

Webinar on COPERT model to support National Greenhouse Gas Inventories from developing countries under the Enhanced Transparency Framework of the Paris Agreement

14 – 16 October 2025

Instructions for successful participation in the webinar on the COPERT model

Dear Participants,

The GHG Support unit of the UNFCCC secretariat welcomes you to this three-day webinar.

To ensure that you are well prepared and able to gain the maximum benefit from the webinar, we strongly encourage you to complete the tasks described in the preparatory instructions below before joining the webinar.

This webinar is designed to build upon the knowledge from the webinar organized in September 2024 and aims to enhance your understanding and experience in applying the COPERT model for estimating GHG emissions from road transport and to support the implementation of the enhanced transparency framework in your respective countries. To achieve these objectives, your good preparation and active engagement are required. Please see attached the agenda of the webinar.

All the materials of the previous webinar are available on our webpage and can be downloaded from the following link: <https://unfccc.int/process-and-meetings/transparency-and-reporting/support-for-developing-countries/ghg-support#WEBINARS-and-ONLINE-TRAININGS---TRAINING-MATERIALS-and-RECORDINGS> and the video is also accessible on YouTube: <https://www.youtube.com/playlist?list=PLBcZ22cUY9RLMgtqbbaAwvdW2tVfRw2Fs>.

Tasks to complete before joining the webinar

A. Software installation, update and preparation

Step 1: Download and install COPERT software: Follow the instructions below to download and install the software. During the webinar, we will not spend time on step 1. Therefore, please make sure that step 1 is fully completed **before** joining the webinar. If you have any questions or challenges, when implementing step 1, please contact us at GHGCapacityBuilding@unfccc.int

Since the webinar will include practical, hands-on exercises for applying the COPERT model, having the model downloaded and installed on your computer/laptop prior to the webinar will help you prepare for your participation and perform all the live exercises, applying all features and functions of COPERT.

Important note: please be aware that EMISIA released a new version of the software (COPERT v.5.8.1) in September 2024. Participants who have the previous version of the software (COPERT v.5.7.3 released in January 2024) installed on their computers / laptops are strongly encouraged to update it before attending the webinar by implementing the instructions provided below in session c- Updating COPERT software).

a. Download COPERT Software

Link to download the software: <https://copert.emisia.com/copert/download/>



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The industry standard
emissions **calculator**

Download Versions Methodology Documentation Support

Steps to download the software for free

- Register as shown below

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First Name * Last Name *

Email *

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Affiliation *

☐ Public authorities ☐ University ☐ Automotive industry ☐ Other private sector

☐ I agree to receive information and newsletters about EMISIA products

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SUBMIT & DOWNLOAD

Submit and start downloading the COPERT_V5.8.1.msi file



Thank you for your information

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Contact

General Enquiry
E info@emisiasa.com
Technical/Software support
E support@emisiasa.com

