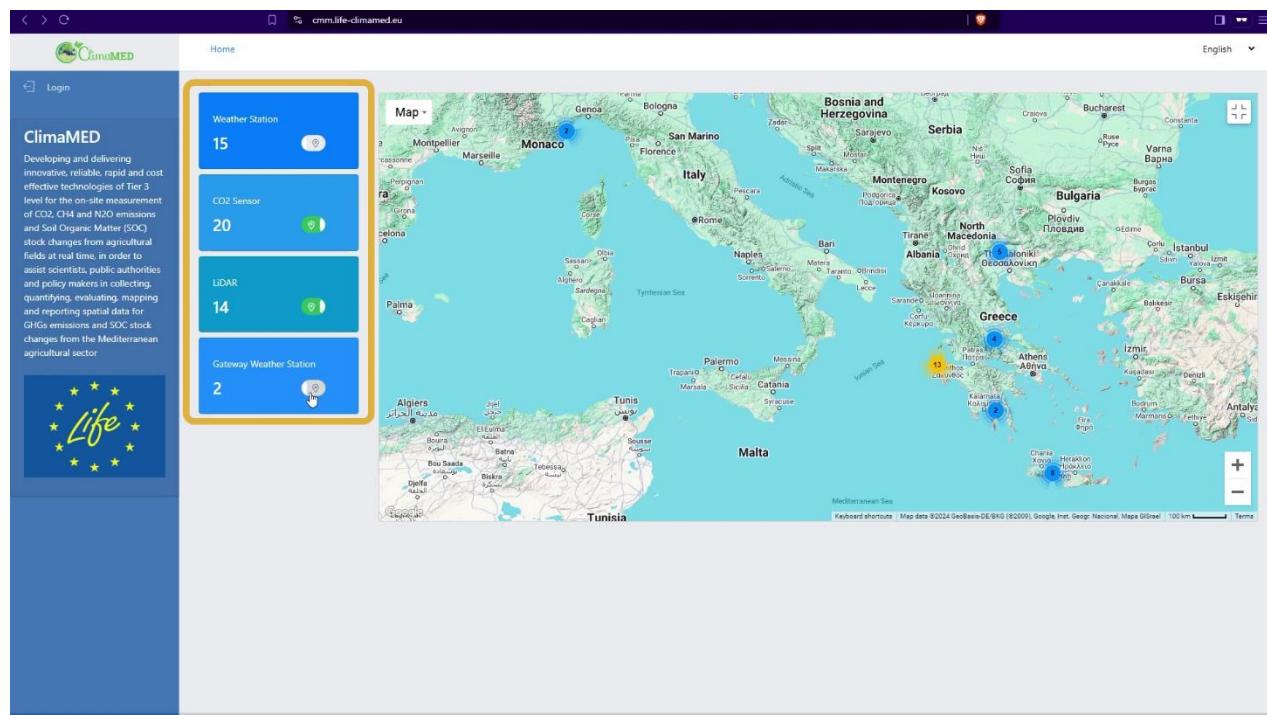


Figure 2. A screenshot from the "User Login" tutorial, demonstrating key functionalities of the CMM platform. The tutorial covers logging in, filtering devices, accessing profile settings and switching between languages.

User Login

This tutorial introduces the main dashboard of the CMM platform, where users can view GHG emissions data through an interactive interface. The dashboard provides an overview of total CO₂ emissions along with separate values for CO₂, CH₄, and N₂O, which users can toggle on or off to customize the displayed information. The tutorial explains how users can navigate through interactive charts and graphs, enabling real-time data visualization.

Additionally, the tutorial introduces the feature for selecting time period, which allows users to filter emissions data based on all-time records, the current year, or the previous year. The interactive map updates dynamically in response to these selections, displaying real-time locations of LiDAR devices and their contributions to total emissions. Users can click on specific device markers to access detailed emissions data.

By the end of the tutorial, users will have a clear understanding of how to analyze GHG emissions trends, interpret dashboard metrics, and utilize interactive tools to refine their data views.

Video link: <https://vimeo.com/1053326337>

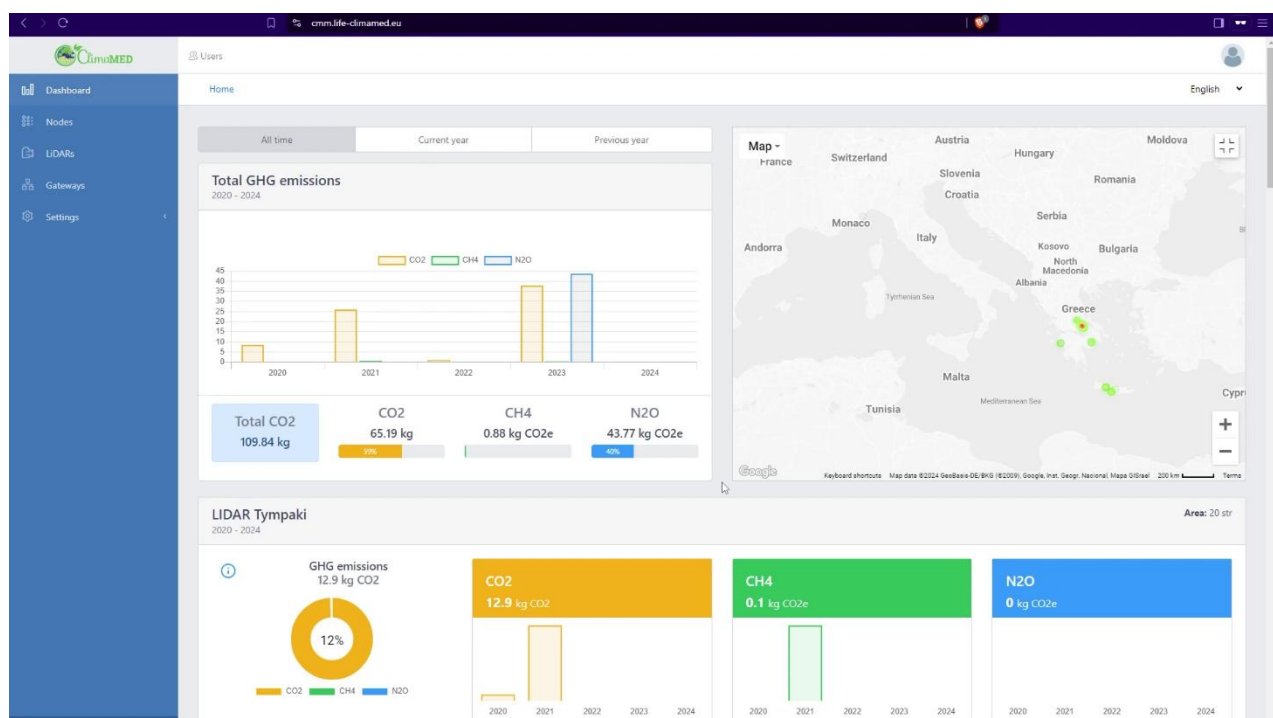


Figure 3. A screenshot from the "Platform Dashboard Overview" tutorial, showcasing the interactive GHG emissions charts, time period selection tool, and real-time emissions mapping features.

IoT Devices - Measurements & Monitoring

This tutorial explains how to monitor IoT device measurements on the CMM platform using the interactive map and device list. Users can select an IoT device by either clicking on its marker on the map or using the device list below. The tutorial demonstrates how to view the latest measurement values and utilize filtering options to narrow down results based on device type.

