Elgin roadworks.pro Traffic Disruption Analytics Service Specification

1 Overview

1.1 This document provides a non-technical summary of the functional components of the Elgin roadworks.pro Traffic Disruption Analytics Service.

1.2 Traffic Disruption Analytics enables streetworks professionals and network managers to improve the planning of works schemes, public events, etc. and associated traffic management by interrogating the disruption caused by previous works and events.

Periods during which works and traffic management interventions were associated with substantial congestion, as validated against TomTom real-time and historic traffic flow information, are logged.

This data is recorded against historic works records held in the roadworks.pro database, providing a "Disruption Profile" by time of day and day of the week for past works.

2 Searching for Historic Works

2.1 Traffic Disruption Analytics will use the roadworks.org with its standard layer control, search and pan and zoom functionality.

2.2 User will be able to centre the map on a specific location using the following methods:

- Ability to pan and zoom the map
- Use of the standard search box. This will include the ability for the user to search for a specific works by works reference
- When a user uses the historic works reference, successful searches should clearly zoom to and identify to the user the corresponding works

2.3 User has the ability to select a single date or a date range (from/to) in the past

- Maximum date in the past is 01 Feb 2018 (when data logging commenced)
- Most recent date is Today
- The default date range will be set from 01/02/2018 to Today
- Search date criteria will be clearly displayed to the user
- Results displayed will be restricted by the date range that the user has selected

2.4 Validated works will be displayed on the map with the highest congestion impact they have associated to them.

2.5 A message will be displayed if the user is required to zoom in to view works.

2.6 Works will be displayed on the map with appropriate marker for the type of works.

2.7 User will be able to view additional detail on an individual works from the information associated to the works when it was active. Information displayed to the user for the works will be the same as would have originally appeared in the callout on roadworks.org.

3 Viewing Disruption Profile of a Roadwork

3.1 User will be able to invoke a works disruption profile via an option when the additional information on a works is displayed.

3.2 The disruption profile will be visualised as a time series graph showing four levels of impact (high, medium, low, no impact) recorded during the period the works was active.

3.3 Graph will initially be zoomed out to display the complete disruption profile of the works.

3.4 User will be able to interactively zoom in and out on the graph to view more or less granular information on the disruption profile.

3.5 The graph will visually distinguish the impact level of the works at any given time and date.

3.6 User will be able to easily navigate away from the disruption profile back to the map.

3.7 User will be able to open a different disruption profile or execute a new search criteria.

4 System Requirements

4.1 roadworks.pro Traffic Disruption Analytics 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 roadworks.pro Traffic Disruption Analytics can be provided on request.

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