2024 EMISIA SA <https://www.emisia.com>

Download the Copert_V5.8.1.msi file

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COPERT_v5.8.1 (2).msi

↓ 20.8/43.8 MB • 9 seconds left



b. Installing COPERT Software

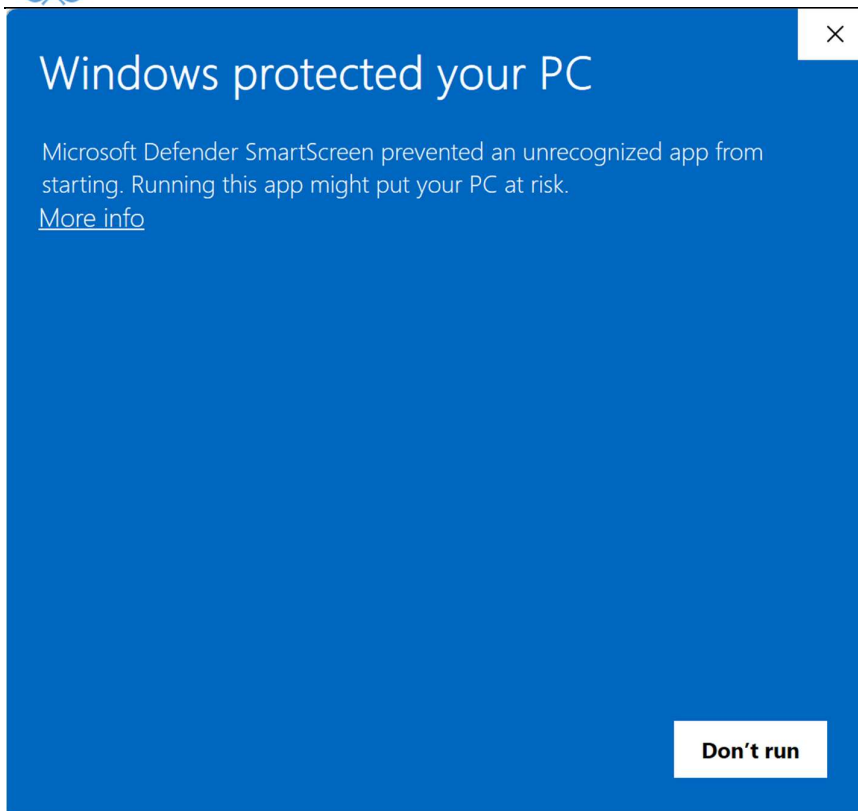
Recent download history



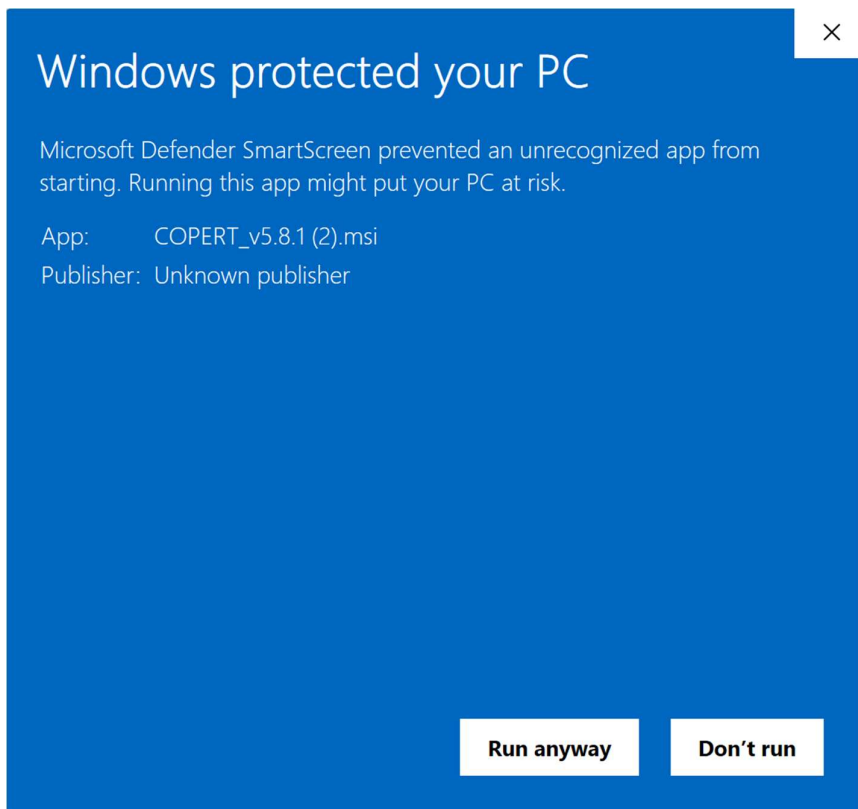
COPERT_v5.8.1 (2).msi

43.8 MB • Done

Once downloaded, double-click the Copert_V5.8.1.msi file to start the installation procedure.



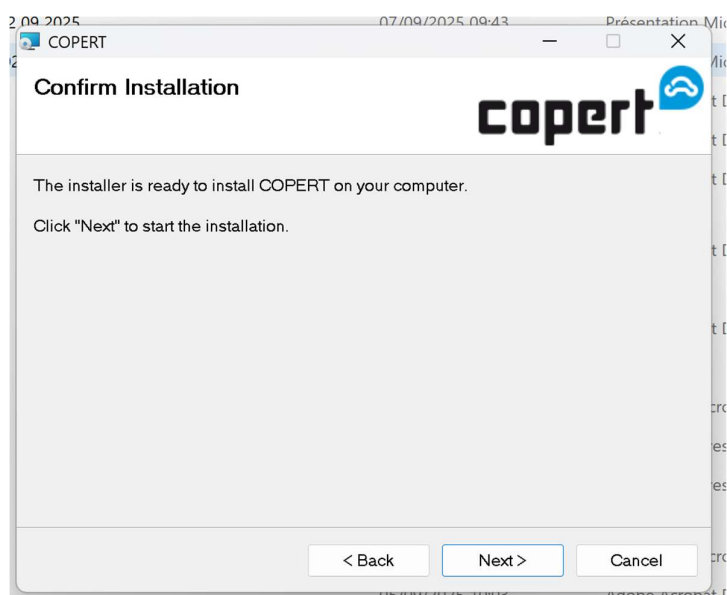
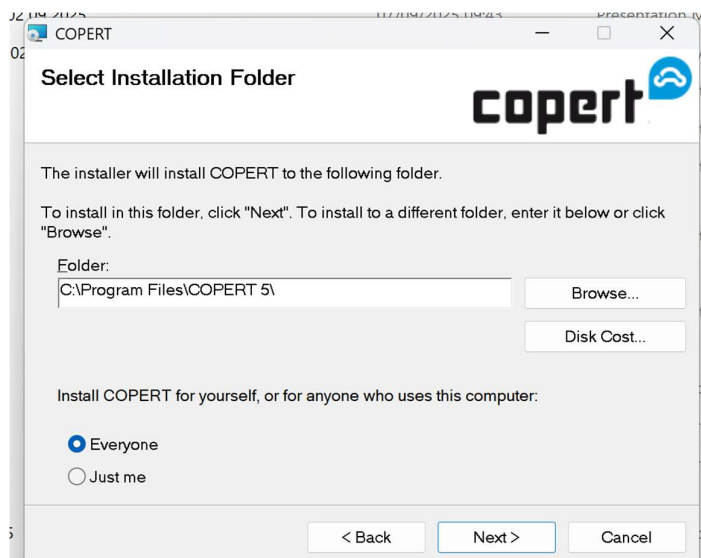
Click on "More info" (for those having Microsoft Defender installed)

