Journey Times Engine

Now plan journeys and find the best routes quickly and easily

Journey Times Engine (JTE) is a dynamic journey planner that helps network controllers to calculate journey times and speeds for all roads within the network.

Cloud Amber's JTE enables network controllers to draw infinitely flexible transport routes and predict journey time and speed based on the historic data, current road events and real time traffic updates from trusted data sources.

JTE utilises Automatic Number Plate Recognition (ANPR), Split Cycle Offset Optimisation Technique (SCOOT), Automatic Vehicle Location (AVL), and any available detectors and other relevant data sources to calculate the complete journey time and average speed.

To achieve accuracy, it breaks down the road network on a node by node basis, and intuitively assesses the data outputs to provide reliable, accurate results.

Strengths of the Journey Times Engine

1. Data Filtering

Cloud Amber's intelligent filtering adaptors ensure that only reliable data is used by the Journey Times Engine for matching purposes. The user can configure filter values to varying thresholds, which helps the Journey Times Engine to remove false data. The data that fails to match the configured minimum and maximum figures are dropped while predicting the journey time and speed.

2. Data Smoothing

Journey Times Engine features algorithms that remove noise from the data sets. It ensures that important patterns in the traffic data from different sources stand out to determine its weightage. Also, it is configured to degrade the influence of data sets that have minimum influence on the journey time over a period of time.

Key Features

1. Rank data sources according to their reliability

> Classifies data from different sources (ANPR, AVL, SCOOT, etc.)

> Interprets data only from most trusted sources (ANPR, MIDAS, etc.)

> Reviews data received from smartphone and other sources

> Performs trend analysis and speed based on roadwork event, disruptions, etc.

> Allows the user to configure the weightage of data source

2. Predict time & speed based on roadwork events & incidents

> Generates output considering the road network disruptions

> Predicts by adding delays resulting from incidents, planned events, etc.

> Displays warnings (slight, moderate, severe, impossible)

> Allows the administrator to alter the delay values based on the severity

3. Identify congestion severity thresholds

> Adjusts congestion severity ratings
>> Stationary traffic (0 – 10%)
>> Queuing traffic (10 – 25%)
>> Slow-moving traffic (25 – 75%)
>> Heavy traffic (75 – 90%)
>> Moving freely (90 – 100%)

> Allows the user to configure severity settings

4. Provide delay information

> Displays journey impact summary within map popups, etc.

> Shows the impact summary for all the affected routes

> Includes transport route, journey time, speed & delay

> Shows summary on roadwork & planned event alerts

5. Interpret journey data received from mobile apps

> Predicts journey times & speed on the basis of GPS data received from mobile apps

> Collects data after every 4 - 5 miles

> Validates GPS data against other sources

> Uses ignored data for calculating historical journey time & speed

About Cloud Amber

Cloud Amber, part of the Idox group, enables the efficient movement of people and goods across a diverse multi modal network.

The services and solutions provided enable total network management across all forms of transport providing more efficient and cost effective strategic and localised control. In addition, Cloud Amber provides proven fleet operations improving efficiency, operational costs and service performance as well as integrated and informed personal travel assistance across all geographical boundaries and transport modes.

Cloud Amber is also leading innovation in intelligent and deeply integrated solutions saving time and revenue for new or replacement solutions and has successfully developed and deployed new products in the market and challenged the traditionally incumbent and mature positions.

For more information or to arrange a demonstration:

please contact +44 7917 704145 or email richard.thurbin@idoxgroup.com