Additionally, users can access a detailed measurement view, which allows them to analyze historical data over a selected time period. The tutorial illustrates how to zoom into the chart for deeper analysis, hover over data points to see precise values, and reset the chart view if needed. The final part of the tutorial covers downloading measurement data in various formats for external use.

Video link: <https://vimeo.com/1053326370>

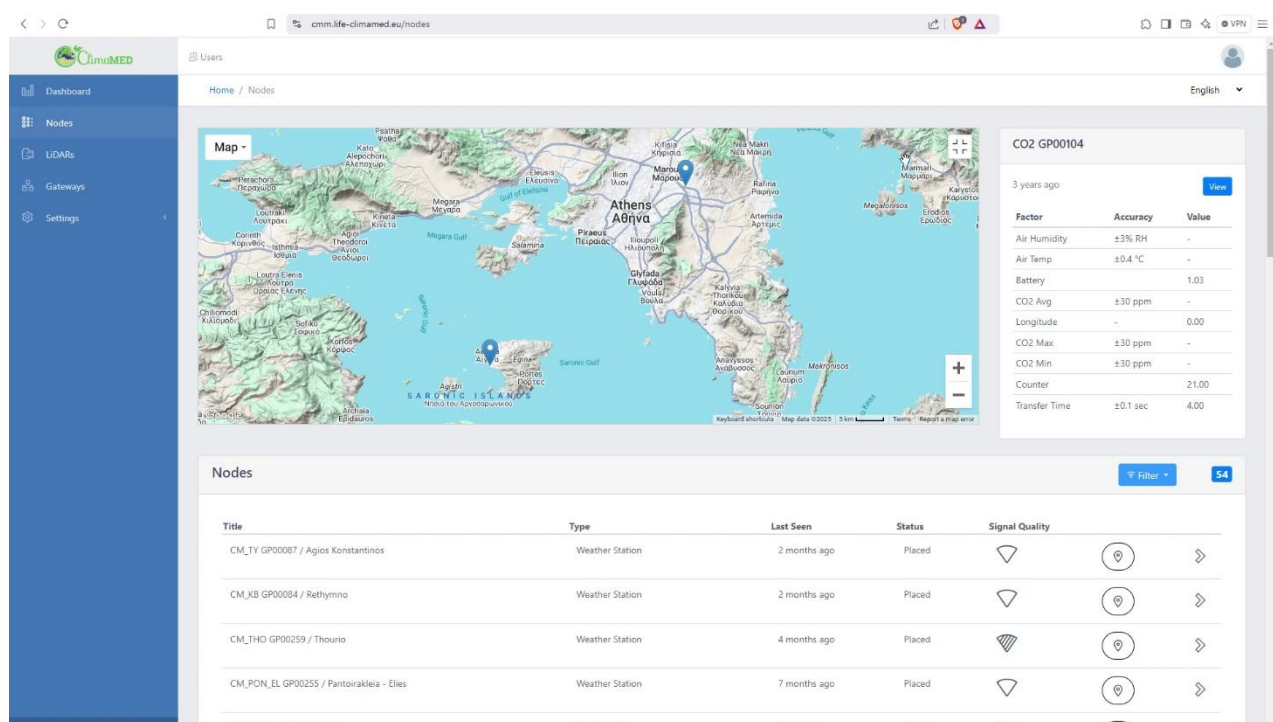


Figure 4. A screenshot from the "IoT Devices - Measurements & Monitoring" tutorial, showing the interactive map, measurement panel, and device list.

LiDAR Devices - Emissions Monitoring

This tutorial focuses on the monitoring of GHG emissions from LiDAR devices within the CMM platform. Users are guided through the main LiDAR interface, which includes an interactive map and device list displaying the locations and statuses of all registered LiDAR devices. It demonstrates how to select a device, either from the map or the list and view its detailed emissions data.

The tutorial also explains how users can access the measurement panel, which presents the total mean emissions of CO₂, CH₄, and N₂O over a defined period. Users can apply time filters to refine the data display, choosing between all-time data, the current year, or the previous year. Additionally, the tutorial highlights the ability to download emissions data in different formats for further analysis.

For users with managerial privileges, the tutorial also covers LiDAR settings and measurement validation. This feature allows managers to review, validate or exclude specific measurements based on predefined accuracy thresholds.

Video link: <https://vimeo.com/1053326457>

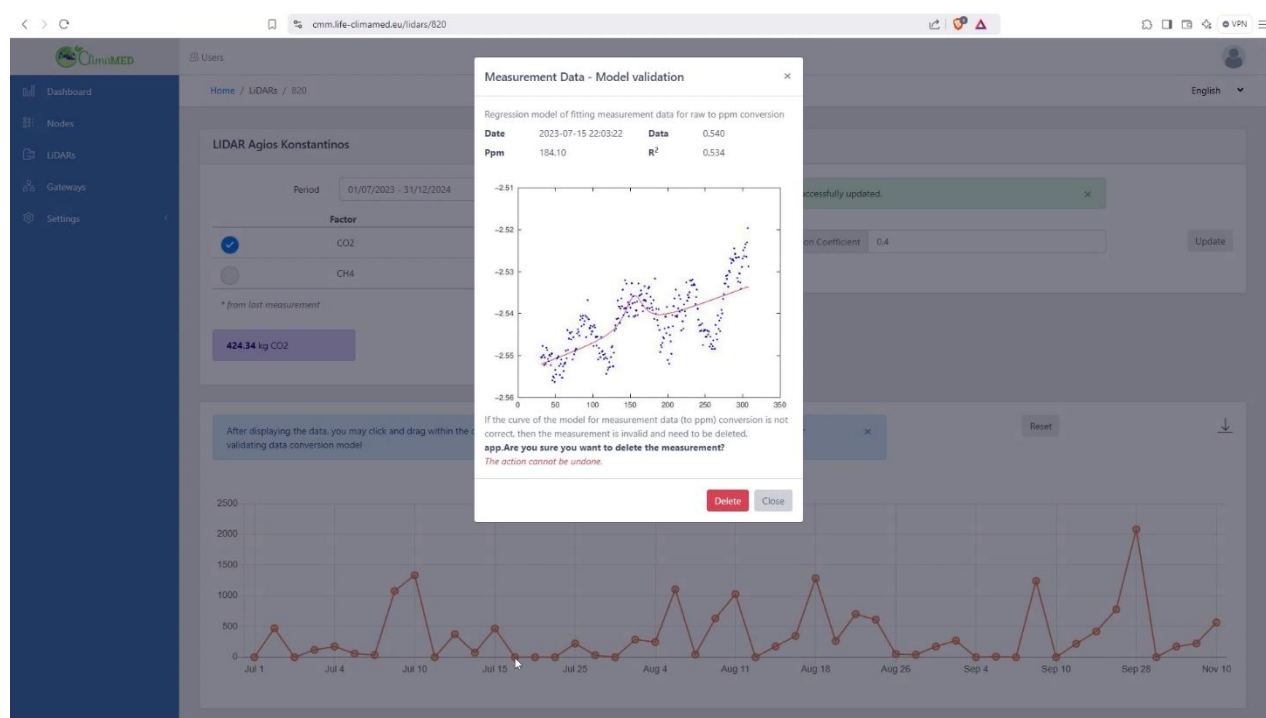


Figure 5. A screenshot from the "LiDAR Devices - Emissions Monitoring" tutorial, showcasing the manager's measurement validation interface, including regression model analysis for raw-to-ppm conversion and measurement verification tools.