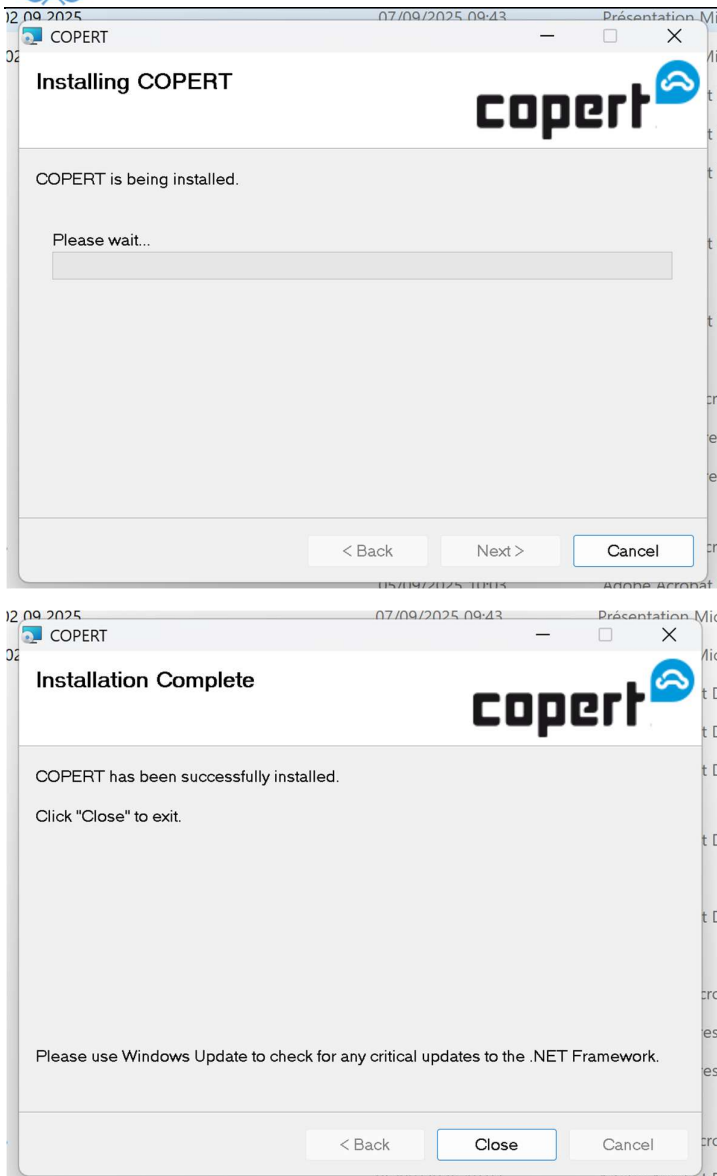


Click on "Run anyway" to install the COPERT file



Follow the required steps of the installation as illustrated below.

