1 Publishable summary

The ADACOM project is a European collaborative project of the 7th Framework Programme. The aim of the project is to develop a generic modular adaptive control platform that will allow metal cutting processes to respond to changing circumstances by combining technologically advanced sensor systems, process adaptation strategies and actuator systems.

Presentation of the project and the consortium

The ADACOM project is a European collaborative project of the 7th Framework Programme within Theme 4, Nanosciences, Nanotechnologies, Materials and New Production Technologies. It is a four year project that started on October 2008 and will last until October 2012. A consortium of 12 partners coming from different fields of the technological world works on the project: 4 world leading OEMs (DAIMLER, FIAT, Heidelberg Druckmaschinen and BOSCH), 4 SMEs (LOLA, DIAD, ACTARUS, TEKS), the world leading sensor manufacturer (KISTLER) and 3 outstanding higher education centres (WZL-RWTH Aachen, Trinity College Dublin and Mondragon University) from 7 European countries.

Figure 1: Consortium of ADACOM

The industries working on the project cover a broad range of sectors: automotive, industrial technologies, printing machine manufacture and aerospace applications. They have defined common daily production problems and together with the other partners of the consortium will work on the development of robust solutions. The proposed adaptive control platform will not only directly benefit the project partner industries but also will have a significant impact in industries involved in metal cutting and therefore will offer benefits for wider European industry.