ITS AMERICA

TECHNOLOGY PROFILE

Triplesign

## Safety at roadworks

**AMERICA** CONFERENCE & EXPO

Booth 1141

The use of variable message signs at road construction sites can help keep workers and drivers safe at all times of the day **10–20%** The percentage of motorists that notice traffic signs while passing them

**1.** Triplesigns used for road construction sites

2. An example of speed limit signs used in the US



www.orldwide most traffic accidents occur at road construction sites, despite the use of safety measures such as temporary signage, arrow trucks, and crash attenuators.

Research shows that motorists notice only 10-20% of the traffic signage they pass. Replacing some of these signs with traffic signs that have a time-dependent message increases the awareness of the motorists drastically. In many countries, roadworks are conducted mainly during nighttime hours. As road construction often takes more than one day,



sometimes even months, a lot of signs are needed to guide the traffic and keep the road workers and motorists safe.

Often there are no workers active during the daytime, but the motorists must drive at reduced speeds, while seeing the unused traffic lanes and no activity. This increases driver frustration and disobedience.

By placing signs with variable messages, it is possible to respond to the different situations and motorists can be instructed to drive more slowly at night or while work is taking place. During the daytime or when the road is not being worked on, the motorist can drive faster or use extra lanes.

Triplesign has developed a perfect signage solution for roadworks. Its Variable Message Signs (VMS) have three sign faces and are not size limited. The signs are very energy efficient (1W/hour) and can therefore be operated wirelessly on solar energy. They can also be placed where they are needed, as communication is wireless and can be done through a webinterface or using a programmed calendar. The lane signs include multiple sections, which can each be operated individually. Another advantage of a Triplesign VMS, when compared to a LED VMS (apart from the power consumption), is that Advanced Driver Assistance Systems (ADAS) in modern cars can read the signs. When using the autopilot, the car will automatically adapt to the posted speed as soon as the in-car camera sees the sign.

The signs are EN12966 certified and TR2130C approved for use on a truck. The signs can be used for many road construction projects. When another set of messages is needed, the prisms can easily be exchanged.

The triplesign VMS can be connected to external sensors, such as flood sensors or weather stations to manage display settings and caution drivers of dangerous conditions. Unlike LED VMS signs, if power is lost, the message does not disappear.

Triplesign will be present at ITS America in April on the Stalker Radar booth, number 1141.

## FREE READER ENQUIRY SERVICE

Triplesign To learn more about this advertiser, please visit: www.magupdate.co.uk/ptti



THE TRIPLESIGN VMS CAN BE CONNECTED TO EXTERNAL SENSORS, SUCH AS FLOOD SENSORS OR WEATHER STATIONS, TO MANAGE DISPLAY SETTINGS AND CAUTION DRIVERS OF DANGEROUS CONDITIONS