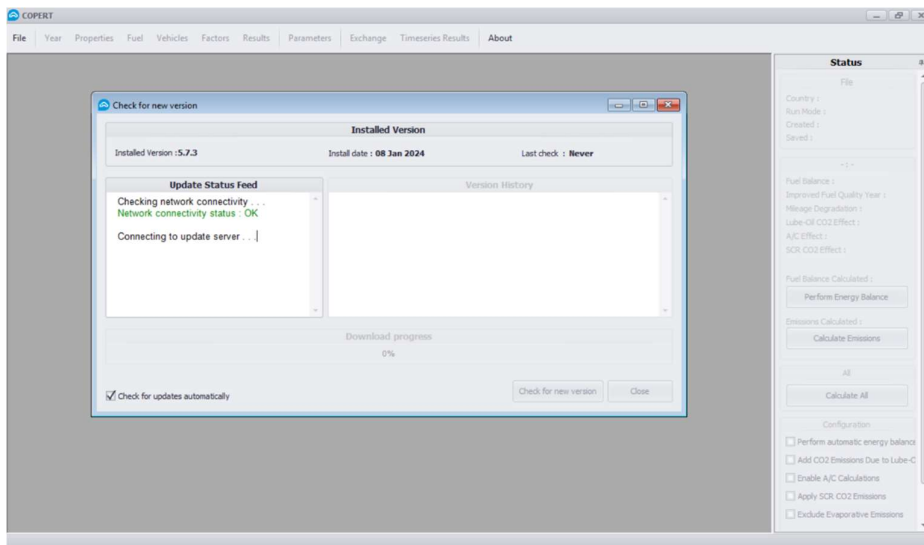
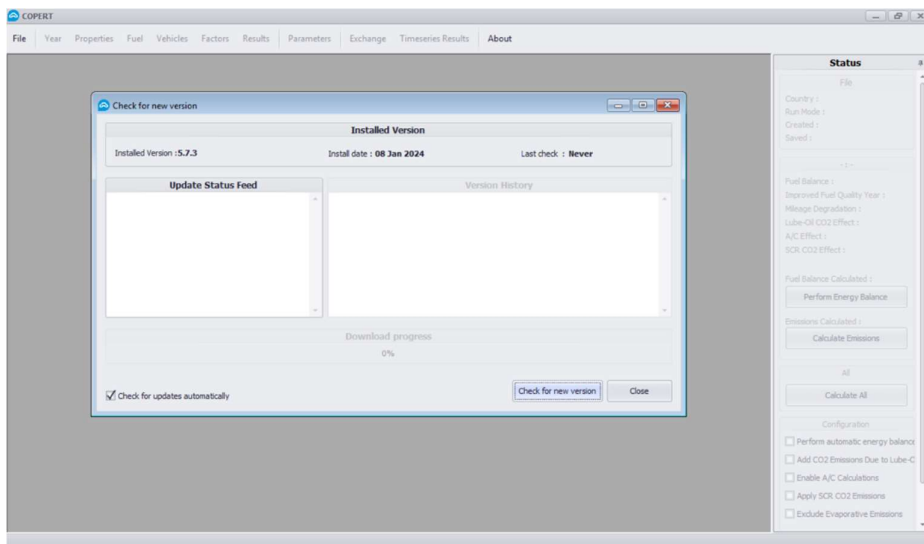
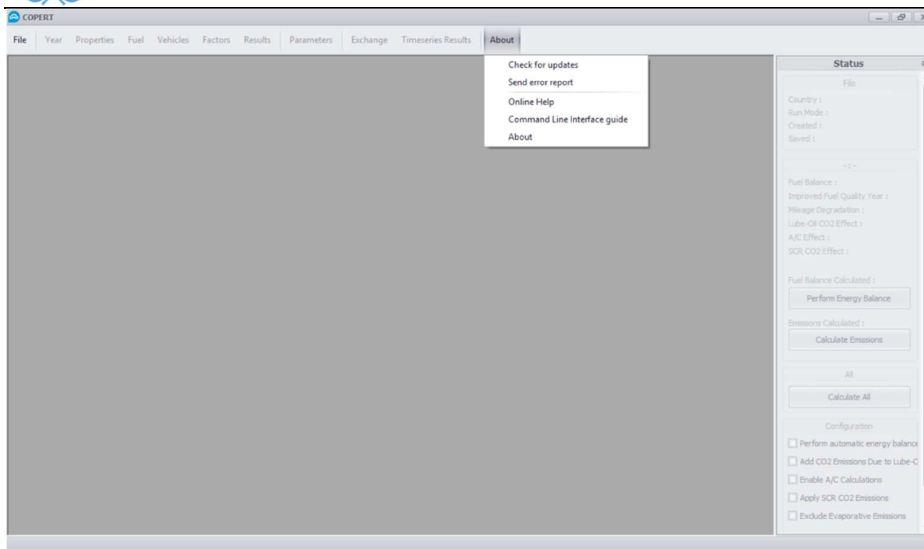


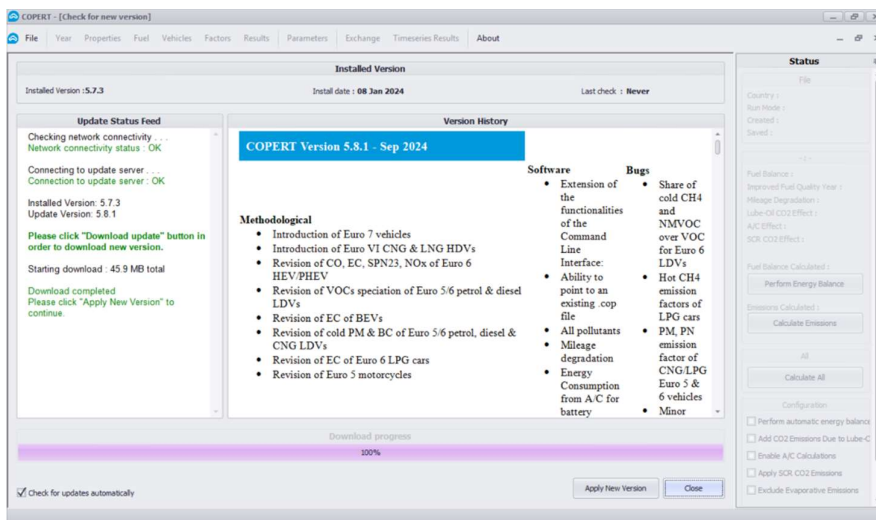
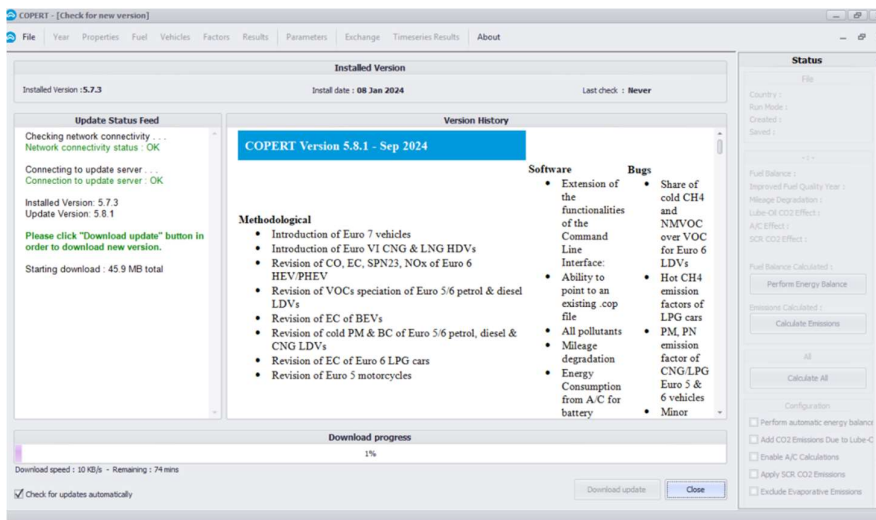
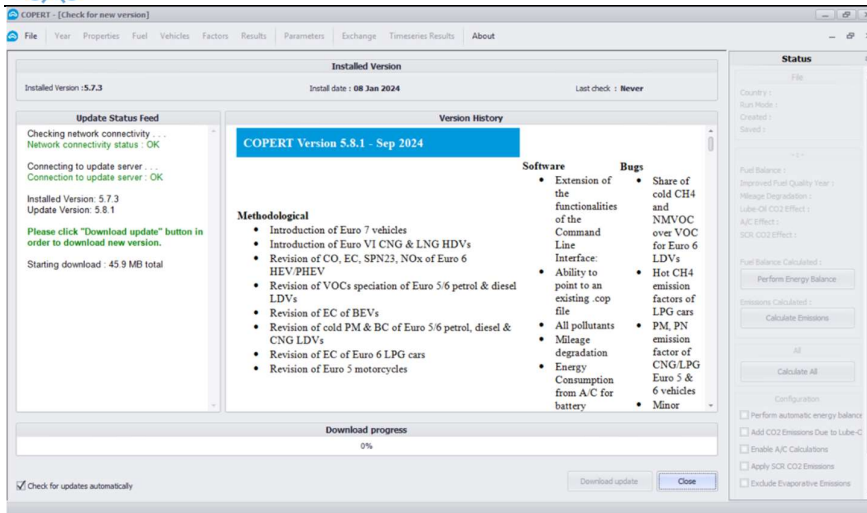