Soil Organic Carbon (SOC)

The Soil Organic Carbon (SOC) module complements the greenhouse gas monitoring functions of the CMM platform by presenting the annual change in soil organic carbon stocks for the monitored agricultural fields. The module brings together field-level information and displays SOC results through an overall time-series view, a map of monitored locations and individual field values. SOC values are expressed as the annual rate of change in soil carbon stocks (kg C/ha/year).

Unlike the other functions described in this Training Center, the SOC module does not have a separate video tutorial. This is because the field setup and the main data-entry workflow on which the SOC calculation depends are already covered by the *Settings - Cultivation Areas Management (Manager)* tutorial (Land Parcels in the CMM interface). Land parcels must first be created and associated with the relevant monitoring device, crop type, area size, crop yield and year. These records provide the field context required by the SOC module.

Once the land parcel has been configured, the SOC workflow uses field-level agricultural information such as harvested quantities, organic material inputs, residue management, fuel consumption and NDVI values. The platform uses these inputs to calculate and visualise the annual change in SOC for each field, supporting continued monitoring of soil carbon trends alongside the project's greenhouse gas measurements.

Related video link: <https://vimeo.com/1053326627> (Settings - Cultivation Areas Management / Land Parcels)

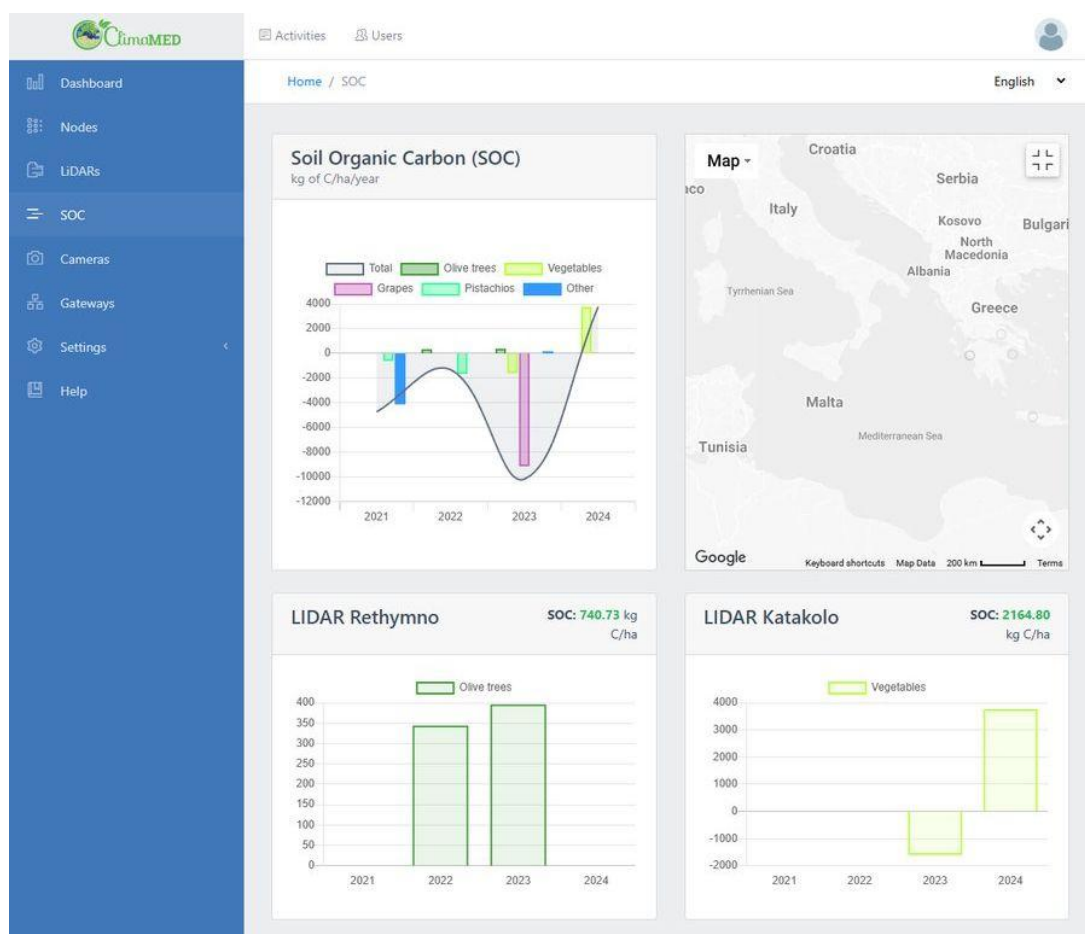


Figure 6. The CMM platform SOC module, showing the overall SOC trend across monitored fields, the map of monitored locations, and individual field-level SOC values.

Gateway Devices Monitoring (Manager)

This tutorial provides an overview of how managers can monitor gateway devices within the CMM platform. The main gateway interface consists of an interactive map and a device list, displaying the locations and statuses of all registered gateways. The tutorial demonstrates how managers can select a gateway by clicking on its map marker or by using the list to view key information, including title, last seen timestamp, coordinates, comments and public IP address.

Unlike IoT and LiDAR devices, gateways do not have a dedicated measurement panel. Instead, all relevant details are available within the main interface, allowing managers to assess quickly device connectivity and status. The tutorial ensures that users understand how to navigate the gateway section, utilize the interactive tools and access essential monitoring information for networked devices.

