

PUFFIN Pedestrian Crossing

Experience with the 1st NZ Trial
(of the easy bits)

Wayne King



PUFFIN Experience

Clearly a winner.

Will be an excellent
tool for the future.

Deserving of wider use.



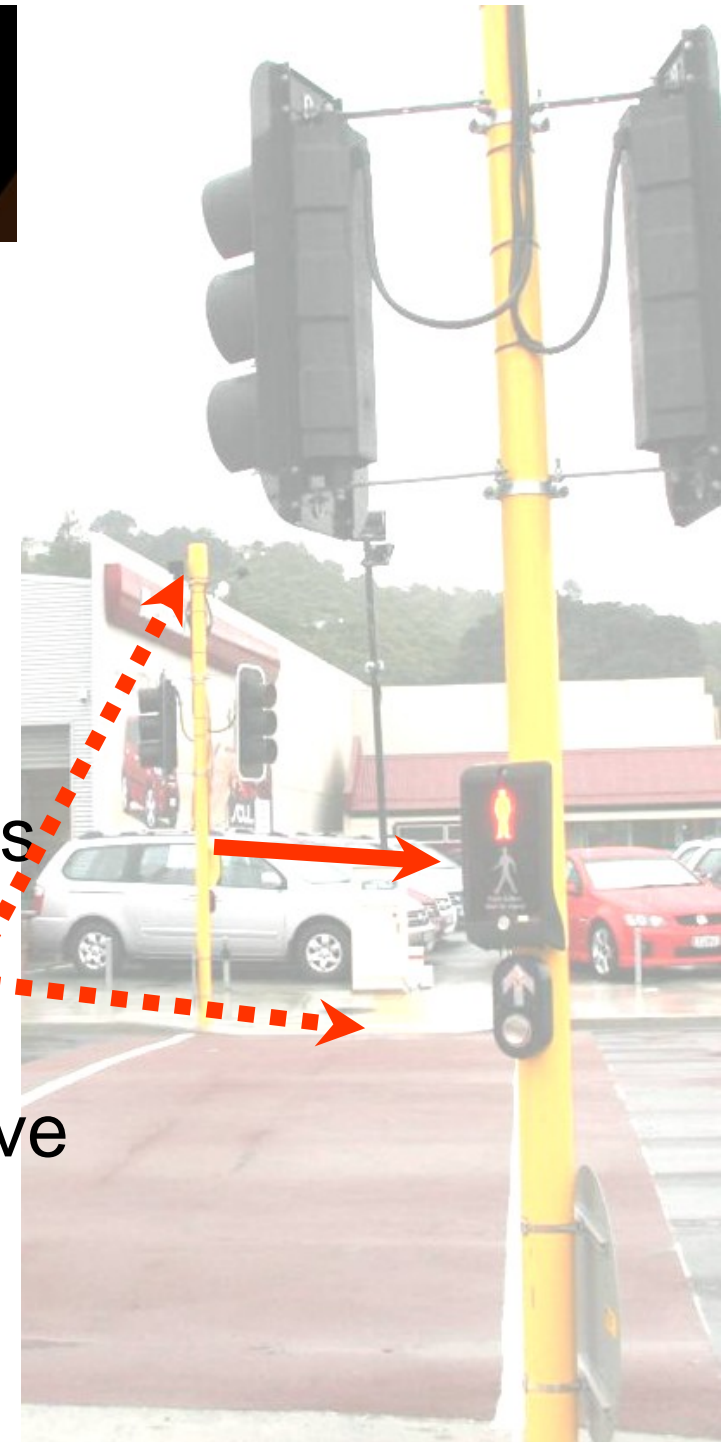
PUFFIN (Huh?)

Pedestrian User Friendly
Intelligent Crossing.

3 Prime Features:

- Near-Side Pedestrian Aspects
- Call Cancellation
- Variable Clearance times

NB: Only near-side displays have
been studied in this Trial.



PUFFIN (Huh?)

