Joint Research Centre

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CO$_2$MPAS workshop

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Vehicle manufacturers session

Ispra. December 12-13, 2016

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European Commission

Background

- In order to allow the introduction of the WLTP in the European Type-Approval (TA) legislation by **1 September 2017** the JRC and DG CLIMA have developed **CO2MPAS** to calculate NEDC CO2 emissions of a vehicle.

- CO2 emissions from CO2MPAS will be used **until 2020** to assess OEMs' compliance with respect to the CO2 targets defined by regulations 443/2009 and 510/2011

- ***Objective of the workshop is to guide users throughout the application of CO2MPAS for TA purposes***

- OEMs are the target audience of this workshop (another one was organized on November 24-25 for TAAs/TSs)

CO2MPAS development

- The next release of CO2MPAS (**by January 15**) will be the first complete release of the tool

- It will be based on the version released on November 17 with

  - A few improvements in the model/software;

  - The "DICE" functionality to allow the random sampling of vehicles to undergo an NEDC test

- After the next release *CO2MPAS will be freezed allowing only bug-fixing updates*. The subsequent major update of the software is expected by August 31, 2016 (in case needed)

- The next release will be the last one communicated via email (to the list of recipients currently populated). Any subsequent release will be communicated via ***Git-hub only***.

- Since the DICE is not yet available and in order to collect feedback from users a ***new CO2MPAS workshop*** will be organized in ***March 2017***.

CO2MPAS development

- The work to improve CO2MPAS will continue until 2020

- OEMs are invited to contribute with suggestions and data

- Ad-hoc meeting can be organized on specific topics with the objective to gather the necessary information to improve the model

- We also support mock-up TA exercises with OEMs and TAAs/TSs with the objective to test the whole CO2MPAS application process. Next exercises on LCVs with

  - Iveco+Italian TA

  - Renault+UTAC

  - … in case of willing to participate get in contact with us

AOB

- Bus to ATA Hotel will leave at 5.30pm

- But from ATA Hotel will leave at 8.15am

- In case of any doubt about the taxi, ask us (or send an email to Ewelina.SUJKA@ec.europa.eu)

- Discussions during the meeting will be recorded. Any problem about it?

Workshop agenda (1/2)

- **December 12**
  - 12:00 Attendants arrival and lunch
    - 13:00 Introduction to the WLTP/NEDC Correlation Project
    - 13:30 CO2MPAS GUI: Install and Launch CO2MPAS: landing-webpage, template/demos, run TA cmd, glance at IO files
    - 14:00 Contacting the CO2MPAS team. Github registration & walk-around, (releases/~~notifications~~ Issues, create issue) + functional mailbox
    - 14.45 Q&A

  - 15.00 Coffee-break

    - 15:30 Description of the CO2MPAS model
    - 16:00 Validations of CO2MPAS accuracy
    - 16:30 Q&A

  - 17.30 Meeting end and transfer to the Hotel

Workshop agenda (2/2)

- **December 13**
  - 09:00 Participants arrival
    - 9.30 Rationale for random NEDC tests
    - 9:45 Considerations before running CO2MPAS
    - 10:15 Explanation of the CO2MPAS input file
    - 10:45 Q&A
  - 11:00 Coffee break
    - 11:15 Datasync tool: examples and results
    - 11:45 Interpret CO2MPAS results: families, deviations & sampling
    - 12:00 The CO2MPAS dice: Why? How? How GUI will look?
    - 12:15 Analysing the model scores
    - 12:30 Questions from ACEA
  - 13:00 Lunch break
    - 14:00 Hands-on activity: example cases to work on small groups.
    - 15:00 Evaluation-guidelines for CO2MPAS runs
    - 15:30 Q&A, AOB
  - 16:00 End of the meeting

Stay in touch

CO₂MPAS
https://co2mpas.io
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JRC Science Hub: www.ec.europa.eu/jrc

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