

WARNING

**THIS PRESENTATION CONTAINS
IMAGES
THAT MAY BE UPSETTING
FOR SOME PEOPLE.**



PHILLIP ISLAND

ROADKILL

MITIGATION

ROAD MONITORING

For a hotspot road to qualify for mitigation funding the road in question needs to be monitored, to accurately determine the extent of roadkill occurring over a period of month's.



COWES – RYHLL ROAD

Since Feb 4th I have been researching the roadkill on this road four times per week. The photographs and data collected will be made available to “Regional Road’s Vic”, “Council” and Nature Park’s for evaluation.



ROADKILL MITIGATION OPTIONS

FOLLOWING PAGES LOOK AT FOUR POSSIBLE OPTIONS WHICH
COULD BE CONSIDERED AS A MEANS OF REDUCING WILDLIFE
ROADKILL.

EXPRESSES AN OPINION ON THEIR EFFECTIVENESS AS WELL AS COST
ESTIMATES FOR THEIR INSTALLATION

STATIC SIGNAGE

Has little influence on driver awareness and behavior, as indicated by roadkill evidence on Cowes-Ryhll Rd



THE LOWERING OF ROAD SPEEDS

Has proven effective but generally unacceptable to motorists.

Lower speeds gives driver and critter more reaction time to avoid impact.

The 40k zone on the Woolami Beach Rd is an example where many motorists show blatant disregard and are more often than not, observed speeding, totally ignoring the indicated speed limit and static animal warning signs.



HI-VIS. SOLAR POWERED, LED ROAD SIGN

This sign is programmed to display a nominated higher dawn to dusk speed, and a lower speed, dusk to dawn. The sign detects speedster's, causing the red LED ring of lights to flash on and off as well as triggering the "SLOW DOWN" sign, which also flashes on and off.

This dynamic sign has the potential to be obeyed by motorist's more readily than static signage.



HI – LUX. SOLAR POWERED LED ROAD SIGN

Similar in operation to the HI-VIS system. (does not include message panel) The red rings of LED's flashing when excessive speed is detected warning motorists to slow down. Both systems monitor and record vehicle numbers and vehicle speed for analysis. These panels are usually installed at school crossings.



VIRTUAL FENCING

Whereas previous alternatives are intended to influence driver attitude and compliance, this system is directed at Wildlife behavior. It is designed to alert Wildlife to an approaching vehicle well before its arrival and in so doing scare the animal from the road. (Device headlight activation distance is approximately 400mtr) .



WHAT IS VIRTUAL FENCING.

VIRTUAL FENCING is a series of pillar mounted electronic devices installed at 50mtr intervals along each side of the road in a zig zag pattern, effectively a device is deployed every 25mtr's along the road. The devices when triggered by approaching headlights emit an audible warning, also amber and blue LED's begin flashing, warning nocturnal Wildlife off the road well in advance of the vehicles arrival.



VIRTUAL FENCING TRIALS

In 2013 a trial was initiated by “Wildlife Safety Solutions” (Australian distributors) on a 3.2k section of road on the West Coast of Tasmania. The road was monitored before and after the installation. The information from this trial was analyzed by a highly credentialed company commissioned by “WSS”. The results from this survey indicated a roadkill reduction of 68%



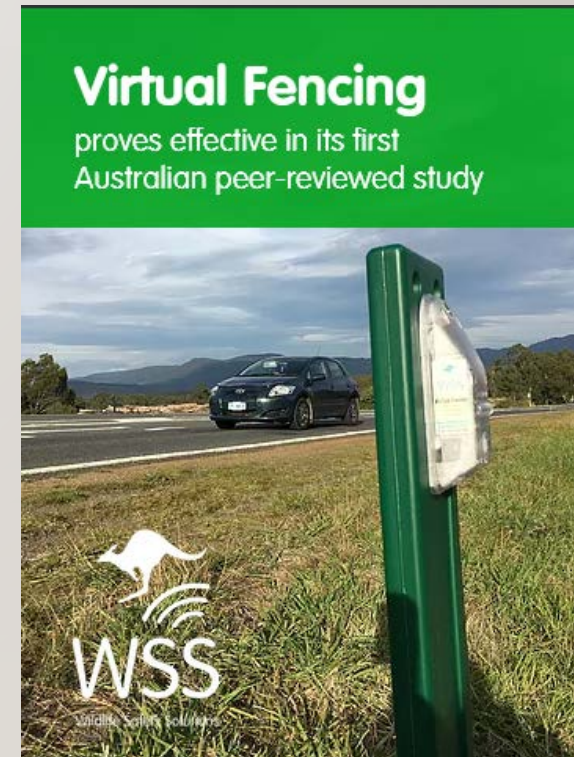
The test section was extended a further 1.9k to 5.1k and “Dr Samantha Fox” for the Tasmanian Dept of Environment, continued further testing over a 3year period. After peer approval these results were published in “Australian Mammalogy” a CSIRO publication. The findings, a 50% road kill reduction. The positive results of this trial indicate it should be given serious consideration for installation by Road Authorities.

INSTALLATIONS

Virtual Fencing is designed and manufactured in Austria, and since 2003, has been installed in many locations throughout Europe, has been introduced into Canada, and more recently in Australia.

A successful trial in Tasmania (50% kill reduction) has prompted a further twelve installations in both Tasmania and Queensland.

Some target species include kangaroos, deer, wallabies, possums and Tasmanian Devils.



KILL COMPARISONS PRE-TRIAL INSTALLATION

TASMANIA

Length of trial road 3.2k @ 100k/h

Month	Deaths	Days	Deaths/day
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Nov	17	20	0.85
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DEC	15	31	0.48
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Jan	17	31	0.55
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Feb	4	10	0.4
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TOTAL	53	92	0.58
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COWES-RYHLL Rd

Length of trial road 3.6k @ 80k/h

Month	Deaths	Days	Deaths/day
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Feb	27	23	1.17
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Mar	12	11	1.1
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Total	39	34	1.15
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COST ESTIMATES COWES-RYHLL RD

Replace existing signs to display lower speed. Less than \$10,000.00 ?



Supply & install four HI-VIS signs, \$53,000.00 + traffic manag



Supply & install four HI-LUX signs, \$78,000.00 + traffic manag



3.6 km @ 40 units per/km \$28,000 + installation + traffic manag



FUNDING RESPONSIBILITY

Surely all levels of government, Local, State and Federal have a responsibility for the welfare of all our Wildlife here, to ensure a visit to Phillip Island is a positive experience for visitors, not a negative, for which the Island will be ever remembered.

THANK YOU FOR THE OPPORTUNITY TO MAKE THIS PRESENTATION



I look forward to the possibility of engaging in future discussions on this matter with
Council Staff. Ron Day. roncday@bigpond.net.au