



REWARD

REal World Advanced Technologies for Diesel Engines

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Project partners:

- 1 - AVL - AVL List GmbH - AT
- 2 - REN - Renault SAS - FR
- 3 - VCC - Volvo Car Corporation - SE
- 4 - CRF - CRF SCpA - IT
- 5 - CNRIM - Istituto Motori – Consiglio Nazionale delle Ricerche (CNR) - IT
- 6 - JM - Johnson Matthey Plc - UK
- 7 - RIC - Ricardo Plc - UK
- 8 - SCF - Schaeffler Technologies AG & Co. KG - DE
- 9 - LMM - Le Moteur Moderne - FR
- 10 - DELPHI - Delphi Automotive Systems Luxembourg S.A. - LU
- 11 - UNR - Uniresearch BV - NL
- 12 - IFPEN - IFP Energies Nouvelles - FR
- 13 - VIF - Virtual Vehicle Research Center - AT
- 14 - CTH - Chalmers Tekniska Högskola - SE
- 15 - CTU - Czech Technical University - CZ
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Executive summary

This deliverable consists in the second step of the work concerning validation of advanced control strategies for Euro 7. After the presentation of the R9M engine simulator given in deliverables 5.2 and 5.4, this document details the simulation platform allowing to perform co-simulation between engine model and engine control. A vehicle model permits to simulate driving situations in order to test control strategies in various dynamical situations (WLTC, RDE). Air and injection system strategies are implemented, allowing to control every degree of freedom of the engine. Simulation platform is ready to test new control strategies, which constitutes next step of the work.