

General Information:

Issue: Inability to gain real time visual information from incidents occurring in highway locations where no fixed CCTV systems exist.

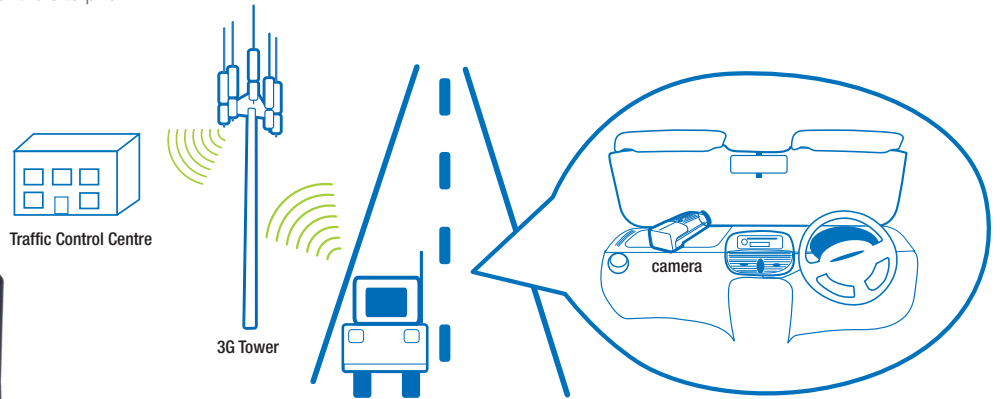
Solution: Development of a mobile platform equipped with CCTV capabilities to feed real time visual information back to the highway agency's control room.

Benefits:

- Rapid deployment capabilities.
- Quality of information received back from site.
- Emergency services gain a better understanding of the site prior to arrival.

Partners:

Triple P: Integrator
<http://www.triple-p.nl/>
KPN: cellular carrier



The Netherlands Government Highways Agency runs a fixed CCTV-monitoring system along several of its highways. The Agency's road management control room monitors these cameras on a 24/7 basis to monitor traffic congestion and general incident or emergency situations that may arise from time to time.

Mounting the camera on a vehicle meant that the integrator, Triple P, needed to find a reliable method of communicating the data back to the control room. Several transmission possibilities were considered but in the end the option of transmission via a 3G-network turned out to be the most desirable.



From the real time visual information gathered, the agency can assist in informing the appropriate parties (traffic management services, emergency responders etc.) as to the particulars of an incident and its location prior to their arrival.

For this option Triple P choose to use Call Direct's NTC-790, for its high speed capabilities, reliability, and rugged enclosure.

However not every stretch of highway is installed with fixed CCTV monitoring capabilities. This created the need for a means that would give the Highways Agency the ability to visually manage these locations when an incident or accident occurs

Designed for adverse environments, the NetComm NTC-790 is contained within a metal case and utilizes industrial strength components. This ruggedized build and its ability to operate in a wide temperature range (from -30°C to 70°C) make it ideal for deployment on mobile and outdoor applications. Vehicle mounting is particularly easy for the NTC-790 because it can accept voltage inputs of between 8V and 28V.



The solution adopted was to mount a camera onto one of the Agency's service vehicles. When deployed rapidly to the location of a reported incident, this platform resolves the information gap created by not having a permanently fixed CCTV system at any particular site.

With the mobile solution in place the control room can then collect quality real-time visual information to assist the emergency services.