

HITNI 2.0

The project aims at **improving the care of patients by emergency vehicles** (ambulance and subsidized private ambulance).

The objective is to develop a mobile communication platform installed in vehicles for emergencies. This platform will be able to centralize and integrate informations from medical measuring instruments: blood pressure, electrocardiogram oximeter, etc. ..., and to transmit this data securely in real time via mobile networks (3G/4G or satellite) to the hospital information system (HIS) using recognized standards (HL7, etc. ..). A video link between the vehicle and the regulation will also help in the diagnosis by having others opinions.

This solution will allow a rapid and optimal management of the patient data before his arrival at the hospital. It will allow the emergency vehicles to be dispatched to the most suited service. The medical records will be transmitted during the transport.

This information will also allow real time monitoring of the patient's condition and its evolution during the transport to the hospital. All exchanges will be safe and secure.

The centralized management system will enable doctors to have a dynamic decision tool for what concerns the logistics of the intervention. This platform will also take into account:

- The remaining time before arrival of the vehicle
- The dynamic optimization of the management of patients. (If all vehicles are busy for urgent intervention and a new event occurs, the platform will offer a way to re-route a vehicle for this intervention)
- The platform will also help in choosing the right vehicle and propose the optimal route to be followed (GPS)
- Depending on emergency availability (Cardio, etc ...) in different hospitals, the platform can offer directly to the vehicle a GPS route.

About the partner:

Created in 2004, INFRAL SAS was mainly focused on integrating telecommunication networks for companies and communities. In 2007, due to its activities' strategic reorientation towards Telemedicine, the group's telecom and cabling activities were sold to the VINCI group. In 2008, INFRAL SAS, which had been involved in Telemedicine activities due to its research and development of an electronic stethoscope, shifted its activities towards information and communication technologies designed for nursing home care and telemedicine, and particularly Gerontechnologies. INFRAL SAS is a high-tech company whose activities are focused on the design and production of modular and mobile devices for the secure transfer of essential medical data.

Type of partner sought: SME

Competences in the following specific areas are sought:

- Geolocalisation
- Communication Network