

***“Science for policy support: the work of JRC for the development new European Standards for CO<sub>2</sub> emissions from Light Duty Vehicles”***  
by Dr. Biagio Ciuffo

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**Abstract:**

The European Commission is willing to introduce a new and more representative test-procedure in the type-approval of light-duty vehicles. In doing so, however, it is also necessary to amend the current CO<sub>2</sub> emissions standards foreseen by European Regulations 443/2009 and 510/2011. Given the political implications of such an amendment a thorough and robust scientific methodology was put in place by the European Commission with the support of its scientific body, the Joint Research Center (JRC). This has led to the development of CO<sub>2</sub>MPAS, a vehicle simulation model able to simulate the correlation of the CO<sub>2</sub> emissions due to the old and the new test procedures. Only in this manner it was possible to agree on how to introduce the new procedure in a fair and transparent way. The presentation will use this example to discuss the relationship between science and policy with the perspective of the JRC.

**Presenter's bio:**

Dr. Biagio Ciuffo is a Scientific Officer of the European Commission, Joint Research Centre working in the Sustainable Transport Unit of the Institute for Energy and Transport (Ispra, Italy). He received his Masters and PhD from the University of Naples Federico II, Napoli, Italy, in 2004 and 2008 respectively. He is author/co-author of more than 50 papers in peer-reviewed journals and conference proceedings in transportation engineering, and acts as reviewer for several international journals and conferences. For his research activities on the calibration of traffic simulation models he was awarded with the 2012 Greenshields Prize from the Transportation Research Board of the US National Academy of Science and with the 2013 Prize of the SimSub Committee of the Transportation Research Board of the US National Academy of Science.

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No reservation is required.