Variable Clearance Time
(Radar)

Near Side Ped
Aspect

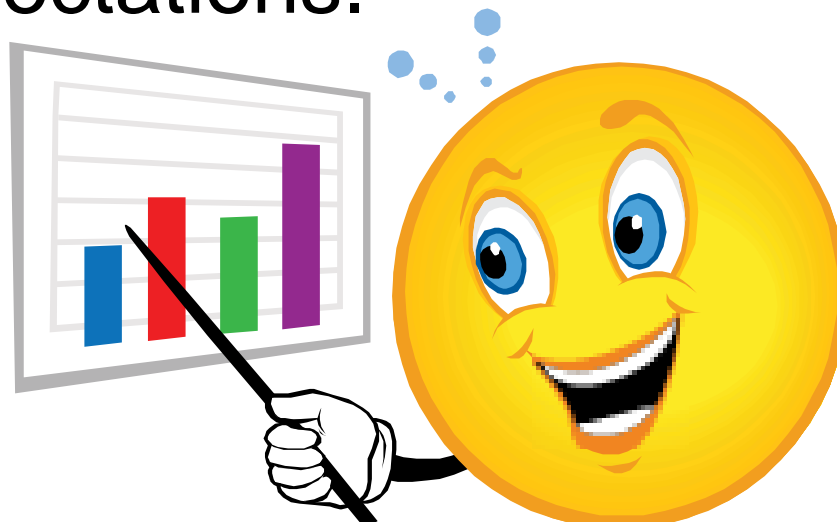
Call Cancellation
(Tiles or IR detector)

Pedestrians must face the
approaching traffic



PUFFIN Experience

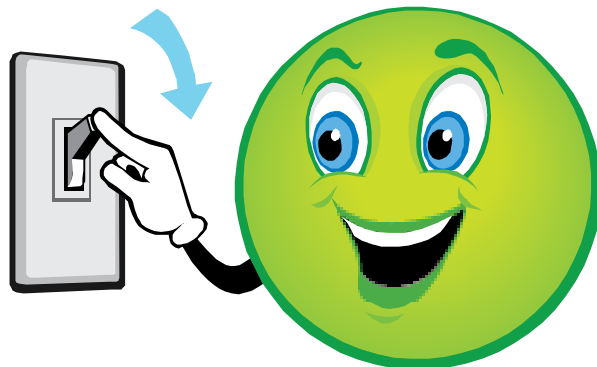
The Near-Side displays
worked well beyond my
Expectations.



PUFFIN Experience

The Near-Side Pedestrian Display is fundamentally intuitive.

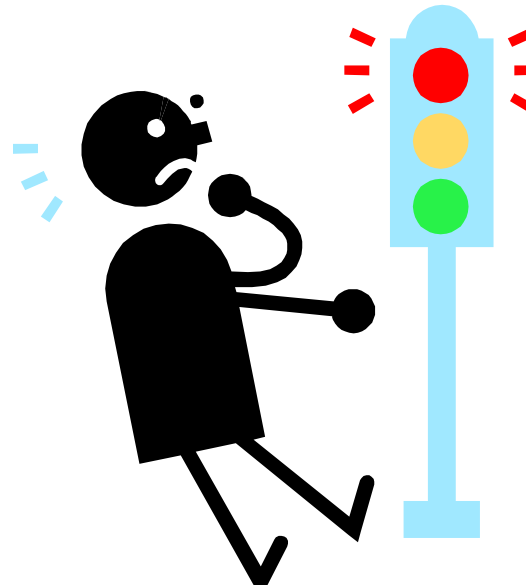
As intuitive as a



PUFFIN Success

Near-Side Displays
Eliminate the Conf using
Flashing Red Display.

No far side
display!

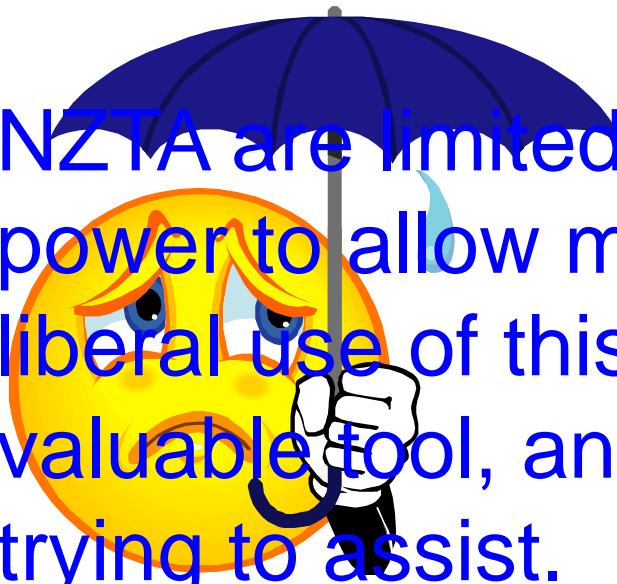


Clear indication
of a Red
Violation!

PUFFIN Pain

Will have to wait until
the Traffic Control Device Rule
is changed!

