



*A better Advanced Warning System*

## ENHANCING PEDESTRIAN CROSSING SAFETY

SafeZone is designed to alert a driver to a pedestrian on the crossing.

SafeZone addresses safety, primarily targeting human behavior by awakening & stimulating the subconscious & heightening a drivers state of mind and level of alertness. Drivers approaching a high risk pedestrian crossing are repeatedly alerted, awoken with an advanced warning of a pedestrian crossing.

Wireless directional beacons (IRADs) provide the advanced warning by being embedded into the pavement. The beacons can be seen up to 400m in advance of the crossing.

When the SafeZone system is triggered the beacons emit a continuous strobed runway effect, which is the key to awakening & stimulating the subconscious & heightening a driver's state of mind & level of alertness.

This continuous & repeated runway effect gives drivers a reminder of the approaching crossing allowing a longer reaction time.

SafeZone delivers added safety because it provides advanced warning day, night, during poor visibility and bad weather. Unlike other solutions where single reminder signs can be driven passed without noticing them, the SafeZone solution ensures that the "warning cannot be missed".

To ensure a pedestrians safety is not compromised, the system incorporates a Fail Safe mode of operation. If a beacon loses contact with the wireless controller, beacons will activate (Fail Safe flash mode). This safety feature ensures that in the unlikely event of a controller failure, the beacon operates independently and continuously in the fail safe mode.

The SafeZone system can be activated by a pedestrian pad or "Press to cross" button. SafeZone is perfectly suited to isolated,



un-powered sites as the system is powered independently by its own solar and battery source. There are no cabling requirements to install the system, which reduces installation costs & increases reliability.

A Safezone system can be installed at a fraction of the cost of a traditional signalized crosswalk.

Studies have been conducted that prove in pavement warning systems for crossings:

