

Elgin roadworks.pro Real-Time Map Service Specification

1 Overview

- 1.1 This document provides a non-technical summary of the functional components of the Elgin roadworks.pro Real-Time Map service.
- 1.2 Real-Time Map is a website showing congestion that is currently impacting the road network. Real-Time Map displays unusual congestion caused by incidents and roadworks that are impacting journeys on the road network. Real-Time Map eliminates the “noise” from the public view of roadworks.org, enabling focus on things that are causing a significant impact on traffic at the current time. The map shows where roads are closed – as opposed to where a road closure order is in force but not yet activated.

2 Viewing Network Congestion

- 2.1 Real-Time Map utilises standard data layer controls, pan and zoom, and search as used on roadworks.org.
- 2.2 At a zoomed-out level user can view congestion that is causing the highest impact.
- 2.3 User can zoom in to view congestion in more detail. As the user zooms in additional congestion will be seen on the map.
- 2.4 Congestion is colour coded to indicate the impact using the following classification:
 - Green: running smoothly
 - Orange: some congestion
 - Red: slow moving traffic
 - Dark red: stop/go traffic
- 2.5 Congestion is displayed on map with lines proportional to the distance of affected road.
- 2.6 Lines displayed are coloured to easily represent the impact level to the user.
- 2.7 User will be able to determine the affected direction as they zoom in by arrow heads displayed on the lines.
- 2.8 As the user zooms in the markers will be shown on the map to indicate the cause of the congestion.
- 2.9 User can invoke additional information on the congestion to display on the screen by clicking on the line or the marker.
- 2.10 Additional information displayed will include:
 - Location
 - Affected road length
 - Affected direction
 - Traffic delay (where available)
 - Average speed (where available)
 - Disruption cause
 - Elapsed time since the information displayed was last checked for changes
- 2.11 Roadworks causing congestion that originated from data supplied by Elgin will also have the following additional information:
 - Who is responsible for the works
 - What the traffic disruption is e.g. two-way signals

- A description of the works taking place
- The Highway Authority where the works are taking place
- The works reference

2.12 User is able to see at a glance how old the data displayed is when viewing Real-time traffic disruptions via a widget displayed on the map with a timer 'SINCE LAST UPDATE'.

3 Comparing Congestion with roadworks.org

- 3.1 User can compare the Real-time view with roadworks.org using the toggle to turn off 'Real-time traffic disruptions'. When the toggle is set to 'OFF' this sets the view to the standard roadworks.org view.
- 3.2 User can return to Real-time view by setting the toggle switch back to 'ON'.
- 3.3 Emails can be sent to individual recipients and / or predefined recipient lists.
- 3.4 Administrator User can create and manage email contacts and recipient lists.

4 System Requirements

- 4.1 Real-Time Map has been developed with strict adherence to HTML5 standards and best practice. It supports all modern standards-compliant web browsers on PC and Mac and the majority of browsers on all mainstream mobile devices.

5 Further Information

- 5.1 Further information and technical specifications for functional components of the roadwork.pro Real-Time Map can be provided on request.

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