Video link: <https://vimeo.com/1053326513>

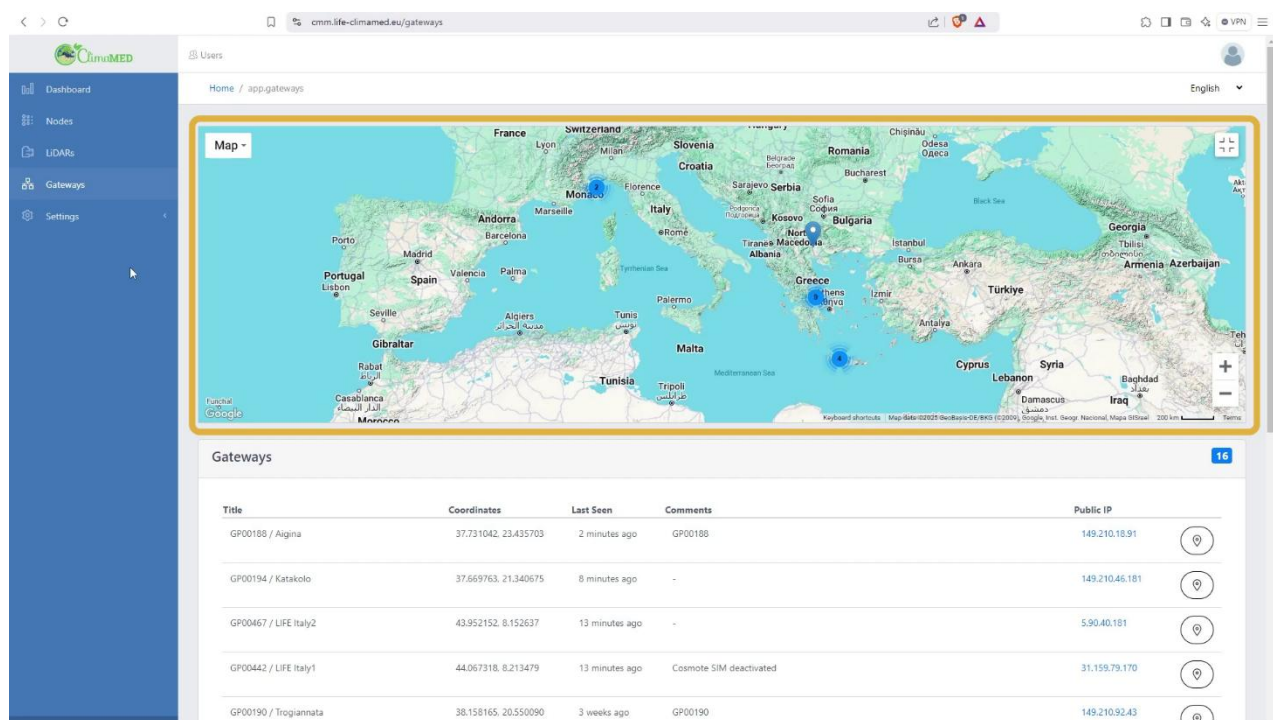


Figure 7. A screenshot from the "Gateway Devices Monitoring (Manager)" tutorial, displaying the interactive map, gateway list, and device status information.

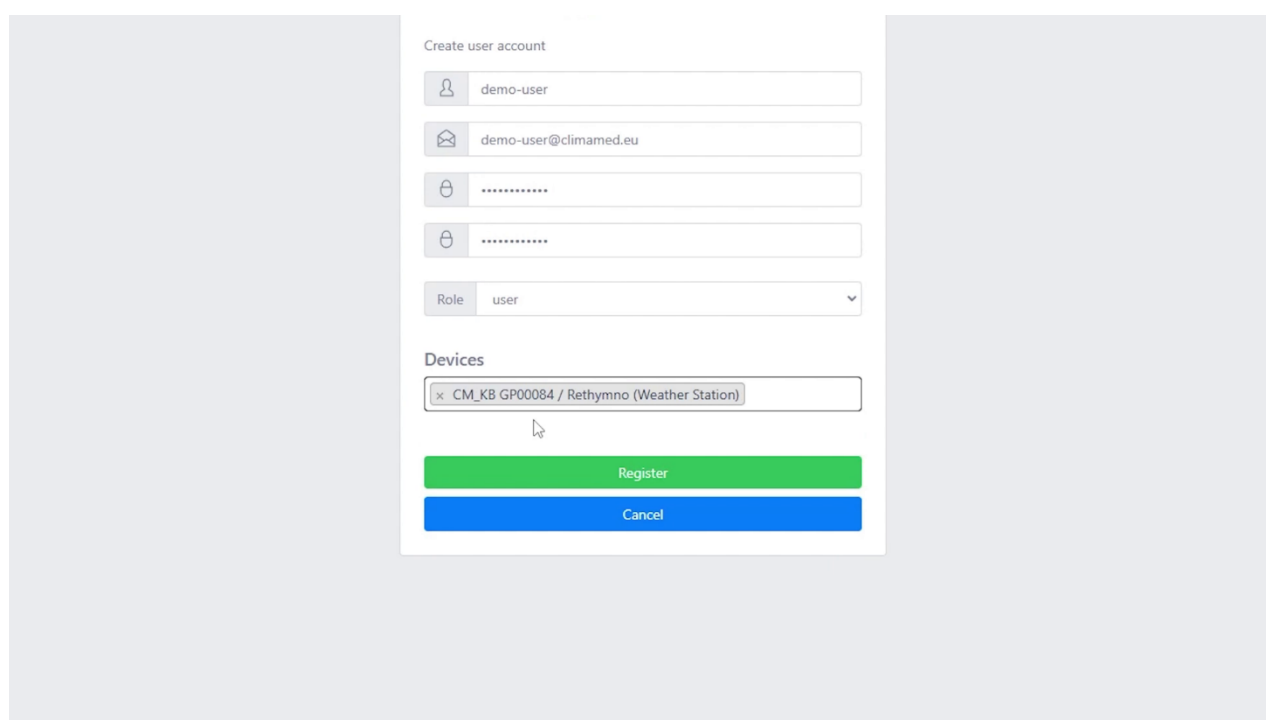
Settings - Users Management (Manager)

This tutorial provides a step-by-step guide on how managers can add, edit and delete users within the CMM platform. The Users Management interface allows managers to view a list of all registered users, including key details such as username, email, role, and

assigned devices. The tutorial explains how to search for a specific user, facilitating the effective management and access of the platform.

The tutorial also demonstrates how to create a new user, requiring managers to input basic details (name, email, password) and assign roles (User or Manager). For the User role, multiple devices can be assigned, ensuring appropriate platform access. Additionally, the tutorial covers the option to edit existing users, update role assignments, passwords, and device access. Finally, the tutorial explains the process to delete a user, emphasizing that this action is permanent and should be performed with caution.

Video link: <https://vimeo.com/1053326544>



Create user account

Role: user

Devices

Register

Cancel

Figure 8. A screenshot from the "Settings - Users Management (Manager)" tutorial, demonstrating the user registration process, including role selection and assigning a monitoring device to the user.

Settings - Cultivations Management (Manager)

This tutorial explains how managers can define and manage cultivation periods for predefined crop types within the CMM platform. The interface Cultivations Management provides an overview of all registered crop types and their associated cultivation periods, ensuring accurate data management for agricultural monitoring.

The tutorial demonstrates how to assign a cultivation period to an existing crop type by specifying the start and end dates. Additionally, it covers how to edit existing cultivation periods, allowing managers to update the timeframe of a crop's growing cycle. The

tutorial also explains how to remove a cultivation period, emphasizing that this action is irreversible.

By the end of this tutorial, managers will understand how to manage effectively cultivation timelines, ensuring proper data alignment between agricultural monitoring and GHG emission tracking.

