Innovations

1. Limiting pollutant emissions under Real Driving conditions
2. Advancing and optimising Diesel aftertreatment technologies to TRL7

4-stroke Diesel engines (D/E segment passenger cars)

- Advanced engine concepts with very high fuel efficiencies
- Reduced sub 23 nm particulates emissions
- Compact combustion with optimal heat use
- ATS concepts and efficient engine concepts

4-stroke Diesel engines (B/C and D/E passenger cars)

- Advanced exhaust gas treatment concepts
- Advanced friction and wear reductions
- >5% improved fuel economy
- Compliance with post EU6 limits under RDE

2-stroke Diesel engine architecture

- New uniflow scavenging concept
- Optimum bore/stroke, air loop, EGR
- Pollutant emissions below EU6
- Fuel saving 5% vs EU6 4-stroke

Partners

OEM partners

CRF, RENAULT Passion for life, IVECO, FPT Powertrain Technologies, VOLVO

Suppliers and services

Johnson Matthey Inspiring science, enhancing life; Delphi Technologies; AVL; LMM Member of the AVL Group; RICARDO; IFP Energies nouvelles; BOSCH Invented for life; SIEMENS Ingenuity for life; SCHAEFFLER LuK INA FAG; Continental; UNIRESEARCH

Resarch partners

European Commission; Universitat Politècnica de València; CHALMERS University of Technology; virtual vehicle; Czech Technical University in Prague; Centrale Nantes

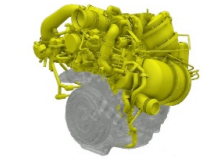
The projects have received funding from the European Union's Horizon2020 research and innovation programme under Grant Agreement no. 723976 and 636380.

REWARD

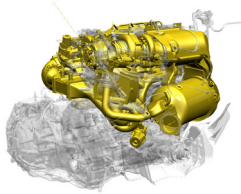
Real World Advanced Technologies for Diesel Engines

FINAL CONFERENCE

18 April 2018 | TRA 2018 Galerie 5+6



RENAULT Passion for life



VOLVO

+

dieper

Diesel efficiency improvement with Particulates and Emission Reduction

MIDTERM CONFERENCE

www.project-reward.eu | www.dieper-project.eu

Program

The project

The goal of REWARD is to develop advanced Diesel engines that are able to respond to the demands of the future. REWARD develops Diesel powertrains and ATS technologies for the next generation of cleaner passenger cars.

Herwig Ofner, Project Coordinator

Due to the high fuel economy of Diesel engines REWARD plays into this enormous improvement potential to stimulate the development and use of Diesel engines in all vehicle classes.

FINAL stakeholder conference

We would like to share the REWARD innovations, the results we have achieved in both REWARD and dieper projects, and our vision for the future of Diesel engines at the Transport Research Arena 2018.

Registration

This is an open event (free of charge) taking place as official side event to TRA2018. Please note that you need to have a valid conference-ticket for TRA2018 on Wednesday 18 April 2018. Lunch and coffee breaks during the conference are included. You can secure your ticket here: ***http://www.traconference.eu/***. In case you wish to be kept informed about the event, please also register with Mrs Ilse Claassen: ***i.claassen@uniresearch.com*** by sending your name and surname.

The venue

Transport Research Arena 2018
Reed Messe Wien GmbH
Messeplatz 1 - Vienna

TRA VIENNA 2018
A digital era for transport
16 – 19 April 2018

09.00 Registration

REWARD

Introduction

09.30 **Welcome**
EC / INEA, AVL List GmbH

09.40 **REWARD - advanced Diesel engines**
Herwig Ofner, Project coordinator, AVL List GmbH

10.00 **The future of Diesel engines**
Theodor Sams, Head of Global Research and Technology Development, Engineering and Technology, Powertrain Systems, AVL List GmbH

10.15 Coffee break

Outcomes REWARD

10.45 **4-stroke Renault Kadjar**
Ludwig Buergler, AVL
Philippe Mallet, Renault

11.00 **4-stroke Volvo XC60 MY2018**
Stefan Bohatsch, Volvo

11.15 **2-stroke engine architecture by REN**
Fano Rampanarivo, Renault

11.30 **ATS Technologies and Technologies for high efficiency (friction reduction & combustion efficiency)**
Marco Tonetti, CRF
Ricardo Brugnara, SCF

12.00 Lunch

dieper

Related EU project - dieper

13.00 **dieper - new technology for limiting pollutant emissions under Real Driving conditions from Diesel engines**
Herwig Ofner, Project coordinator, AVL List GmbH

13.45 **Panel Discussion with REWARD and dieper work package leaders**
Moderation by Peter Prenninger, AVL List GmbH

Results and Conclusions

14.30 **Results and Conclusions**
Herwig Ofner, AVL List GmbH

15.00 Coffee break

REWARD

REWARD demonstrators at outside parking area/yard

15.30 **Demonstration of the Renault Kadjar & the Volvo XC60 MY2018, followed by Q&A with the engineers from Renault & Volvo:**
Stefan Bohatsch, Håkan Persson
Marie Stenfeldt, Markus Ekström
Philippe Mallet

17.00 End of conference