NZTA are limited in their
power to allow more
liberal use of this
valuable tool, and are
trying to assist.

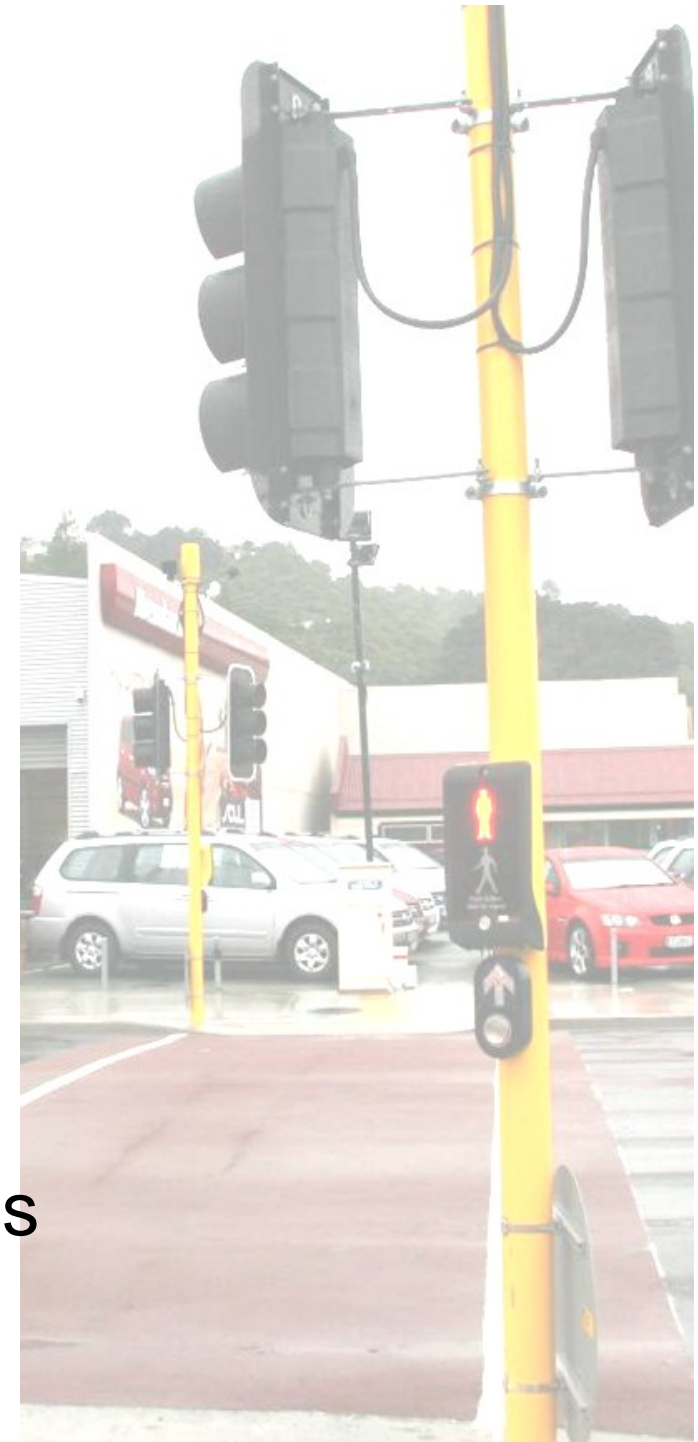


PUFFIN Trial

NZTA agreed to a *Trial* of Near-Side Pedestrian Displays.

Formal trial process, as Near-Side displays are not fully covered by the current Control Device Rule.

