TransIT

Professional Vehicle Routing and Dispatching System

gts **systems & consulting**

Optasoft

OPTIMIZATION IN PRACTISE

Optasoft Ltd:
Introduction and support of the software in Hungary

Components and features of TransIT:

Automated real-time vehicle routing and dispatching including the possibility of manual entry and modification. Half-automated and/or manual vehicle routing and dispatching system: Insert orders into routes and remove orders from routes, modify the sequence of orders in routes with **reoptimisation (after order changes) of routes which are already being operated.**

Optimisation in consideration of: multiple depots, multiple vehicle types, variable optimisation periods, vehicle utilisation times, categories and priorities of orders, customers' opening times, time windows for orders, regulations of driving times.

Alternative types of orders that can be considered: Node oriented with simultaneous pickup and delivery at a location, Arc oriented with separate pickup and delivery locations, Scheduled orders (matching recurring orders).

Map functionalities: determination of location coordinates (geocoding), automated or manual calculations of time, distance and toll, routing and detailed route descriptions.

Telematics services: communication with service providers, customers and branches through web portals. Communication with drivers through mobile devices. Activation of navigation systems (e.g. TomTom, maptrip), GPS vehicle location with automated Track&Trace and forecasted arrival times. Real-time target/actual comparison, subsequent route evaluations. Digital tachograph.

Management of master data and dynamic data: User administration with flexible role definitions, Interface (XML, csv, Excel, SAP) for import and export of master data and dynamic data (e.g. customers, orders, routes). Reports whose results can be used for further planning actions within the application and in external applications such as spreadsheets. Consistency checks for routes and orders.

Reference: Vehicle routing and scheduling systems using TransIT are applied by big companies such as Deutsche Post DHL and Kaindl. The largest of these systems is distributed across more than 50 locations and is used by more than 1,000 users.