

SIW: ISOLATED SYSTEM WORKER

The SIW system it's a safety device created for workers who work alone.

In the event of an accident the system can identify the position of the worker after a fall or a prolonged inactivity in case of illness.

The alarm is immediately transmitted to a security office to get help. The alarm is also sent to other workers nearby.

In addition there is an additional option that allows the worker to ask for help from their colleagues nearby by pressing a button.



OPERATION

The proposed system consists of an APP working on smartphones with android system and employs satellite technologies, GSM or GPRS for communication with the management server and GPS systems for outdoor activities or with beacon technology in the case of internal activities where GPS technology can not work. In case of problem or fall or illness an alarm is activated on the worker's device. If the worker does not react, the alarm will be sent to the security office and workers nearby.

WORKER LOCALIZATION:

The first possibility is GPS localization. The SIW software uses the GPS of the smartphone and in case of alarm sends directly the position of the worker to the emergency station. This system works only outdoors.

For activities inside buildings and tunnels, the SIW system also receives electric beacon signal, allowing a very precise internal location (indoor location).

RECEIVING AN ALARM:

All messages of the SIW system arrive on a computer system (SERVER). The alarm control panels are connected to the server with software that is configured according to the needs of the application. These software have the ability to send alarms on other systems (SMS or MAIL) and view the worker's position on the map. These programs are tailored to the customer's needs.



TYPES OF LOCALISATION

OUTDOOR LOCALIZATION:

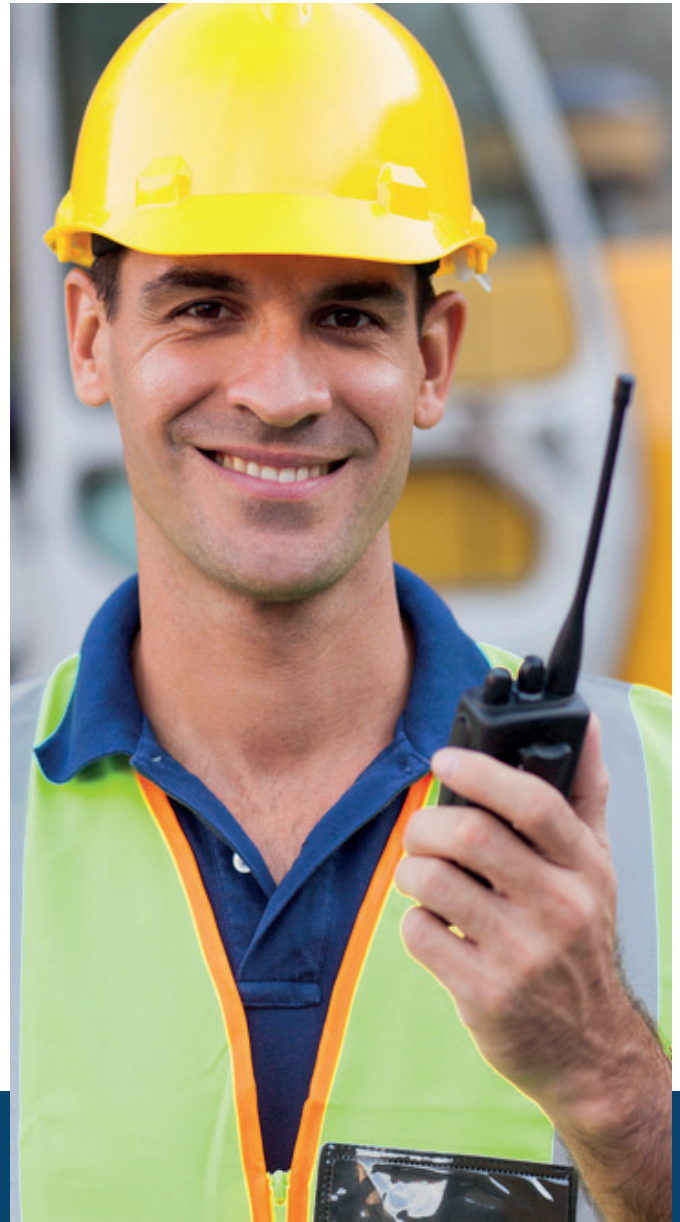
Location-based services (LBS) have become an integral part of our daily lives with numerous applications including car navigation.

The GPS (Global Positioning System) is considered the standard for outdoor navigation.

However, its accuracy is limited in areas where access is prohibited to satellites such as tunnels or some urban areas.

INDOOR LOCALIZATION:

When the GPS signal is not present, we can use the beacon of geo localization. This allows us to locate workers even inside buildings, tunnels, basements etc. The beacons are autonomous and can operate from one to five years. This depends on the chosen model.



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