c. Updating COPERT software

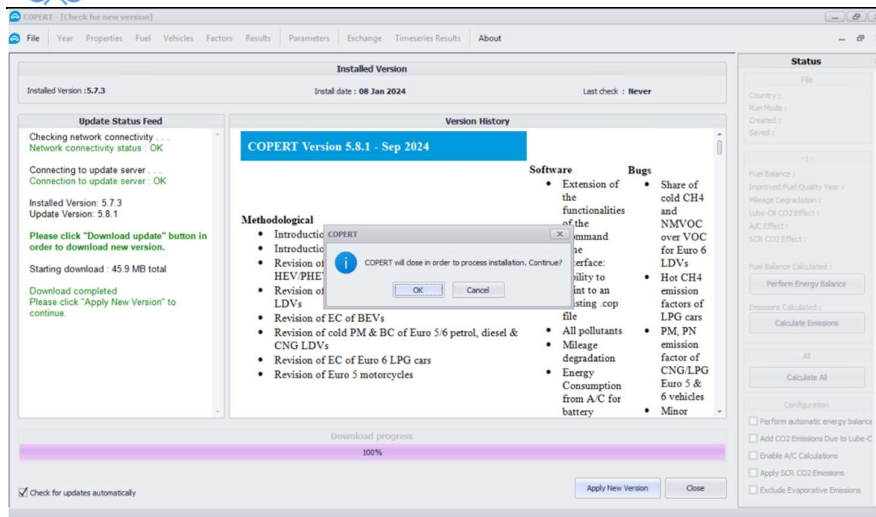
For those participants who have previous version (5.7) of Copert installed, follow the following steps to update it.

Click on check for updates on the About Menu as illustrated below

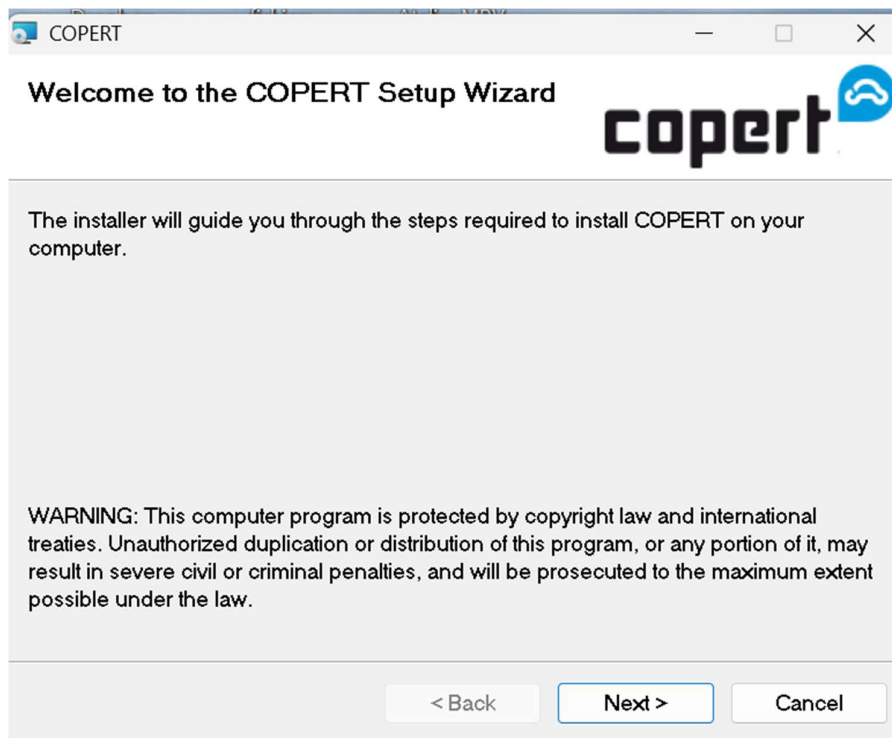




Once the file is downloaded, click on Apply New Version




Copert installation will start automatically similarly to the installation steps mentioned above.





