TICTACT

Information system using an interactive tactile device "TICTact"

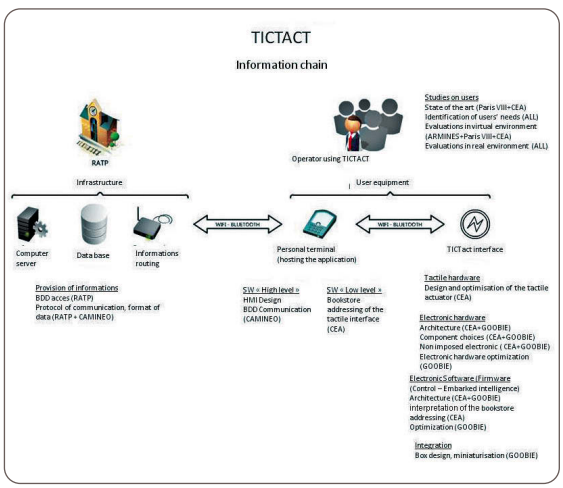
TIC & VILLE DURABLE

ON GOING PROJECT

TICTact (Information system using an interactive tactile interface) is part of the program Vehicles for Land Transports of the works of the PREDIT 4. TICTact fits in the second thematic axis "Efficiency of the transportation systems and increase in their quality, in particular within the framework poductivity and service, for pedestrian informations".

TECHNOLOGICAL OR SCIENTIFIC INNOVATIONS

- The aim of the TICTact project is to conceive a tactile interface with the development of a tactile language of communication and interaction, intended to offer an interactive and continuous information service.
- Current information systems are discontinuous, use different channels in rupture, and appeal, most often either vision or sense of hearing. These senses, which are too often requested, can not effectively answer to all expectations and situations related to mobility.
- TICTact will thus reduce the cognitive load and transmit guidance informations to any person in a situation of mobility by stimuli that will exploit the cutaneous sensitivity. This interface will be bidirectional, non-intrusive, lightweight, portable, personal and customizable. After the analysis of the future users' needs, the contribution of "Virtual Reality" will help to test and validate partially the interface design, especially, the location on the body and the optimal position of the TICTact interface and to study its interactions. The mechanical realization of TICTact could be done through the use of new technologies of actuation and with progress of miniaturization. Its connection with ambient information and communication systems will thus offer a great choice of services to customers.



The diagrams below shows the chain of informations of the TICTact project and the contribution of each partner to the various stages of its development.

STATUS - MAIN PROJECT OUTCOMES

The TICTact project, now under development, is organized around eight working packages. The first stage consists in analyzing the users' needs in order to feed the research of solutions and interface and interaction concepts. The second phase will help to define specifications to study and realize the tactile terminal of communication. The functionalities which the interface will have to carry will be defined under this stage. These functionalities will then come to support a stage in which will be realized the application that will establish the link between the information systems retained and the tactile interface. The intermediate paste-ups of the project as well as the technical developments will be then evaluated.
The project will be concluded by tests on site and a phase of consolidation of the tactile interface prototype for a possible industrialization.

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PROJECT DATA

Coordinator:
RATP

Call:
ANR

Start date:
November 2010

Duration:
32 months

Global budget (M€):
2.3

Funding (M€):
1.1