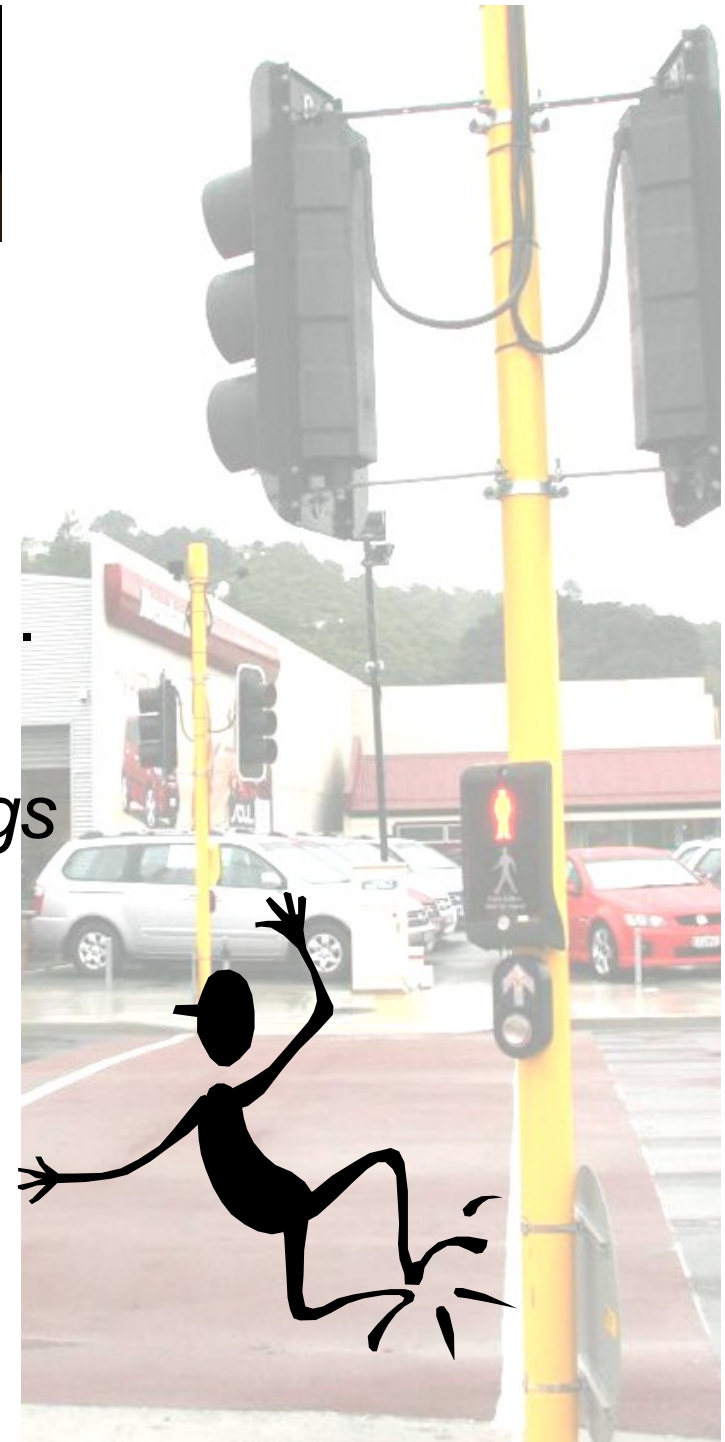
No other PUFFIN Intelligent features have been trialled (to date).



PUFFIN Success

The NZTA appointed researcher(s) concluded that Near-Side displays . . .

“This means that compliant crossings are 1.61 times more likely for the PUFFIN condition compared to the baseline condition, although this figure could vary from 1.16 to 2.24 times more likely.” (Opus 2009)



PUFFIN Future

We (HCC) advocate the use of Near-Side displays, and urge NZTA to . . .

- enable the tool for wider use
- complete the research on the additional Intelligent features, which include:
 - ✓ Call cancellation
 - ✓ Variable clearance times.



PUFFIN Award



PUFFIN *Recognition* - Gazette Notice

- Extract from *New Zealand Gazette*, 29/10/2009, No. 157, p. 3823
- **Alternative Pedestrian Traffic Signal Display Trial Extension**
- Pursuant to subclause 3.4(1) of the Land Transport Rule: Traffic Control Devices 2004 and pursuant to a sub-delegation to me by the New Zealand Transport Agency,

NZTA approval to extend Near-Side displays to 6 other HCC Crossings.

- (v) ^{Wrayford Road, 110 metres} southeast of Myrtle Street, Lower Hutt;
- (v) The Esplanade, between Victoria and Fitzherbert Streets, Petone;
- (vi) Queens Drive, 35 metres north of its southern intersection with High Street, Lower Hutt; and
- (vii) Ludlam Crescent, 35 metres north of Whites Line East, Lower Hutt.
- The period of the extended trial is from 1 November 2009 to 30 April 2010.
- The conditions of the extended trial are that evaluations are to be undertaken of:
 - (a) pedestrian understanding of and compliance with these devices at sites (ii) to (vii); and
 - (b) the effectiveness and reliability of the installed pedestrian detection equipment.
- The evaluation reports shall be received by me by Friday, 30 April 2010.
- Dated at Wellington this 22nd day of October 2009.
- LYNDON BRYAN HAMMOND, National Manager Network Management.
- **New Zealand Gazette*, 23 April 2009, No. 53, page 1284



Questions are
very Welcome



Thanks, Wayne