COPERT

Select Installation Folder



The installer will install COPERT to the following folder.

To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".

Folder:


Install COPERT for yourself, or for anyone who uses this computer:

☒ Everyone

☐ Just me

COPERT

Confirm Installation

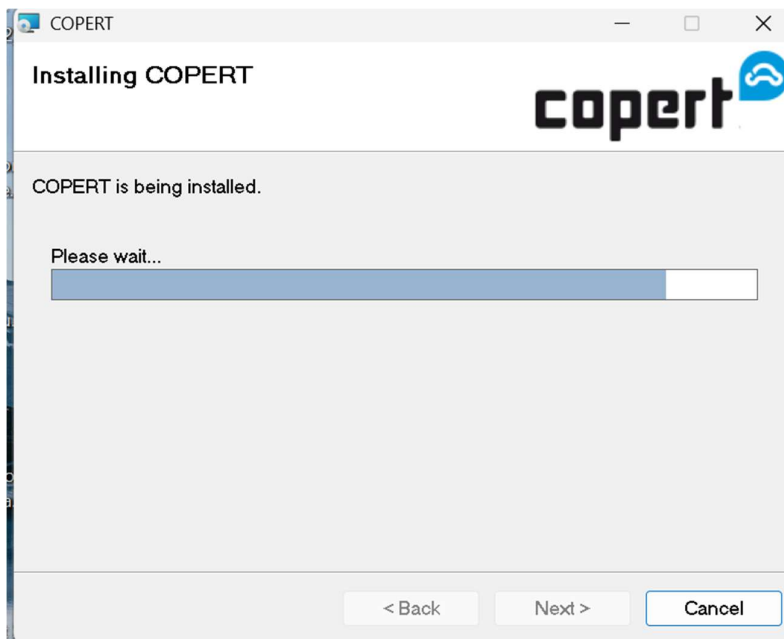
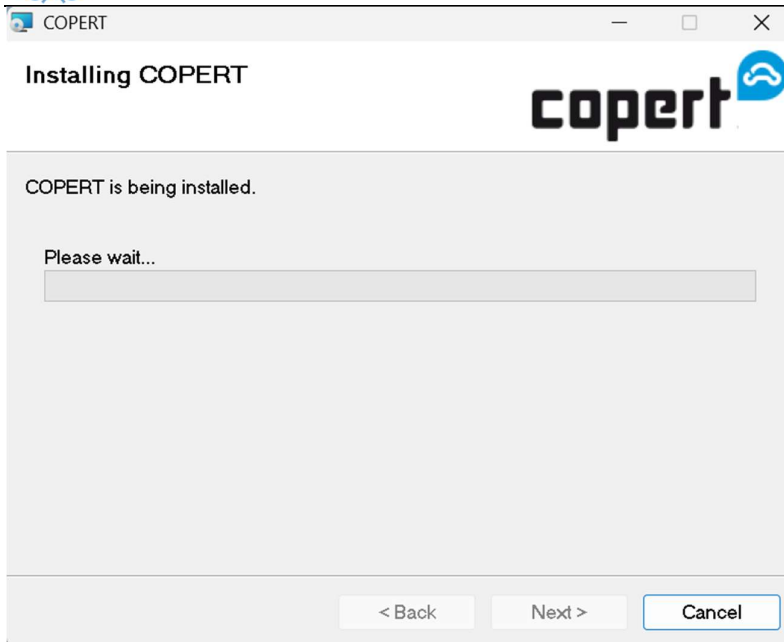


The installer is ready to install COPERT on your computer.

Click "Next" to start the installation.

