# MULTIMEDIA LOCATION SYSTEM FOR ROUTES ON FOOT

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RESUM

A Spanish research group has developed a multimedia location system for routes on foot. It includes the information presented through many ways: text, images, videos, 3D outlooks, audio... and it is mainly addressed for reduced surroundings as a city, a university centre or a museum. It can be accessed from many mobile devices, through the Web or by means of external store devices. The group looks for companies or entities interested in adapting the technology to their specific applications.

## AVANTATGES I ASPECTES INNOVADORS

### INNOVATIVE ASPECTS

The locating-based applications are still in an initial development phase. Until now, they are limited to navigation and locating of vehicles. For this reason, this tool can facilitate the pedestrian navigation systems design. On the other hand, the incorporation of visual information is also in early stages. The application of 3D outlooks and videos to virtual visits is beginning. For that reason, the locating information with this incorporation is completely novel. All these make the developed tool of high exploitation expectative.

### MAIN ADVANTAGES

The tool for PNS development is novel because there are no applications on the market that allow the design of pedestrian navigation systems with friendly and flexible surroundings.

The most outstanding advantages are:

- It is possible to introduce the desired information in the system

- The presentation mode can be personalized in a quick way

- A copy-out to different platforms (mobile or static) is possible

The current developed systems are done directly, that is to say, without using any tool.

For that reason, this tool reduce costs because the effort must not be done in the pedestrian navigation systems programming, but in studying what information is presented and how, depending on the access devices, taking into account the reduced screen size and the communication speed.

Consequently, the design of PNS using this tool will be very fast and will have high flexibility. In this way, implantations of the navigation systems in cities, university centres, museums could be done in a quick way. What is more, this implantation can be progressive, because once the visual information is incorporated; it can be for example, on first place, designed the virtual visit to the place, to lately do the design for mobile devices.

## APLICACIONS DE L'OFERTA

The pedestrian navigation systems developed with the tool can be designed for several and different ambits:

· In a university or research centre, through the possibility of informing about the route to follow to arrive to a building, office...

· In the tourist sector, the possibility of offering tourist routes to the visitors that can be done by foot, with information about localization, way to follow, details about interesting places...

· In a museum, to guide the user's visit, showing videos and audio that present additional information, for example, paintings explanations, use of prehistoric tools...

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Technical Co-operation

· Type of partner sought: the group looks for companies or entities interested in adapting the technology to their specific applications.

· Specific area of activity of the partner: companies or entities related to navigation systems or to tourist or guidance activities.

· Task to be performed: the companies that are interested in this particular area of activity should be willing to adapt the technology to their specific needs as well as to finish the parts of the technology that need a further development.