Video link: <https://vimeo.com/1053326570>

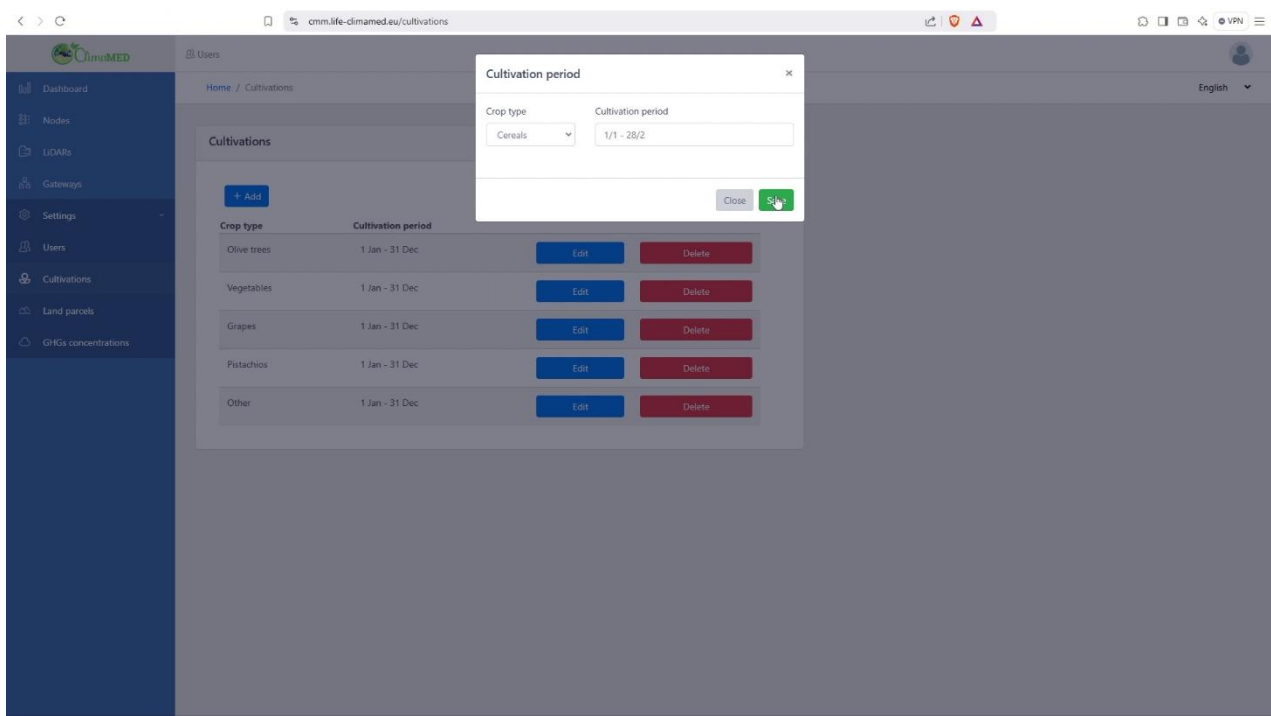


Figure 9. A screenshot from the "Settings - Cultivations Management (Manager)" tutorial, showing the interface for assigning cultivation periods to predefined crop types.

Settings - Cultivation Areas Management (Manager)

The tutorial guides managers through the process to manage cultivation areas in the CMM platform. Cultivation areas represent monitored agricultural fields where devices collect data for analysis of GHG emissions. The interface Cultivation Areas Management provides an overview of all registered areas, displaying key details such as the associated device, crop type, area size, crop yield and year.

The tutorial demonstrates how to add a new cultivation area, select the appropriate device, specify the crop type and define the area size and yield data. It also covers how to edit an existing cultivation area entry, allowing managers to update associated crop types, device assignments, or yield records. Finally, the tutorial explains how to delete a cultivation area, ensuring that outdated or incorrect entries can be removed when necessary.

By the end of this tutorial, managers will have a clear understanding of how to maintain and update cultivation area records, ensuring accurate integration between agricultural activities and emissions monitoring.

Video link: <https://vimeo.com/1053326627>

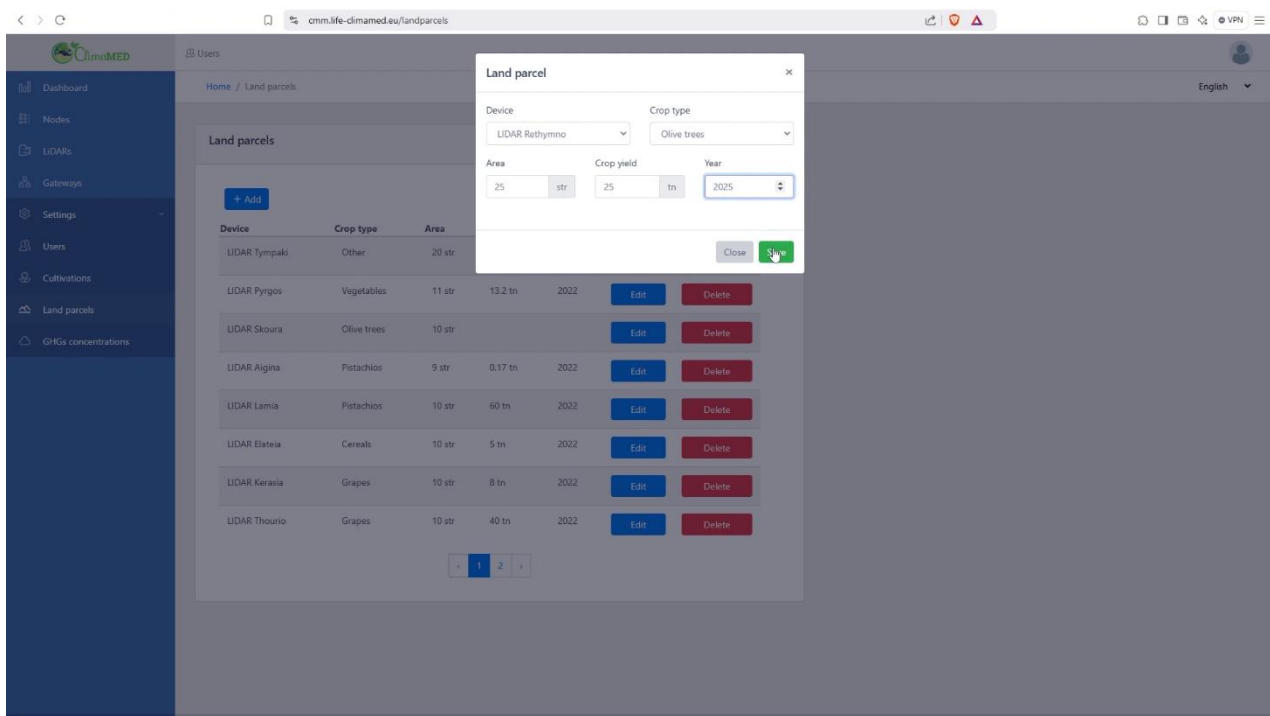


Figure 10. A screenshot from the "Settings - Cultivation Areas Management (Manager)" tutorial, showing the interface for managing cultivation areas, including device selection, crop type assignment, and yield data entry.

Settings - Background GHG Emissions Management (Manager)

This tutorial explains how managers can create, edit, and delete background GHG concentration values for different greenhouse gases, including CO₂, CH₄, and N₂O. The Background GHG Emissions Management interface provides an overview of all registered values, allowing managers to maintain accurate records of background emissions over time.

The tutorial demonstrates how to add a new background concentration entry, where users specify gas type and year, ensuring that emissions data remains properly categorized. Additionally, the tutorial covers how to edit existing records, allowing managers to update previously entered values. The final section explains how to delete a background GHG concentration entry, highlighting that this action is permanent and requires careful review before execution.

By the end of this tutorial, managers will have a clear understanding of how to maintain and update background emissions data, ensuring consistency in GHG monitoring and reporting.