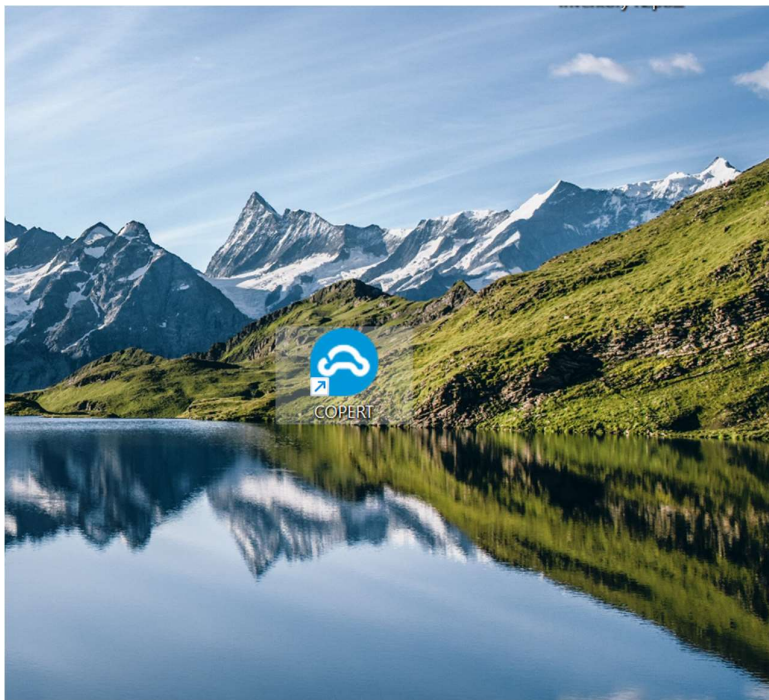
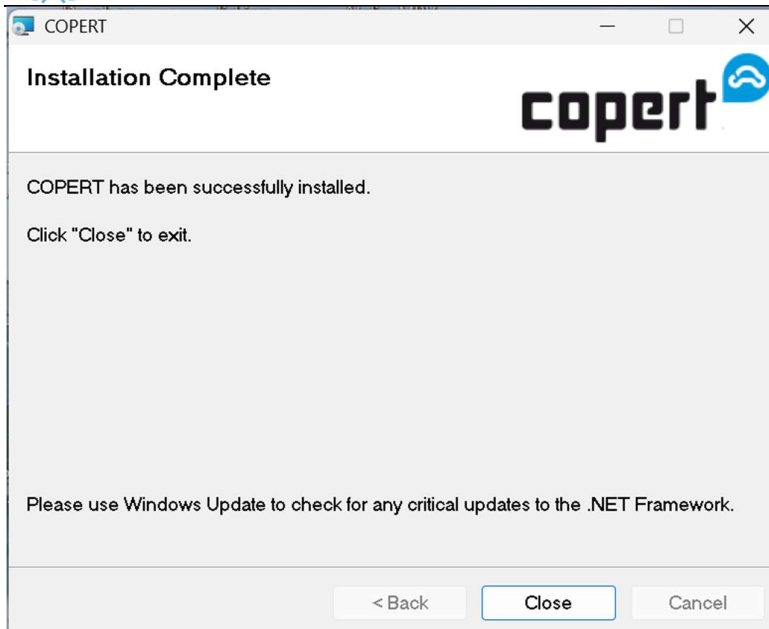


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Click on the new Copert Icon on your desk to launch the new Copert Version 5.8.1



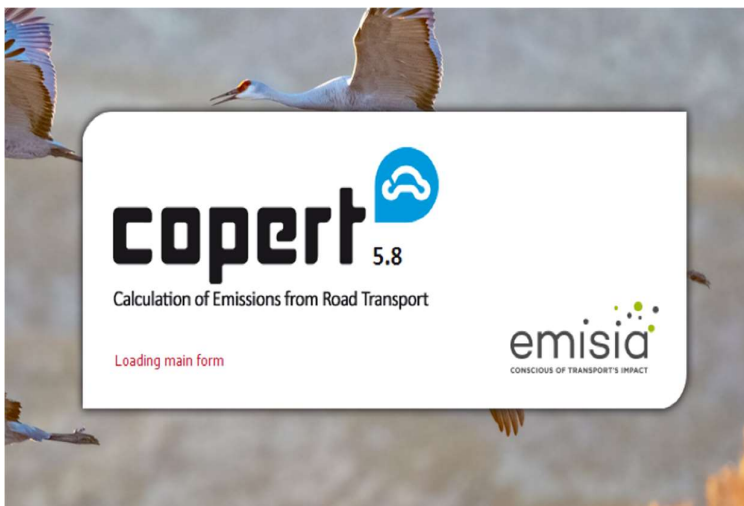
INITIALISING PARAMETERS FUEL SPECS . .





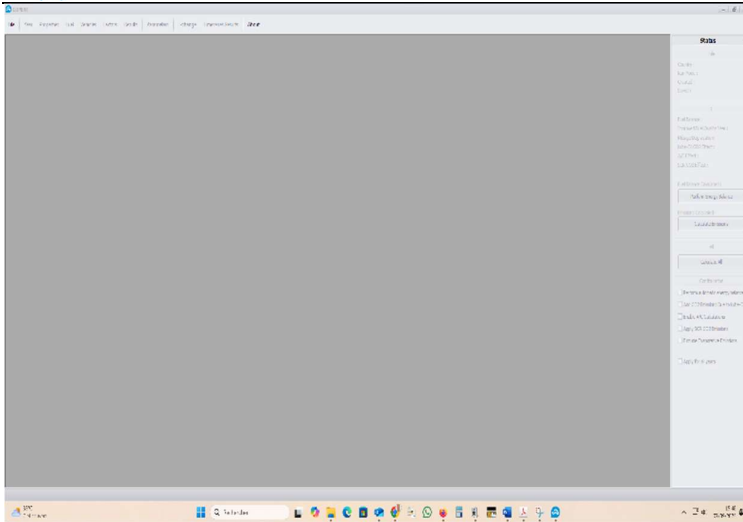
d. Launching COPERT software

Click on the Copert software icon on the desktop to open the Copert window





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Step 2: Review of training materials and practical exercises

Step 2a: Review previous webinar materials: All participants are strongly encouraged to read the materials from the webinar organized in September 2024 (see link above). Familiarizing yourselves with these materials will allow for a better understanding and more in-depth discussions during the webinar.

