

CO2 Reduction for long distance transport

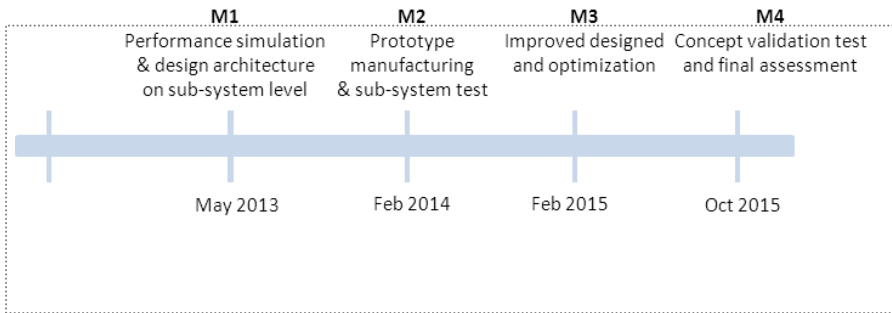
Motivation and Objectives

European prosperity now and in the future depends on a strong and competitive transport sector. At the same time the transport system of Europe faces significant challenges in order to become sustainable in the long term, and to decouple its significant positive effects from its impact on the environment.

With the aim to address these challenges the project CORE has started within FP7-SUSTAINABLE SURFACE TRANSPORT (SST)-2011-RTD-1.

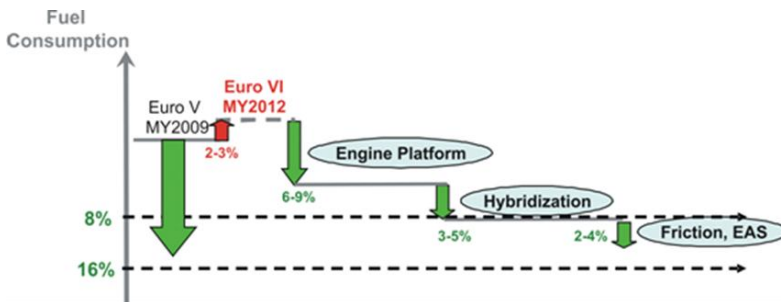
The objective is to demonstrate a substantial reduction of CO2 emissions, 15% improved fuel efficiency compared to a EURO V engine and at the same time fulfilling EURO VI emission legislation.

Project Plan, Milestones and Deliverables



Technical Approach & Expected results

The target fuel economy improvement of 15% is based on a EURO V state-of-the-art technology operating at EURO VI emission standard. It is envisioned to achieve 6 to 9% in the sub-projects (see figure below) with different engine, powertrain and fuel approaches. The hybridization of the powertrain will contribute with an estimated 3 to 5% fuel economy improvement dependent on the vehicle test cycle through usage of recuperation of deceleration events. Additional 2 to 4% of fuel economy improvement is attributed to optimized friction of the combustion engine and energy efficient exhaust gas aftertreatment systems and operation.



Organisational Information

Budget	17 M€	Funding	9 M€
Duration	48 months	Start	January 2012
DG / Unit	Research / H4 - SST	Contract n°	SCS1-GA-2012-284909
Coordinator	Johan Engström, Volvo	Contact	johan.je.engstrom@volvo.com
Main Partners:	16 partners among them Daimler, CRF, Volvo, Ricardo, IAV		
Website:			