

Materials Center Leoben announces Multi Sensor Platform project for Building Management and Mobile Applications

Smart Sensing – the key to CO₂ reduction and improved safety in building management and the detection of harmful gases using smartphones

Leoben, Austria – Thursday 9 January, 2014 – Materials Center Leoben (MCL), an Austrian COMET K2 Competence Centre, today announces that it will collaborate with a broad European consortium to begin a new European Commission funded multi sensor research project.

The three-year, €18 million project has the objective of strengthening the leadership of European industries in the highly competitive area of smart sensing systems in building management and mobile applications. The new project aims to develop novel technology that can sense multiple hazardous gases and other environmental parameters. This could open entirely new applications in smart building management and the ability to use smartphones to monitor air quality and detect harmful gases like carbon monoxide in the home.

The Multi Sensor Platform (MSP) project will be led by MCL and comprises of 17 large and small companies, universities and public research centres from 6 European countries. The partners include: Materials Center Leoben, ams AG and EV Group (EVG) from Austria; AppliedSensor GmbH, Fraunhofer Gesellschaft, Siemens AG and the University of Freiburg from Germany; Boschman Technologies B.V. and Holst Centre from the Netherlands; the University of Oxford, the University of Cambridge, the University of Warwick, Cambridge CMOS Sensors and Samsung R&D Institute UK, from the United Kingdom; the University of Louvain and Vito from Belgium; and Università degli studi di Brescia from Italy.

The MSP project started in the autumn of 2013 and is due to complete in 2016.

For further information please visit:

www.multisensorplatform.eu

Contact:

Univ.-Doz. Mag. Dr. Anton Köck

anton.koeck@mcl.at

Tel: +43 3842 45922-505

Mobil: +43 676 848883143

Background Notes

European Project: “MSP - Multi Sensor Platform for Smart Building Management” (FP7-ICT-2013-10, Project # 611887)

The three-year FP7 project MSP - **M**ulti **S**ensor **P**latform for Smart Building Management started on 1st September 2013. Materials Center Leoben (MCL), an Austrian COMET K2 Competence Centre, coordinates this € 18 million project.

The aim of the MSP project is to develop highly competitive production technologies enabling flexible integration of nanotechnology based multi-sensor systems with conventional electronic chips.

Examples of how a multi sensor platform could be used

Up to 50% of energy consumption and CO₂ emissions can be saved using intelligent air conditioning systems that are controlled by air quality. Additional infrared sensors provide fire alarm and detect and locate the presence of people in the building – this can set new safety standards in building technologies.

One major goal is to implement multi-sensor systems directly into smartphones for detecting harmful environmental gases. For example a gas sensor for carbon monoxide can provide warning of a defective heating system and an increased or even deadly CO concentration - a potential source of danger in millions of households worldwide. An ozone sensor can be used to monitor air quality and support athletes in planning outdoor training.

About MCL

The Materials Center Leoben Forschung GmbH (MCL) is one of the leading Austrian institutions in the field of applied Materials Science with around 150 employees. In particular, it is the coordinator of the COMET K2 Center on “Integrated research in Materials, Processing and Product Engineering (MPPE)” which focuses on the application of advanced materials science to technological aspects along the whole value chain including materials development, materials processing, fabrication of components, and the behavior of components in service. To discover more, please visit www.mcl.at.

