



Leading Telematics Through Innovation

Nestle reduces product risk and improves efficiency

Nestle have started to rollout a bespoke telematics solution after signing a global supply agreement with RTL to supply their businesses around the world after a successful trial with Nestle Findus in Switzerland.

The initial trial was for 60 vehicles across 10 depots for 12 months. From January 2011, the benchmark was to understand the current situation. After 2 months Nestle had safety and efficiency data along with live temperature data from an initial 2 sensors coming in from these 60 vehicles and 80 different drivers.



Driver training based on the system's recommendations, began, and reports designed with Nestle were put into the weekly driver de-briefing process. The RTL driver performance, safety and efficiency score

ranks drivers overall by depot, and grading drivers across multiple sets of monitored data. This way, RTL ensures drivers who make little progress are clearly identified and trained appropriately.

The telematics system provides detailed reports on driver and vehicle safety and efficiency.

The RTL system gives Nestle the data they need to pinpoint efficiency issues quickly and accurately. Added to Nestle's driver training program and the commitment from their drivers, the system has been an invaluable asset to Nestle. Many other efficiency and safety products can be integrated with the RTL system, and therefore the project continues to evolve.

Nestle currently run over 150 HGVs and a small number of vans in Switzerland and have over 200 drivers. By using a coded key issued to each driver Nestle can grade driver efficiency and safety independently from the vehicle. During the test period it was obvious that the addition of the driver ID made all the difference when viewing driver reports rather than just vehicle economy data.

The RTL system showed Nestle the difference between an efficient truck and an inefficient driving style.



Summary

Nestlé were looking for a simple, but scalable and flexible solution. It had to bring safety to the forefront of everybody's minds, save fuel, reduce emissions, increase efficiency, as well as extend the life of the vehicle and raise driver standards. Ensuring the product is transported at the correct temperature with continual monitoring was key.

Key challenges

- Measure driver performance and inefficiency - fuel economy, idle time, optimum rev band, over revving, top gear usage and cruise.
- Measure driver performance in safety - harsh breaking, service brake / engine brake ratio, engine rev without fuel, over speeding, out of gear coasting, and reversing data.
- Monitor product temperature – with audible warning system

Solution

A future proof telematics box that can easily be upgraded over the air. Continual temperature monitoring using 4 separate temperature probes and a voice box that's warns the driver of driver behaviour and change in temperature conditions.

Key benefits

Fuel savings over the fleet, driver safety improvements, product is ensured to be transported at the correct temperature, driver warned of temperature changes in the refrigerator unit, continual reporting to fleet operations managers.



Leading Telematics Through Innovation

The second phase of installations carried out in March of 2011 had two extra temperature sensors, Driver ID via Tachograph and a voice box that warned drivers of issues with the storage of the products and their driver behaviour. Further advances with the technology means that the system initially installed in January 2011 has been added upon and developed further. With the second phase design now including four temperature sensors product wastage is significantly reduced. Firstly, an ambient air temperature sensor



monitors the outside air temperature to give the benchmark indicator.

The three other temperatures can then be monitored in relation to this to indicate any problems with the refrigeration unit. In the chiller box there is a chiller ambient air temperature sensor which gives actual air

temperature for the internal benchmark. There is also a chiller element air sensor which indicates the temperature of the chiller element. This is very important as this is the first indication that there could be a problem with the chiller elements. Lastly there is a product sensor, this assimilates real world conditions of the products carried in the chiller.

All three chiller box sensors are monitored in relation with the outside ambient air sensor. Detailed temperature graphs are viewable through the RTL system and there are different audible warning notices sounded by the voice box to warn of rising temperatures above different thresholds. As

Switzerland is a unique country that borders several countries the languages spoke in the different regions vary. As a result the audible warning notices were recorded in French, German and Italian. RTL provided one of the UK's most experienced driver trainers, to help Nestle



Findus understand fully the data and introduce a formal training program which is being continually developed to suit the business. Nestle aim is to continually raise the bar and to improve year on year. With this, they designed an efficiency / safety based incentive scheme for the drivers. The drivers were offered the scheme which promoted awareness of efficient and safe driving practices and incentives have proved popular with the drivers and have had a noticeable impact.

Nestle takes very seriously their responsibility to the world as a whole particularly in terms of the environment. They are very conscious of the carbon footprint and constantly look to systems that could accurately monitor emissions and extend vehicle life. Nestle constantly take steps to reduce CO2 in line with their current message.

In addition to the primary benefits to implementing a telematics solution, Nestle can manage all legislative requirements with real time information about where assets are located and the safety of their employees.

Call RTL on +44 1457 767309 or email sales@rtlsystems.co.uk for more information.



RTL were always upfront about what we could expect by using Skynet. We are committed globally to improve driver training and safety awareness. For a telematics solution to succeed and have significant impact we had to have complete commitment from management and leadership teams. A telematics solution will give us the tools to analyse driver behaviour, real-time product temperatures and have a systematic way in training and monitoring the improvements.