

Project title: Revolution in Industrial Environment: Ambient Intelligence Technology for Systemic Innovation in Manufacturing SMEs

Start date : 01.10.05
End date : 30.09.08
Duration : 36 months
of Partners : 12

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Partners (Industrial, SME, Institutes):

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Project objectives:

AMI-4-SME is aiming at the elaboration of new technological and methodological approaches to enable Manufacturing SMEs to benefit from Ambient Intelligence (AmI) Technology potentials in the scope of applying a Systemic Innovation approach.

Project description:

Focussing on the human actor as the main actor in industry is the next revolutionary step in industrial process innovation. This will radically change the whole industrial working environment.. The application of Ambient Intelligence (AmI) Technology can be considered as a key enabler to achieve such advances in working environments in the context of networked enterprises. One major challenge is to systematically enable small and medium-sized enterprises (SME) to actively take part in this revolution. Therefore, the AMI-4-SME project is aiming at the realisation of the following key results:

- Easy reusable service oriented architecture (SOA) based technological solutions - so called "AMI-4-SME Building Blocks" - enable SME to realise intelligent features in manufacturing processes such as multi-modal user interfaces, RFID tags or speech recognition - compatible to the "Reference model for AmI in manufacturing industry".
- A coaching oriented methodology, for supporting SME and similar organisations in the systemic innovation of their manufacturing processes - based on a "Reference Structure for an AmI based Business Process Innovation".

Field of Application:

Process improvement in manufacturing SMEs.

Inter-enterprise interoperability and collaboration of networked manufacturing SMEs.

Realisation of human centred support systems, based on Ambient Intelligent Technology Features.