

SUSTAINABLE AND COST-EFFECTIVE VMS

Traffic safety is a pressing global concern that demands urgent attention. The World Health Organization (WHO) reports that every year approximately 1.35 million lives are lost in traffic accidents, while a staggering 20 to 50 million individuals suffer injuries or disabilities. Beyond the immeasurable human suffering caused by these incidents, traffic accidents also burden economies, costing most countries an average of 3% of their GDP. Of course, the adverse impacts of traffic,

including air pollution, extend beyond human casualties from accidents.

Investing in ITS is one way to bring down the number of casualties and reduce CO₂ emissions. ITS combines many technologies to achieve the best possible effect. At present, little attention is paid to the sustainability of these solutions. The sector is seeing a proliferation of LED VMS that are used to warn drivers of a specific danger, or to (re)direct the traffic in case of incidents or traffic jams. In

many of these situations the more sustainable Triplesign VMS can be used. The use of a Triplesign VMS instead of an LED VMS can save as much as €60,000 per sign over their 25-year lifetime. Triplesign offers a standalone, easy to install, plug-and-play system that is sustainable and affordable.

The system uses only 1Wh (no matter the size of the sign).

This makes it possible to operate the signs on solar energy, using a small solar panel and battery which can be integrated in the frame of the sign. In addition, wireless communication means the sign can be operated without cables. This eliminates the need for excavation for cables and makes it possible to install the signs exactly where they are needed. The sign is also maintenance free and has a lifetime of more than 20 years.

The signs can be used for many situations, such as to warn traffic about dangerous weather conditions, flooded or slippery roads, traffic jams, animals, or unattended railway crossings. Or they can be used to use the road in a more flexible way by altering the traffic direction, speed, or purpose. ☒



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