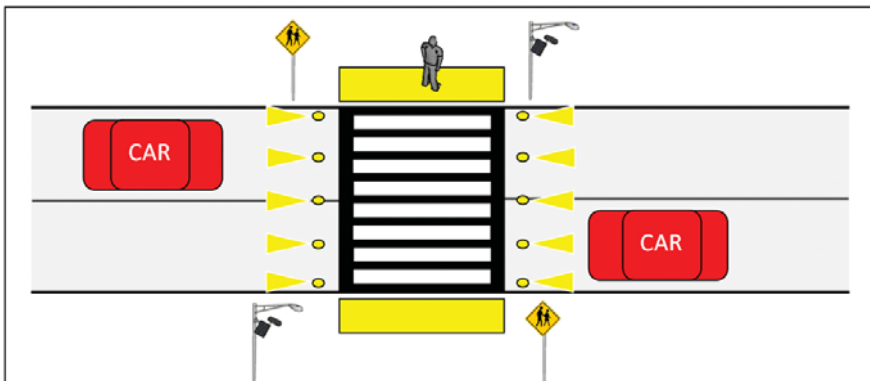
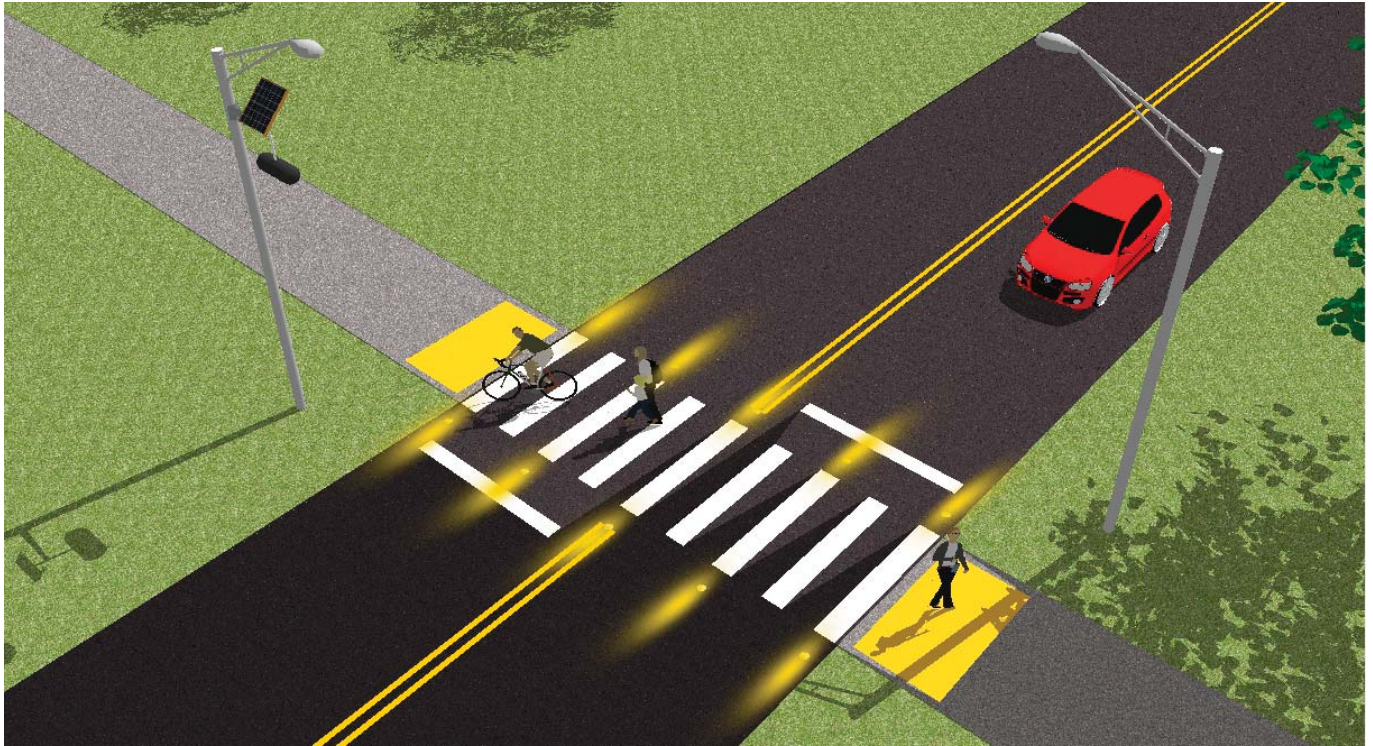
- reduce the mean speed at which vehicles approach the crosswalk
- reduce the mean number of vehicles that pass over the crosswalk while a pedestrian is waiting
- enhance the noticeability of the crosswalk to drivers that are not familiar with the location.



**As the driver approaches an 'active' SafeZone, a series of in-road beacons will alert them as to the presence of pedestrians. SafeZone increases driver awareness and reduces their approach speed, allowing pedestrians to safely cross the road.**

# HOW DOES SAFEZONE WORK?

## A typical Pedestrian Crossing Application:

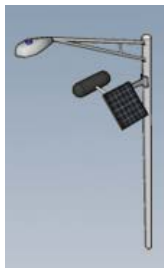


The SafeZone system is triggered by a pedestrian or cyclist standing on the **Pedestrian Pad**, located at each end of the pedestrian crossing. The SafeZone Beacons are activated automatically via the **Alert Device Controller**, signalling for motorists to STOP. The beacons are activated for a set time, as specified by the Road Authority or Council, giving pedestrians enough time to safely cross.

## SafeZone comprises two elements:

### SafeZone ADC (Alert Device Controller)

- These are the roadside, pole-mounted, AC mains or solar powered zone control units that act as the bridge between the controlling authority (eg rail authority or council), & the in-road lights. They provide the signal that activates the in-road beacons & controls their flashing pattern, as well as receives information used for remote management & fault diagnostics.



### SafeZone IRADs (In-Road Alert Devices)

- These are the in-road, ultra-bright flashing LED warning beacons.
- Battery powered
- Wireless control
- Remotely programmable
- Remote diagnostics
- Variable light output