Video link: <https://vimeo.com/1053326684>

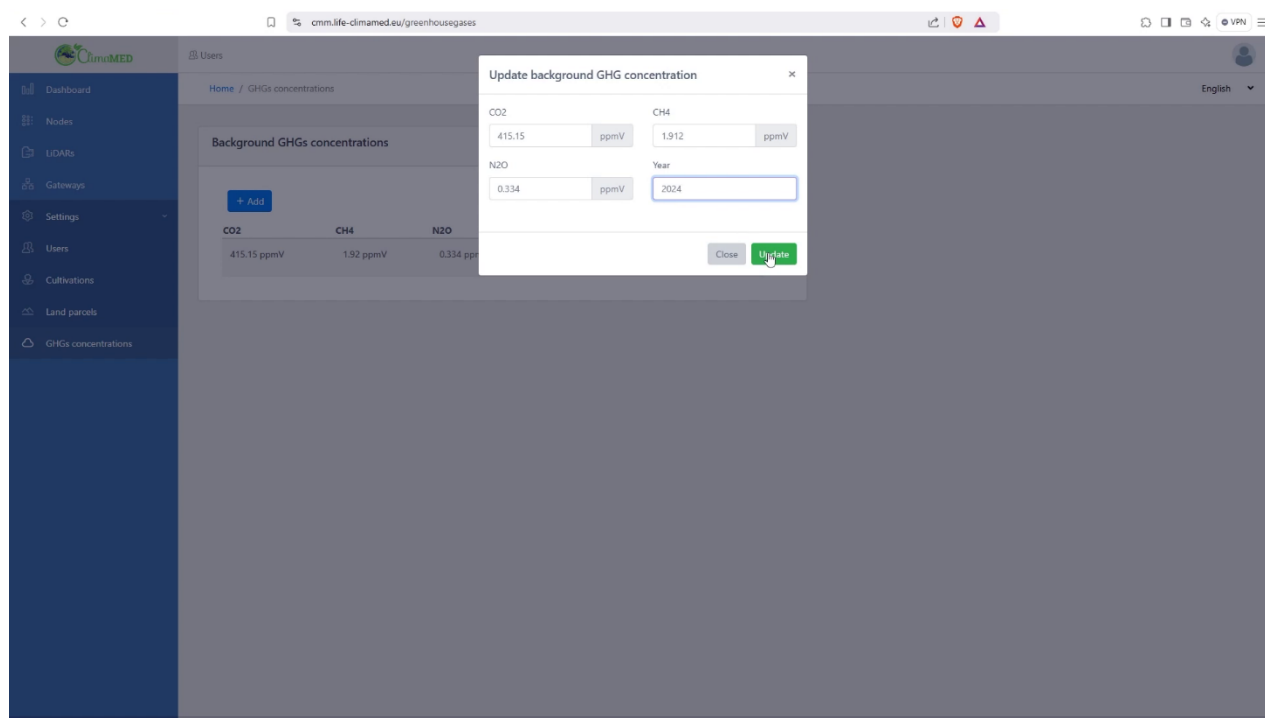


Figure 11. A screenshot from the "Settings - Background GHG Emissions Management (Manager)" tutorial, showing the interface for editing background concentration values for CO₂, CH₄, and N₂O.

Subtitle Support and Multilingual Capabilities

The Multimedia Training Center ensures broad accessibility by incorporating subtitles in multiple languages. Each video tutorial includes English and Greek subtitles, allowing users to follow along with the content in their preferred language. The subtitle system is designed to be flexible, enabling the addition of further languages in the future to accommodate a broader audience.

All subtitles are embedded within the Vimeo platform, where users can enable or disable them as needed. Vimeo's subtitle feature allows seamless switching between available languages, ensuring that users from different linguistic backgrounds can be effectively engaged with the training material.

The subtitle files are stored separately from the videos, facilitating the integration of additional translations without modifying the original video content. This approach

ensures that the training center remains scalable and adaptable, supporting future expansions in language accessibility. In the appendix, the complete English subtitles for each tutorial are provided as reference material. These transcripts can be used as a basis for further translation efforts to support additional languages as needed.

Appendix: English Subtitles

The following section includes the complete **English subtitles** for all video tutorials in the Multimedia Training Center. These transcripts provide a reference for accessibility and future translations.

User Login

1

00:00:09,230 --> 00:00:14,000

User Login

2

00:00:16,230 --> 00:00:22,100

This is the main screen of the Center of GHGs Monitoring and Management (CMM) platform, available to non-authenticated users.

3

00:00:22,510 --> 00:00:28,380

Here, you can see an interactive map displaying device locations in real-time.

4

00:00:28,380 --> 00:00:34,250

The map provides a visual overview of all active devices and their locations.

5

00:00:36,140 --> 00:00:42,010

The toggle buttons located beside the screen allow you to filter devices based on their type.

6

00:00:42,300 --> 00:00:48,170

The map markers will update automatically based on your filter selection.

7

00:00:49,420 --> 00:00:55,290

Use the zoom controls (ctrl + mouse scroll) and drag the map to focus on specific regions.

8

00:00:57,310 --> 00:01:04,120

You can click on any device marker to view its details, such as type and installation date.

9

00:01:11,330 --> 00:01:15,480

Click on the 'Login' button on the top-left corner to login to your account.

10

00:01:17,080 --> 00:01:22,340

Use your email and password to sign in.

11

00:01:27,260 --> 00:01:32,510

Click the profile icon in the top-right corner
to access and edit your profile settings such as your password.

12

00:01:38,060 --> 00:01:42,490

Click the language switch button located below the profile icon
to toggle between English (EN) and Greek (EL).

Platform Dashboard Overview

1

00:00:09,230 --> 00:00:14,000

Platform Dashboard

2

00:00:15,500 --> 00:00:20,440

This is the main dashboard of the Center of GHGs
Monitoring and Management (CMM) platform.

3

00:00:20,560 --> 00:00:25,320

Here, you can view key data such as total greenhouse
gas (GHG) emissions and emissions per lidar.

4

00:00:25,470 --> 00:00:29,410

The dashboard is designed to provide a comprehensive overview at a glance.

5

00:00:29,580 --> 00:00:33,520

The information displayed in the dashboard view may differ depending on the user role and assigned monitoring devices.

6

00:00:36,380 --> 00:00:41,450

The dashboard features an interactive bar graph that visualizes greenhouse gas emissions.

7

00:00:42,060 --> 00:00:47,110

It displays total emissions for CO₂, CH₄, and N₂O, along with the combined total CO₂ equivalent.

8

00:00:47,540 --> 00:00:52,590

You can toggle specific gases on or off to focus on individual contributions.

9

00:00:56,080 --> 00:01:00,510

The graph also provides options to display data for all time, the current year, or the previous year.

10

00:01:01,300 --> 00:01:06,090

This flexibility allows for a deeper analysis of trends and comparisons over time.

11

00:01:11,160 --> 00:01:15,300

The map displays the locations of LiDAR devices along with their emissions data in real-time.

12

00:01:15,530 --> 00:01:20,360

Use the zoom controls or mouse scroll to navigate and focus on specific regions or devices as needed.

13

00:01:21,090 --> 00:01:25,230

Click on any device marker to view detailed emissions information for that specific device.

14

00:01:25,560 --> 00:01:29,340

The map responds dynamically to the graph interaction.

15

00:01:38,120 --> 00:01:44,220

For example, hiding CO₂ measurements on the graph will also

hide the devices contributing to CH₄ emissions on the map.

16

00:01:49,200 --> 00:01:54,300

Below the graph and map, you will find a list of devices contributing to the total measurements within the selected time period.

17

00:01:55,050 --> 00:02:00,330

This list includes detailed information about each LiDAR device's total GHG emissions, presented through interactive charts and measurement graphs per gas.

18

00:02:00,590 --> 00:02:06,230

Additionally, information about each field's contribution to the total GHG emissions is provided for a deeper analysis.

19

00:02:19,150 --> 00:02:25,330

On the left side of the dashboard, there is an expandable menu for easy navigation.

