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RouteSmart

The world's most intelligent routing system.

Distributed and supported in the UK
by Integrated Skills Ltd

Integrated Skills
Authorised Distributor

RouteSmart: the answer to high-density route optimisation

RouteSmart overview

Applications

For hundreds of businesses and organisations around the world, RouteSmart is the proven choice for solving a complex range of high-density routing problems:

Environmental Services
– rapid options modelling*
– refuse collection
– kerbside recycling services
– commercial waste
– bulky waste collection
– recycling bank servicing
– street sweeping schedules

Highways
– gritting
– snowplough routes
– gully emptying
– streetlight inspections– asset surveying

Post, Newspapers and Logistics
– postal services
– home deliveries
– business post
– newspaper distribution

Utilities
– meter reading

*Rapid Options Modelling

RouteSmart is unrivalled in its ability to provide rapid - but robust, 'what-if scenarios'. Many of our clients, commission us to run low-cost rapid options modelling to help to build their business cases for new or changing service arrangements.

Return on Investment

RouteSmart's world-beating optimisation algorithms deliver direct savings in fuel, tyres, and vehicle maintenance. We can provide an example ROI, showing how the software can pay for itself, on request.
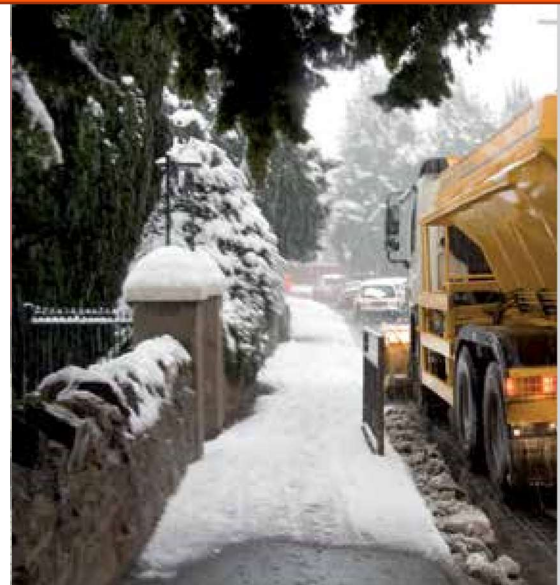
Balancing Workloads

RouteSmart balances workloads by time and capacity, optimising the productivity of each driver, vehicle and operative. This delivers further efficiencies and is highly valued by operational management.

Flexible Implementation

RouteSmart can be PC or Server based (with the option of a hosted solution). The software can be used at the strategic level for modelling different scenarios down to the operational level for producing detailed routes and overnight sequencing.

RouteSmart: features and functions
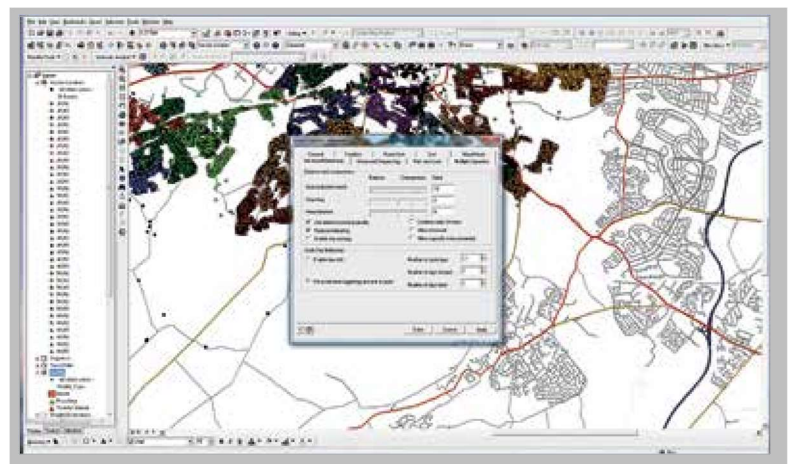

powerful: precise: effective

Base Data

The Import Wizard guides the user through the process of setting up essential data layers:

– street network
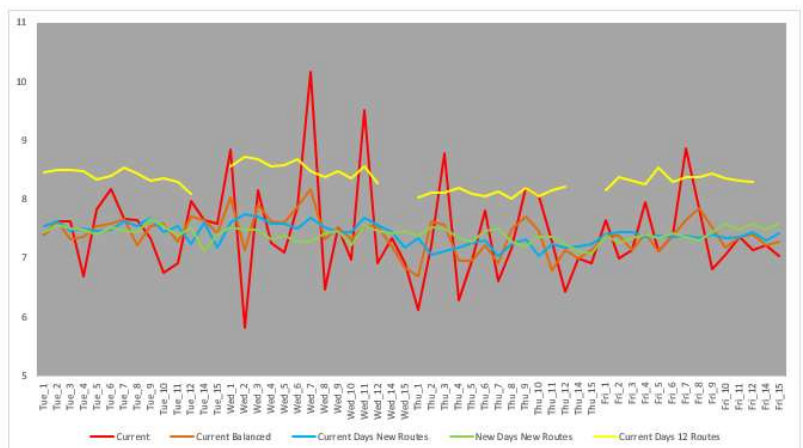– service locations
– depots and other facilities

RouteSmart can handle data in all common formats including Excel, Access, CSV files and via CRM connections.

RouteSmart can use readily available street network data from a wide range of suppliers including the Ordnance Survey Highways Data, and HERE data. Integrated Skills has created a unique tool to link the OS Highways and Paths dataset into a single streets network. The street network can be fully customised to include specific
drive restrictions. Service locations can be created from standard datasets such as the LLPG, CAG or Pointer datasets, and developed from the analysis of GPS tracking data.

