



S I D C O M

European network on

Sensing, Identification and Data Communications with passive Non-Contact Technologies

The SIDCOM project is a focused action and is concerned with the use of passive non-contact technologies for sensing, identification and data communications. The use of these microelectronics to enable passive non-contact technologies is well established with respect to the technologies used. However, these technologies are insufficiently deployed in many areas and applications of significant technological and economic benefits especially within Small and Medium Enterprises (SME). In addition, the potential of these technologies and the methodologies of their deployment, customisation and exploitation by enterprises in a wide range of industry sectors are not sufficiently understood despite their commercial availability for several years.

The most widely use of these technologies is radio frequency identification (RFID) for security applications, road telematics applications, and animal tagging. However, the usage of these technologies in manufacturing, distribution, measurement, medical applications, consumer applications, automatic data capture, surveillance systems and others are limited. Furthermore, variants of basic RFID technologies are not readily known by most enterprises, such as partially active, sensing and capacitive transponders.

The SIDCOM project is a technology transfer project aimed at broadening the use of these electronic technologies by European enterprises, thereby increasing their competitiveness. SIDCOM is designed as an action for companies facing barriers related to the lack of knowledge and established practices. These barriers may include fear of technology, which is a common feature of many companies without any experience in the area of non-contact technologies in the above describe industrial sectors. Alternatively, they may be inertia related

and resulting, for example, from a conservative management which resists product improvements as long as it is still selling. The latter can be observed in companies with more advanced technological capabilities.

SIDCOM includes a set of fifteen so-called User Experiments demonstrating the use of the addressed technology in different application areas. These experiments are mainly done by Small and Medium Sized Companies.

SIDCOM is run by a network of four established technology transfer centres in four European countries:



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