20

00:02:26,050 --> 00:02:31,290

You can use this menu to select different types of devices, such as IoT nodes, LiDAR devices, and Gateways.



21

00:02:32,060 --> 00:02:37,300

The menu also provides access to various settings for further configuration.

IoT Devices - Measurements & Monitoring

1

00:00:09,230 --> 00:00:14,000

IoT Devices (Nodes)

Measurements & Monitoring

2

00:00:15,300 --> 00:00:20,240

This tutorial demonstrates how to monitor IoT device measurements on the CMM platform.

3

00:00:21,190 --> 00:00:28,120

You will learn how to use the interactive map or the device list table to view data and download measurements for a selected time period.

4

00:00:28,540 --> 00:00:33,480

Select 'Nodes' from the main menu on the left side of the screen to navigate to the main nodes interface.

5

00:00:36,110 --> 00:00:41,240

The main nodes interface features an interactive map that displays the locations of IoT devices.

6

00:00:41,240 --> 00:00:46,080

Also a detailed list providing key information about each device, such as ID, location, and status.

7

00:00:50,230 --> 00:00:55,170

You can check the latest IoT measurement values either by selecting the node on the interactive map

8

00:00:57,220 --> 00:01:02,200

or by clicking the pin icon on the device entry in the IoT list below the map.

9

00:01:19,250 --> 00:01:24,190

The list can also be filtered by device type for easier navigation.

10

00:01:41,490 --> 00:01:46,590

To view a device's measurements over a defined period, select device (pin) on the interactive map.

11

00:01:46,590 --> 00:01:52,070

Then click 'View' on the measurement panel
or click the arrow icon on the device entry in the list.

12

00:01:56,480 --> 00:02:02,470

The new measurement screen presents detailed trends for the selected device,
displaying values for specific parameters in a clear and interactive chart format.

13

00:02:03,380 --> 00:02:09,330

You can select specific factor values of the device to display on the chart
and customize the time period to explore data trends in greater detail.

14

00:02:32,530 --> 00:02:38,480

Use the click-and-drag feature within the chart area to
zoom in on specific time periods for deeper analysis.

15

00:02:41,300 --> 00:02:45,290

To reset the chart view, click the 'Reset' button.

16

00:02:45,510 --> 00:02:49,500

Hover over the chart lines to view precise measurement values at individual points in time.

17

00:02:50,270 --> 00:02:54,260

To export the data, click the download icon at the top right and select your preferred format for the chosen time period.

LiDAR Devices - Emissions Monitoring

1

00:00:09,230 --> 00:00:14,000

LiDAR Devices

GHG Emissions and Monitoring

2

00:00:15,040 --> 00:00:18,480

This tutorial demonstrates how to monitor LiDAR device emissions on the CMM platform.

3

00:00:18,480 --> 00:00:24,460

You will learn how to use the interactive map or the device list table to view emissions data and download measurements for a selected time period.

4

00:00:25,310 --> 00:00:29,150

Select 'LiDARs' from the main menu on the left side of

the screen to navigate to the main LiDARs interface.

5

00:00:31,320 --> 00:00:35,410

The main LiDAR interface features an interactive map displaying the locations of LiDAR devices across various regions.

6

00:00:36,440 --> 00:00:41,470

Below the map, a detailed list provides key information for each device, such as its title, last measurement, last recording, status, and signal quality.

7

00:00:42,310 --> 00:00:47,360

You can check the latest GHG emissions data by selecting a device on the interactive map or clicking the pin icon on the corresponding device entry in the LiDAR list.

8

00:01:01,210 --> 00:01:05,300

For regular users, only the LiDAR devices registered to them are displayed, ensuring a personalized view.

9

00:01:09,340 --> 00:01:14,440

To view a device's emissions data over a defined period, select device (pin) on the interactive map.

10

00:01:14,440 --> 00:01:19,520

Then click 'View' on the emissions panel
or click the arrow icon on the device entry in the list.

11

00:01:26,410 --> 00:01:31,050

The new measurement screen presents detailed trends for
the selected LiDAR device, displaying values for specific gases.

12

00:01:31,050 --> 00:01:34,290

Such as CO₂, CH₄, and N₂O, in a clear and interactive chart format.

13

00:01:35,060 --> 00:01:39,590

You can select specific gases to display on the chart and customize
the time period to explore emissions trends in greater detail.

14

00:01:59,490 --> 00:02:04,580

Use the click-and-drag feature within the chart area to
zoom in on specific time periods for deeper analysis.

15

00:02:06,230 --> 00:02:11,280

Hover over the chart lines to view precise emissions values at individual points in time.

16

00:02:15,360 --> 00:02:20,410

To reset the chart view, click the 'Reset' button.

17

00:02:21,040 --> 00:02:26,090

To export the data, click the download icon at the top right and select your preferred format for the chosen time period.

18

00:02:30,390 --> 00:02:34,480

The LiDAR measurement screen includes two advanced functionalities available exclusively to users with the manager role.

19

00:02:35,230 --> 00:02:42,260

The first functionality is located in the settings area, where managers can filter measurement values for a specific time period based on the Determination Coefficient factor.

20

00:02:43,460 --> 00:02:49,190

This allows for the exclusion of values that do not meet a specified threshold, ensuring only valid data is displayed.

21

00:02:53,140 --> 00:02:58,190

The second functionality is the ability to validate specific measurements directly from the chart.

22

00:02:58,190 --> 00:03:06,090

By clicking on a data point in the chart, a regression model for fitting measurement data to raw-to-ppm conversion is displayed.

23

00:03:09,230 --> 00:03:14,560

This model provides details such as the date, raw value, ppm conversion result, and the R^2 value for the regression.

24

00:03:14,560 --> 00:03:21,220

If the curve of the model indicates incorrect conversion, the measurement is deemed invalid and must be deleted by the manager.

25

00:03:26,490 --> 00:03:32,220

The deletion action is irreversible and ensures the accuracy of the data set.

Gateway Devices Monitoring (Manager)

1

00:00:09,230 --> 00:00:14,000

Gateway Devices - Monitoring
(Manager)

2

00:00:16,000 --> 00:00:20,540

This tutorial demonstrates how to monitor gateways on the CMM platform.

3

00:00:21,190 --> 00:00:27,230

You will learn how to use the interactive map or the gateway list table to view gateway details, such as coordinates, status, and public IP addresses.

4

00:00:28,260 --> 00:00:33,200

Select 'Gateways' from the main menu on the left side of the screen to navigate to the gateways interface.

5

00:00:45,520 --> 00:00:50,460

The main gateways interface features an interactive map displaying the locations of all registered gateways.

6

00:00:52,020 --> 00:00:58,170

Below the map, a detailed list provides key information for each gateway, including its title, coordinates, last seen timestamp and public IP address.

7

00:01:00,330 --> 00:01:07,020

You can view gateway information by selecting a gateway on the map or clicking the pin icon on the corresponding gateway entry in the list.

Settings - Users Management (Manager)

1

00:00:09,230 --> 00:00:14,000

Settings - Users Management
(Manager)

2

00:00:15,420 --> 00:00:20,580

This tutorial demonstrates how managers can manage users on the CMM platform using the 'Settings - Users' interface.

3

00:00:20,580 --> 00:00:25,210

You will learn how to create, edit, and delete users, as well as assign roles and device access.

4

00:00:28,480 --> 00:00:33,420

Select 'Settings' from the main menu on the left side of the screen.