Step 2b: Familiarize yourself with basic concepts: New participants are strongly encouraged to read the basic concepts and terminology related to GHG emissions from road transportation, including fuel combustion and decision trees from the 2006 IPCC Guidelines for National GHG Inventories (see materials for day 1 of 2024 webinar).

Step 3: Perform all the proposed exercises using the COPERT model: this will help you test your knowledge, identify issues and challenges and better prepare you to follow the webinar and all the related topics that will be covered in addition to practical exercises.

Step 4: Prepare questions and challenges: As you review the materials and familiarize yourself with the COPERT model, identify any areas that are unclear or any difficulties you have encountered when using the COPERT model. Your questions and challenges will allow for more targeted and productive discussions during the Q&A sessions. Be prepared to share your national contexts/circumstances and specific challenges/experiences you face when estimating GHG emissions from road transportation.

Step 5: Advanced applications of the COPERT model: The final day of the webinar will be dedicated to “Other applications of the COPERT model to determine the energy balance of road transportation, GHG emissions and fuel consumption projection scenarios (for Nationally Determined Contributions - NDC), tracking mitigation actions”. Thinking about how these advanced functions might apply to your national context will help you get the most out of the discussions.

We look forward to your active participation and productive discussions.

B. Practical Exercises

As indicated in steps 3 and 4 above, please complete the practical exercises below and prepare your questions/challenges before joining the webinar.

Exercise 1 (Session 5 of the agenda)

Part A

Use the Excel file named « **Session 5 exercise T2** » containing dummy vehicle fleet data for one year to build the database under COPERT to estimate GHG emissions with Tier 2.

- Create a new file in COPERT for the vehicle fleet considering all vehicle categories and standards to start data input manually (with wizard and without wizard) using Tier 2.
- Calculate GHG emissions (CO₂, CH₄, N₂O, NO_x, SO₂, CO, NMVOC) with Tier 2 in COPERT, display the results on your computer/laptop screen and export them as an Excel file. Open the exported results file in Excel to manage the data results (data analysis, drawing graphs and figures, conducting other calculations, etc.).
- Modify data (vehicle stock and mileage (mean activity) in the exported Excel file and save it as « **Session 5 exercise T2 revised** ».
- Use the import function of COPERT model to import the revised data from the Excel file named « **Session 5 exercise Tier 2 revised** » into the COPERT model and recalculate GHG emissions (CO₂, CH₄, N₂O, NO_x, SO₂, CO, NMVOC) ; then display results on your computer/laptop screen and export them as Excel file. Open the results in Excel to manage the data results (data analysis, drawing graphs and figures, conducting other calculations, etc.).



Part B

Use the Excel file named « **Session 5 exercise T3** » containing dummy vehicle fleet data for one year to build the database under COPERT to estimate GHG emissions with Tier 3.

- Create a new file in COPERT for the vehicle fleet considering all vehicle categories with their standards, driving conditions and environmental information to start data input manually (with wizard and without wizard) using Tier 3.
- Calculate GHG emissions (CO₂, CH₄, N₂O, NO_x, SO₂, CO, NMVOC) with Tier 3 in COPERT, display results on your computer/laptop screen and export them as an Excel file. Open the exported results file in Excel to manage the data results (data analysis, drawing graphs and figures, conducting other calculations, etc.).
- Modify data (vehicle stock and mileage (mean activity), speed and road share) in the exported Excel file and save it as « **Session 5 exercise T3 revised** ».
- Use the import function of COPERT mode to import the revised data from the Excel file named « **Session 5 exercise Tier 3 revised** » into the COPERT model and recalculate then display results on your computer/laptop screen and export them as Excel file. Open the results in Excel to manage the data results (data analysis, drawing graphs and figures, conducting other calculations, etc.).

Exercise 2 (Session 6 of the agenda)

Part A

Use the national vehicle fleet data given in the Excel file « **Session 6 Exercise T2 T3 National Vehicle Fleet** » to build the database in COPERT for the time series 2016-2020 and calculate GHG emissions for the time series 2016-2020 using Tier 2.

- Export input structure of the database created on Copert to Excel file (version 2010)
- Export emission results to Excel file (version 2010)

Part B

Use the national vehicle fleet data given in the Excel file « **Session 6 Exercise T2 T3 National Vehicle Fleet** » to build the database in COPERT for the time series 2016-2020 and calculate GHG emissions for the time series 2016-2020 using Tier 3.

- Export input structure of the database created on Copert to Excel file (version 2010)
- Export emission results to Excel file (version 2010)

Exercise 3 (Session 7 of the agenda)

Part A

Use the excel file « **Session 7 Exercise T2 Scenario Vehicle Fleet Composition Mileage projection** » to estimate emissions for the time series 1990-2040 considering the trends in the national vehicle fleet and the corresponding mileage assumed. Build the database by applying the import function of COPERT.

- Export the results as an Excel file (version 2010).
- Export input structure of the database created on Copert to Excel file (version 2010)

Part B

Use excel file « **Session 7 Exercise T2 Scenario technology projection** » to estimate emissions for the time series 1990-2040 considering the trends in the national vehicle fleet and the corresponding mileage with the new technology introduced. Build the database by applying the import function of COPERT.

- Export the results in an Excel file (version 2010)
- Export input structure of the database created on Copert to Excel file (version 2010)