Workload Balancing

Route balancing can be governed by time or load or spread evenly across a fixed number of operators or vehicles. Advanced controls allow the user to adjust the relative importance of geographically compact routes and perfect balance. Through iterative modelling, the most desirable and practical solution is determined. Solutions can be saved and compared together.

RouteSmart: modelling real-world constraints
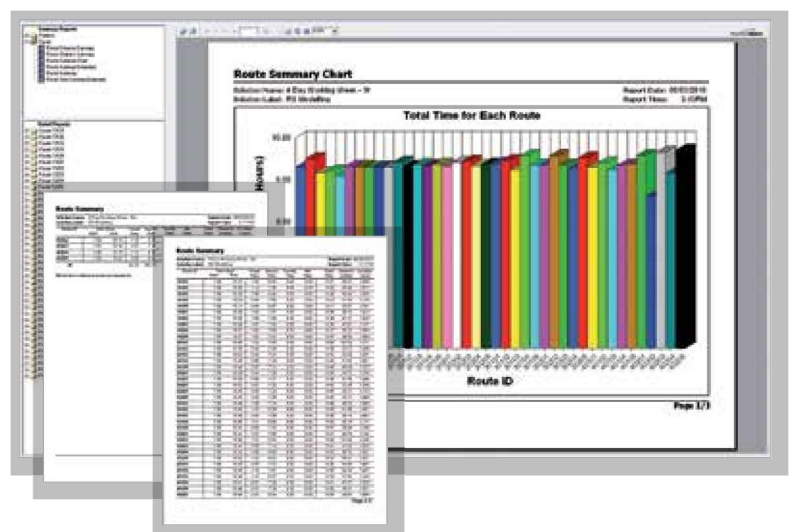

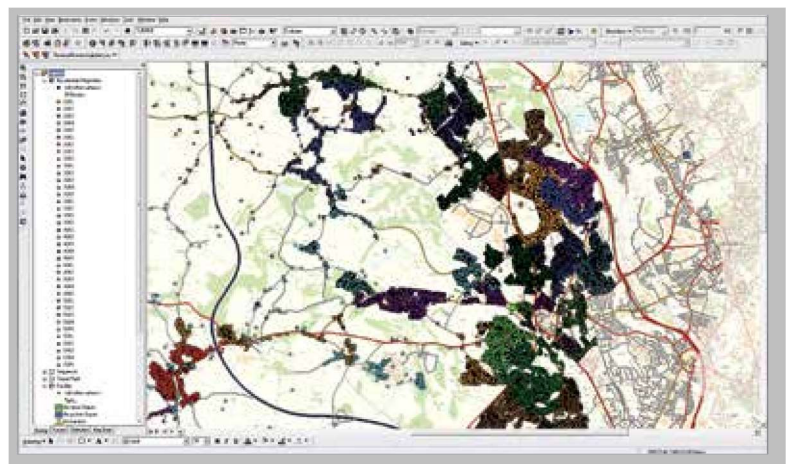## Taking Account of Constraints

Constraints include specific route and service restrictions such as time-windows and local access restrictions.

The Route Editor gives users the power to make adjustments that consider local circumstances and requirements. A comprehensive set of tools ensures that the RouteSmart model reflects the "real world" as accurately as possible. Final routes can be fine-tuned to ensure that all local issues are incorporated in reports and on maps.

Travel Path Precision and Outputs

The routing solver calculations consider side-of-street constraints and individual service point locations. This level of precision translates into routes that offer the maximum potential efficiencies consistent with all the constraints and other parameters identified in the base data and added by the user.

Detailed and customisable turn-by-turn summaries and maps give drivers precise route instructions.
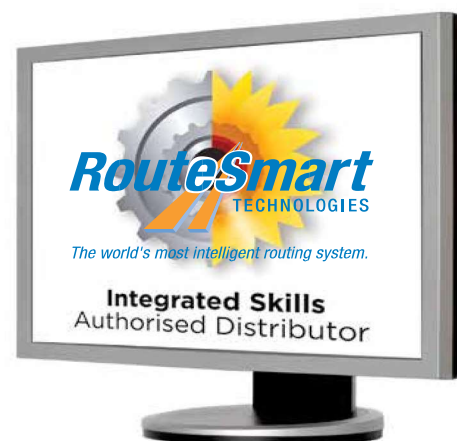
RouteSmart
Designed for all high-density routing problems

RouteSmart software is a class-leading, high-precision route optimisation and workload balancing solution. The first of its kind to the market and developed continuously over the last 25 years, RouteSmart is tried and tested by leading organisations and public authorities throughout the world.

The RouteSmart UK portfolio includes over 100 local authorities ranging from major metropolitan areas and unitary councils to smaller rural districts. As well as routing for waste and recycling collection, street cleaning and winter maintenance, RouteSmart can be applied to other services such as street lighting inspections and gully emptying.

Other key markets for RouteSmart include postal deliveries, newspaper distribution and utility meter reading; in fact, any routing problem involving day-to-day, door-to-door, street-by-street services.

Integrated Skills' expert team provide comprehensive training, support, our commitment to lifelong learning for clients, a free technical webinar programme, 24/7 customer support via our support portal, and consultancy services to all UK clients and users. This is backed by the ongoing development and worldwide support provided by RouteSmart Inc.

"Integrated Skills is now employee-owned, so you can expect continued high-quality service and customer support, from our committed and creative team who enjoy finding ways to add value for our clients."

Alan Paget
Managing Director, Integrated Skills

Integrated Skills:

Our skills and services

Integrated Skills is an established supplier of products and consultancy services in the environmental and IT sectors with specialist skills in route optimisation and related GIS development and analysis. A major part of the business is the distribution of RouteSmart software, services, training, and support to the public and private sectors. Integrated Skills also helps with implementation and integration of RouteSmart and develops added-value GPS tracking and navigation products.

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