

See. Share. Understand.



Get results with smart routing

- Reduce planning time
- Save fuel and running costs
- Balance runs
- Maximise fleet utilisation
- Measure and manage costs
- Offer more competitive pricing
- Improve driver performance
- Reduce carbon footprint
- Reduce risk and improve safety

SMART ROUTING SOLUTIONS

Sophisticated route planning and optimisation solutions for New Zealand that solve complex routing problems, reduce planning time, maximise fleet utilisation and deliver outstanding business results.

Smart Routing

Overview

Whether managing an emergency response, a fleet, a sales team, or pickups and deliveries, figuring out the most efficient way to deploy your resources is not always easy or quick.

Factors like resource availability, vehicle capacity, driving conditions and time constraints can make planning logistics or transport networks difficult and very time consuming. It can take weeks or months to plan a network manually. With Critchlow's smart route planning and optimisation tools, this task can be reduced to days or even hours.

“Clients have reduced their fuel costs by more than 25%”

Critchlow is New Zealand's leading provider of location intelligence solutions. We help decision makers make better operational and strategic decisions by leveraging spatial information. Using best of breed mapping and routing software and our definitive NationalMap road network data for New Zealand, we deliver solutions that help maximise

productivity, efficiency and customer service.

Experience Delivers Results

Critchlow has worked with organisations in New Zealand and Australia to deliver solutions that have achieved outstanding business results. In some cases, our clients have reduced fuel costs by more than 25 percent by implementing Critchlow solutions.

Route Planning and Optimising Routes

There are two key areas where Critchlow can help:

Route Planning – what jobs should be allocated to which drivers or runs; and

Route Optimisation – what is the shortest or fastest way to deliver or complete jobs within a run.

Just knowing the fastest or shortest way to get from A to B alone is not enough. Every situation is different, and Critchlow works with our customers to understand their specific business requirements. Our solutions are smart enough to consider:

- Vehicle capacity
- Site open/close times
- Time windows

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Solutions and services:

- *Route audits*
- *Route management solutions*
- *Routing web services*
- *Systems integration*
- *NationalMap for complete road navigation data*
- *Critchlow National Address Register, an a single source of truth for address validation*

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This map depicts a scenario where the delivery company has 3 vehicles, and 40 pickups to complete within 4 hours duration, and service time at each pick-up is 8 minutes.

- Completion time/duration limits
- Traffic and road conditions
- Speed limits
- Available resources
- Multiple depots
- Dynamic planning or scheduling to manage fluctuating demand
- Integration with vehicle tracking
- Driver breaks
- Private property access ways
- Prohibited routes
- Left-hand side pick-ups

Solutions and Services

Consultancy Services and Route Audits

Our experienced team works with our customers to identify opportunities to improve their logistics. Before making any investment in a solution, we can answer questions like – How much air are you carrying? How many more pickups/deliveries can each driver do per week? How much can mileage and fleet running costs be reduced?

By analysing existing data, these factors can be qualified to prove the business case before you invest.

Depending on the nature of your business and the problem, some route planning solutions can be provided on an outsourced or project-by-project basis.

Route Management Solutions

Whether it's a planning or scheduling problem, we have the tools to suit.

Routing Web Services

Critchlow offers a routing web service

capable of optimising schedules, providing turn by turn directions.

Algorithms and functionality to allow for time constraints are also available. This option offers a cost-effective solution for dynamic routing.

Systems Integration

Whether integrating with large ERP or CRM systems, or GPS vehicle tracking systems, our team has the skills and experience to get you up and running. Our systems are built on best-of-breed technology, are very open, and support most operating systems and web protocols.

Accurate Road Navigation Data

NationalMap is New Zealand's premier spatial data and basemaps. Its mapping and road network data is recognised as the most accurate and comprehensive currently available. NationalMap holds a wide range of attributes on New Zealand roads from speed limits to height and weight restrictions. Many large organisations, both public and private, rely on NationalMap data to manage their assets, logistics and even the road network itself.

Accurate Address Data

The Critchlow National Address Register is an authoritative source for address points in New Zealand and provides unparalleled data accuracy. It brings together addressing and location information from many agencies and is provided to users in a consistent format. It is trusted by many global and local companies where accuracy is critical to their business.