WESTLAND DISTRICT COUNCIL

In conjunction with

MWH New Zealand Ltd
Present....
Cultural Learnings of Asset Management for Make Benefit Most Glorious District of Westland
Otherwise referred to as...
“Developing a Robust Forward Works Programme”
Peter Anderson
Westland District Council

Tony Garchow
MWH NZ Ltd

... Make good presentation together! Hope you like?
What Is A Forward Works Programme?

“Future expenditure requirements are compared with budget provisions and balanced and/or adjusted in accordance with organizational procedures, Land Transport New Zealand procedures, and users expectations with respect to the needs of the network”
- 330kms – North to South
- 1.2 million hectares
- Population = 7940
- 705kms of road
  - 406km sealed
  - 299km unsealed
- 269 Bridges
- Value = $264 million

Westland District
Westland District Council have been innovative in the New Zealand Roading Industry for many years now...
Innovative roadside mowing!
Innovative traffic calming device!
Innovative road marking techniques #1
Innovative road marking techniques #2
What prompted WDC to develop a FWP?

- MWH
- The Local Government Act 2002
- Councils goals and objectives for transportation in Westland
- The development of a pavement performance model using dTIMS CT for Westland
- A desire to be PROACTIVE rather than reactive!
A rigorous procurement process was initiated to engage a suitably qualified Consultant capable of achieving a task of this nature.....
3. Find $x$.

Here it is Pete
History

- MWH have been involved with WDC managing their RAMM database since the mid 1990’s

- A strategy was set in place two years ago to improve the roading asset data quality and completeness.

- The development of a robust FWP was one step in that overall strategy.
In the Office

- Scope established
- Ensure the extent of the maintained carriageway was modelled
- An application was developed by MWH to assist with the drive over and ensure critical data was available for the establishment of the FWP
In the Field

• Council in conjunction with MWH undertook a full drive over of the sealed network using the application developed.

• Data reviewed and updated within the application was:

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<th>Treatment Lengths</th>
<th>Existing Surface</th>
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<td>Remaining Surface Life</td>
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<td>Surface Function</td>
<td>Mapping Errors</td>
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In the Field...

... we need to point out .... be aware of distractions present within your network!
Back in the Office

- All affected RAMM tables were updated electronically from the drive over application therefore reducing costly manual inputs.

- The 20 year FWP was developed based on the initial treatment established in the field with secondary treatments applied based on birthday sealing.
## Forward Work Programme Cost

**Programme Name:** Current Programme  
**Office:**  
**Area:** (All)  
**Sub Area:** (All)

### Programme Summary (costs in $1,000s)

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### Programme Detail

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**Source:** TxFaGRPr1_1

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End Of Report
Finalisation of the FWP

• The initial dTIMS model was run on the network

• The draft FWP was modeled as specified treatments

• Field validation of the dTIMS outputs was undertaken and compared with the initial FWP

• Minor changes were made to some treatments and the year programmed
Benefits for Westland District Council

- Knowledge shared
- Long term goals set
- Work programmed is transparent
- Confidence in information input and resulting outputs
- Improved management of infrastructural assets
- Timely development of contracts
- Now PROACTIVE NOT REACTIVE!

MWH
“The review team was very impressed with Council’s initiative to improve the quality of their RAMM database. As a result of their effort this database would have to be one of the most up to date in the country and is producing reliable reports and treatment selections”

- Land Transport New Zealand - “Technical Review of Local Roading in Westland District”
  September 2006
Where to from here

• Collection of additional data

• Use of dTIMS

• Annual field review of treatments programmed in years 1 – 5 of the FWP

• Future review of actual achieved surface lives

• FWP reflected in Council’s LTCCP and LTP
Pick a good spot to stop for smoko, either that or use a vehicle that won't get stuck on flat ground