

Stimulating the wider use of microelectronics

The First User Action (FUSE) is a Technology Transfer programme in microelectronics. It is aimed at stimulating the wider use of microelectronics technologies by European enterprises to improve their competitiveness and enhance their growth. FUSE is funded by the European Commission (EC) under the Information Technologies programme, ESPRIT, of the Fourth Framework.

FUSE operates through a network of Technology Transfer Nodes (TTNs) covering all regions of Europe. The TTNs promote the first use of a wide range of microelectronics technologies and support enterprises in their regions to acquire these technologies.



Electronic cooking appliances

FUSE utilises a portfolio of demonstrators to persuade enterprises to adopt new microelectronics technologies and to show these enterprises how to overcome the knowledge, technology, cultural and other barriers that have prevented them from utilising the appropriate technologies to achieve economic growth.

Each demonstrator in the FUSE portfolio is based on a real life application experiment illustrating how a European enterprise has adopted a specific microelectronics technology to improve a product or process. Since January 1996, FUSE has funded more than 500 application experiments covering the whole spectrum of current technologies and spanning a wide range of industry sectors. The photographs in this leaflet show examples of products that were improved and made more competitive through the use of microelectronics technologies. Support for the companies concerned has been provided by the FUSE TTNs, and most of the products illustrated were completed application experiments.



Health care bed



Hi-Fi Systems



Improving competitiveness through microelectronics



Security posts



Nerve Monitoring



Lift trucks



Solar Refrigerators

The FUSE TTNs utilise the demonstrators as case studies to stimulate other enterprises in Europe to benefit from microelectronics by replicating the experiences developed in these demonstrators. Each TTN provides support to enterprises in its region through expert advice, feasibility analysis and training. In addition, the TTNs contribute to the common European portfolio of demonstrators through application experiments from their regions of operation.

FUSE has created a significant movement in the microelectronics technology transfer scene across Europe. It has enabled a wide range of enterprises to take up new technologies and demonstrated that European enterprises can innovate and perform better in the world market with the use of micro-electronics technologies. The current phase of the FUSE is expected to produce further positive results and innovations.



Climbing Equipment

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