5

00:00:33,420 --> 00:00:38,360

Then choose 'Users' to navigate to the Users Management interface.

6

00:00:41,520 --> 00:00:46,460

The Users Management interface displays a list of all registered users.

7

00:00:48,330 --> 00:00:53,270

For each user, you can view details such as their username, email, role, and the devices assigned to them.

8

00:00:55,140 --> 00:01:00,120

Use the search bar at the top to quickly locate a specific user.

9

00:01:08,250 --> 00:01:12,360

To create a new user, click the '+ Add' button.

10

00:01:13,590 --> 00:01:18,530

In the register screen, fill in the required details, such as username, email, and password.

11

00:01:26,170 --> 00:01:31,110

Assign the appropriate role - either 'user' or 'manager.'

12

00:01:32,150 --> 00:01:37,090

For the user role, you can assign multiple devices
by selecting them from the device dropdown list.

13

00:01:42,420 --> 00:01:47,360

Once all fields are completed, click 'Register' to add the new user.

14

00:01:54,100 --> 00:01:59,040

To edit an existing user, select the user from the list and click the 'Edit' button.

15

00:02:04,550 --> 00:02:09,490

The Edit User screen allows you to update the user's details,
including their username, email, password, role, and assigned devices.

16

00:02:12,540 --> 00:02:17,480

After making the changes, click 'Save' to confirm.

17

00:02:19,380 --> 00:02:24,320

To delete a user, select the user from the list and click the 'Delete' button.

18

00:02:25,510 --> 00:02:30,450

Confirm the action to remove the user permanently from the platform. Be cautious, as this action cannot be undone.

Settings - Cultivations Management (Manager)

1

00:00:09,230 --> 00:00:14,000

Settings - Cultivations Management
(Manager)

2

00:00:15,340 --> 00:00:22,470

This tutorial demonstrates how managers can manage cultivation periods for predefined crop types on the CMM platform using the 'Settings - Cultivations' interface.

3

00:00:24,070 --> 00:00:29,010

You will learn how to define new cultivation periods, edit existing entries, and delete entries.

4

00:00:33,080 --> 00:00:38,020

Select 'Settings' from the main menu on the left side of the screen.

5

00:00:38,020 --> 00:00:42,560

Then choose 'Cultivations' to navigate
to the Cultivations Management interface.

6

00:00:47,310 --> 00:00:53,110

The Cultivations Management interface displays a list of
predefined crop types and their associated cultivation periods.

7

00:00:53,110 --> 00:00:58,050

For each entry, you can view details such as
the crop type and the defined cultivation period.

8

00:00:59,200 --> 00:01:04,180

To add a new cultivation period, click the '+ Add' button.

9

00:01:05,530 --> 00:01:14,020

In the popup window, select the crop type from the dropdown menu
and define the cultivation period by specifying the start and end dates.

10

00:01:20,180 --> 00:01:25,120

Once all fields are completed, click 'Save' to add the new cultivation period.

11

00:01:30,100 --> 00:01:35,040

To edit an existing cultivation period,
click the 'Edit' button next to the entry.

12

00:01:36,070 --> 00:01:41,420

Update the cultivation period in the popup
window, then click 'Update' to confirm.

13

00:01:57,250 --> 00:02:02,230

To delete a cultivation period, click the 'Delete' button next to the entry.

14

00:02:02,230 --> 00:02:07,170

Confirm the action to remove the entry permanently.

Settings - Cultivation Areas Management (Manager)

1

00:00:09,230 --> 00:00:14,000

Settings - Land Parcels
(Manager)

2

00:00:15,410 --> 00:00:22,060

This tutorial demonstrates how users(managers) can manage cultivation areas on the CMM platform using the 'Settings - Land parcels' interface.

3

00:00:22,060 --> 00:00:26,290

Land parcels represent cultivation areas monitored with specific devices.

4

00:00:26,290 --> 00:00:32,540

You will learn how to create, edit, and delete land parcel entries, including assigning crop types, areas size, crop yield, and year.

5

00:00:34,260 --> 00:00:39,200

Select 'Settings' from the main menu on the left side of the screen.

6

00:00:39,200 --> 00:00:44,140

Then choose 'Land parcels' to navigate to the Land parcel management interface.

7

00:00:49,070 --> 00:00:54,010

The Land Parcels Management interface displays a list of all registered land parcels.

8

00:00:56,380 --> 00:01:01,360

For each entry, you can view details such as the associated device, crop type, area size, crop yield, and year.

9

00:01:04,120 --> 00:01:09,060

Use the search bar at the top to quickly locate a specific land parcel.

10

00:01:19,120 --> 00:01:24,060

To create a new land parcel entry, click the '+ Add' button.

11

00:01:25,170 --> 00:01:33,470

In the popup window, fill in the required details, including the associated device, crop type, area size, crop yield, and year.

12

00:01:51,270 --> 00:01:56,210

Once all fields are completed, click 'Save' to add the new land parcel entry.

13

00:02:06,440 --> 00:02:11,380

To edit an existing land parcel entry, click the 'Edit' button next to the entry.

14

00:02:15,280 --> 00:02:20,220

Update the details in the popup window, such as the crop type, area size, crop yield, or year.

15

00:02:26,330 --> 00:02:31,270

Once the changes are made, click 'Update' to confirm.

16

00:02:36,200 --> 00:02:42,210

To delete a land parcel entry, click the 'Delete' button next to the entry and confirm the action to remove the entry permanently.

Settings - Background GHG Emissions Management (Manager)

1

00:00:09,230 --> 00:00:14,000

Settings - Background GHG Concentration Management
(Manager)

2

00:00:15,230 --> 00:00:22,110

This tutorial demonstrates how managers can manage background GHG concentrations on the CMM platform using the 'Settings - GHGs Concentrations' interface.

3

00:00:22,110 --> 00:00:28,500

You will learn how to create, edit, and delete entries for GHGs concentration values, including details for CO₂, CH₄, N₂O, and the corresponding year.

4

00:00:32,080 --> 00:00:37,020

Select 'Settings' from the main menu on the left side of the screen.

5

00:00:37,020 --> 00:00:41,560

Then choose 'GHGs concentrations' to navigate to the Background GHGs Concentrations management interface.

6

00:00:45,030 --> 00:00:49,570

The Background GHGs Concentrations Management interface displays a list of all registered entries for CO₂, CH₄, N₂O, and their associated year.

7

00:00:51,200 --> 00:00:56,140

Use the search bar at the top to quickly locate a specific entry.

8

00:01:04,330 --> 00:01:09,270

To create a new entry, click the '+ Add' button.

9

00:01:11,550 --> 00:01:16,490

In the popup window, fill in the required details, including values for CO₂, CH₄, N₂O, and the year.

10

00:01:34,460 --> 00:01:39,400

Once all fields are completed, click 'Save' to add the new entry.

11

00:01:50,510 --> 00:01:55,450

To edit an existing background GHG concentration entry,
click the 'Edit' button next to the entry.

12

00:01:56,280 --> 00:02:01,260

Update the details in the popup window,
such as the CO₂, CH₄, N₂O values, or year.

13

00:02:03,070 --> 00:02:08,010

Once the changes are made, click 'Update' to confirm.

14

00:02:12,250 --> 00:02:18,260

To delete an entry, click the 'Delete' button next to the entry
and confirm the action to remove the entry permanently.