

Ireland

Online Speed Limit Application System Geographic API

JBA
consulting

Contract Brief

JBA was commissioned by the National Roads Authority (NRA) in Ireland to design and build a software application programming interface (API) which would provide an interactive mapping component to integrate seamlessly with their Online Speed Limit Application System (OSLAS).

OSLAS will allow Local Authorities within Ireland to submit online applications to NRA to change speed limits affecting NRA managed roads.



Description

The API consists of two parts:

1. An interactive ASP.NET Web User Control for the end user
2. Behind the scenes web services which undertake sophisticated Geographic Information System (GIS) functions

The Web User Control slots into OSLAS, replacing fields where users previously had to type six figure coordinates. The Control avoids the common errors and inaccuracies associated with manual data entry.

The Web User Control also provides an interactive map allowing the user to 'pan' and 'zoom' to their area of interest. The user then clicks on the map, and the Control identifies the end points of a proposed speed limit.

Behind the scenes web services dynamically ensure data integrity by ensuring the ends of the proposed speed limit coincide with the affected road and/or existing speed limits.

The Web User Control combines ESRI's freely available ArcGIS Javascript API within a standard ASP.NET Web User Control to provide a low cost scalable mapping solution which leverages NRA's GIS infrastructure investment.

Successes

With JBA's assistance, users of OSLAS are now presented with a user friendly interactive map through which they can accurately locate proposed speed limit changes.

Implementation of a freely available GIS API and bespoke web services that communicate across the internet while capitalising on NRA's investment in their existing GIS infrastructure.

24 Grove Island
Corbally
LIMERICK
Co Limerick
Tel 061 345 463

JBA Consulting
Engineers and
Scientists Ltd

Reg no: 444752

For more information

Please call 061 345 463 or email: andrew.gubbin@jbaconsulting.com

www.jbaconsulting.com

JBA project ref:2010s4065



2012 finalists
Royal Academy of Engineering
The MacRobert Award
for innovation in engineering