



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

TECHNOLOGY OFFERING

Smart Services – Public Transport Advisor

Overview

The Public Transport Advisor (PTA) is a journey planner service that can run over a mobile telecommunications network. The service user interface runs in the web browser of the mobile device and can also take advantage of the GPS capabilities of the device, if available. The service would typically be run by, or in cooperation with, a Public Transport Operators who would provide access to routing and possibly real time data position information on vehicles.

Value Proposition

The basic functionality of the PTA service is that of an integrated journey planner which is location aware and includes on-going updates advising the user over the course of their journey. This is demonstrated in the video referenced below. The service is particularly useful for helping visitors or visually impaired users to navigate around a large urban area using public transport.

Technology Description

An initial prototype for this service was developed as part of the IMS ARCS project, and deployed using the OpenIMS testbed as a means of demonstration. The service was developed in consultation with both Dublin Bus, who provided advice and access to their bus routing database, and the National Council for the Blind in Ireland, who saw potential in this type of service for aiding visually disabled and elderly users access public transport. To date, this is the only project to which Dublin Bus have allowed external access to their routing and points database. The prototype provides an integrated

journey planner for Dublin and incorporates LUAS and DART transport also.





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Additional Information

Demonstration video on YouTube:
<http://www.youtube.com/watch?v=rYGWb5pJp0M>

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